TABLE A-1.
List of Analytes Included in DEQ Fact Sheet 19.

VOCs	PAHs	Metals/Inorganics	PCBs/Dioxins
Benzene	1-Methylnapthalene[1]	Arsenic	PCBs
Ethylbenzene	2-Methylnaphthalene[1]	Barium	TCDD, 2,3,7,8-
Toluene	Acenaphthene[1]	Cadmium	
Xylene	Acenaphthylene[1]	Chromium	
	Anthracene[1]	Lead	
	Benzo(a)anthracene[2]	Mercury	
	Benzo(a)pyrene[2]	Selenium	
	Benzo(b)fluoranthene[2]	Silver	
	Benzo(g,h,i)perylene[2]		
	Benzo(k)fluoranthene[2]		
	Chrysene[2]		
	Dibenz(a,h)anthracene[2]		
	Fluoranthene[1]		
	Fluorene[1]		
	Indeno(1,2,3-cd)pyrene[2]		
	Naphthalene[1]		
	PAHs		
	PAHs HMW[2]		
	PAHs LMW[1]		
	Phenanthrene[1]		
	Pyrene[2]		

Note:
If PCBs or dioxins are suspected to occur at the site based on site history, or if they are detected or the reporting limits are above the Table 1 ERBSCs, the volunteer should meet with DEQ to discuss further options.

1 LMW – Low molecular weight PAHs (2 to 3 aromatic ring structure; MW $\leq$ 202)
2 HMW – High molecular weight PAHs (4 to 7aromatic ring structure; MW>202)
PAHs – Polynuclear aromatic hydrocarbons

Table A-2.
Summary of Life History Information Used to Develop Receptor Group ERBSCs for Wyoming Receptors

Exposure Parameter			Units	Belted Kingfisher	Horned Lark	Mallard Duck	Western Meadow Lark	American Robin	Northern Harrier	Red-Winged Blackbird	American Kestrel	Loggerhead Shrike	Western Sandpiper	River Otter	Meadow Vole	Prairie Vole	Pronghorn	Mule Deer
Representative Feeding Guild				*Avian Piscivore*	*Avian Herbivore*	*Avian Herbivore*	*Avian Omnivore*	*Avian Omnivore*	*Avian Carnivore*	*Avian Omnivore*	*Avian Carnivore*	*Avian Carnivore/ Invsectivore*	*Avian Insectivore*	*Mammalian Piscivore*	*Mammalian Herbivore*	*Mammalian Herbivore*	*Mammalian Herbivore*	*Mammalian Herbivore*
Dietary Ingestion Rate (dwb)	(DIRdw)	95th percentile	kg/kg-day	0.162	0.238	0.054	0.203	0.207	0.071	0.235	0.094	0.225	0.146	0.051	0.166	0.112	0.034	0.027
Dietary Ingestion Rate (wwb)	(DIRfw)	95th percentile	kg/kg-day	0.532	0.795	0.218	0.670	0.687	0.234	0.941	0.308	0.740	0.583	0.205	0.664	0.374	0.114	0.091
Water Ingestion Rate	(WIR)	95th percentile	L/kg-day	0.254	0.186	0.060	0.130	0.137	0.085	0.181	0.122	0.165	0.220	0.084	0.146	0.133	0.070	0.064
Soil Fraction in Diet	(SFD)	95th percentile	unitless	0.181	0.100	0.020	0.100	0.100	0.028	0.100	0.028	0.100	0.181	0.094	0.024	0.020	0.063	0.063
Invert Fraction in Diet	(IFD)		unitless	0.00	0.00	0.00	0.63	0.50	0.00	0.00	0.33	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Mammal Fraction in Diet	(MFD)		unitless	0.50	0.00	0.00	0.00	0.00	0.50	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bird Fraction in Diet	(BFD)		unitless	0.50	0.00	0.00	0.00	0.00	0.50	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Terrestrial Plant Fraction in Diet	(PFD)		unitless	0.00	1.00	0.00	0.37	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00
Fish Fraction in Diet	(FFD)		unitless	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00
Aquatic Plant Fraction in Diet	(APFD)		unitless	0.00	0.00	1.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
Aquatic Invert Fraction in Diet	(AIFD)		unitless	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00
Area Use Factor	(AUF)	Site-specific (Site/HR)	unitless	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Notes:
wwb - wet weight or fresh weight basis
dwb - dry weight basis
The AUF is set to 1 for development of ERBSCs. This means that 100% of the receptor's exposure is accounted for in the ERBSC.

Table A-2.
Summary of Life History Information Used to Develop Receptor Group ERBSCs for Wyoming Receptors

Exposure Parameter			Units	Raccoon	Deer Mouse	Grass-hopper Mouse	Long-Tailed Weasel	Red Fox	Masked Shrew
Representative Feeding Guild				*Mammalian Omnivore*	*Mammalian Omnivore*	*Mammalian Carnivore*	*Mammalian Carnivore*	*Mammalian Carnivore*	*Mammalian Insectivore*
Dietary Ingestion Rate (dwb)	(DIRdw)	95th percentile	kg/kg-day	0.106	0.190	0.152	0.390	0.072	0.192
Dietary Ingestion Rate (wwb)	(DIRfw)	95th percentile	kg/kg-day	0.424	0.630	0.500	1.283	0.237	0.631
Water Ingestion Rate	(WIR)	95th percentile	L/kg-day	0.126	0.151	0.143	0.123	0.102	0.176
Soil Fraction in Diet	(SFD)	95th percentile	unitless	0.094	0.020	0.028	0.028	0.028	0.028
Invert Fraction in Diet	(IFD)		unitless	0.00	0.50	0.50	0.00	0.00	1.00
Mammal Fraction in Diet	(MFD)		unitless	0.00	0.00	0.50	0.50	0.50	0.00
Bird Fraction in Diet	(BFD)		unitless	0.00	0.00	0.00	0.50	0.50	0.00
Terrestrial Plant Fraction in Diet	(PFD)		unitless	0.00	0.50	0.00	0.00	0.00	0.00
Fish Fraction in Diet	(FFD)		unitless	0.00	0.00	0.00	0.00	0.00	0.00
Aquatic Plant Fraction in Diet	(APFD)		unitless	0.50	0.00	0.00	0.00	0.00	0.00
Aquatic Invert Fraction in Diet	(AIFD)		unitless	0.50	0.00	0.00	0.00	0.00	0.00
Area Use Factor	(AUF)	Site-specific (Site/HR)	unitless	1.00	1.00	1.00	1.00	1.00	1.00

Notes:
wwb - wet weight or fresh weight basis
dwb - dry weight basis
The AUF is set to 1 for development of ERBSCs. This means that 100% of the receptor's exposure is accounted for in the ERBSC.

Table A-3.
Toxicity Reference Values (TRVs) Used to Develop ERBSCs

Analytes	Birds			Birds Total	Mammals			Mammals Total
	EcoSSL Bird TRV	ORNL Bird TRV	Other Bird TRV		EcoSSL Mammal TRV	ORNL Mammal TRV	Other Mammal TRV	
Inorganics & Metals								
Arsenic	2.24E+00	NV	NV	2.24E+00	1.04E+00	NV	NV	1.04E+00
Barium	NV	2.08E+01	NV	2.08E+01	5.18E+01	NV	NV	5.18E+01
Cadmium	1.47E+00	NV	NV	1.47E+00	7.70E-01	NV	NV	7.70E-01
Chromium	2.66E+00	NV	NV	2.66E+00	2.40E+00	NV	NV	2.40E+00
Lead	1.63E+00	NV	NV	1.63E+00	4.70E+00	NV	NV	4.70E+00
Mercury	NV	4.50E-01	NV	4.50E-01	NV	1.00E+00	NV	1.00E+00
Selenium	2.90E-01	NV	NV	2.90E-01	1.43E-01	NV	NV	1.43E-01
Silver	2.02E+00	NV	NV	2.02E+00	6.02E+00	NV	NV	6.02E+00
SVOCs								
1-Methylnaphthalene	NV	NV	2.33E+01	2.33E+01	6.56E+01	NV	NV	6.56E+01
2-Methylnaphthalene	NV	NV	2.33E+01	2.33E+01	6.56E+01	NV	NV	6.56E+01
Acenaphthene	NV	NV	2.33E+01	2.33E+01	6.56E+01	NV	NV	6.56E+01
Acenaphthylene	NV	NV	2.33E+01	2.33E+01	6.56E+01	NV	NV	6.56E+01
Anthracene	NV	NV	2.33E+01	2.33E+01	6.56E+01	NV	NV	6.56E+01
Benzo(a)anthracene	NV	NV	2.00E-01	2.00E-01	6.15E-01	NV	NV	6.15E-01
Benzo(a)pyrene	NV	NV	2.00E-01	2.00E-01	6.15E-01	1.00E+00	NV	6.15E-01
Benzo(b)fluoranthene	NV	NV	2.00E-01	2.00E-01	6.15E-01	NV	NV	6.15E-01
Benzo(g,h,i)perylene	NV	NV	2.00E-01	2.00E-01	6.15E-01	NV	NV	6.15E-01
Benzo(k)fluoranthene	NV	NV	2.00E-01	2.00E-01	6.15E-01	NV	NV	6.15E-01
Benzofluoranthenes, total	NV	NV	2.00E-01	2.00E-01	6.15E-01	NV	NV	6.15E-01
Chrysene	NV	NV	2.00E-01	2.00E-01	6.15E-01	NV	NV	6.15E-01
Dibenz(a,h)anthracene	NV	NV	2.00E-01	2.00E-01	6.15E-01	NV	NV	6.15E-01
Fluoranthene	NV	NV	2.33E+01	2.33E+01	6.56E+01	NV	NV	6.56E+01
Fluorene	NV	NV	2.33E+01	2.33E+01	6.56E+01	NV	NV	6.56E+01
Indeno(1,2,3-cd)pyrene	NV	NV	2.00E-01	2.00E-01	6.15E-01	NV	NV	6.15E-01
Naphthalene	NV	NV	2.33E+01	2.33E+01	6.56E+01	NV	NV	6.56E+01
PAHs	NV	NV	2.00E-01	2.00E-01	6.15E-01	NV	NV	6.15E-01
PAHs HMW	NV	NV	2.00E-01	2.00E-01	6.15E-01	NV	NV	6.15E-01
PAHs LMW	NV	NV	2.33E+01	2.33E+01	6.56E+01	NV	NV	6.56E+01
Phenanthrene	NV	NV	2.33E+01	2.33E+01	6.56E+01	NV	NV	6.56E+01
Pyrene	NV	NV	2.00E-01	2.00E-01	6.15E-01	NV	NV	6.15E-01
VOCs								
Benzene	NV	NV	NV	NV	NV	2.64E+01	NV	2.64E+01
Ethylbenzene	NV	NV	NV	NV	NV	NV	9.71E+00	9.71E+00
Toluene	NV	NV	NV	NV	NV	2.60E+01	NV	2.60E+01
Xylene	NV	NV	NV	NV	NV	2.10E+00	NV	2.10E+00

Notes: The USEPA EcoSSL documents are used as the primary source for TRVs. If unavailable, the ORNL values are applied. If ORNL values are not available, IRIS and USFWS documents are reviewed.
Abbreviations:
EcoSSL – Ecological soil screening levels
HMW – High molecular weight
IRIS – Integrated risk information system
LMW – Low molecular weight
Mg/kg-d – milligram per kilogram body weight per day
NV – No value
ORNL – Oak Ridge National Laboratory
TRV – Toxicity reference value
USEPA – U.S. Environmental Protection Agency
USFWS – U.S. Fish and Wildlife Service

Table A-4.
Summary of Bioaccumulation and Bioconcentration Factors for Prey and Forage Items at Medium-Specific ERBSC Concentrations.

Analyte	Invertebrate	Mammal	Bird	Plant	Fish	Aquatic Invertebrate	Aquatic Plant
Inorganics & Metals							
Arsenic	1.45E-01	5.73E-03	5.73E-03	3.75E-02	5.70E+02	9.00E-01	3.60E-02
Barium	9.10E-02	7.50E-03	7.50E-03	1.56E-01	3.17E+03	9.00E-01	1.50E-01
Cadmium	2.90E+01	7.15E+00	7.15E+00	9.96E+00	4.54E+03	3.40E+00	3.64E-01
Chromium	3.06E-01	2.96E-01	2.96E-01	4.10E-02	9.50E+01	3.90E-01	7.50E-03
Lead	1.41E+00	5.51E+00	5.51E+00	9.57E-01	4.50E-01	6.30E-01	4.50E-02
Mercury	3.00E+01	7.77E-01	7.77E-01	5.00E+00	5.58E+04	4.80E-01	1.37E-01
Selenium	2.42E+00	6.19E+00	6.19E+00	3.50E-01	6.45E+02	9.00E-01	1.60E-02
Silver	2.05E+00	4.00E-03	4.00E-03	1.40E-02	4.39E+02	9.00E-01	4.00E-01
SVOCs							
1-Methylnaphthalene	3.04E+00	0.00E+00	0.00E+00	2.09E+00	2.50E+03	1.59E+00	1.02E-01
2-Methylnaphthalene	3.04E+00	0.00E+00	0.00E+00	2.09E+00	2.50E+03	1.59E+00	1.02E-01
Acenaphthene	3.04E+00	0.00E+00	0.00E+00	2.09E+00	2.50E+03	1.59E+00	1.02E-01
Acenaphthylene	3.04E+00	0.00E+00	0.00E+00	2.09E+00	2.50E+03	1.59E+00	1.02E-01
Anthracene	3.04E+00	0.00E+00	0.00E+00	2.09E+00	2.50E+03	1.59E+00	1.02E-01
Benzo(a)anthracene	2.60E+00	0.00E+00	0.00E+00	1.67E-01	2.50E+03	1.59E+00	2.07E-02
Benzo(a)pyrene	2.60E+00	0.00E+00	0.00E+00	2.06E-01	2.50E+03	1.59E+00	1.15E-02
Benzo(b)fluoranthene	2.60E+00	0.00E+00	0.00E+00	1.47E-01	2.50E+03	1.59E+00	1.12E-02
Benzo(g,h,i)perylene	2.60E+00	0.00E+00	0.00E+00	1.41E-01	2.50E+03	1.59E+00	1.15E-02
Benzo(k)fluoranthene	2.60E+00	0.00E+00	0.00E+00	1.40E-01	2.50E+03	1.59E+00	1.15E-02
Chrysene	2.60E+00	0.00E+00	0.00E+00	1.68E-01	2.50E+03	1.38E+00	2.07E-02
Dibenz(a,h)anthracene	2.60E+00	0.00E+00	0.00E+00	1.56E-01	2.50E+03	1.59E+00	4.31E-03
Fluoranthene	3.04E+00	0.00E+00	0.00E+00	2.09E+00	2.50E+03	1.59E+00	5.33E-02
Fluorene	3.04E+00	0.00E+00	0.00E+00	2.09E+00	2.50E+03	1.59E+00	1.02E-01
Indeno(1,2,3-cd)pyrene	2.60E+00	0.00E+00	0.00E+00	1.42E-01	2.50E+03	1.59E+00	6.09E-03
Naphthalene	3.04E+00	0.00E+00	0.00E+00	2.09E+00	2.50E+03	1.59E+00	4.79E-01
PAHs	3.04E+00	0.00E+00	0.00E+00	2.09E+00	2.50E+03	1.59E+00	1.15E-02
PAHs HMW	2.60E+00	0.00E+00	0.00E+00	1.81E-01	2.50E+03	1.59E+00	1.15E-02
PAHs LMW	3.04E+00	0.00E+00	0.00E+00	2.09E+00	2.50E+03	1.59E+00	1.02E-01
Phenanthrene	3.04E+00	0.00E+00	0.00E+00	2.09E+00	2.50E+03	1.59E+00	1.02E-01
Pyrene	3.04E+00	0.00E+00	0.00E+00	2.09E+00	2.50E+03	1.59E+00	1.02E-01
VOCs							
Benzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.10E+01	3.97E+00	2.27E+00
Ethylbenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.01E+02	2.72E+01	5.85E-01
Toluene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.49E+02	1.23E+01	1.02E+00
Xylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.67E+02	2.98E+01	5.48E-01

Notes:
The BAFs for terrestrial receptors are specific to uptake from soil. The values for fish are BCFs that are specific to uptake from water. The BSAFs for the other aquatic receptors are specific to uptake from sediments. Mammal BAFs were assumed to be representative of bird BAFs. All values are unitless.

These uptake factors are based on the lowest medium-specific ERBSC (Table 1). Those COIs for which the ERBSC is indicated as derived in Step 3c (e.g., a soil ERBSC value of 0.283 mg/kg for PAHs for "terrestrial birds Step 3c") are potentially more toxic than the medium specific ERBSCs obtained from the literature (e.g., a value of 1.0 mg/kg for PAHs for unspecified terrestrial life) would indicate. This can be due to bioaccumulative properties or differing toxicity values. The lowest value not based on a 3c receptor was used in the bioaccumulation equations to predict dietary exposure to higher trophic levels.

Abbreviations:
BAF – bioaccumulation factor
BCF – bioconcentration factor
BSAF – biota sediment accumulation factor
SVOCs – Semi-volatile organic compounds
VOCs – Volatile organic compounds

Table A-5.
Receptor Group Specific ERBSCs for Soils.

Analyte	Amphibians (mg/kg)	Terrestrial Reptiles (mg/kg)	Terrestrial Avian Carnivores (mg/kg)		Terrestrial Avian Herbivores (mg/kg)	Terrestrial Avian Omnivore/Invertivores (mg/kg)		Terrestrial Birds (mg/kg)	Terrestrial Invertebrates (mg/kg)	Unspecified (mg/kg)	Terrestrial Mammalian Omnivore/Carnivores (mg/kg)				Terrestrial Mammalian Herbivores (mg/kg)			Terrestrial Mammalian Invertivores (mg/kg)	Terrestrial Mammals (mg/kg)	Terrestrial Plants (mg/kg)	Soil (mg/kg)
	Wyoming Toad, Red-legged Frog	Western Garter Snake	American Kestrel	Loggerhead Shrike	Horned Lark	American Robin	Westen Meadowlark	Lowest Terrestrial Avian RGERBSC	Terrestrial Invertebrate Community	Terrestrial Life	Deer Mouse	Grass-hopper Mouse	Long-Tailed Weasel	Red Fox	Prairie Vole	Pronghorn	Mule Deer	Masked Shrew	Lowest Mammalian RGERBSC	Terrestrial Plant Community	Lowest TerrestrialRGERBSC
Inorganics & Metals																					
Arsenic	NV	NV	2.99E+02	4.06E+01	6.84E+01	5.66E+01	5.39E+01	4.06E+01	6.00E+01	5.70E+00	4.92E+01	6.63E+01	7.91E+01	4.28E+02	1.62E+02	3.02E+02	3.82E+02	3.13E+01	3.13E+01	9.90E+00	5.70E+00
Barium	NV	NV	3.51E+03	4.83E+02	3.41E+02	4.49E+02	4.78E+02	3.41E+02	3.30E+02	1.04E+00	1.90E+03	4.41E+03	3.74E+03	2.02E+04	2.63E+03	6.91E+03	8.73E+03	2.27E+03	1.90E+03	5.00E+02	1.04E+00
Cadmium	NV	NV	1.09E+00	2.24E-01	6.14E-01	3.63E-01	3.29E-01	2.24E-01	2.00E+01	2.22E-03	2.08E-01	2.80E-01	2.75E-01	1.49E+00	6.89E-01	2.24E+00	2.83E+00	1.38E-01	1.38E-01	4.00E+00	2.22E-03
Chromium	NV	NV	8.69E+01	2.91E+01	7.93E+01	4.69E+01	4.27E+01	2.91E+01	4.00E-01	4.00E-01	6.52E+01	4.80E+01	1.90E+01	1.03E+02	3.52E+02	6.74E+02	8.51E+02	3.74E+01	1.90E+01	1.00E+00	4.00E-01
Lead	NV	NV	4.18E+00	4.78E+00	6.48E+00	6.12E+00	5.99E+00	4.18E+00	5.00E+02	5.37E-02	2.05E+01	8.85E+00	2.17E+00	1.18E+01	4.30E+01	1.35E+02	1.70E+02	1.70E+01	2.17E+00	5.00E+01	5.37E-02
Mercury	NV	NV	4.57E-01	6.64E-02	3.71E-01	1.23E-01	1.07E-01	6.64E-02	1.00E-01	1.00E-01	3.00E-01	4.27E-01	3.19E+00	1.72E+01	1.78E+00	5.77E+00	7.29E+00	1.73E-01	1.73E-01	3.00E-01	6.64E-02
Selenium	NV	NV	6.26E-01	5.11E-01	2.71E+00	9.43E-01	8.17E-01	5.11E-01	4.10E+00	2.76E-02	5.35E-01	2.17E-01	5.90E-02	3.19E-01	3.46E+00	1.01E+01	1.28E+01	3.04E-01	5.90E-02	5.20E-01	2.76E-02
Silver	NV	NV	3.03E+01	4.18E+00	7.45E+01	8.63E+00	7.16E+00	4.18E+00	5.00E+01	2.00E+00	3.02E+01	3.76E+01	4.82E+02	2.61E+03	1.58E+03	2.28E+03	2.88E+03	1.51E+01	1.51E+01	2.00E+00	2.00E+00
SVOCs																					
1-Methylnaphthalene	NV	NV	2.39E+02	3.29E+01	4.47E+01	4.22E+01	4.12E+01	3.29E+01	NV	3.24E+00	1.33E+02	2.79E+02	6.01E+03	3.25E+04	2.78E+02	8.90E+02	1.12E+03	1.11E+02	1.11E+02	NV	3.24E+00
2-Methylnaphthalene	NV	NV	2.39E+02	3.29E+01	4.47E+01	4.22E+01	4.12E+01	3.29E+01	NV	3.24E+00	1.33E+02	2.79E+02	6.01E+03	3.25E+04	2.78E+02	8.90E+02	1.12E+03	1.11E+02	1.11E+02	NV	3.24E+00
Acenaphthene	NV	NV	2.39E+02	3.29E+01	4.47E+01	4.22E+01	4.12E+01	3.29E+01	NV	2.00E+01	1.33E+02	2.79E+02	6.01E+03	3.25E+04	2.78E+02	8.90E+02	1.12E+03	1.11E+02	1.11E+02	2.00E+01	2.00E+01
Acenaphthylene	NV	NV	2.39E+02	3.29E+01	4.47E+01	4.22E+01	4.12E+01	3.29E+01	NV	6.82E+02	1.33E+02	2.79E+02	6.01E+03	3.25E+04	2.78E+02	8.90E+02	1.12E+03	1.11E+02	1.11E+02	NV	3.29E+01
Anthracene	NV	NV	2.39E+02	3.29E+01	4.47E+01	4.22E+01	4.12E+01	3.29E+01	NV	1.00E-01	1.33E+02	2.79E+02	6.01E+03	3.25E+04	2.78E+02	8.90E+02	1.12E+03	1.11E+02	1.11E+02	NV	1.00E-01
Benzo(a)anthracene	NV	NV	2.39E+00	3.29E-01	3.15E+00	6.51E-01	5.49E-01	3.29E-01	NV	5.21E+00	2.30E+00	3.05E+00	5.63E+01	3.05E+02	2.94E+01	7.81E+01	9.87E+01	1.22E+00	1.22E+00	NV	3.29E-01
Benzo(a)pyrene	NV	NV	2.39E+00	3.29E-01	2.75E+00	6.42E-01	5.44E-01	3.29E-01	NV	1.00E-01	2.27E+00	3.05E+00	5.63E+01	3.05E+02	2.43E+01	6.68E+01	8.44E+01	1.22E+00	1.22E+00	NV	1.00E-01
Benzo(b)fluoranthene	NV	NV	2.39E+00	3.29E-01	3.41E+00	6.55E-01	5.51E-01	3.29E-01	NV	5.98E+01	2.32E+00	3.05E+00	5.63E+01	3.05E+02	3.30E+01	8.57E+01	1.08E+02	1.22E+00	1.22E+00	NV	3.29E-01
Benzo(g,h,i)perylene	NV	NV	2.39E+00	3.29E-01	3.48E+00	6.56E-01	5.52E-01	3.29E-01	NV	1.19E+02	2.32E+00	3.05E+00	5.63E+01	3.05E+02	3.41E+01	8.79E+01	1.11E+02	1.22E+00	1.22E+00	NV	3.29E-01
Benzo(k)fluoranthene	NV	NV	2.39E+00	3.29E-01	3.51E+00	6.57E-01	5.52E-01	3.29E-01	NV	1.48E+02	2.33E+00	3.05E+00	5.63E+01	3.05E+02	3.44E+01	8.86E+01	1.12E+02	1.22E+00	1.22E+00	NV	3.29E-01
Chrysene	NV	NV	2.39E+00	3.29E-01	3.14E+00	6.51E-01	5.49E-01	3.29E-01	NV	4.73E+00	2.30E+00	3.05E+00	5.63E+01	3.05E+02	2.93E+01	7.79E+01	9.83E+01	1.22E+00	1.22E+00	NV	3.29E-01
Dibenz(a,h)anthracene	NV	NV	2.39E+00	3.29E-01	3.28E+00	6.53E-01	5.50E-01	3.29E-01	NV	1.84E+01	2.31E+00	3.05E+00	5.63E+01	3.05E+02	3.12E+01	8.20E+01	1.04E+02	1.22E+00	1.22E+00	NV	3.29E-01
Fluoranthene	NV	NV	2.39E+02	3.29E+01	4.47E+01	4.22E+01	4.12E+01	3.29E+01	NV	1.00E-01	1.33E+02	2.79E+02	6.01E+03	3.25E+04	2.78E+02	8.90E+02	1.12E+03	1.11E+02	1.11E+02	NV	1.00E-01
Fluorene	NV	NV	2.39E+02	3.29E+01	4.47E+01	4.22E+01	4.12E+01	3.29E+01	3.00E+01	3.00E+01	1.33E+02	2.79E+02	6.01E+03	3.25E+04	2.78E+02	8.90E+02	1.12E+03	1.11E+02	1.11E+02	NV	3.00E+01
Indeno(1,2,3-cd)pyrene	NV	NV	2.39E+00	3.29E-01	3.47E+00	6.56E-01	5.52E-01	3.29E-01	NV	1.09E+02	2.32E+00	3.05E+00	5.63E+01	3.05E+02	3.39E+01	8.76E+01	1.11E+02	1.22E+00	1.22E+00	NV	3.29E-01
Naphthalene	NV	NV	2.39E+02	3.29E+01	4.47E+01	4.22E+01	4.12E+01	3.29E+01	NV	9.94E-02	1.33E+02	2.79E+02	6.01E+03	3.25E+04	2.78E+02	8.90E+02	1.12E+03	1.11E+02	1.11E+02	NV	9.94E-02
PAHs	NV	NV	2.06E+00	2.83E-01	3.84E-01	3.62E-01	3.54E-01	2.83E-01	NV	1.00E+00	1.25E+00	2.61E+00	5.63E+01	3.05E+02	2.60E+00	8.34E+00	1.05E+01	1.04E+00	1.04E+00	NV	2.83E-01
PAHs HMW	NV	NV	2.39E+00	3.29E-01	2.99E+00	6.48E-01	5.47E-01	3.29E-01	1.80E+01	1.10E+00	2.29E+00	3.05E+00	5.63E+01	3.05E+02	2.73E+01	7.35E+01	9.29E+01	1.22E+00	1.22E+00	NV	3.29E-01
PAHs LMW	NV	NV	2.39E+02	3.29E+01	4.47E+01	4.22E+01	4.12E+01	3.29E+01	2.90E+01	2.90E+01	1.33E+02	2.79E+02	6.01E+03	3.25E+04	2.78E+02	8.90E+02	1.12E+03	1.11E+02	1.11E+02	NV	2.90E+01
Phenanthrene	NV	NV	2.39E+02	3.29E+01	4.47E+01	4.22E+01	4.12E+01	3.29E+01	NV	1.00E-01	1.33E+02	2.79E+02	6.01E+03	3.25E+04	2.78E+02	8.90E+02	1.12E+03	1.11E+02	1.11E+02	NV	1.00E-01
Pyrene	NV	NV	2.06E+00	2.83E-01	3.84E-01	3.62E-01	3.54E-01	2.83E-01	NV	1.00E-01	1.25E+00	2.61E+00	5.63E+01	3.05E+02	2.60E+00	8.34E+00	1.05E+01	1.04E+00	1.04E+00	NV	1.00E-01
VOCs																					
Benzene	NV	NV	No TRV	No TRV	No TRV	No TRV	No TRV	No TRV	NV	5.00E-02	6.93E+03	6.19E+03	2.41E+03	1.31E+04	1.18E+04	1.22E+04	1.54E+04	4.90E+03	2.41E+03	NV	5.00E-02
Ethylbenzene	NV	NV	No TRV	No TRV	No TRV	No TRV	No TRV	No TRV	NV	5.00E-02	2.55E+03	2.28E+03	8.89E+02	4.81E+03	4.34E+03	4.50E+03	5.69E+03	1.80E+03	8.89E+02	NV	5.00E-02
Toluene	NV	NV	No TRV	No TRV	No TRV	No TRV	No TRV	No TRV	NV	5.00E-02	6.83E+03	6.11E+03	2.38E+03	1.29E+04	1.16E+04	1.21E+04	1.52E+04	4.83E+03	2.38E+03	2.00E+02	5.00E-02
Xylene	NV	NV	No TRV	No TRV	No TRV	No TRV	No TRV	No TRV	NV	5.00E-02	5.52E+02	4.93E+02	1.92E+02	1.04E+03	9.38E+02	9.74E+02	1.23E+03	3.90E+02	1.92E+02	NV	5.00E-02

Notes:
ERBSC - Ecological risk based screening concentration
mg/kg - milligram per kilogram
No TRV - No toxicity reference value and RGERBSC cannot be calculated
NV - No value
RGERBSC - Receptor group-specific ERBSC

Table A-6.
Receptor Group Specific ERBSCs for Sediments.

Analyte	Benthic Life (mg/kg)	Amphibians (mg/kg)	Freshwater Avian Carnivores/Piscivore (mg/kg)		Freshwater Avian Omnivore/Invertivore (mg/kg)		Freshwater Avian Herbivore (mg/kg)	Aquatic Dependent Birds (mg/kg)	Freshwater Mammalian Omnivore /Carnivore (mg/kg)	Freshwater Mammalian Herbivore (mg/kg)		Aquatic Dependent Mammals (mg/kg)	Freshwater Sediment (mg/kg)
	Benthic Invertebrate Community	Wyoming Toad, Red-legged Frog	Kingfisher	Northern Harrier	Western Sandpiper	Red-Winged Blackbird	Mallard Duck	Lowest Aquatic Avian RGERBSC	River Otter	Meadow Vole	Raccoon	Lowest Aquatic Mammalian RGERBSC	Lowest Freshwater Sediment RGERBSC
Inorganics & Metals													
Arsenic	5.90E+00	NV	2.43E-02	9.33E+02	1.42E+01	1.68E+01	7.35E+02	2.43E-02	3.57E-02	1.04E+02	1.75E+01	3.57E-02	2.43E-02
Barium	2.00E+01	NV	4.07E-02	8.23E+03	1.32E+02	1.42E+02	2.25E+03	4.07E-02	3.20E-01	1.79E+03	7.90E+02	3.20E-01	4.07E-02
Cadmium	5.83E-01	NV	2.00E-03	2.88E+00	2.82E+00	3.15E+00	7.04E+01	2.00E-03	3.32E-03	1.20E+01	3.68E+00	3.32E-03	2.00E-03
Chromium	2.60E+01	NV	1.72E-01	1.15E+02	3.20E+01	3.79E+01	1.78E+03	1.72E-01	4.93E-01	4.59E+02	7.74E+01	4.93E-01	1.72E-01
Lead	3.02E+01	NV	1.64E+00	4.13E+00	1.38E+01	1.58E+01	4.61E+02	1.64E+00	1.69E+02	4.10E+02	1.03E+02	1.03E+02	1.64E+00
Mercury	1.30E-01	NV	4.99E-05	7.86E+00	4.67E+00	4.68E+00	5.27E+01	4.99E-05	3.50E-04	3.74E+01	2.35E+01	3.50E-04	4.99E-05
Selenium	2.00E+00	NV	2.76E-03	6.55E-01	1.84E+00	2.21E+00	1.48E+02	2.76E-03	4.33E-03	2.15E+01	2.45E+00	4.33E-03	2.76E-03
Silver	5.00E-01	NV	2.85E-02	8.87E+02	1.28E+01	1.15E+01	8.84E+01	2.85E-02	2.68E-01	8.55E+01	7.64E+01	2.68E-01	2.85E-02
SVOCs													
1-Methylnaphthalene	2.02E-02	NV	5.76E-02	1.17E+04	9.02E+01	1.05E+02	3.50E+03	5.76E-02	5.13E-01	3.13E+03	6.59E+02	5.13E-01	2.02E-02
2-Methylnaphthalene	2.02E-02	NV	5.76E-02	1.17E+04	9.02E+01	1.05E+02	3.50E+03	5.76E-02	5.13E-01	3.13E+03	6.59E+02	5.13E-01	2.02E-02
Acenaphthene	6.70E-03	NV	5.76E-02	1.17E+04	9.02E+01	1.05E+02	3.50E+03	5.76E-02	5.13E-01	3.13E+03	6.59E+02	5.13E-01	6.70E-03
Acenaphthylene	5.87E-03	NV	5.76E-02	1.17E+04	9.02E+01	1.05E+02	3.50E+03	5.76E-02	5.13E-01	3.13E+03	6.59E+02	5.13E-01	5.87E-03
Anthracene	1.00E-02	NV	5.76E-02	1.17E+04	9.02E+01	1.05E+02	3.50E+03	5.76E-02	5.13E-01	3.13E+03	6.59E+02	5.13E-01	1.00E-02
Benzo(a)anthracene	1.57E-02	NV	4.95E-04	1.00E+02	7.75E-01	9.39E-01	9.03E+01	4.95E-04	4.81E-03	8.28E+01	6.46E+00	4.81E-03	4.95E-04
Benzo(a)pyrene	3.19E-02	NV	4.95E-04	1.00E+02	7.75E-01	9.44E-01	1.17E+02	4.95E-04	4.81E-03	1.04E+02	6.49E+00	4.81E-03	4.95E-04
Benzo(b)fluoranthene	2.72E-02	NV	4.95E-04	1.00E+02	7.75E-01	9.44E-01	1.18E+02	4.95E-04	4.81E-03	1.05E+02	6.49E+00	4.81E-03	4.95E-04
Benzo(g,h,i)perylene	1.70E-01	NV	4.95E-04	1.00E+02	7.75E-01	9.44E-01	1.17E+02	4.95E-04	4.81E-03	1.04E+02	6.49E+00	4.81E-03	4.95E-04
Benzo(k)fluoranthene	2.72E-02	NV	4.95E-04	1.00E+02	7.75E-01	9.44E-01	1.17E+02	4.95E-04	4.81E-03	1.04E+02	6.49E+00	4.81E-03	4.95E-04
Chrysene	2.68E-02	NV	4.95E-04	1.00E+02	8.80E-01	1.06E+00	9.03E+01	4.95E-04	4.81E-03	8.28E+01	7.31E+00	4.81E-03	4.95E-04
Dibenz(a,h)anthracene	6.22E-03	NV	4.95E-04	1.00E+02	7.75E-01	9.48E-01	1.51E+02	4.95E-04	4.81E-03	1.31E+02	6.52E+00	4.81E-03	4.95E-04
Fluoranthene	3.15E-02	NV	5.76E-02	1.17E+04	9.02E+01	1.07E+02	5.84E+03	5.76E-02	5.13E-01	5.11E+03	6.76E+02	5.13E-01	3.15E-02
Fluorene	1.00E-02	NV	5.76E-02	1.17E+04	9.02E+01	1.05E+02	3.50E+03	5.76E-02	5.13E-01	3.13E+03	6.59E+02	5.13E-01	1.00E-02
Indeno(1,2,3-cd)pyrene	1.70E-02	NV	4.95E-04	1.00E+02	7.75E-01	9.47E-01	1.41E+02	4.95E-04	4.81E-03	1.23E+02	6.51E+00	4.81E-03	4.95E-04
Naphthalene	1.47E-02	NV	5.76E-02	1.17E+04	9.02E+01	8.72E+01	8.57E+02	5.76E-02	5.13E-01	7.85E+02	5.49E+02	5.13E-01	1.47E-02
PAHs	2.64E-01	NV	4.95E-04	1.00E+02	7.75E-01	9.44E-01	1.17E+02	4.95E-04	4.81E-03	1.04E+02	6.49E+00	4.81E-03	4.95E-04
PAHs HMW	1.90E-01	NV	4.95E-04	1.00E+02	7.75E-01	9.44E-01	1.17E+02	4.95E-04	4.81E-03	1.04E+02	6.49E+00	4.81E-03	4.95E-04
PAHs LMW	7.60E-02	NV	5.76E-02	1.17E+04	9.02E+01	1.05E+02	3.50E+03	5.76E-02	5.13E-01	3.13E+03	6.59E+02	5.13E-01	5.76E-02
Phenanthrene	1.87E-02	NV	5.76E-02	1.17E+04	9.02E+01	1.05E+02	3.50E+03	5.76E-02	5.13E-01	3.13E+03	6.59E+02	5.13E-01	1.87E-02
Pyrene	4.43E-02	NV	4.95E-04	1.00E+02	7.75E-01	8.99E-01	3.01E+01	4.95E-04	4.81E-03	2.93E+01	6.18E+00	4.81E-03	4.95E-04
VOCs													
Benzene	5.70E-02	NV	No TRV	No TRV	No TRV	No TRV	No TRV	No TRV	7.25E+00	6.91E+01	7.74E+01	7.25E+00	5.70E-02
Ethylbenzene	1.75E-01	NV	No TRV	No TRV	No TRV	No TRV	No TRV	No TRV	3.16E-01	9.60E+01	6.57E+00	3.16E-01	1.75E-01
Toluene	5.00E-02	NV	No TRV	No TRV	No TRV	No TRV	No TRV	No TRV	2.04E+00	1.50E+02	3.63E+01	2.04E+00	5.00E-02
Xylene	2.50E-02	NV	No TRV	No TRV	No TRV	No TRV	No TRV	No TRV	6.15E-02	2.21E+01	1.30E+00	6.15E-02	2.50E-02

Notes:
ERBSC - Ecological risk based screening concentration
mg/kg - milligram per kilogram
No TRV - No toxicity reference value and RGERBSC cannot be calculated
NV - No value
RGERBSC - Receptor group specific ERBSC

Table A-7.
Receptor Group ERBSCs for Surface Water.

Analyte	Freshwater Aquatic Life (mg/L)	Freshwater Avian Carnivores/ Piscivore (mg/L)		Freshwater Avian Omnivore /Invertivore (mg/L)		Freshwater Avian Herbivore (mg/L)	Aquatic Dependent Birds (mg/L)	Aquatic Mammalian Carnivores / Omnivore (mg/L)		Freshwater Mammalian Herbivore (mg/L)	Aquatic Dependent Mammals (mg/L)	Amphibians (mg/L)	Freshwater Reptiles (mg/L)	Surface Water (mg/L)
	Cutthroat Trout; Aquatic Invertebrate Community; Aquatic/ Riparian Plant Community	Kingfisher	Northern Harrier	Western Sandpiper	Red-Winged Blackbird	Mallard Duck	Lowest Aquatic Bird RGERBSC	River Otter	Raccoon	Meadow Vole	Lowest Aquatic Mammalian RGERBSC	Wyoming Toad, Red-legged Frog	Western Pond Turtle	Lowest Freshwater SW RGERBSC
Inorganics & Metals														
Arsenic	3.10E-03	3.93E-03	2.62E+01	1.02E+01	1.23E+01	3.75E+01	3.93E-03	1.82E-03	8.26E+00	7.13E+00	1.82E-03	NV	NV	1.82E-03
Barium	3.90E-03	6.57E-03	2.44E+02	9.44E+01	1.15E+02	3.48E+02	6.57E-03	1.64E-02	4.11E+02	3.55E+02	1.64E-02	NV	NV	3.90E-03
Cadmium	1.30E-05	3.24E-04	1.72E+01	6.67E+00	8.10E+00	2.46E+01	3.24E-04	1.70E-04	6.12E+00	5.28E+00	1.70E-04	NV	NV	1.30E-05
Chromium	2.66E-04	2.79E-02	3.12E+01	1.21E+01	1.47E+01	4.45E+01	2.79E-02	2.52E-02	1.91E+01	1.64E+01	2.52E-02	NV	NV	2.66E-04
Lead	3.50E-04	2.32E+00	1.91E+01	7.40E+00	8.99E+00	2.73E+01	2.32E+00	8.80E+00	3.73E+01	3.22E+01	8.80E+00	NV	NV	3.50E-04
Mercury	1.30E-06	8.06E-06	5.27E+00	2.04E+00	2.48E+00	7.54E+00	8.06E-06	1.79E-05	7.94E+00	6.85E+00	1.79E-05	NV	NV	1.30E-06
Selenium	1.00E-03	4.49E-04	3.40E+00	1.32E+00	1.60E+00	4.86E+00	4.49E-04	2.22E-04	1.14E+00	9.80E-01	2.22E-04	NV	NV	2.22E-04
Silver	1.20E-05	4.60E-03	2.37E+01	9.16E+00	1.11E+01	3.38E+01	4.60E-03	1.37E-02	4.78E+01	4.13E+01	1.37E-02	NV	NV	1.20E-05
SVOCs														
1-Methylnaphthalene	2.10E-03	9.31E-03	2.73E+02	1.06E+02	1.28E+02	3.90E+02	9.31E-03	2.62E-02	5.21E+02	4.50E+02	2.62E-02	NV	NV	2.10E-03
2-Methylnaphthalene	4.70E-03	9.31E-03	2.73E+02	1.06E+02	1.28E+02	3.90E+02	9.31E-03	2.62E-02	5.21E+02	4.50E+02	2.62E-02	NV	NV	4.70E-03
Acenaphthene	5.80E-03	9.31E-03	2.73E+02	1.06E+02	1.28E+02	3.90E+02	9.31E-03	2.62E-02	5.21E+02	4.50E+02	2.62E-02	NV	NV	5.80E-03
Acenaphthylene	4.84E+00	9.31E-03	2.73E+02	1.06E+02	1.28E+02	3.90E+02	9.31E-03	2.62E-02	5.21E+02	4.50E+02	2.62E-02	NV	NV	9.31E-03
Anthracene	1.20E-05	9.31E-03	2.73E+02	1.06E+02	1.28E+02	3.90E+02	9.31E-03	2.62E-02	5.21E+02	4.50E+02	2.62E-02	NV	NV	1.20E-05
Benzo(a)anthracene	1.80E-05	8.00E-05	2.34E+00	9.07E-01	1.10E+00	3.35E+00	8.00E-05	2.46E-04	4.88E+00	4.22E+00	2.46E-04	NV	NV	1.80E-05
Benzo(a)pyrene	1.40E-05	8.00E-05	2.34E+00	9.07E-01	1.10E+00	3.35E+00	8.00E-05	2.46E-04	4.88E+00	4.22E+00	2.46E-04	NV	NV	1.40E-05
Benzo(b)fluoranthene	9.07E-03	8.00E-05	2.34E+00	9.07E-01	1.10E+00	3.35E+00	8.00E-05	2.46E-04	4.88E+00	4.22E+00	2.46E-04	NV	NV	8.00E-05
Benzo(g,h,i)perylene	7.64E-03	8.00E-05	2.34E+00	9.07E-01	1.10E+00	3.35E+00	8.00E-05	2.46E-04	4.88E+00	4.22E+00	2.46E-04	NV	NV	8.00E-05
Benzo(k)fluoranthene	9.07E-03	8.00E-05	2.34E+00	9.07E-01	1.10E+00	3.35E+00	8.00E-05	2.46E-04	4.88E+00	4.22E+00	2.46E-04	NV	NV	8.00E-05
Chrysene	7.00E-03	8.00E-05	2.34E+00	9.07E-01	1.10E+00	3.35E+00	8.00E-05	2.46E-04	4.88E+00	4.22E+00	2.46E-04	NV	NV	8.00E-05
Dibenz(a,h)anthracene	5.00E-03	8.00E-05	2.34E+00	9.07E-01	1.10E+00	3.35E+00	8.00E-05	2.46E-04	4.88E+00	4.22E+00	2.46E-04	NV	NV	8.00E-05
Fluoranthene	4.00E-05	9.31E-03	2.73E+02	1.06E+02	1.28E+02	3.90E+02	9.31E-03	2.62E-02	5.21E+02	4.50E+02	2.62E-02	NV	NV	4.00E-05
Fluorene	3.00E-03	9.31E-03	2.73E+02	1.06E+02	1.28E+02	3.90E+02	9.31E-03	2.62E-02	5.21E+02	4.50E+02	2.62E-02	NV	NV	3.00E-03
Indeno(1,2,3-cd)pyrene	4.31E-03	8.00E-05	2.34E+00	9.07E-01	1.10E+00	3.35E+00	8.00E-05	2.46E-04	4.88E+00	4.22E+00	2.46E-04	NV	NV	8.00E-05
Naphthalene	1.10E-03	9.31E-03	2.73E+02	1.06E+02	1.28E+02	3.90E+02	9.31E-03	2.62E-02	5.21E+02	4.50E+02	2.62E-02	NV	NV	1.10E-03
PAHs	1.20E-05	8.00E-05	2.34E+00	9.07E-01	1.10E+00	3.35E+00	8.00E-05	2.46E-04	4.88E+00	4.22E+00	2.46E-04	NV	NV	1.20E-05
PAHs HMW	1.40E-05	8.00E-05	2.34E+00	9.07E-01	1.10E+00	3.35E+00	8.00E-05	2.46E-04	4.88E+00	4.22E+00	2.46E-04	NV	NV	1.40E-05
PAHs LMW	1.20E-05	9.31E-03	2.73E+02	1.06E+02	1.28E+02	3.90E+02	9.31E-03	2.62E-02	5.21E+02	4.50E+02	2.62E-02	NV	NV	1.20E-05
Phenanthrene	4.00E-04	9.31E-03	2.73E+02	1.06E+02	1.28E+02	3.90E+02	9.31E-03	2.62E-02	5.21E+02	4.50E+02	2.62E-02	NV	NV	4.00E-04
Pyrene	2.50E-05	8.00E-05	2.34E+00	9.07E-01	1.10E+00	3.35E+00	8.00E-05	2.46E-04	4.88E+00	4.22E+00	2.46E-04	NV	NV	2.50E-05
VOCs														
Benzene	2.10E-02	No TRV	No TRV	No TRV	No TRV	No TRV	No TRV	3.71E-01	2.09E+02	1.81E+02	3.71E-01	NV	NV	2.10E-02
Ethylbenzene	7.30E-03	No TRV	No TRV	No TRV	No TRV	No TRV	No TRV	1.62E-02	7.71E+01	6.65E+01	1.62E-02	NV	NV	7.30E-03
Toluene	2.00E-03	No TRV	No TRV	No TRV	No TRV	No TRV	No TRV	1.04E-01	2.07E+02	1.78E+02	1.04E-01	NV	NV	2.00E-03
Xylene	1.80E-03	No TRV	No TRV	No TRV	No TRV	No TRV	No TRV	3.15E-03	1.67E+01	1.44E+01	3.15E-03	NV	NV	1.80E-03

Notes:
ERBSC - Ecological risk based screening concentration
mg/L - milligram perliter
No TRV - No toxicity reference value and RGERBSC cannot be calculated
NV - No value
RGERBSC - Receptor group specific ERBSC

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	SVOCs	1-Methylnaphthalene	90120	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	SVOCs	2-Methylnaphthalene	91576	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Acenaphthene	83329	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Acenaphthylene	208968	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Anthracene	120127	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Arsenic	7440382	Dose	Eco-SSL Bird TRV	mg/kg-d	2.24	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Arsenic. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	TRV	GRO,REP,MOR	
Inorganics	Inorganics & Metals	Barium	7440393	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Barium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. February 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	VOCs	Benzene	71432	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Benzo(a)anthracene	56553	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Benzo(a)pyrene	50328	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Benzo(b)fluoranthene	205992	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Benzo(k)fluoranthene	207089	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Benzofluoranthenes, to	40	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Dose	Eco-SSL Bird TRV	mg/kg-d	1.47	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Cadmium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	TRV	GRO,REP,MOR	
Inorganics	Inorganics & Metals	Chromium	16065831	Dose	Eco-SSL Bird TRV	mg/kg-d	2.66	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	TRV	GRO,REP,MOR	III
Inorganics	Inorganics & Metals	Chromium	18540299	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	VI
Inorganics	Inorganics & Metals	Chromium	7440473	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	Total
Organics	SVOCs	Chrysene	218019	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	VOCs	Ethylbenzene	100414	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Lead	7439921	Dose	Eco-SSL Bird TRV	mg/kg-d	1.63	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Lead. Interim Final. Office of Solid Waste and Emergency Response. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	TRV	GRO,REP,MOR	
Organics	SVOCs	Naphthalene	91203	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Mercury	7487947	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	HgCl2
Organics	SVOCs	Pyrene	129000	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Selenium	7782492	Dose	Eco-SSL Bird TRV	mg/kg-d	0.29	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Selenium. Interim Final. Office of Solid Waste and Emergency Response. July 2007. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	TRV	GRO,REP,MOR	
Inorganics	Inorganics & Metals	Silver	7440224	Dose	Eco-SSL Bird TRV	mg/kg-d	2.02	United States Environmental Protection Agency (USEPA). 2006. Ecological Soil Screening Levels for Silver. Interim Final. Office of Solid Waste and Emergency Response. September 2006. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	TRV	GRO,REP,MOR	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	VOCs	Toluene	108883	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	VOCs	Xylene	1330207	Dose	Eco-SSL Bird TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	SVOCs	1-Methylnaphthalene	90120	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	2-Methylnaphthalene	91576	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Acenaphthene	83329	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Acenaphthylene	208968	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Anthracene	120127	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Barium	7440393	Dose	ORNL Bird TRV	mg/kg-d	20.8	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	TRV	Final NOAEL	
Organics	VOCs	Benzene	71432	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Benzo(a)anthracene	56553	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Benzo(a)pyrene	50328	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Benzo(b)fluoranthene	205992	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Benzo(k)fluoranthene	207089	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	SVOCs	Benzofluoranthenes, to	40	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Chrysene	218019	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	VOCs	Ethylbenzene	100414	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Fluoranthene	206440	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Fluorene	86737	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Mercury	7487947	Dose	ORNL Bird TRV	mg/kg-d	0.45	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	TRV	Final NOAEL	
Organics	SVOCs	Naphthalene	91203	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	PAHs	41	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	PAHs HMW	34	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	PAHs LMW	33	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Phenanthrene	85018	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	Pyrene	129000	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Dose	ORNL Bird TRV	mg/kg-d	0.000014	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	TRV	Final NOAEL	
Organics	VOCs	Toluene	108883	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	VOCs	Xylene	1330207	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	VOCs	Xylene	108383	Dose	ORNL Bird TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	1-Methylnaphthalene	90120	Dose	Eco-SSL Mammal TRV	mg/kg-d	65.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs LMW
Organics	SVOCs	2-Methylnaphthalene	91576	Dose	Eco-SSL Mammal TRV	mg/kg-d	65.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs LMW
Organics	SVOCs	Acenaphthene	83329	Dose	Eco-SSL Mammal TRV	mg/kg-d	65.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs LMW
Organics	SVOCs	Acenaphthylene	208968	Dose	Eco-SSL Mammal TRV	mg/kg-d	65.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs LMW
Organics	SVOCs	Anthracene	120127	Dose	Eco-SSL Mammal TRV	mg/kg-d	65.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs LMW
Inorganics	Inorganics & Metals	Arsenic	7440382	Dose	Eco-SSL Mammal TRV	mg/kg-d	1.04	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Arsenic. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	
Inorganics	Inorganics & Metals	Barium	7440393	Dose	Eco-SSL Mammal TRV	mg/kg-d	51.8	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Barium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. February 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	
Organics	SVOCs	Benzo(a)anthracene	56553	Dose	Eco-SSL Mammal TRV	mg/kg-d	0.615	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs HMW
Organics	SVOCs	Benzo(a)pyrene	50328	Dose	Eco-SSL Mammal TRV	mg/kg-d	0.615	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs HMW
Organics	SVOCs	Benzo(b)fluoranthene	205992	Dose	Eco-SSL Mammal TRV	mg/kg-d	0.615	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs HMW
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Dose	Eco-SSL Mammal TRV	mg/kg-d	0.615	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs HMW
Organics	SVOCs	Benzo(k)fluoranthene	207089	Dose	Eco-SSL Mammal TRV	mg/kg-d	0.615	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs HMW
Organics	SVOCs	Benzofluoranthenes, to	40	Dose	Eco-SSL Mammal TRV	mg/kg-d	0.615	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs HMW
Inorganics	Inorganics & Metals	Cadmium	7440439	Dose	Eco-SSL Mammal TRV	mg/kg-d	0.77	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Cadmium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	
Inorganics	Inorganics & Metals	Chromium	16065831	Dose	Eco-SSL Mammal TRV	mg/kg-d	2.4	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	III
Inorganics	Inorganics & Metals	Chromium	18540299	Dose	Eco-SSL Mammal TRV	mg/kg-d	9.24	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	VI
Inorganics	Inorganics & Metals	Chromium	7440473	Dose	Eco-SSL Mammal TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	NA	NA	Total
Organics	SVOCs	Chrysene	218019	Dose	Eco-SSL Mammal TRV	mg/kg-d	0.615	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs HMW
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Dose	Eco-SSL Mammal TRV	mg/kg-d	0.615	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs HMW
Organics	SVOCs	Fluoranthene	206440	Dose	Eco-SSL Mammal TRV	mg/kg-d	65.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs LMW
Organics	SVOCs	Fluorene	86737	Dose	Eco-SSL Mammal TRV	mg/kg-d	65.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs LMW
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Dose	Eco-SSL Mammal TRV	mg/kg-d	0.615	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs HMW
Inorganics	Inorganics & Metals	Lead	7439921	Dose	Eco-SSL Mammal TRV	mg/kg-d	4.7	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Lead. Interim Final. Office of Solid Waste and Emergency Response. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Inorganics	Inorganics & Metals	Mercury	7439976	Dose	Eco-SSL Mammal TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	Naphthalene	91203	Dose	Eco-SSL Mammal TRV	mg/kg-d	65.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs LMW
Organics	SVOCs	PAHs	41	Dose	Eco-SSL Mammal TRV	mg/kg-d	0.615	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs HMW
Organics	SVOCs	PAHs HMW	34	Dose	Eco-SSL Mammal TRV	mg/kg-d	0.615	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs HMW
Organics	SVOCs	PAHs LMW	33	Dose	Eco-SSL Mammal TRV	mg/kg-d	65.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs LMW
Organics	SVOCs	Phenanthrene	85018	Dose	Eco-SSL Mammal TRV	mg/kg-d	65.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs LMW
Organics	SVOCs	Pyrene	129000	Dose	Eco-SSL Mammal TRV	mg/kg-d	0.615	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	PAHs LMW
Inorganics	Inorganics & Metals	Selenium	7782492	Dose	Eco-SSL Mammal TRV	mg/kg-d	0.143	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Selenium. Interim Final. Office of Solid Waste and Emergency Response. July 2007. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	
Inorganics	Inorganics & Metals	Silver	7440224	Dose	Eco-SSL Mammal TRV	mg/kg-d	6.02	United States Environmental Protection Agency (USEPA). 2006. Ecological Soil Screening Levels for Silver. Interim Final. Office of Solid Waste and Emergency Response. September 2006. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	TRV	GRO,REP,MOR	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Dose	Eco-SSL Mammal TRV	mg/kg-d	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	1-Methylnaphthalene	90120	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	2-Methylnaphthalene	91576	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	Acenaphthene	83329	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	Acenaphthylene	208968	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	Anthracene	120127	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	VOCs	Benzene	71432	Dose	ORNL Mammal TRV	mg/kg-d	26.36	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	TRV	Final NOAEL	
Organics	SVOCs	Benzo(a)anthracene	56553	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	Benzo(a)pyrene	50328	Dose	ORNL Mammal TRV	mg/kg-d	1	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	TRV	Final NOAEL	
Organics	SVOCs	Benzo(b)fluoranthene	205992	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	Benzo(k)fluoranthene	207089	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	Benzofluoranthenes, to	40	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	Chrysene	218019	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	VOCs	Ethylbenzene	100414	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	Fluoranthene	206440	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	Fluorene	86737	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Inorganics	Inorganics & Metals	Mercury	7487947	Dose	ORNL Mammal TRV	mg/kg-d	1	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	TRV	Final NOAEL	HgCl2
Organics	SVOCs	Naphthalene	91203	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	PAHs	41	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	PAHs HMW	34	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	PAHs LMW	33	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	Phenanthrene	85018	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	Pyrene	129000	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Dose	ORNL Mammal TRV	mg/kg-d	0.000001	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	TRV	Final NOAEL	
Organics	VOCs	Toluene	108883	Dose	ORNL Mammal TRV	mg/kg-d	26	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	TRV	Final NOAEL	
Organics	VOCs	Xylene	1330207	Dose	ORNL Mammal TRV	mg/kg-d	2.1	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	TRV	Final NOAEL	Total
Organics	VOCs	Xylene	108383	Dose	ORNL Mammal TRV	mg/kg-d	NV	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	1-Methylnaphthalene	90120	Sediment	Minimum RAIS Sedimer	mg/kg	NV	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	NA	NA	
Organics	SVOCs	2-Methylnaphthalene	91576	Sediment	Minimum RAIS Sedimer	mg/kg	0.0202	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	Acenaphthene	83329	Sediment	Minimum RAIS Sedimer	mg/kg	0.0067	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	Acenaphthylene	208968	Sediment	Minimum RAIS Sedimer	mg/kg	0.00587	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	Anthracene	120127	Sediment	Minimum RAIS Sedimer	mg/kg	0.0316	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Arsenic	7440382	Sediment	Minimum RAIS Sedimer	mg/kg	5.9	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Barium	7440393	Sediment	Minimum RAIS Sedimer	mg/kg	NV	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	NA	NA	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	VOCs	Benzene	71432	Sediment	Minimum RAIS Sedimer	mg/kg	0.057	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	Benzo(a)anthracene	56553	Sediment	Minimum RAIS Sedimer	mg/kg	0.0317	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	Benzo(a)pyrene	50328	Sediment	Minimum RAIS Sedimer	mg/kg	0.0319	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	Benzo(b)fluoranthene	205992	Sediment	Minimum RAIS Sedimer	mg/kg	0.0272	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Sediment	Minimum RAIS Sedimer	mg/kg	0.17	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	Benzo(k)fluoranthene	207089	Sediment	Minimum RAIS Sedimer	mg/kg	0.0272	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	Benzofluoranthenes, to	40	Sediment	Minimum RAIS Sedimer	mg/kg	2.3	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Cadmium	7440439	Sediment	Minimum RAIS Sedimer	mg/kg	0.592	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Cadmium	7440439	Sediment	Minimum RAIS Sedimer	mg/kg	0.99	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Chromium	16065831	Sediment	Minimum RAIS Sedimer	mg/kg	NV	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Chromium	16065831	Sediment	Minimum RAIS Sedimer	mg/kg	NV	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Chromium	18540299	Sediment	Minimum RAIS Sedimer	mg/kg	NV	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Chromium	7440473	Sediment	Minimum RAIS Sedimer	mg/kg	26	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	Chromium, Total
Organics	SVOCs	Chrysene	218019	Sediment	Minimum RAIS Sedimer	mg/kg	0.0571	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Sediment	Minimum RAIS Sedimer	mg/kg	0.00622	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	VOCs	Ethylbenzene	100414	Sediment	Minimum RAIS Sedimer	mg/kg	0.175	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	Fluoranthene	206440	Sediment	Minimum RAIS Sedimer	mg/kg	0.0642	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	Fluorene	86737	Sediment	Minimum RAIS Sedimer	mg/kg	0.019	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Sediment	Minimum RAIS Sedimer	mg/kg	0.017	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Lead	7439921	Sediment	Minimum RAIS Sedimer	mg/kg	30.2	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Mercury	7439976	Sediment	Minimum RAIS Sedimer	mg/kg	0.13	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	Mercury (elemental)
Organics	SVOCs	Naphthalene	91203	Sediment	Minimum RAIS Sedimer	mg/kg	0.0328	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	PAHs	41	Sediment	Minimum RAIS Sedimer	mg/kg	1.61	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	Polycyclic aromatic hydrocarbons (PAH), Total
Organics	SVOCs	PAHs HMW	34	Sediment	Minimum RAIS Sedimer	mg/kg	0.19	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)
Organics	SVOCs	PAHs LMW	33	Sediment	Minimum RAIS Sedimer	mg/kg	0.076	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)
Organics	PCBs & Dioxins	PCBs	1336363	Sediment	Minimum RAIS Sedimer	mg/kg	0.0216	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	PCBs & Dioxins	PCBs	1336363	Sediment	Minimum RAIS Sedimer	mg/kg	0.0598	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	Phenanthrene	85018	Sediment	Minimum RAIS Sedimer	mg/kg	0.0419	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	SVOCs	Pyrene	129000	Sediment	Minimum RAIS Sedimer	mg/kg	0.053	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Selenium	7782492	Sediment	Minimum RAIS Sedimer	mg/kg	2	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Silver	7440224	Sediment	Minimum RAIS Sedimer	mg/kg	0.5	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Sediment	Minimum RAIS Sedimer	mg/kg	0.00000012	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	VOCs	Toluene	108883	Sediment	Minimum RAIS Sedimer	mg/kg	0.67	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	
Organics	VOCs	Xylene	1330207	Sediment	Minimum RAIS Sedimer	mg/kg	0.433	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	Xylene, Mixture
Organics	VOCs	Xylene	108383	Sediment	Minimum RAIS Sedimer	mg/kg	0.025	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Benthic Life	SL	No Effects	Xylene, m-
Organics	SVOCs	1-Methylnaphthalene	90120	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Organics	SVOCs	2-Methylnaphthalene	91576	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Organics	SVOCs	Acenaphthene	83329	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Organics	SVOCs	Acenaphthylene	208968	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Organics	SVOCs	Anthracene	120127	Sediment	NOAA ARCS TEL FW	mg/kg	0.01	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Inorganics	Inorganics & Metals	Arsenic	7440382	Sediment	NOAA ARCS TEL FW	mg/kg	10.798	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Inorganics	Inorganics & Metals	Barium	7440393	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Organics	VOCs	Benzene	71432	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Organics	SVOCs	Benzo(a)anthracene	56553	Sediment	NOAA ARCS TEL FW	mg/kg	0.01572	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Organics	SVOCs	Benzo(a)pyrene	50328	Sediment	NOAA ARCS TEL FW	mg/kg	0.0324	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Organics	SVOCs	Benzo(b)fluoranthene	205992	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Organics	SVOCs	Benzo(k)fluoranthene	207089	Sediment	NOAA ARCS TEL FW	mg/kg	0.0272	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Organics	SVOCs	Benzofluoranthenes, to	40	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Sediment	NOAA ARCS TEL FW	mg/kg	0.583	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Inorganics	Inorganics & Metals	Chromium	7440473	Sediment	NOAA ARCS TEL FW	mg/kg	36.286	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Organics	SVOCs	Chrysene	218019	Sediment	NOAA ARCS TEL FW	mg/kg	0.02683	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Inorganics	Inorganics & Metals	Cobalt	7440484	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Copper	7440508	Sediment	NOAA ARCS TEL FW	mg/kg	28.012	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Sediment	NOAA ARCS TEL FW	mg/kg	0.01	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Organics	VOCs	Ethylbenzene	100414	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Organics	SVOCs	Fluoranthene	206440	Sediment	NOAA ARCS TEL FW	mg/kg	0.03146	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	SVOCs	Fluorene	86737	Sediment	NOAA ARCS TEL FW	mg/kg	0.01	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Sediment	NOAA ARCS TEL FW	mg/kg	0.01732	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Inorganics	Inorganics & Metals	Lead	7439921	Sediment	NOAA ARCS TEL FW	mg/kg	37	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Inorganics	Inorganics & Metals	Mercury	7439976	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Organics	SVOCs	Naphthalene	91203	Sediment	NOAA ARCS TEL FW	mg/kg	0.01465	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Inorganics	Inorganics & Metals	Nickel	7440020	Sediment	NOAA ARCS TEL FW	mg/kg	19.514	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Organics	SVOCs	PAHs	41	Sediment	NOAA ARCS TEL FW	mg/kg	0.2641	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	Total
Organics	SVOCs	PAHs HMW	34	Sediment	NOAA ARCS TEL FW	mg/kg	0.193	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)
Organics	SVOCs	PAHs LMW	33	Sediment	NOAA ARCS TEL FW	mg/kg	0.07642	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)
Organics	PCBs & Dioxins	PCBs	1336363	Sediment	NOAA ARCS TEL FW	mg/kg	0.03162	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	Total
Organics	SVOCs	Phenanthrene	85018	Sediment	NOAA ARCS TEL FW	mg/kg	0.01873	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Organics	SVOCs	Pyrene	129000	Sediment	NOAA ARCS TEL FW	mg/kg	0.04427	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Inorganics	Inorganics & Metals	Selenium	7782492	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Silver	7440224	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Tin	7440315	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Organics	VOCs	Toluene	108883	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Vanadium	VA	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	
Organics	VOCs	Xylene	1330207	Sediment	NOAA ARCS TEL FW	mg/kg	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	NA	NA	Xylene, Total
Inorganics	Inorganics & Metals	Zinc	7440666	Sediment	NOAA ARCS TEL FW	mg/kg	98	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Benthic Life	SL	Possible Effects	
Organics	SVOCs	Acenaphthene	83329	Sediment	ORNL PRG	mg/kg	0.089	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEL	
Organics	SVOCs	Acenaphthylene	208968	Sediment	ORNL PRG	mg/kg	0.13	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEL	
Organics	SVOCs	Anthracene	120127	Sediment	ORNL PRG	mg/kg	0.25	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEL	
Inorganics	Inorganics & Metals	Arsenic	7440382	Sediment	ORNL PRG	mg/kg	42	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEL	
Inorganics	Inorganics & Metals	Barium	7440393	Sediment	ORNL PRG	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	NA	NA	
Organics	VOCs	Benzene	71432	Sediment	ORNL PRG	mg/kg	0.16	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	SCV	
Organics	SVOCs	Benzo(a)anthracene	56553	Sediment	ORNL PRG	mg/kg	0.69	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEL	
Organics	SVOCs	Benzo(a)pyrene	50328	Sediment	ORNL PRG	mg/kg	0.394	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEC	
Organics	SVOCs	Benzo(b)fluoranthene	205992	Sediment	ORNL PRG	mg/kg	4	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	NEC	
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Sediment	ORNL PRG	mg/kg	6.3	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEC	
Organics	SVOCs	Benzo(k)fluoranthene	207089	Sediment	ORNL PRG	mg/kg	4	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	NEC	
Organics	SVOCs	Benzofluoranthenes, to	40	Sediment	ORNL PRG	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Sediment	ORNL PRG	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Sediment	ORNL PRG	mg/kg	4.2	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEL	
Inorganics	Inorganics & Metals	Chromium	7440473	Sediment	ORNL PRG	mg/kg	159	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEC	
Organics	SVOCs	Chrysene	218019	Sediment	ORNL PRG	mg/kg	0.85	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEL	
Inorganics	Inorganics & Metals	Cobalt	7440484	Sediment	ORNL PRG	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Copper	7440508	Sediment	ORNL PRG	mg/kg	77.7	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEC	
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Sediment	ORNL PRG	mg/kg	0.0282	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEC	
Organics	VOCs	Ethylbenzene	100414	Sediment	ORNL PRG	mg/kg	5.4	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	LCVfish	
Organics	SVOCs	Fluoranthene	206440	Sediment	ORNL PRG	mg/kg	0.834	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEC	
Organics	SVOCs	Fluorene	86737	Sediment	ORNL PRG	mg/kg	0.14	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEL	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Sediment	ORNL PRG	mg/kg	0.837	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEC	
Inorganics	Inorganics & Metals	Lead	7439921	Sediment	ORNL PRG	mg/kg	110	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEL	
Inorganics	Inorganics & Metals	Mercury	7439976	Sediment	ORNL PRG	mg/kg	0.7	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEL	
Organics	SVOCs	Naphthalene	91203	Sediment	ORNL PRG	mg/kg	0.39	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEL	
Inorganics	Inorganics & Metals	Nickel	7440020	Sediment	ORNL PRG	mg/kg	38.5	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEC	
Organics	SVOCs	PAHs	41	Sediment	ORNL PRG	mg/kg	13.66	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEC	Total
Organics	SVOCs	PAHs HMW	34	Sediment	ORNL PRG	mg/kg	4.354	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEC	Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)
Organics	SVOCs	PAHs LMW	33	Sediment	ORNL PRG	mg/kg	3.369	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEC	Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)
Organics	PCBs & Dioxins	PCBs	1336363	Sediment	ORNL PRG	mg/kg	0.18	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	ER-M	Total
Organics	SVOCs	Phenanthrene	85018	Sediment	ORNL PRG	mg/kg	0.54	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEL	
Organics	SVOCs	Pyrene	129000	Sediment	ORNL PRG	mg/kg	1.4	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEL	
Inorganics	Inorganics & Metals	Selenium	7782492	Sediment	ORNL PRG	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Silver	7440224	Sediment	ORNL PRG	mg/kg	1.8	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEL	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Sediment	ORNL PRG	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Tin	7440315	Sediment	ORNL PRG	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	NA	NA	
Organics	VOCs	Toluene	108883	Sediment	ORNL PRG	mg/kg	0.05	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	SCV	
Inorganics	Inorganics & Metals	Vanadium	VA	Sediment	ORNL PRG	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	NA	NA	
Organics	VOCs	Xylene	1330207	Sediment	ORNL PRG	mg/kg	0.16	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	SCV	Xylene, Total
Inorganics	Inorganics & Metals	Zinc	7440666	Sediment	ORNL PRG	mg/kg	270	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Benthic Life	SL	PEL	
Organics	SVOCs	Anthracene	120127	Sediment	PECs FW	mg/kg	0.845	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Inorganics	Inorganics & Metals	Arsenic	7440382	Sediment	PECs FW	mg/kg	33	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Organics	VOCs	Benzene	71432	Sediment	PECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Organics	SVOCs	Benzo(a)anthracene	56553	Sediment	PECs FW	mg/kg	1.05	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Organics	SVOCs	Benzo(a)pyrene	50328	Sediment	PECs FW	mg/kg	1.45	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Inorganics	Inorganics & Metals	Beryllium	7440417	Sediment	PECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Sediment	PECs FW	mg/kg	4.98	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Inorganics	Inorganics & Metals	Chromium	7440473	Sediment	PECs FW	mg/kg	111	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Organics	SVOCs	Chrysene	218019	Sediment	PECs FW	mg/kg	1.29	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Inorganics	Inorganics & Metals	Cobalt	7440484	Sediment	PECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Copper	7440508	Sediment	PECs FW	mg/kg	149	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Sediment	PECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Organics	VOCs	Ethylbenzene	100414	Sediment	PECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	SVOCs	Fluoranthene	206440	Sediment	PECs FW	mg/kg	2.23	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Organics	SVOCs	Fluorene	86737	Sediment	PECs FW	mg/kg	0.536	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Inorganics	Inorganics & Metals	Lead	7439921	Sediment	PECs FW	mg/kg	128	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Inorganics	Inorganics & Metals	Mercury	7439976	Sediment	PECs FW	mg/kg	1.06	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Organics	SVOCs	Naphthalene	91203	Sediment	PECs FW	mg/kg	0.561	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Inorganics	Inorganics & Metals	Nickel	7440020	Sediment	PECs FW	mg/kg	48.6	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Organics	SVOCs	PAHs	41	Sediment	PECs FW	mg/kg	22.8	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	Total
Organics	PCBs & Dioxins	PCBs	1336363	Sediment	PECs FW	mg/kg	0.676	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	Total
Organics	SVOCs	Phenanthrene	85018	Sediment	PECs FW	mg/kg	1.17	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Organics	SVOCs	Pyrene	129000	Sediment	PECs FW	mg/kg	1.52	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Inorganics	Inorganics & Metals	Selenium	7782492	Sediment	PECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Silver	7440224	Sediment	PECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Organics	VOCs	Toluene	108883	Sediment	PECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Vanadium	VA	Sediment	PECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Organics	VOCs	Xylene	1330207	Sediment	PECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	Xylene, Total
Inorganics	Inorganics & Metals	Zinc	7440666	Sediment	PECs FW	mg/kg	459	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	PEC	
Organics	SVOCs	Anthracene	120127	Sediment	TECs FW	mg/kg	0.0572	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Inorganics	Inorganics & Metals	Arsenic	7440382	Sediment	TECs FW	mg/kg	9.79	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Organics	VOCs	Benzene	71432	Sediment	TECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Organics	SVOCs	Benzo(a)anthracene	56553	Sediment	TECs FW	mg/kg	0.108	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Organics	SVOCs	Benzo(a)pyrene	50328	Sediment	TECs FW	mg/kg	0.15	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Inorganics	Inorganics & Metals	Beryllium	7440417	Sediment	TECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Sediment	TECs FW	mg/kg	0.99	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Inorganics	Inorganics & Metals	Chromium	7440473	Sediment	TECs FW	mg/kg	43.4	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Organics	SVOCs	Chrysene	218019	Sediment	TECs FW	mg/kg	0.166	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Inorganics	Inorganics & Metals	Cobalt	7440484	Sediment	TECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Copper	7440508	Sediment	TECs FW	mg/kg	31.6	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Sediment	TECs FW	mg/kg	0.033	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Organics	VOCs	Ethylbenzene	100414	Sediment	TECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	SVOCs	Fluoranthene	206440	Sediment	TECs FW	mg/kg	0.423	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Organics	SVOCs	Fluorene	86737	Sediment	TECs FW	mg/kg	0.0774	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Inorganics	Inorganics & Metals	Lead	7439921	Sediment	TECs FW	mg/kg	35.8	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Inorganics	Inorganics & Metals	Mercury	7439976	Sediment	TECs FW	mg/kg	0.18	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Organics	SVOCs	Naphthalene	91203	Sediment	TECs FW	mg/kg	0.176	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Inorganics	Inorganics & Metals	Nickel	7440020	Sediment	TECs FW	mg/kg	22.7	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Organics	SVOCs	PAHs	41	Sediment	TECs FW	mg/kg	1.61	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	Total
Organics	PCBs & Dioxins	PCBs	1336363	Sediment	TECs FW	mg/kg	0.0598	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	Total
Organics	SVOCs	Phenanthrene	85018	Sediment	TECs FW	mg/kg	0.204	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Organics	SVOCs	Pyrene	129000	Sediment	TECs FW	mg/kg	0.195	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archives of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Inorganics	Inorganics & Metals	Selenium	7782492	Sediment	TECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Silver	7440224	Sediment	TECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Organics	VOCs	Toluene	108883	Sediment	TECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Vanadium	VA	Sediment	TECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Organics	VOCs	Xylene	1330207	Sediment	TECs FW	mg/kg	NV	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	NA	NA	
Inorganics	Inorganics & Metals	Zinc	7440666	Sediment	TECs FW	mg/kg	121	MacDonald, D.D., C.G. Ingersoll, and T.A. Berger. 2000. Development and Evaluation of Consensus-Based Sediment Quality Guidelines for Freshwater Ecosystems. Archves of Environmental Contamination and Toxicology 39:20-31.	Consensus	Benthic Life	SL	TEC	
Inorganics	Inorganics & Metals	Arsenic	7440382	Soil	Eco-SSL Bird Screening	mg/kg	43	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Arsenic. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	SL	No Effect	
Inorganics	Inorganics & Metals	Barium	7440393	Soil	Eco-SSL Bird Screening	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Barium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. February 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Organics	VOCs	Benzene	71432	Soil	Eco-SSL Bird Screening	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Soil	Eco-SSL Bird Screening	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Soil	Eco-SSL Bird Screening	mg/kg	0.77	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Cadmium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	SL	No Effect	
Inorganics	Inorganics & Metals	Chromium	16065831	Soil	Eco-SSL Bird Screening	mg/kg	26	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	SL	No Effect	III
Inorganics	Inorganics & Metals	Chromium	18540299	Soil	Eco-SSL Bird Screening	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	VI
Inorganics	Inorganics & Metals	Chromium	7440473	Soil	Eco-SSL Bird Screening	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	Total
Inorganics	Inorganics & Metals	Cobalt	7440484	Soil	Eco-SSL Bird Screening	mg/kg	120	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Cobalt. Interim Final. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	SL	No Effect	
Inorganics	Inorganics & Metals	Copper	7440508	Soil	Eco-SSL Bird Screening	mg/kg	28	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Copper. Interim Final. February 2007. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	SL	No Effect	
Organics	VOCs	Ethylbenzene	100414	Soil	Eco-SSL Bird Screening	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Lead	7439921	Soil	Eco-SSL Bird Screening	mg/kg	11	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Lead. Interim Final. Office of Solid Waste and Emergency Response. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	SL	No Effect	
Inorganics	Inorganics & Metals	Mercury	7439976	Soil	Eco-SSL Bird Screening	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Nickel	7440020	Soil	Eco-SSL Bird Screening	mg/kg	210	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	SL	No Effect	
Organics	SVOCs	PAHs HMW	34	Soil	Eco-SSL Bird Screening	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	SVOCs	PAHs LMW	33	Soil	Eco-SSL Bird Screening	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)
Inorganics	Inorganics & Metals	Selenium	7782492	Soil	Eco-SSL Bird Screening	mg/kg	1.2	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Selenium. Interim Final. Office of Solid Waste and Emergency Response. July 2007. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	SL	No Effect	
Inorganics	Inorganics & Metals	Silver	7440224	Soil	Eco-SSL Bird Screening	mg/kg	4.2	United States Environmental Protection Agency (USEPA). 2006. Ecological Soil Screening Levels for Silver. Interim Final. Office of Solid Waste and Emergency Response. September 2006. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	SL	No Effect	
Inorganics	Inorganics & Metals	Vanadium	VA	Soil	Eco-SSL Bird Screening	mg/kg	7.8	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	SL	No Effect	
Organics	VOCs	Xylene	1330207	Soil	Eco-SSL Bird Screening	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	NA	NA	Xylene, Total
Inorganics	Inorganics & Metals	Zinc	7440666	Soil	Eco-SSL Bird Screening	mg/kg	46	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Birds	SL	No Effect	
Inorganics	Inorganics & Metals	Arsenic	7440382	Soil	Eco-SSL Invertebrate Se	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Arsenic. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Barium	7440393	Soil	Eco-SSL Invertebrate Se	mg/kg	330	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Barium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. February 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	SL	No Effect	
Organics	VOCs	Benzene	71432	Soil	Eco-SSL Invertebrate Se	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Soil	Eco-SSL Invertebrate Se	mg/kg	40	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	SL	No Effect	
Inorganics	Inorganics & Metals	Cadmium	7440439	Soil	Eco-SSL Invertebrate Se	mg/kg	140	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Cadmium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	SL	No Effect	
Inorganics	Inorganics & Metals	Chromium	16065831	Soil	Eco-SSL Invertebrate Se	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	NA	NA	III
Inorganics	Inorganics & Metals	Chromium	18540299	Soil	Eco-SSL Invertebrate Se	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	NA	NA	VI
Inorganics	Inorganics & Metals	Chromium	7440473	Soil	Eco-SSL Invertebrate Se	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	NA	NA	Total
Inorganics	Inorganics & Metals	Cobalt	7440484	Soil	Eco-SSL Invertebrate Se	mg/kg	NV	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Copper	7440508	Soil	Eco-SSL Invertebrate Se	mg/kg	80	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	SL	No Effect	
Organics	VOCs	Ethylbenzene	100414	Soil	Eco-SSL Invertebrate Se	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Lead	7439921	Soil	Eco-SSL Invertebrate Se	mg/kg	1700	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Lead. Interim Final. Office of Solid Waste and Emergency Response. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	SL	No Effect	
Inorganics	Inorganics & Metals	Mercury	7439976	Soil	Eco-SSL Invertebrate Se	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Nickel	7440020	Soil	Eco-SSL Invertebrate Se	mg/kg	280	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	SL	No Effect	
Organics	SVOCs	PAHs HMW	34	Soil	Eco-SSL Invertebrate Se	mg/kg	18	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	SL	No Effect	Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)
Organics	SVOCs	PAHs LMW	33	Soil	Eco-SSL Invertebrate Se	mg/kg	29	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	SL	No Effect	Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)
Inorganics	Inorganics & Metals	Selenium	7782492	Soil	Eco-SSL Invertebrate Se	mg/kg	4.1	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Selenium. Interim Final. Office of Solid Waste and Emergency Response. July 2007. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	SL	No Effect	
Inorganics	Inorganics & Metals	Silver	7440224	Soil	Eco-SSL Invertebrate Se	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2006. Ecological Soil Screening Levels for Silver. Interim Final. Office of Solid Waste and Emergency Response. September 2006. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Vanadium	VA	Soil	Eco-SSL Invertebrate Se	mg/kg	NV	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	NA	NA	
Organics	VOCs	Xylene	1330207	Soil	Eco-SSL Invertebrate Se	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	NA	NA	Xylene, Total
Inorganics	Inorganics & Metals	Zinc	7440666	Soil	Eco-SSL Invertebrate Se	mg/kg	120	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Invertebrates	SL	No Effect	
Inorganics	Inorganics & Metals	Arsenic	7440382	Soil	Eco-SSL Mammal Scree	mg/kg	46	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Arsenic. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	
Inorganics	Inorganics & Metals	Barium	7440393	Soil	Eco-SSL Mammal Scree	mg/kg	2000	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Barium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. February 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	
Organics	VOCs	Benzene	71432	Soil	Eco-SSL Mammal Scree	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Soil	Eco-SSL Mammal Scree	mg/kg	21	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Inorganics	Inorganics & Metals	Cadmium	7440439	Soil	Eco-SSL Mammal Scree	mg/kg	0.36	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Cadmium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	
Inorganics	Inorganics & Metals	Chromium	16065831	Soil	Eco-SSL Mammal Scree	mg/kg	34	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	III
Inorganics	Inorganics & Metals	Chromium	18540299	Soil	Eco-SSL Mammal Scree	mg/kg	130	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	VI
Inorganics	Inorganics & Metals	Chromium	7440473	Soil	Eco-SSL Mammal Scree	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	NA	NA	Total
Inorganics	Inorganics & Metals	Cobalt	7440484	Soil	Eco-SSL Mammal Scree	mg/kg	230	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	
Inorganics	Inorganics & Metals	Copper	7440508	Soil	Eco-SSL Mammal Scree	mg/kg	49	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	
Organics	VOCs	Ethylbenzene	100414	Soil	Eco-SSL Mammal Scree	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	NA	NA	
Inorganics	Inorganics & Metals	Lead	7439921	Soil	Eco-SSL Mammal Scree	mg/kg	56	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Lead. Interim Final. Office of Solid Waste and Emergency Response. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	
Inorganics	Inorganics & Metals	Mercury	7439976	Soil	Eco-SSL Mammal Scree	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	NA	NA	
Inorganics	Inorganics & Metals	Nickel	7440020	Soil	Eco-SSL Mammal Scree	mg/kg	130	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	
Organics	SVOCs	PAHs HMW	34	Soil	Eco-SSL Mammal Scree	mg/kg	1.1	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)
Organics	SVOCs	PAHs LMW	33	Soil	Eco-SSL Mammal Scree	mg/kg	100	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)
Inorganics	Inorganics & Metals	Selenium	7782492	Soil	Eco-SSL Mammal Scree	mg/kg	0.63	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Selenium. Interim Final. Office of Solid Waste and Emergency Response. July 2007. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	
Inorganics	Inorganics & Metals	Silver	7440224	Soil	Eco-SSL Mammal Scree	mg/kg	14	United States Environmental Protection Agency (USEPA). 2006. Ecological Soil Screening Levels for Silver. Interim Final. Office of Solid Waste and Emergency Response. September 2006. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	
Inorganics	Inorganics & Metals	Vanadium	VA	Soil	Eco-SSL Mammal Scree	mg/kg	280	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	
Organics	VOCs	Xylene	1330207	Soil	Eco-SSL Mammal Scree	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	NA	NA	Xylene, Total
Inorganics	Inorganics & Metals	Zinc	7440666	Soil	Eco-SSL Mammal Scree	mg/kg	79	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Mammals	SL	No Effect	
Inorganics	Inorganics & Metals	Arsenic	7440382	Soil	Eco-SSL Plant Screenin	mg/kg	18	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Arsenic. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	SL	No Effect	
Inorganics	Inorganics & Metals	Barium	7440393	Soil	Eco-SSL Plant Screenin	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Barium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. February 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	
Organics	VOCs	Benzene	71432	Soil	Eco-SSL Plant Screenin	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Soil	Eco-SSL Plant Screenin	mg/kg	NV	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Soil	Eco-SSL Plant Screenin	mg/kg	32	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Cadmium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	SL	No Effect	
Inorganics	Inorganics & Metals	Chromium	16065831	Soil	Eco-SSL Plant Screenin	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	III
Inorganics	Inorganics & Metals	Chromium	18540299	Soil	Eco-SSL Plant Screenin	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	VI
Inorganics	Inorganics & Metals	Chromium	7440473	Soil	Eco-SSL Plant Screenin	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	Total
Inorganics	Inorganics & Metals	Cobalt	7440484	Soil	Eco-SSL Plant Screenin	mg/kg	13	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	SL	No Effect	
Inorganics	Inorganics & Metals	Copper	7440508	Soil	Eco-SSL Plant Screenin	mg/kg	70	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	SL	No Effect	
Organics	VOCs	Ethylbenzene	100414	Soil	Eco-SSL Plant Screenin	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Lead	7439921	Soil	Eco-SSL Plant Screenin	mg/kg	120	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Lead. Interim Final. Office of Solid Waste and Emergency Response. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	SL	No Effect	
Inorganics	Inorganics & Metals	Mercury	7439976	Soil	Eco-SSL Plant Screenin	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Nickel	7440020	Soil	Eco-SSL Plant Screenin	mg/kg	38	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	SL	No Effect	
Organics	SVOCs	PAHs HMW	34	Soil	Eco-SSL Plant Screenin	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	SVOCs	PAHs LMW	33	Soil	Eco-SSL Plant Screenin	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)
Inorganics	Inorganics & Metals	Selenium	7782492	Soil	Eco-SSL Plant Screenin	mg/kg	0.52	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Selenium. Interim Final. Office of Solid Waste and Emergency Response. July 2007. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	SL	No Effect	
Inorganics	Inorganics & Metals	Silver	7440224	Soil	Eco-SSL Plant Screenin	mg/kg	560	United States Environmental Protection Agency (USEPA). 2006. Ecological Soil Screening Levels for Silver. Interim Final. Office of Solid Waste and Emergency Response. September 2006. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	SL	No Effect	
Inorganics	Inorganics & Metals	Tin	7440315	Soil	Eco-SSL Plant Screenin	mg/kg	NV	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	
Organics	VOCs	Toluene	108883	Soil	Eco-SSL Plant Screenin	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Vanadium	VA	Soil	Eco-SSL Plant Screenin	mg/kg		United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Vanadium	VA	Soil	Eco-SSL Plant Screenin	mg/kg	NV	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	Vanadium Pentoxide
Inorganics	Inorganics & Metals	Vanadium	VA	Soil	Eco-SSL Plant Screenin	mg/kg	NV	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	Vanadium, Metallic
Organics	VOCs	Xylene	1330207	Soil	Eco-SSL Plant Screenin	mg/kg	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	NA	NA	Xylene, Total
Inorganics	Inorganics & Metals	Zinc	7440666	Soil	Eco-SSL Plant Screenin	mg/kg	160	United States Environmental Protection Agency (USEPA), 2007, Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Terrestrial Plants	SL	No Effect	
Organics	SVOCs	1-Methylnaphthalene	90120	Soil	Minimum RAIS Soil SL	mg/kg	NV	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	NA	NA	
Organics	SVOCs	2-Methylnaphthalene	91576	Soil	Minimum RAIS Soil SL	mg/kg	3.24	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effects	
Organics	SVOCs	Acenaphthene	83329	Soil	Minimum RAIS Soil SL	mg/kg	20	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	SVOCs	Acenaphthylene	208968	Soil	Minimum RAIS Soil SL	mg/kg	682	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	SVOCs	Anthracene	120127	Soil	Minimum RAIS Soil SL	mg/kg	0.1	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Inorganics	Inorganics & Metals	Arsenic	7440382	Soil	Minimum RAIS Soil SL	mg/kg	5.7	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Inorganics	Inorganics & Metals	Barium	7440393	Soil	Minimum RAIS Soil SL	mg/kg	1.04	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	VOCs	Benzene	71432	Soil	Minimum RAIS Soil SL	mg/kg	0.05	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	SVOCs	Benzo(a)anthracene	56553	Soil	Minimum RAIS Soil SL	mg/kg	5.21	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	SVOCs	Benzo(a)pyrene	50328	Soil	Minimum RAIS Soil SL	mg/kg	0.1	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	SVOCs	Benzo(b)fluoranthene	205992	Soil	Minimum RAIS Soil SL	mg/kg	59.8	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Soil	Minimum RAIS Soil SL	mg/kg	119	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	SVOCs	Benzo(k)fluoranthene	207089	Soil	Minimum RAIS Soil SL	mg/kg	148	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	SVOCs	Benzofluoranthenes, to	40	Soil	Minimum RAIS Soil SL	mg/kg	NV	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Soil	Minimum RAIS Soil SL	mg/kg	0.00222	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Inorganics	Inorganics & Metals	Cadmium	7440439	Soil	Minimum RAIS Soil SL	mg/kg	NV	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	NA	NA	
Inorganics	Inorganics & Metals	Chromium	16065831	Soil	Minimum RAIS Soil SL	mg/kg	NV	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	NA	NA	
Inorganics	Inorganics & Metals	Chromium	16065831	Soil	Minimum RAIS Soil SL	mg/kg	26	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Inorganics	Inorganics & Metals	Chromium	18540299	Soil	Minimum RAIS Soil SL	mg/kg	0.4	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	Chromium(VI)
Inorganics	Inorganics & Metals	Chromium	7440473	Soil	Minimum RAIS Soil SL	mg/kg	0.4	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	Chromium, Total
Organics	SVOCs	Chrysene	218019	Soil	Minimum RAIS Soil SL	mg/kg	4.73	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Soil	Minimum RAIS Soil SL	mg/kg	18.4	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effects	
Organics	VOCs	Ethylbenzene	100414	Soil	Minimum RAIS Soil SL	mg/kg	0.05	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	SVOCs	Fluoranthene	206440	Soil	Minimum RAIS Soil SL	mg/kg	0.1	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	SVOCs	Fluorene	86737	Soil	Minimum RAIS Soil SL	mg/kg	30	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Soil	Minimum RAIS Soil SL	mg/kg	109	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effects	
Inorganics	Inorganics & Metals	Lead	7439921	Soil	Minimum RAIS Soil SL	mg/kg	0.0537	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Inorganics	Inorganics & Metals	Mercury	7439976	Soil	Minimum RAIS Soil SL	mg/kg	0.1	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	SVOCs	Naphthalene	91203	Soil	Minimum RAIS Soil SL	mg/kg	0.0994	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	SVOCs	PAHs	41	Soil	Minimum RAIS Soil SL	mg/kg	1	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	Polycyclic aromatic hydrocarbons (PAH), Total
Organics	SVOCs	PAHs HMW	34	Soil	Minimum RAIS Soil SL	mg/kg	1.1	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)
Organics	SVOCs	PAHs LMW	33	Soil	Minimum RAIS Soil SL	mg/kg	29	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)
Organics	PCBs & Dioxins	PCBs	1336363	Soil	Minimum RAIS Soil SL	mg/kg	0.000332	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	PCBs & Dioxins	PCBs	1336363	Soil	Minimum RAIS Soil SL	mg/kg	NV	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	NA	NA	
Organics	SVOCs	Phenanthrene	85018	Soil	Minimum RAIS Soil SL	mg/kg	0.1	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effects	
Organics	SVOCs	Pyrene	129000	Soil	Minimum RAIS Soil SL	mg/kg	0.1	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Inorganics	Inorganics & Metals	Selenium	7782492	Soil	Minimum RAIS Soil SL	mg/kg	0.0276	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Inorganics	Inorganics & Metals	Silver	7440224	Soil	Minimum RAIS Soil SL	mg/kg	2	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Soil	Minimum RAIS Soil SL	mg/kg	1.99E-07	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	VOCs	Toluene	108883	Soil	Minimum RAIS Soil SL	mg/kg	0.05	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	VOCs	Xylene	1330207	Soil	Minimum RAIS Soil SL	mg/kg	0.05	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	SL	No Effect	
Organics	VOCs	Xylene	108383	Soil	Minimum RAIS Soil SL	mg/kg	NV	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Terrestrial Life	NA	NA	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Inorganics	Inorganics & Metals	Arsenic	7440382	Soil	ORNL Invertebrate TBV	mg/kg	60	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	SL	EW LOEC10	
Inorganics	Inorganics & Metals	Barium	7440393	Soil	ORNL Invertebrate TBV	mg/kg	3000	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	SL	SM LOEC10	
Organics	VOCs	Benzene	71432	Soil	ORNL Invertebrate TBV	mg/kg	NV	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Soil	ORNL Invertebrate TBV	mg/kg	NV	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Soil	ORNL Invertebrate TBV	mg/kg	20	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	SL	EW, SM LOEC10	
Inorganics	Inorganics & Metals	Chromium	7440473	Soil	ORNL Invertebrate TBV	mg/kg	0.4	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	SL	EW LOEC10	
Inorganics	Inorganics & Metals	Cobalt	7440484	Soil	ORNL Invertebrate TBV	mg/kg	1000	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	SL	SM LOEC10	
Inorganics	Inorganics & Metals	Copper	7440508	Soil	ORNL Invertebrate TBV	mg/kg	50	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	SL	EW LOEC10	
Organics	VOCs	Ethylbenzene	100414	Soil	ORNL Invertebrate TBV	mg/kg	NV	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Organics	SVOCs	Fluorene	86737	Soil	ORNL Invertebrate TBV	mg/kg	30	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	SL	EW LOEC10	
Inorganics	Inorganics & Metals	Lead	7439921	Soil	ORNL Invertebrate TBV	mg/kg	500	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	SL	EW LOEC10	
Inorganics	Inorganics & Metals	Mercury	7439976	Soil	ORNL Invertebrate TBV	mg/kg	0.1	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	SL	EW LOEC10	
Inorganics	Inorganics & Metals	Nickel	7440020	Soil	ORNL Invertebrate TBV	mg/kg	90	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	SL	SM LOEC10	
Inorganics	Inorganics & Metals	Selenium	7782492	Soil	ORNL Invertebrate TBV	mg/kg	70	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	SL	EW LOEC10	
Inorganics	Inorganics & Metals	Silver	7440224	Soil	ORNL Invertebrate TBV	mg/kg	50	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	SL	SM LOEC10	
Inorganics	Inorganics & Metals	Tin	7440315	Soil	ORNL Invertebrate TBV	mg/kg	2000	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	SL	SM LOEC10	
Organics	VOCs	Toluene	108883	Soil	ORNL Invertebrate TBV	mg/kg	NV	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Vanadium	VA	Soil	ORNL Invertebrate TBV	mg/kg	20	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	SL	SM LOEC10	
Organics	VOCs	Xylene	1330207	Soil	ORNL Invertebrate TBV	mg/kg	NV	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Zinc	7440666	Soil	ORNL Invertebrate TBV	mg/kg	100	Efroymson, R.A., M.E. Will, G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Processes: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-126/R2. November 1997.	ORNL	Terrestrial Invertebrates	SL	SM LOEC10	
Organics	SVOCs	1-Methylnaphthalene	90120	Soil	ORNL Plant TBVs	mg/kg	NV	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	NA	NA	
Organics	SVOCs	2-Methylnaphthalene	91576	Soil	ORNL Plant TBVs	mg/kg	NV	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	NA	NA	
Organics	SVOCs	Acenaphthene	83329	Soil	ORNL Plant TBVs	mg/kg	20	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Inorganics	Inorganics & Metals	Arsenic	7440382	Soil	ORNL Plant TBVs	mg/kg	10	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Inorganics	Inorganics & Metals	Barium	7440393	Soil	ORNL Plant TBVs	mg/kg	500	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Organics	VOCs	Benzene	71432	Soil	ORNL Plant TBVs	mg/kg	NV	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Soil	ORNL Plant TBVs	mg/kg	10	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Inorganics	Inorganics & Metals	Cadmium	7440439	Soil	ORNL Plant TBVs	mg/kg	4	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Inorganics	Inorganics & Metals	Chromium	7440473	Soil	ORNL Plant TBVs	mg/kg	1	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Inorganics	Inorganics & Metals	Cobalt	7440484	Soil	ORNL Plant TBVs	mg/kg	20	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Inorganics	Inorganics & Metals	Copper	7440508	Soil	ORNL Plant TBVs	mg/kg	100	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Organics	VOCs	Ethylbenzene	100414	Soil	ORNL Plant TBVs	mg/kg	NV	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Lead	7439921	Soil	ORNL Plant TBVs	mg/kg	50	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Inorganics	Inorganics & Metals	Mercury	7439976	Soil	ORNL Plant TBVs	mg/kg	0.3	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Inorganics	Inorganics & Metals	Nickel	7440020	Soil	ORNL Plant TBVs	mg/kg	30	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Organics	PCBs & Dioxins	PCBs	1336363	Soil	ORNL Plant TBVs	mg/kg	40	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Inorganics	Inorganics & Metals	Selenium	7782492	Soil	ORNL Plant TBVs	mg/kg	1	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Inorganics	Inorganics & Metals	Silver	7440224	Soil	ORNL Plant TBVs	mg/kg	2	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Inorganics	Inorganics & Metals	Tin	7440315	Soil	ORNL Plant TBVs	mg/kg	50	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Organics	VOCs	Toluene	108883	Soil	ORNL Plant TBVs	mg/kg	200	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Inorganics	Inorganics & Metals	Vanadium	VA	Soil	ORNL Plant TBVs	mg/kg	2	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Organics	VOCs	Xylene	1330207	Soil	ORNL Plant TBVs	mg/kg	NV	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Zinc	7440666	Soil	ORNL Plant TBVs	mg/kg	50	Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997. Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, N.ES/ER/TM-85/R3. November 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Organics	SVOCs	1-Methylnaphthalene	90120	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	
Organics	SVOCs	2-Methylnaphthalene	91576	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Arsenic	7440382	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Barium	7440393	Soil	ORNL PRGs: Birds	mg/kg	283	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	SL	No Effect	
Organics	VOCs	Benzene	71432	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Soil	ORNL PRGs: Birds	mg/kg	4	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	SL	No Effect	
Inorganics	Inorganics & Metals	Chromium	7440473	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL; Cr tota	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Cobalt	7440484	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	Total
Inorganics	Inorganics & Metals	Copper	7440508	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	
Organics	VOCs	Ethylbenzene	100414	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Lead	7439921	Soil	ORNL PRGs: Birds	mg/kg	40.5	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	SL	No Effect	
Inorganics	Inorganics & Metals	Mercury	7439976	Soil	ORNL PRGs: Birds	mg/kg	0.00051	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	SL	No Effect	
Inorganics	Inorganics & Metals	Nickel	7440020	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	
Organics	PCBs & Dioxins	PCBs	1336363	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Selenium	7782492	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Silver	7440224	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	
Organics	PCBs & Dioxins	TCDF	51207319	Soil	ORNL PRGs: Birds	mg/kg	0.00084	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	SL	No Effect	
Inorganics	Inorganics & Metals	Tin	7440315	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones, 1997, Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Terrestrial Birds	NA	NA	
Organics	VOCs	Toluene	108883	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Vanadium	VA	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	VOCs	Xylene	1330207	Soil	ORNL PRGs: Birds	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	NA	NA	
Inorganics	Inorganics & Metals	Zinc	7440666	Soil	ORNL PRGs: Birds	mg/kg	8.5	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Birds	SL	No Effect	
Organics	SVOCs	1-Methylnaphthalene	90120	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Organics	SVOCs	2-Methylnaphthalene	91576	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Organics	VOCs	Benzene	71432	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Organics	VOCs	Ethylbenzene	100414	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Arsenic	7440382	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Barium	7440393	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Chromium	7440473	Soil	ORNL PRGs: Invertebra	mg/kg	0.4	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL; Cr tota	Terrestrial Invertebrates	SL	No Effect	
Inorganics	Inorganics & Metals	Cobalt	7440484	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	Total
Inorganics	Inorganics & Metals	Copper	7440508	Soil	ORNL PRGs: Invertebra	mg/kg	60	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	SL	No Effect	
Inorganics	Inorganics & Metals	Lead	7439921	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Mercury	7439976	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Nickel	7440020	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Organics	PCBs & Dioxins	PCBs	1336363	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Selenium	7782492	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Silver	7440224	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Organics	PCBs & Dioxins	TCDF	51207319	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Tin	7440315	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones, 1997, Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Terrestrial Invertebrates	NA	NA	
Organics	VOCs	Toluene	108883	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Vanadium	VA	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Organics	VOCs	Xylene	1330207	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Inorganics	Inorganics & Metals	Zinc	7440666	Soil	ORNL PRGs: Invertebra	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Invertebrates	NA	NA	
Organics	SVOCs	1-Methylnaphthalene	90120	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	2-Methylnaphthalene	91576	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	
Inorganics	Inorganics & Metals	Arsenic	7440382	Soil	ORNL PRGs: Mammals	mg/kg	9.9	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	SL	No Effect	
Inorganics	Inorganics & Metals	Barium	7440393	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	
Organics	VOCs	Benzene	71432	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	
Inorganics	Inorganics & Metals	Chromium	7440473	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL; Cr tota	Terrestrial Mammals	NA	NA	Total
Inorganics	Inorganics & Metals	Cobalt	7440484	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	
Inorganics	Inorganics & Metals	Copper	7440508	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	
Organics	VOCs	Ethylbenzene	100414	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	
Inorganics	Inorganics & Metals	Lead	7439921	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	
Inorganics	Inorganics & Metals	Mercury	7439976	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	
Inorganics	Inorganics & Metals	Nickel	7440020	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	
Organics	PCBs & Dioxins	PCBs	1336363	Soil	ORNL PRGs: Mammals	mg/kg	0.371	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	SL	No Effect	
Inorganics	Inorganics & Metals	Selenium	7782492	Soil	ORNL PRGs: Mammals	mg/kg	0.21	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	SL	No Effect	
Inorganics	Inorganics & Metals	Silver	7440224	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Soil	ORNL PRGs: Mammals	mg/kg	0.00000315	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	SL	No Effect	
Organics	PCBs & Dioxins	TCDF	51207319	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	
Inorganics	Inorganics & Metals	Tin	7440315	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones, 1997, Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Terrestrial Mammals	NA	NA	
Organics	VOCs	Toluene	108883	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	
Inorganics	Inorganics & Metals	Vanadium	VA	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	Vanadium
Organics	VOCs	Xylene	1330207	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	Xylene, Total
Inorganics	Inorganics & Metals	Zinc	7440666	Soil	ORNL PRGs: Mammals	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Mammals	NA	NA	
Organics	SVOCs	1-Methylnaphthalene	90120	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	NA	NA	
Organics	SVOCs	2-Methylnaphthalene	91576	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	NA	NA	
Organics	SVOCs	Acenaphthene	83329	Soil	ORNL PRGs: Plants	mg/kg	20	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	SL	LOEC10	
Organics	SVOCs	Acenaphthylene	208968	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Arsenic	7440382	Soil	ORNL PRGs: Plants	mg/kg	9.9	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	SL	No Effect	
Inorganics	Inorganics & Metals	Barium	7440393	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	NA	NA	
Organics	VOCs	Benzene	71432	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Soil	ORNL PRGs: Plants	mg/kg	10	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	SL	No Effect	
Inorganics	Inorganics & Metals	Cadmium	7440439	Soil	ORNL PRGs: Plants	mg/kg	4	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	SL	No Effect	
Inorganics	Inorganics & Metals	Chromium	7440473	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL; Cr total	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Cobalt	7440484	Soil	ORNL PRGs: Plants	mg/kg	20	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	SL	No Effect	
Inorganics	Inorganics & Metals	Copper	7440508	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	NA	NA	
Organics	VOCs	Ethylbenzene	100414	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Lead	7439921	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Mercury	7439976	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Nickel	7440020	Soil	ORNL PRGs: Plants	mg/kg	30	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	SL	No Effect	
Organics	PCBs & Dioxins	PCBs	1336363	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Selenium	7782492	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Silver	7440224	Soil	ORNL PRGs: Plants	mg/kg	2	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	SL	No Effect	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	NA	NA	
Organics	PCBs & Dioxins	TCDF	51207319	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	NA	NA	
Inorganics	Inorganics & Metals	Tin	7440315	Soil	ORNL PRGs: Plants	mg/kg	50	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones, 1997, Preliminary Remediation Goals for Ecological Endpoints. ES/ER/TM-162/R2. Oak Ridge National Laboratory, Oak Ridge, TN.	ORNL	Terrestrial Plants	SL	No Effect	
Organics	VOCs	Toluene	108883	Soil	ORNL PRGs: plants	mg/kg	200	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	SL	No Effect	Xylene, Total
Inorganics	Inorganics & Metals	Vanadium	VA	Soil	ORNL PRGs: Plants	mg/kg	2	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	SL	No Effect	
Organics	VOCs	Xylene	1330207	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	NA	NA	Total
Inorganics	Inorganics & Metals	Zinc	7440666	Soil	ORNL PRGs: Plants	mg/kg	NV	Efroymson, R.A., G.W. Suter II, B.E. Sample and D.S. Jones. 1997. Preliminary Remediation Goals for Ecological Endpoints. Oak Ridge National Laboratory, Oak Ridge, TN.ES/ER/TM-162/R2. August 1997.	ORNL	Terrestrial Plants	NA	NA	
Organics	SVOCs	1-Methylnaphthalene	90120	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	2-Methylnaphthalene	91576	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Acenaphthene	83329	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Acenaphthylene	208968	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Anthracene	120127	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Arsenic	7440382	Surface Wate	EPA CCC Freshwater	mg/L	0.15	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	SL	Chronic	
Organics	Inorganics & Metals	Barium	7440393	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Benzene	71432	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(a)anthracene	56553	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(a)pyrene	50328	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	SVOCs	Benzo(b)fluoranthene	205992	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(k)fluoranthene	207089	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzofluoranthenes, to	40	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Surface Wate	EPA CCC Freshwater	mg/L	0.00015189	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	SL	Chronic HD	
Inorganics	Inorganics & Metals	Chromium	7440473	Surface Wate	EPA CCC Freshwater	mg/L	0.04201068	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	SL	Chronic HD	III
Inorganics	Inorganics & Metals	Chromium	18540299	Surface Wate	EPA CCC Freshwater	mg/L	0.011	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	SL	Chronic	VI
Organics	SVOCs	Chrysene	218019	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Cobalt	7440484	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Copper	7440508	Surface Wate	EPA CCC Freshwater	mg/L	0.00495304	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	SL	Chronic HD	
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Ethylbenzene	100414	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Fluoranthene	206440	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Fluorene	86737	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Lead	7439921	Surface Wate	EPA CCC Freshwater	mg/L	0.00117435	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	SL	Chronic HD	
Inorganics	Inorganics & Metals	Mercury	7439976	Surface Wate	EPA CCC Freshwater	mg/L	0.00077	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	SL	Chronic	Total
Inorganics	Inorganics & Metals	Mercury	22967926	Surface Wate	EPA CCC Freshwater	mg/L	0.00077	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	SL	Chronic	Methyl
Organics	SVOCs	Naphthalene	91203	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Nickel	7440020	Surface Wate	EPA CCC Freshwater	mg/L	0.02893254	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	SL	Chronic HD	
Organics	SVOCs	PAHs	41	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	Total
Organics	SVOCs	PAHs HMW	34	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)
Organics	SVOCs	PAHs LMW	33	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)
Organics	PCBs & Dioxins	PCBs	1336363	Surface Wate	EPA CCC Freshwater	mg/L	0.000014	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	SL	Chronic	Total
Organics	SVOCs	Phenanthrene	85018	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Pyrene	129000	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Selenium	7782492	Surface Wate	EPA CCC Freshwater	mg/L	0.00461	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	SL	No Effect	
Inorganics	Inorganics & Metals	Silver	7440224	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Toluene	108883	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Vanadium	VA	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Xylene	1330207	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	Total
Organics	VOCs	Xylene	108383	Surface Wate	EPA CCC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	Xylene, m-
Inorganics	Inorganics & Metals	Zinc	7440666	Surface Wate	EPA CCC Freshwater	mg/L	0.06566448	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	SL	Chronic HD	
Organics	SVOCs	1-Methylnaphthalene	90120	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	2-Methylnaphthalene	91576	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	AWQC Chron	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Acenaphthene	83329	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	SVOCs	Acenaphthylene	208968	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Anthracene	120127	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Arsenic	7440382	Surface Wate	EPA CMC Freshwater	mg/L	0.34	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	SL	Acute	
Organics	Inorganics & Metals	Barium	7440393	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Benzene	71432	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(a)anthracene	56553	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(a)pyrene	50328	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(b)fluoranthene	205992	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(k)fluoranthene	207089	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzofluoranthenes, to	40	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Surface Wate	EPA CMC Freshwater	mg/L	0.00102592	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	SL	Acute HD	
Inorganics	Inorganics & Metals	Chromium	7440473	Surface Wate	EPA CMC Freshwater	mg/L	0.32296171	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	SL	Acute HD	III
Inorganics	Inorganics & Metals	Chromium	18540299	Surface Wate	EPA CMC Freshwater	mg/L	16	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	SL	Acute	VI
Organics	SVOCs	Chrysene	218019	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Cobalt	7440484	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Copper	7440508	Surface Wate	EPA CMC Freshwater	mg/L	0.00699423	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	SL	Acute HD	
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Ethylbenzene	100414	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Fluoranthene	206440	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Fluorene	86737	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Lead	7439921	Surface Wate	EPA CMC Freshwater	mg/L	0.03013591	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	SL	Acute HD	
Inorganics	Inorganics & Metals	Mercury	7439976	Surface Wate	EPA CMC Freshwater	mg/L	0.0014	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	SL	No Effect	Total
Organics	SVOCs	Naphthalene	91203	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Nickel	7440020	Surface Wate	EPA CMC Freshwater	mg/L	0.2604913	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	SL	Acute HD	
Organics	SVOCs	PAHs	41	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	PAHs HMW	34	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	PAHs LMW	33	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	PCBs & Dioxins	PCBs	1336363	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	PCBs & Dioxins	PCBs	1336363	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Phenanthrene	85018	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Pyrene	129000	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Selenium	7782492	Surface Wate	EPA CMC Freshwater	mg/L	0.02388995	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	SL	Acute	0.5 selenate, 0.5 selenite, dissolved
Inorganics	Inorganics & Metals	Silver	7440224	Surface Wate	EPA CMC Freshwater	mg/L	0.00097644	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	SL	Acute HD	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Toluene	108883	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Vanadium	VA	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Xylene	1330207	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	Total
Organics	VOCs	Xylene	1330207	Surface Wate	EPA CMC Freshwater	mg/L	NV	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	NA	NA	Xylene, m-
Inorganics	Inorganics & Metals	Zinc	7440666	Surface Wate	EPA CMC Freshwater	mg/L	0.06513171	EPA, 2011. National Recommended Water Quality Criteria. http://water.epa.gov/scitech/swguidance/standards/current/index.cfm#appendxb. November 6, 2011.	NAWQC Acute	Freshwater Aquatic Life	SL	Acute HD	
Organics	SVOCs	1-Methylnaphthalene	90120	Surface Wate	Minimum RAIS SW SL	mg/L	0.0021	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	SVOCs	2-Methylnaphthalene	91576	Surface Wate	Minimum RAIS SW SL	mg/L	0.0047	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	Acenaphthene	83329	Surface Wate	Minimum RAIS SW SL	mg/L	0.0058	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	Acenaphthylene	208968	Surface Wate	Minimum RAIS SW SL	mg/L	4.84	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	Anthracene	120127	Surface Wate	Minimum RAIS SW SL	mg/L	0.000012	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Arsenic	7440382	Surface Wate	Minimum RAIS SW SL	mg/L	0.005	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Barium	7440393	Surface Wate	Minimum RAIS SW SL	mg/L	0.0039	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	VOCs	Benzene	71432	Surface Wate	Minimum RAIS SW SL	mg/L	0.021	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	Benzo(a)anthracene	56553	Surface Wate	Minimum RAIS SW SL	mg/L	0.000018	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	Benzo(a)pyrene	50328	Surface Wate	Minimum RAIS SW SL	mg/L	0.000014	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	Benzo(b)fluoranthene	205992	Surface Wate	Minimum RAIS SW SL	mg/L	0.00907	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Surface Wate	Minimum RAIS SW SL	mg/L	0.00764	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	Benzo(k)fluoranthene	207089	Surface Wate	Minimum RAIS SW SL	mg/L	NV	Use benzo(b)fluoranthene (BBFANT) as surrogate; no value on RAIS	RAIS	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzofluoranthenes, to	40	Surface Wate	Minimum RAIS SW SL	mg/L	NV	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Surface Wate	Minimum RAIS SW SL	mg/L	0.000013	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Cadmium	7440439	Surface Wate	Minimum RAIS SW SL	mg/L	0.00025	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Chromium	16065831	Surface Wate	Minimum RAIS SW SL	mg/L	0.074	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	Chromium (soluble particulates)
Inorganics	Inorganics & Metals	Chromium	16065831	Surface Wate	Minimum RAIS SW SL	mg/L	0.11732	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	Chromium (insoluble salts)
Inorganics	Inorganics & Metals	Chromium	18540299	Surface Wate	Minimum RAIS SW SL	mg/L	0.000266	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	Chromium(VI)
Inorganics	Inorganics & Metals	Chromium	7440473	Surface Wate	Minimum RAIS SW SL	mg/L	0.00844	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	Chromium, Total
Organics	SVOCs	Chrysene	218019	Surface Wate	Minimum RAIS SW SL	mg/L	0.007	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Surface Wate	Minimum RAIS SW SL	mg/L	0.005	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	VOCs	Ethylbenzene	100414	Surface Wate	Minimum RAIS SW SL	mg/L	0.0073	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	Fluoranthene	206440	Surface Wate	Minimum RAIS SW SL	mg/L	0.00004	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	Fluorene	86737	Surface Wate	Minimum RAIS SW SL	mg/L	0.003	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Surface Wate	Minimum RAIS SW SL	mg/L	0.00431	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Lead	7439921	Surface Wate	Minimum RAIS SW SL	mg/L	0.00035	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Mercury	7439976	Surface Wate	Minimum RAIS SW SL	mg/L	0.0000013	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	Naphthalene	91203	Surface Wate	Minimum RAIS SW SL	mg/L	0.0011	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	PAHs	41	Surface Wate	Minimum RAIS SW SL	mg/L	NV	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	PAHs HMW	34	Surface Wate	Minimum RAIS SW SL	mg/L	NV	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	PAHs LMW	33	Surface Wate	Minimum RAIS SW SL	mg/L	NV	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	NA	NA	
Organics	PCBs & Dioxins	PCBs	1336363	Surface Wate	Minimum RAIS SW SL	mg/L	0.00000012	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	PCBs & Dioxins	PCBs	1336363	Surface Wate	Minimum RAIS SW SL	mg/L	7.4E-08	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	Phenanthrene	85018	Surface Wate	Minimum RAIS SW SL	mg/L	0.0004	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	Pyrene
Organics	SVOCs	Pyrene	129000	Surface Wate	Minimum RAIS SW SL	mg/L	0.000025	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Selenium	7782492	Surface Wate	Minimum RAIS SW SL	mg/L	0.001	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Inorganics	Inorganics & Metals	Silver	7440224	Surface Wate	Minimum RAIS SW SL	mg/L	0.000012	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Surface Wate	Minimum RAIS SW SL	mg/L	3E-12	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	VOCs	Toluene	108883	Surface Wate	Minimum RAIS SW SL	mg/L	0.002	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	VOCs	Xylene	1330207	Surface Wate	Minimum RAIS SW SL	mg/L	0.013	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	VOCs	Xylene	108383	Surface Wate	Minimum RAIS SW SL	mg/L	0.0018	RAIS. 2011. Ecological Benchmark Tool. http://rais.ornl.gov/tools/eco_search.php	RAIS	Freshwater Aquatic Life	SL	No Effects	
Organics	SVOCs	1-Methylnaphthalene	90120	Surface Wate	NOAA Acute	mg/L	0.037	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Freshwater Aquatic Life	SL	Acute	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	SVOCs	2-Methylnaphthalene	91576	Surface Wate	NOAA Acute	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Acenaphthene	83329	Surface Wate	NOAA Acute	mg/L	0.17	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute LOEL/10	
Organics	SVOCs	Acenaphthylene	208968	Surface Wate	NOAA Acute	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Anthracene	120127	Surface Wate	NOAA Acute	mg/L	0.013	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Inorganics	Inorganics & Metals	Arsenic	7440382	Surface Wate	NOAA Acute	mg/L	0.066	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Inorganics	Inorganics & Metals	Arsenic	7440382	Surface Wate	NOAA Acute	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Arsenic	7440382	Surface Wate	NOAA Acute	mg/L	0.34	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Organics	Inorganics & Metals	Barium	7440393	Surface Wate	NOAA Acute	mg/L	0.11	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Organics	VOCs	Benzene	71432	Surface Wate	NOAA Acute	mg/L	2.3	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Organics	SVOCs	Benzo(a)anthracene	56553	Surface Wate	NOAA Acute	mg/L	0.00049	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Organics	SVOCs	Benzo(a)pyrene	50328	Surface Wate	NOAA Acute	mg/L	0.00024	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Organics	SVOCs	Benzo(b)fluoranthene	205992	Surface Wate	NOAA Acute	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Surface Wate	NOAA Acute	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(k)fluoranthene	207089	Surface Wate	NOAA Acute	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzofluoranthenes, to	40	Surface Wate	NOAA Acute	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Surface Wate	NOAA Acute	mg/L	0.035	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Inorganics	Inorganics & Metals	Cadmium	7440439	Surface Wate	NOAA Acute	mg/L	0.00102592	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute HD	
Inorganics	Inorganics & Metals	Chromium	7440473	Surface Wate	NOAA Acute	mg/L	0.32296171	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute HD	
Inorganics	Inorganics & Metals	Chromium	18540299	Surface Wate	NOAA Acute	mg/L	0.016	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Organics	SVOCs	Chrysene	218019	Surface Wate	NOAA Acute	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Cobalt	7440484	Surface Wate	NOAA Acute	mg/L	1.5	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Inorganics	Inorganics & Metals	Copper	7440508	Surface Wate	NOAA Acute	mg/L	0.00699423	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute HD	
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Surface Wate	NOAA Acute	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Ethylbenzene	100414	Surface Wate	NOAA Acute	mg/L	0.13	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Organics	SVOCs	Fluoranthene	206440	Surface Wate	NOAA Acute	mg/L	0.398	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute LOEL/10	
Organics	SVOCs	Fluorene	86737	Surface Wate	NOAA Acute	mg/L	0.07	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Surface Wate	NOAA Acute	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Lead	7439921	Surface Wate	NOAA Acute	mg/L	0.03013591	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute HD	
Inorganics	Inorganics & Metals	Mercury	7439976	Surface Wate	NOAA Acute	mg/L	0.0014	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Inorganics	Inorganics & Metals	Mercury	22967926	Surface Wate	NOAA Acute	mg/L	0.000099	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Organics	SVOCs	Naphthalene	91203	Surface Wate	NOAA Acute	mg/L	0.19	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Inorganics	Inorganics & Metals	Nickel	7440020	Surface Wate	NOAA Acute	mg/L	0.2604913	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute HD	
Organics	SVOCs	PAHs	41	Surface Wate	NOAA Acute	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	PAHs HMW	34	Surface Wate	NOAA Acute	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	PAHs LMW	33	Surface Wate	NOAA Acute	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	NA	NA	
Organics	PCBs & Dioxins	PCBs	1336363	Surface Wate	NOAA Acute	mg/L	0.0006	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Organics	SVOCs	Phenanthrene	85018	Surface Wate	NOAA Acute	mg/L	0.03	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Organics	SVOCs	Pyrene	129000	Surface Wate	NOAA Acute	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Selenium	7782492	Surface Wate	NOAA Acute	mg/L	0.012948	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute dissolved	
Inorganics	Inorganics & Metals	Silver	7440224	Surface Wate	NOAA Acute	mg/L	0.00048822	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute HD	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Surface Wate	NOAA Acute	mg/L	0.000001	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute LOEL/10	
Organics	VOCs	Toluene	108883	Surface Wate	NOAA Acute	mg/L	0.12	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Inorganics	Inorganics & Metals	Vanadium	VA	Surface Wate	NOAA Acute	mg/L	0.28	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	NA	NA	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	VOCs	Xylene	1330207	Surface Wate	NOAA Acute	mg/L	0.23	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Organics	VOCs	Xylene	1330207	Surface Wate	NOAA Acute	mg/L	0.032	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute	
Inorganics	Inorganics & Metals	Zinc	7440666	Surface Wate	NOAA Acute	mg/L	0.06513171	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Acute	Freshwater Aquatic Life	SL	Acute HD	
Organics	SVOCs	1-Methylnaphthalene	90120	Surface Wate	NOAA Chronic	mg/L	0.0021	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	2-Methylnaphthalene	91576	Surface Wate	NOAA Chronic	mg/L	0.33	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Acenaphthene	83329	Surface Wate	NOAA Chronic	mg/L	0.0058	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Acenaphthylene	208968	Surface Wate	NOAA Chronic	mg/L	4.84	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Anthracene	120127	Surface Wate	NOAA Chronic	mg/L	0.000012	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Inorganics	Inorganics & Metals	Arsenic	7440382	Surface Wate	NOAA Chronic	mg/L	0.019	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic LOEL/10	
Inorganics	Inorganics & Metals	Arsenic	7440382	Surface Wate	NOAA Chronic	mg/L	0.0031	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Inorganics	Inorganics & Metals	Arsenic	7440382	Surface Wate	NOAA Chronic	mg/L	0.15	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	Inorganics & Metals	Barium	7440393	Surface Wate	NOAA Chronic	mg/L	0.0039	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	VOCs	Benzene	71432	Surface Wate	NOAA Chronic	mg/L	0.046	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Benzo(a)anthracene	56553	Surface Wate	NOAA Chronic	mg/L	0.000027	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Benzo(a)pyrene	50328	Surface Wate	NOAA Chronic	mg/L	0.000014	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Benzo(b)fluoranthene	205992	Surface Wate	NOAA Chronic	mg/L	0.00907	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Surface Wate	NOAA Chronic	mg/L	0.00764	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Benzo(k)fluoranthene	207089	Surface Wate	NOAA Chronic	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzofluoranthenes, to	40	Surface Wate	NOAA Chronic	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Surface Wate	NOAA Chronic	mg/L	0.00066	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Inorganics	Inorganics & Metals	Cadmium	7440439	Surface Wate	NOAA Chronic	mg/L	0.00015189	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic HD	
Inorganics	Inorganics & Metals	Chromium	7440473	Surface Wate	NOAA Chronic	mg/L	0.04201068	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic HD	
Inorganics	Inorganics & Metals	Chromium	18540299	Surface Wate	NOAA Chronic	mg/L	0.011	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Chrysene	218019	Surface Wate	NOAA Chronic	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Cobalt	7440484	Surface Wate	NOAA Chronic	mg/L	0.003	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Inorganics	Inorganics & Metals	Copper	7440508	Surface Wate	NOAA Chronic	mg/L	0.00495304	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic HD	
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Surface Wate	NOAA Chronic	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Ethylbenzene	100414	Surface Wate	NOAA Chronic	mg/L	0.0073	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Fluoranthene	206440	Surface Wate	NOAA Chronic	mg/L	0.00004	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Fluorene	86737	Surface Wate	NOAA Chronic	mg/L	0.0039	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Surface Wate	NOAA Chronic	mg/L	0.00431	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Inorganics	Inorganics & Metals	Lead	7439921	Surface Wate	NOAA Chronic	mg/L	0.00117435	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic HD	
Inorganics	Inorganics & Metals	Mercury	7439976	Surface Wate	NOAA Chronic	mg/L	0.00077	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Inorganics	Inorganics & Metals	Mercury	22967926	Surface Wate	NOAA Chronic	mg/L	0.0000028	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Naphthalene	91203	Surface Wate	NOAA Chronic	mg/L	0.0011	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Inorganics	Inorganics & Metals	Nickel	7440020	Surface Wate	NOAA Chronic	mg/L	0.02893254	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	PAHs	41	Surface Wate	NOAA Chronic	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	PAHs HMW	34	Surface Wate	NOAA Chronic	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	PAHs LMW	33	Surface Wate	NOAA Chronic	mg/L	NV	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	NA	NA	
Organics	PCBs & Dioxins	PCBs	1336363	Surface Wate	NOAA Chronic	mg/L	0.000014	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Phenanthrene	85018	Surface Wate	NOAA Chronic	mg/L	0.0036	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Pyrene	129000	Surface Wate	NOAA Chronic	mg/L	0.000025	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Inorganics	Inorganics & Metals	Selenium	7782492	Surface Wate	NOAA Chronic	mg/L	0.00461	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic dissolved	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Inorganics	Inorganics & Metals	Silver	7440224	Surface Wate	NOAA Chronic	mg/L	0.00036	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Surface Wate	NOAA Chronic	mg/L	1E-09	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic LOEL/10	
Organics	VOCs	Toluene	108883	Surface Wate	NOAA Chronic	mg/L	0.0098	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Inorganics	Inorganics & Metals	Vanadium	VA	Surface Wate	NOAA Chronic	mg/L	0.019	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	VOCs	Xylene	1330207	Surface Wate	NOAA Chronic	mg/L	0.013	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Organics	VOCs	Xylene	108383	Surface Wate	NOAA Chronic	mg/L	0.0018	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic	
Inorganics	Inorganics & Metals	Zinc	7440666	Surface Wate	NOAA Chronic	mg/L	0.06566448	NOAA. 2008. Screening Quick Reference Tables (SQUIRTS). OR&R Report 08-1.	NOAA Chronic	Freshwater Aquatic Life	SL	Chronic HD	
Organics	SVOCs	1-Methylnaphthalene	90120	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	2-Methylnaphthalene	91576	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Arsenic	7440382	Surface Wate	WDEQ Chapter 1 Acute	mg/L	0.34	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	SL	Acute	
Organics	Inorganics & Metals	Barium	7440393	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Benzene	71432	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(a)pyrene	50328	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(b)fluoranthene	205992	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(k)fluoranthene	207089	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzofluoranthenes, to	40	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Surface Wate	WDEQ Chapter 1 Acute	mg/L	0.00102592	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	SL	Acute HD	
Inorganics	Inorganics & Metals	Chromium	7440473	Surface Wate	WDEQ Chapter 1 Acute	mg/L	0.32296171	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	SL	Acute HD	
Inorganics	Inorganics & Metals	Chromium	18540299	Surface Wate	WDEQ Chapter 1 Acute	mg/L	0.016	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	SL	Acute	
Organics	SVOCs	Chrysene	218019	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Cobalt	7440484	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Copper	7440508	Surface Wate	WDEQ Chapter 1 Acute	mg/L	0.00699423	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	SL	Acute HD	
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Ethylbenzene	100414	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Fluoranthene	206440	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Fluorene	86737	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Lead	7439921	Surface Wate	WDEQ Chapter 1 Acute	mg/L	0.03013591	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	SL	Acute HD	
Inorganics	Inorganics & Metals	Mercury	7439976	Surface Wate	WDEQ Chapter 1 Acute	mg/L	0.0014	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	SL	No Effect	
Organics	SVOCs	Naphthalene	91203	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Nickel	7440020	Surface Wate	WDEQ Chapter 1 Acute	mg/L	0.2604913	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	SL	Acute HD	
Organics	SVOCs	PAHs	41	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	PAHs HMW	34	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	PAHs LMW	33	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	PCBs & Dioxins	PCBs	1336363	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	PCBs & Dioxins	PCBs	1336363	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Phenanthrene	85018	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Pyrene	129000	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Selenium	7782492	Surface Wate	WDEQ Chapter 1 Acute	mg/L	0.02	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	SL	Acute	
Inorganics	Inorganics & Metals	Silver	7440224	Surface Wate	WDEQ Chapter 1 Acute	mg/L	0.00097644	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	SL	Acute HD	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	VOCs	Toluene	108883	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Vanadium	VA	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Xylene	1330207	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Xylene	108383	Surface Wate	WDEQ Chapter 1 Acute	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Zinc	7440666	Surface Wate	WDEQ Chapter 1 Acute	mg/L	0.06513171	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Acute	Freshwater Aquatic Life	SL	Acute HD	
Organics	SVOCs	1-Methylnaphthalene	90120	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	2-Methylnaphthalene	91576	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Acenaphthene	83329	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Acenaphthylene	208968	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Anthracene	120127	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Arsenic	7440382	Surface Wate	WDEQ Chapter 1 Chro	mg/L	0.15	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	SL	Chronic	
Organics	Inorganics & Metals	Barium	7440393	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Benzene	71432	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(a)anthracene	56553	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(a)pyrene	50328	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(b)fluoranthene	205992	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzo(k)fluoranthene	207089	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Benzofluoranthenes, to	40	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Beryllium	7440417	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Cadmium	7440439	Surface Wate	WDEQ Chapter 1 Chro	mg/L	0.00015189	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	SL	Chronic HD	
Inorganics	Inorganics & Metals	Chromium	7440473	Surface Wate	WDEQ Chapter 1 Chro	mg/L	0.04201068	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	SL	Chronic HD	
Inorganics	Inorganics & Metals	Chromium	18540299	Surface Wate	WDEQ Chapter 1 Chro	mg/L	0.011	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Chrysene	218019	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Cobalt	7440484	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Copper	7440508	Surface Wate	WDEQ Chapter 1 Chro	mg/L	0.00495304	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	SL	Chronic HD	
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Ethylbenzene	100414	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Fluoranthene	206440	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Fluorene	86737	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Lead	7439921	Surface Wate	WDEQ Chapter 1 Chro	mg/L	0.00117435	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	SL	Chronic HD	
Inorganics	Inorganics & Metals	Mercury	7439976	Surface Wate	WDEQ Chapter 1 Chro	mg/L	0.00077	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	SL	Chronic	
Inorganics	Inorganics & Metals	Mercury	22967926	Surface Wate	WDEQ Chapter 1 Chro	mg/L	0.00077	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Naphthalene	91203	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Nickel	7440020	Surface Wate	WDEQ Chapter 1 Chro	mg/L	0.02893254	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	SL	Chronic HD	
Organics	SVOCs	PAHs	41	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	PAHs HMW	34	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	PAHs LMW	33	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	PCBs & Dioxins	PCBs	1336363	Surface Wate	WDEQ Chapter 1 Chro	mg/L	0.000014	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	SL	Chronic	
Organics	SVOCs	Phenanthrene	85018	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	SVOCs	Pyrene	129000	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Selenium	7782492	Surface Wate	WDEQ Chapter 1 Chro	mg/L	0.00461	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	SL	Chronic	

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Inorganics	Inorganics & Metals	Silver	7440224	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Toluene	108883	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Vanadium	VA	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Xylene	1330207	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Organics	VOCs	Xylene	108383	Surface Wate	WDEQ Chapter 1 Chro	mg/L	NV	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	NA	NA	
Inorganics	Inorganics & Metals	Zinc	7440666	Surface Wate	WDEQ Chapter 1 Chro	mg/L	0.06566448	WDEQ. 2011. Water Quality Rules and Regulations. Chapter 1. Wyoming Surface Water Standards. Appendix B-1.	WDEQ Chroni	Freshwater Aquatic Life	SL	Chronic HD	
Organics	SVOCs	PAHs LMW	33	Dose	Bird TRV	mg/kg-d	23.28	Eisler, R. 1987. Polycyclic Aromatic Hydrocarbon Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review. Patuxent Wildlife Research Center, MD. Biological Report 85(1.11). Contaminant Hazard Reviews. Report No. 11. May 1987.	USFWS	Terrestrial Birds	TRV	Chronic NOAEL diet convert to dose with 0.0582BW^0.65 1/BW from EPA 1993 assuming 1 kg body weight, divided by UF of 10	Old report; suggest tox review for newer avian data if site > SLs.Mallard, diet, 7 months, 4000 ppm diet*(0.0582BW ^0.651/BW) from EPA WEFH, assume 1 kg BW
Organics	SVOCs	Phenanthrene	85018	Dose	Bird TRV	mg/kg-d	23.28	Eisler, R. 1987. Polycyclic Aromatic Hydrocarbon Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review. Patuxent Wildlife Research Center, MD. Biological Report 85(1.11). Contaminant Hazard Reviews. Report No. 11. May 1987.	USFWS	Terrestrial Birds	TRV	Chronic NOAEL diet convert to dose with 0.0582BW^0.65 1/BW from EPA 1993 assuming 1 kg body weight, divided by UF of 10	Old report; suggest tox review for newer avian data if site > SLs.Mallard, diet, 7 months, 4000 ppm diet*(0.0582BW ^0.651/BW) from EPA WEFH, assume 1 kg BW
Organics	SVOCs	1-Methylnaphthalene	90120	Dose	Bird TRV	mg/kg-d	23.28	Eisler, R. 1987. Polycyclic Aromatic Hydrocarbon Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review. Patuxent Wildlife Research Center, MD. Biological Report 85(1.11). Contaminant Hazard Reviews. Report No. 11. May 1987.	USFWS	Terrestrial Birds	TRV	Chronic NOAEL diet convert to dose with 0.0582BW^0.65 1/BW from EPA 1993 assuming 1 kg body weight, divided by UF of 10	Old report; suggest tox review for newer avian data if site > SLs.Mallard, diet, 7 months, 4000 ppm diet*(0.0582BW ^0.651/BW) from EPA WEFH, assume 1 kg BW
Organics	SVOCs	2-Methylnaphthalene	91576	Dose	Bird TRV	mg/kg-d	23.28	Eisler, R. 1987. Polycyclic Aromatic Hydrocarbon Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review. Patuxent Wildlife Research Center, MD. Biological Report 85(1.11). Contaminant Hazard Reviews. Report No. 11. May 1987.	USFWS	Terrestrial Birds	TRV	Chronic NOAEL diet convert to dose with 0.0582BW^0.65 1/BW from EPA 1993 assuming 1 kg body weight, divided by UF of 10	Old report; suggest tox review for newer avian data if site > SLs.Mallard, diet, 7 months, 4000 ppm diet*(0.0582BW ^0.651/BW) from EPA WEFH, assume 1 kg BW

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	SVOCs	Naphthalene	91203	Dose	Bird TRV	mg/kg-d	23.28	Eisler, R. 1987. Polycyclic Aromatic Hydrocarbon Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review. Patuxent Wildlife Research Center, MD. Biological Report 85(1.11). Contaminant Hazard Reviews. Report No. 11. May 1987.	USFWS	Terrestrial Birds	TRV	Chronic NOAEL diet convert to dose with 0.0582BW^0.65 1/BW from EPA 1993 assuming 1 kg body weight, divided by UF of 10	Old report; suggest tox review for newer avian data if site > SLs.Mallard, diet, 7 months, 4000 ppm diet*(0.0582BW ^0.651/BW) from EPA WEFH, assume 1 kg BW
Organics	SVOCs	Acenaphthene	83329	Dose	Bird TRV	mg/kg-d	23.28	Eisler, R. 1987. Polycyclic Aromatic Hydrocarbon Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review. Patuxent Wildlife Research Center, MD. Biological Report 85(1.11). Contaminant Hazard Reviews. Report No. 11. May 1987.	USFWS	Terrestrial Birds	TRV	Chronic NOAEL diet convert to dose with 0.0582BW^0.65 1/BW from EPA 1993 assuming 1 kg body weight, divided by UF of 10	Old report; suggest tox review for newer avian data if site > SLs.Mallard, diet, 7 months, 4000 ppm diet*(0.0582BW ^0.651/BW) from EPA WEFH, assume 1 kg BW
Organics	SVOCs	Acenaphthylene	208968	Dose	Bird TRV	mg/kg-d	23.28	Eisler, R. 1987. Polycyclic Aromatic Hydrocarbon Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review. Patuxent Wildlife Research Center, MD. Biological Report 85(1.11). Contaminant Hazard Reviews. Report No. 11. May 1987.	USFWS	Terrestrial Birds	TRV	Chronic NOAEL diet convert to dose with 0.0582BW^0.65 1/BW from EPA 1993 assuming 1 kg body weight, divided by UF of 10	Old report; suggest tox review for newer avian data if site > SLs.Mallard, diet, 7 months, 4000 ppm diet*(0.0582BW ^0.651/BW) from EPA WEFH, assume 1 kg BW
Organics	SVOCs	Fluoranthene	206440	Dose	Bird TRV	mg/kg-d	23.28	Eisler, R. 1987. Polycyclic Aromatic Hydrocarbon Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review. Patuxent Wildlife Research Center, MD. Biological Report 85(1.11). Contaminant Hazard Reviews. Report No. 11. May 1987.	USFWS	Terrestrial Birds	TRV	Chronic NOAEL diet convert to dose with 0.0582BW^0.65 1/BW from EPA 1993 assuming 1 kg body weight, divided by UF of 10	Old report; suggest tox review for newer avian data if site > SLs.Mallard, diet, 7 months, 4000 ppm diet*(0.0582BW ^0.651/BW) from EPA WEFH, assume 1 kg BW
Organics	SVOCs	Fluorene	86737	Dose	Bird TRV	mg/kg-d	23.28	Eisler, R. 1987. Polycyclic Aromatic Hydrocarbon Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review. Patuxent Wildlife Research Center, MD. Biological Report 85(1.11). Contaminant Hazard Reviews. Report No. 11. May 1987.	USFWS	Terrestrial Birds	TRV	Chronic NOAEL diet convert to dose with 0.0582BW^0.65 1/BW from EPA 1993 assuming 1 kg body weight, divided by UF of 10	Old report; suggest tox review for newer avian data if site > SLs.Mallard, diet, 7 months, 4000 ppm diet*(0.0582BW ^0.651/BW) from EPA WEFH, assume 1 kg BW

Table A-8.
Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	SVOCs	Pyrene	129000	Dose	Bird TRV	mg/kg-d	23.28	Eisler, R. 1987. Polycyclic Aromatic Hydrocarbon Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review. Patuxent Wildlife Research Center, MD. Biological Report 85(1.11). Contaminant Hazard Reviews. Report No. 11. May 1987.	USFWS	Terrestrial Birds	TRV	Chronic NOAEL diet convert to dose with 0.0582BW^0.651/BW from EPA 1993 assuming 1 kg body weight, divided by UF of 10	Old report; suggest tox review for newer avian data if site > SLs.Mallard, diet, 7 months, 4000 ppm diet*(0.0582BW^0.651/BW) from EPA WEFH, assume 1 kg BW
Organics	SVOCs	Anthracene	120127	Dose	Bird TRV	mg/kg-d	23.28	Eisler, R. 1987. Polycyclic Aromatic Hydrocarbon Hazards to Fish, Wildlife, and Invertebrates: A Synoptic Review. Patuxent Wildlife Research Center, MD. Biological Report 85(1.11). Contaminant Hazard Reviews. Report No. 11. May 1987.	USFWS	Terrestrial Birds	TRV	Chronic NOAEL diet convert to dose with 0.0582BW^0.651/BW from EPA 1993 assuming 1 kg body weight, divided by UF of 10	Old report; suggest tox review for newer avian data if site > SLs.Mallard, diet, 7 months, 4000 ppm diet*(0.0582BW^0.651/BW) from EPA WEFH, assume 1 kg BW
Organics	VOCs	Ethylbenzene	100414	Dose	Mammal TRV	mg/kg-d	9.71	USEPA. 2011. Integrated Risk Information System (IRIS). http://cfpub.epa.gov/ncea/iris/	IRIS	Terrestrial Mammals	TRV	Subchronic NOAEL/10	Low confidence. Old study. Rat subchronic (182 d) to chronic. Endpoint histopathological changes in liver - could possibly use LOAEL of 408 mg/kg bw-d since not a population-level adverse effect (so did not use more uncertainty factors to reduce dose lower due to limited data, lack of interspecific variability, etc.)
Organics	SVOCs	Benzo(a)anthracene	56553	Dose	Bird TRV	mg/kg-d	0.2	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	Benzo(a)pyrene	50328	Dose	Bird TRV	mg/kg-d	0.2	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	Benzo(b)fluoranthene	205992	Dose	Bird TRV	mg/kg-d	0.2	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Dose	Bird TRV	mg/kg-d	0.2	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	Benzo(k)fluoranthene	207089	Dose	Bird TRV	mg/kg-d	0.2	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	Benzofluoranthenes, to	40	Dose	Bird TRV	mg/kg-d	0.2	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	Chrysene	218019	Dose	Bird TRV	mg/kg-d	0.2	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA

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Toxicological Data Used to Develop Medium-Specific and Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	Tox Value Name	Units	Tox Value	Reference	Source Abbrev.	Taxa	Type	TRV or SSL Endpoints	Specific Form if Known
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Dose	Bird TRV	mg/kg-d	0.2	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Dose	Bird TRV	mg/kg-d	0.2	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	PAHs	41	Dose	Bird TRV	mg/kg-d	0.2	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	PAHs HMW	34	Dose	Bird TRV	mg/kg-d	0.2	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	PCBs & Dioxins	PCBs	1746016	Dose	ORNL Bird TRV	mg/kg-d	0.000014	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Birds	TRV	TCDD for TEF=1	TCDD; TEF=1
Organics	PCBs & Dioxins	PCBs	1746016	Dose	ORNL Mammal TRV	mg/kg-d	0.000001	Sample, B.E., D.M. Opresko, and G.W. Suter. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory. ES/ER/TM-86/R3. June 1996.	ORNL	Terrestrial Mammals	TRV	TCDD for TEF=1	TCDD; TEF=1
Inorganics	Inorganics & Metals	Barium	7440393	Sediment	TECs FW	mg/kg	20	USEPA (United States Environmental Protection Agency). 1977. Guidelines for the pollution classification of Great Lakes Harbor sediments. United States Environmental Protection Agency. Region V. Chicago, Illinois. (As cited in MacDonald and USGS 2003. Development and Evaluation of Numerical Sediment Quality Assessment Guidelines for Florida Inland Waters, Technical Report, January 2003).	USEPA	Benthic Life	SL	No or Infrequent Effects	
Organics	SVOCs	PAHs LMW	33	Dose	Bird TRV	mg/kg-d	165.3	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	Phenanthrene	85018	Dose	Bird TRV	mg/kg-d	165.3	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	1-Methylnaphthalene	90120	Dose	Bird TRV	mg/kg-d	165.3	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	2-Methylnaphthalene	91576	Dose	Bird TRV	mg/kg-d	165.3	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	Naphthalene	91203	Dose	Bird TRV	mg/kg-d	165.3	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	Acenaphthene	83329	Dose	Bird TRV	mg/kg-d	165.3	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	Acenaphthylene	208968	Dose	Bird TRV	mg/kg-d	165.3	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	Fluoranthene	206440	Dose	Bird TRV	mg/kg-d	165.3	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	Fluorene	86737	Dose	Bird TRV	mg/kg-d	165.3	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	Pyrene	129000	Dose	Bird TRV	mg/kg-d	0.2	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA
Organics	SVOCs	Anthracene	120127	Dose	Bird TRV	mg/kg-d	165.3	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	EcoSSL	Terrestrial Birds	TRV	Acute NOAEL juvenile/UF of 10 for dose duration	Data reported by USEPA

Table A-9.
Bioaccumulation and Bioconcentration Information Used to Develop Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	BAF Abbreviation	Type	Cbiota (mg/kg dw)	Taxa	Equation	Reference	Source Abbrev.	Notes	Log Kow	Log Kow Source	BCF (Cb/Csw) or BAF (Cb/Csoil) (unitless)
Inorganics & Metals	Inorganics & Metals	Arsenic	7440382	Soil	BAFp	Constant	0.21	Plant	BAF=0.03752	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Arsenic. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.038
Inorganics & Metals	Inorganics & Metals	Arsenic	7440382	Soil	BAFi	Regression	0.83	Invertebrate	Cb=EXP(0.706*LN(Csoil)-1.421)	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Arsenic. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.145
Inorganics & Metals	Inorganics & Metals	Arsenic	7440382	Soil	BAFm	Regression	0.03	Mammal	Cb=EXP(0.8188*LN(Csoil)-4.8471)	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Arsenic. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.006
Inorganics & Metals	Inorganics & Metals	Arsenic	7440382	Sediment	BSAF	Constant	5.31	Aquatic Invertebrate	BAF=0.9	USEPA. 1999. SLERAP. Appendix C. Table C-6. Mean of metals with empirical data.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.900
Inorganics & Metals	Inorganics & Metals	Arsenic	7440382	Sediment	BSAF	Constant	0.21	Aquatic Plant	BAF=0.036	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.036
Inorganics & Metals	Inorganics & Metals	Arsenic	7440382	Surface Wate	BCFf	Constant	1.77	Fish	BCF=114*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5, and Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb)			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	570.000
Inorganics & Metals	Inorganics & Metals	Barium	7440393	Soil	BAFp	Constant	0.16	Plant	BAF=0.156	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Barium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. February 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.156
Inorganics & Metals	Inorganics & Metals	Barium	7440393	Soil	BAFi	Constant	0.09	Invertebrate	BAF=0.091	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Barium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. February 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.091
Inorganics & Metals	Inorganics & Metals	Barium	7440393	Soil	BAFm	Constant	0.01	Mammal	BAF=0.0075	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Barium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. February 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.008
Inorganics & Metals	Inorganics & Metals	Barium	7440393	Sediment	BSAF	Constant	18.00	Aquatic Invertebrate	BAF=0.9	USEPA. 1999. SLERAP. Appendix C. Table C-6. Mean of metals with empirical data.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.900
Inorganics & Metals	Inorganics & Metals	Barium	7440393	Sediment	BSAF	Constant	3.00	Aquatic Plant	BAF=0.15	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.150
Inorganics & Metals	Inorganics & Metals	Barium	7440393	Surface Wate	BCFf	Constant	12.34	Fish	BCF=633*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5, and Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb)			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	3165.000
Inorganics & Metals	Inorganics & Metals	Cadmium	7440439	Soil	BAFp	Regression	0.02	Plant	Cb=EXP(0.546*LN(Csoil)-0.475)	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Cadmium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	9.965
Inorganics & Metals	Inorganics & Metals	Cadmium	7440439	Soil	BAFi	Regression	0.06	Invertebrate	Cb=EXP(0.795*LN(Csoil)+2.114)	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Cadmium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	28.980
Inorganics & Metals	Inorganics & Metals	Cadmium	7440439	Soil	BAFm	Regression	0.02	Mammal	Cb=EXP(0.4723*LN(Csoil)-1.2571)	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Cadmium. Interim Final. Office of Solid Waste and Emergency Response. Washington D.C. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	7.151
Inorganics & Metals	Inorganics & Metals	Cadmium	7440439	Sediment	BSAF	Constant	1.98	Aquatic Invertebrate	BAF=3.4	USEPA. 1999. SLERAP. Appendix C. Table C-6.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	3.400
Inorganics & Metals	Inorganics & Metals	Cadmium	7440439	Sediment	BSAF	Constant	0.21	Aquatic Plant	BAF=0.364	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.364
Inorganics & Metals	Inorganics & Metals	Cadmium	7440439	Surface Wate	BCFf	Constant	0.06	Fish	BCF=907*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5, and Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb)			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	4535.000
Inorganics & Metals	Inorganics & Metals	Chromium	7440473	Soil	BAFp	Constant	0.02	Plant	BAF=0.041	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. Office of Solid Waste and Emergency Response. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.041
Inorganics & Metals	Inorganics & Metals	Chromium	7440473	Soil	BAFi	Constant	0.12	Invertebrate	BAF=0.306	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. Office of Solid Waste and Emergency Response. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.306
Inorganics & Metals	Inorganics & Metals	Chromium	7440473	Soil	BAFm	Regression	0.12	Mammal	Cb=EXP(0.7338*LN(Csoil)-1.4599)	United States Environmental Protection Agency (USEPA). 2008. Ecological Soil Screening Levels for Chromium. Interim Final. Office of Solid Waste and Emergency Response. March 2005. Revised April 2008. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.296
Inorganics & Metals	Inorganics & Metals	Chromium	7440473	Sediment	BSAF	Constant	10.14	Aquatic Invertebrate	BAF=0.39	USEPA. 1999. SLERAP. Appendix C. Table C-6.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.390
Inorganics & Metals	Inorganics & Metals	Chromium	7440473	Sediment	BSAF	Constant	0.20	Aquatic Plant	BAF=0.0075	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.008
Inorganics & Metals	Inorganics & Metals	Chromium	7440473	Surface Wate	BCFf	Constant	0.03	Fish	BCF=19*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5, and Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb)			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	95.000

Table A-9.
Bioaccumulation and Bioconcentration Information Used to Develop Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	BAF Abbreviation	Type	Cbiota (mg/kg dw)	Taxa	Equation	Reference	Source Abbrev.	Notes	Log Kow	Log Kow Source	BCF (Cb/Csw) or BAF (Cb/Csoil) (unitless)
Inorganics & Metals	Inorganics & Metals	Lead	7439921	Soil	BAFp	Regression	0.05	Plant	Cb=EXP(0.561*LN(Csoil)-1.328)	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Lead. Interim Final. Office of Solid Waste and Emergency Response. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.957
Inorganics & Metals	Inorganics & Metals	Lead	7439921	Soil	BAFi	Regression	0.08	Invertebrate	Cb=EXP(0.807*LN(Csoil)-0.218)	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Lead. Interim Final. Office of Solid Waste and Emergency Response. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	1.414
Inorganics & Metals	Inorganics & Metals	Lead	7439921	Soil	BAFm	Regression	0.30	Mammal	Cb=EXP(0.4422*LN(Csoil)+0.0761)	United States Environmental Protection Agency (USEPA). 2005. Ecological Soil Screening Levels for Lead. Interim Final. Office of Solid Waste and Emergency Response. March 2005. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	5.514
Inorganics & Metals	Inorganics & Metals	Lead	7439921	Sediment	BSAF	Constant	19.03	Aquatic Invertebrate	BAF=0.63	USEPA. 1999. SLERAP. Appendix C. Table C-6.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.630
Inorganics & Metals	Inorganics & Metals	Lead	7439921	Sediment	BSAF	Constant	1.36	Aquatic Plant	BAF=0.045	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.045
Inorganics & Metals	Inorganics & Metals	Lead	7439921	Surface Wate	BCFf	Constant	0.00	Fish	BCF=0.09*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5, and Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb)			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.450
Inorganics & Metals	Inorganics & Metals	Mercury	7439976	Soil	BAFp	NA	NV	Plant	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	NV
Inorganics & Metals	Inorganics & Metals	Mercury	7439976	Soil	BAFi	NA	NV	Invertebrate	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	NV
Inorganics & Metals	Inorganics & Metals	Mercury	7439976	Soil	BAFm	NA	NV	Mammal	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	NV
Inorganics & Metals	Inorganics & Metals	Mercury	7439976	Sediment	BSAF	Constant	0.06	Aquatic Invertebrate	BAF=0.48	USEPA. 1999. SLERAP. Appendix C. Table C-6. Use methyl mercury BAF.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.480
Inorganics & Metals	Inorganics & Metals	Mercury	7439976	Sediment	BSAF	Constant	0.02	Aquatic Plant	BAF=0.137	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2. Use value for methyl mercury.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.137
Inorganics & Metals	Inorganics & Metals	Mercury	7439976	Surface Wate	BCFf	Constant	0.07	Fish	BCF=11168*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5. Use methyl mercury BCF. Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb)			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	55840.000
Inorganics & Metals	Inorganics & Metals	Mercury	7439976	Soil	BAFp	Constant	0.00	Plant	BAF=5 (90th percentile)	ORNL. 1998. Empirical Models for the Uptake of Inorganic Chemicals from Soil by Plants. September 1998. BJC/OR-133.	NV		NA		5.000
Inorganics & Metals	Inorganics & Metals	Mercury	7439976	Soil	BAFi	Constant	0.02	Invertebrate	BAF=30; 90th percentile for earthworm	Sample et al. 1998b. Development and Validation of Bioaccumulation Models for Earthworms. ES/ER/TM-220.	NV		NA		30.000
Inorganics & Metals	Inorganics & Metals	Mercury	7439976	Soil	BAFm	Constant	0.00	Mammal	90th percentil of data for different funct	Sample et al. 1998a. Development and Validation of Bioaccumulation Models for Small Mammals. February 1998. ES/ER/TM-219.	NV		NA		0.777
Inorganics & Metals	Inorganics & Metals	Selenium	7782492	Soil	BAFp	Regression	0.01	Plant	Cb=EXP(1.104*LN(Csoil)-0.677)	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Selenium. Interim Final. Office of Solid Waste and Emergency Response. July 2007. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.350
Inorganics & Metals	Inorganics & Metals	Selenium	7782492	Soil	BAFi	Regression	0.07	Invertebrate	Cb=EXP(0.733*LN(Csoil)-0.075)	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Selenium. Interim Final. Office of Solid Waste and Emergency Response. July 2007. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2.419
Inorganics & Metals	Inorganics & Metals	Selenium	7782492	Soil	BAFm	Regression	0.17	Mammal	Cb=EXP(0.3764*LN(Csoil)-0.4158)	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels for Selenium. Interim Final. Office of Solid Waste and Emergency Response. July 2007. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	6.190
Inorganics & Metals	Inorganics & Metals	Selenium	7782492	Sediment	BSAF	Constant	1.80	Aquatic Invertebrate	BAF=0.9	USEPA. 1999. SLERAP. Appendix C. Table C-6. Mean of metals with empirical data.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.900
Inorganics & Metals	Inorganics & Metals	Selenium	7782492	Sediment	BSAF	Constant	0.03	Aquatic Plant	BAF=0.016	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.016
Inorganics & Metals	Inorganics & Metals	Selenium	7782492	Surface Wate	BCFf	Constant	0.65	Fish	BCF=129*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5, and Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb)			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	645.000
Inorganics & Metals	Inorganics & Metals	Silver	7440224	Soil	BAFp	Constant	0.03	Plant	BAF=0.014	United States Environmental Protection Agency (USEPA). 2006. Ecological Soil Screening Levels for Silver. Interim Final. Office of Solid Waste and Emergency Response. September 2006. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.014
Inorganics & Metals	Inorganics & Metals	Silver	7440224	Soil	BAFi	Constant	4.09	Invertebrate	BAF=2.045	United States Environmental Protection Agency (USEPA). 2006. Ecological Soil Screening Levels for Silver. Interim Final. Office of Solid Waste and Emergency Response. September 2006. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2.045
Inorganics & Metals	Inorganics & Metals	Silver	7440224	Soil	BAFm	Constant	0.01	Mammal	BAF=0.004	United States Environmental Protection Agency (USEPA). 2006. Ecological Soil Screening Levels for Silver. Interim Final. Office of Solid Waste and Emergency Response. September 2006. http://www.epa.gov/ecotox/ecossl/.	Eco SSL		NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.004
Inorganics & Metals	Inorganics & Metals	Silver	7440224	Sediment	BSAF	Constant	0.45	Aquatic Invertebrate	BAF=0.9	USEPA. 1999. SLERAP. Appendix C. Table C-6. Mean of metals with empirical data.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.900

Table A-9.
Bioaccumulation and Bioconcentration Information Used to Develop Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	BAF Abbreviation	Type	Cbiota (mg/kg dw)	Taxa	Equation	Reference	Source Abbrev.	Notes	Log Kow	Log Kow Source	BCF (Cb/Csw) or BAF (Cb/Csoil) (unitless)
Inorganics & Metals	Inorganics & Metals	Silver	7440224	Sediment	BSAF	Constant	0.20	Aquatic Plant	BAF=0.4	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.400
Inorganics & Metals	Inorganics & Metals	Silver	7440224	Surface Wate	BCFf	Constant	0.01	Fish	BCF=87.71*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5, and Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb)			NA	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	438.550
Organics	PCBs & Dioxins	PCBs	1336363	Soil	BAFi	NA	NV	Plant	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		6.207	USEPA. 1999. SLERAP. Appendix C. Table C-2.	NV
Organics	PCBs & Dioxins	PCBs	1336363	Soil	BAFm	NA	NV	Invertebrate	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		6.207	USEPA. 1999. SLERAP. Appendix C. Table C-2.	NV
Organics	PCBs & Dioxins	PCBs	1336363	Soil	BAFm	NA	NV	Mammal	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		6.207	USEPA. 1999. SLERAP. Appendix C. Table C-2.	NV
Organics	PCBs & Dioxins	PCBs	1336363	Sediment	BSAF	Constant	0.01	Aquatic Invertebrate	BAF=0.53	USEPA. 1999. SLERAP. Appendix C. Table C-6.			6.207	USEPA. 1999. SLERAP. Appendix C. Table C-2.	0.530
Organics	PCBs & Dioxins	PCBs	1336363	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			6.207	USEPA. 1999. SLERAP. Appendix C. Table C-2.	0.010
Organics	PCBs & Dioxins	PCBs	1336363	Surface Wate	BCFf	Constant	0.09	Fish	BCF=230394*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5. Use Aroclor 1254. Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb)			6.207	USEPA. 1999. SLERAP. Appendix C. Table C-2.	1151970.000
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Sediment	BSAF	Regression	0.00	Aquatic Invertebrate	BAF =10^(0.819*Log Kow-1.146)	USEPA. 1999. SLERAP. Appendix C. Table C-6.			6.8	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	26497.201
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			6.8	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.005
Organics	PCBs & Dioxins	TCDD, 2,3,7,8-	1746016	Surface Wate	BCFf	Constant	0.00	Fish	BCF=4235*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5, and Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb)			6.8	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	21175.000
Organics	SVOCs	1-Methylnaphthalene	90120	Soil	BAFp	Constant	6.77	Plant	BAF=2.09	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2.090
Organics	SVOCs	1-Methylnaphthalene	90120	Soil	BAFi	Constant	9.85	Invertebrate	BAF=3.04	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	3.040
Organics	SVOCs	1-Methylnaphthalene	90120	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.000
Organics	SVOCs	1-Methylnaphthalene	90120	Sediment	BSAF	Constant	0.03	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	1.590
Organics	SVOCs	1-Methylnaphthalene	90120	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.102
Organics	SVOCs	1-Methylnaphthalene	90120	Surface Wate	BCFf	Constant	5.25	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2500.000
Organics	SVOCs	2-Methylnaphthalene	91576	Soil	BAFp	Constant	6.77	Plant	BAF=2.09	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2.090
Organics	SVOCs	2-Methylnaphthalene	91576	Soil	BAFi	Constant	9.85	Invertebrate	BAF=3.04	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	3.040
Organics	SVOCs	2-Methylnaphthalene	91576	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.000
Organics	SVOCs	2-Methylnaphthalene	91576	Sediment	BSAF	Constant	0.03	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	1.590
Organics	SVOCs	2-Methylnaphthalene	91576	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.102
Organics	SVOCs	2-Methylnaphthalene	91576	Surface Wate	BCFf	Constant	11.75	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2500.000
Organics	SVOCs	Acenaphthene	83329	Soil	BAFp	Constant	41.80	Plant	BAF=2.09	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2.090

Table A-9.
Bioaccumulation and Bioconcentration Information Used to Develop Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	BAF Abbreviation	Type	Cbiota (mg/kg dw)	Taxa	Equation	Reference	Source Abbrev.	Notes	Log Kow	Log Kow Source	BCF (Cb/Csw) or BAF (Cb/Csoil) (unitless)
Organics	SVOCs	Acenaphthene	83329	Soil	BAFi	Constant	60.80	Invertebrate	BAF=3.04	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	3.040
Organics	SVOCs	Acenaphthene	83329	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.000
Organics	SVOCs	Acenaphthene	83329	Sediment	BSAF	Constant	0.01	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	1.590
Organics	SVOCs	Acenaphthene	83329	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.102
Organics	SVOCs	Acenaphthene	83329	Surface Wate	BCFf	Constant	14.50	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2500.000
Organics	SVOCs	Acenaphthylene	208968	Soil	BAFp	Constant	1425.38	Plant	BAF=2.09	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2.090
Organics	SVOCs	Acenaphthylene	208968	Soil	BAFi	Constant	2073.28	Invertebrate	BAF=3.04	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	3.040
Organics	SVOCs	Acenaphthylene	208968	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.000
Organics	SVOCs	Acenaphthylene	208968	Sediment	BSAF	Constant	0.01	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	1.590
Organics	SVOCs	Acenaphthylene	208968	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.102
Organics	SVOCs	Acenaphthylene	208968	Surface Wate	BCFf	Constant	12100.00	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2500.000
Organics	SVOCs	Anthracene	120127	Soil	BAFp	Constant	0.21	Plant	BAF=2.09	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2.090
Organics	SVOCs	Anthracene	120127	Soil	BAFi	Constant	0.30	Invertebrate	BAF=3.04	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	3.040
Organics	SVOCs	Anthracene	120127	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.000
Organics	SVOCs	Anthracene	120127	Sediment	BSAF	Constant	0.02	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	1.590
Organics	SVOCs	Anthracene	120127	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.102
Organics	SVOCs	Anthracene	120127	Surface Wate	BCFf	Constant	0.03	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2500.000
Organics	SVOCs	Benzo(a)anthracene	56553	Soil	BAFp	Regression	0.87	Plant	Cb=EXP(0.9469*LN(Csoil)-1.7026)	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	5.66	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.167
Organics	SVOCs	Benzo(a)anthracene	56553	Soil	BAFi	Constant	13.55	Invertebrate	BAF=2.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	5.66	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2.600
Organics	SVOCs	Benzo(a)anthracene	56553	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	5.66	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.000
Organics	SVOCs	Benzo(a)anthracene	56553	Sediment	BSAF	Constant	0.02	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			5.66	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	1.590

Table A-9.
Bioaccumulation and Bioconcentration Information Used to Develop Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	BAF Abbreviation	Type	Cbiota (mg/kg dw)	Taxa	Equation	Reference	Source Abbrev.	Notes	Log Kow	Log Kow Source	BCF (Cb/Csw) or BAF (Cb/Csoil) (unitless)
Organics	SVOCs	Benzo(a)anthracene	56553	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			5.66	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.021
Organics	SVOCs	Benzo(a)anthracene	56553	Surface Wate	BCFf	Constant	0.05	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			5.66	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2500.000
Organics	SVOCs	Benzo(a)pyrene	50328	Soil	BAFp	Regression	0.02	Plant	Cb=EXP(0.9469*LN(Csoil)-1.7026)	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.206
Organics	SVOCs	Benzo(a)pyrene	50328	Soil	BAFi	Constant	0.26	Invertebrate	BAF=2.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2.600
Organics	SVOCs	Benzo(a)pyrene	50328	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.000
Organics	SVOCs	Benzo(a)pyrene	50328	Sediment	BSAF	Constant	0.05	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Table C-6.			6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	1.590
Organics	SVOCs	Benzo(a)pyrene	50328	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.012
Organics	SVOCs	Benzo(a)pyrene	50328	Surface Wate	BCFf	Constant	0.04	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5, and Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb)			6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2500.000
Organics	SVOCs	Benzo(b)fluoranthene	205992	Soil	BAFp	Regression	8.77	Plant	Cb=EXP(0.9469*LN(Csoil)-1.7026)	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.12	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.147
Organics	SVOCs	Benzo(b)fluoranthene	205992	Soil	BAFi	Constant	155.48	Invertebrate	BAF=2.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.12	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2.600
Organics	SVOCs	Benzo(b)fluoranthene	205992	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.12	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.000
Organics	SVOCs	Benzo(b)fluoranthene	205992	Sediment	BSAF	Constant	0.04	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			6.12	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	1.590
Organics	SVOCs	Benzo(b)fluoranthene	205992	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			6.12	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.011
Organics	SVOCs	Benzo(b)fluoranthene	205992	Surface Wate	BCFf	Constant	22.68	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			6.12	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2500.000
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Soil	BAFp	Regression	16.82	Plant	Cb=EXP(0.9469*LN(Csoil)-1.7026)	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	0.141
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Soil	BAFi	Constant	309.40	Invertebrate	BAF=2.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	2.600
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	0.000
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Sediment	BSAF	Constant	0.27	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	1.590
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	0.012
Organics	SVOCs	Benzo(g,h,i)perylene	191242	Surface Wate	BCFf	Constant	19.10	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	2500.000
Organics	SVOCs	Benzo(k)fluoranthene	207089	Soil	BAFp	Regression	20.68	Plant	Cb=EXP(0.9469*LN(Csoil)-1.7026)	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	0.140
Organics	SVOCs	Benzo(k)fluoranthene	207089	Soil	BAFi	Constant	384.80	Invertebrate	BAF=2.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	2.600
Organics	SVOCs	Benzo(k)fluoranthene	207089	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	0.000

Table A-9.
Bioaccumulation and Bioconcentration Information Used to Develop Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	BAF Abbreviation	Type	Cbiota (mg/kg dw)	Taxa	Equation	Reference	Source Abbrev.	Notes	Log Kow	Log Kow Source	BCF (Cb/Csw) or BAF (Cb/Csoil) (unitless)
Organics	SVOCs	Benzo(k)fluoranthene	207089	Sediment	BSAF	Constant	0.04	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	1.590
Organics	SVOCs	Benzo(k)fluoranthene	207089	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	0.012
Organics	SVOCs	Benzo(k)fluoranthene	207089	Surface Wate	BCFf	Constant	22.68	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	2500.000
Organics	SVOCs	Chrysene	218019	Soil	BAFp	Regression	0.79	Plant	Cb=EXP(0.9469*LN(Csoil)-1.7026)	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	5.66	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.168
Organics	SVOCs	Chrysene	218019	Soil	BAFi	Constant	12.30	Invertebrate	BAF=2.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	5.66	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2.600
Organics	SVOCs	Chrysene	218019	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	5.66	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.000
Organics	SVOCs	Chrysene	218019	Sediment	BSAF	Constant	0.04	Aquatic Invertebrate	BAF=1.38	USEPA. 1999. SLERAP. Appendix C.			5.66	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	1.380
Organics	SVOCs	Chrysene	218019	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			5.66	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.021
Organics	SVOCs	Chrysene	218019	Surface Wate	BCFf	Constant	17.50	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			5.66	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2500.000
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Soil	BAFp	Regression	2.87	Plant	Cb=EXP(0.9469*LN(Csoil)-1.7026)	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.84	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.156
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Soil	BAFi	Constant	47.84	Invertebrate	BAF=2.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.84	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2.600
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.84	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.000
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Sediment	BSAF	Constant	0.01	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			6.84	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	1.590
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			6.84	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.004
Organics	SVOCs	Dibenz(a,h)anthracene	53703	Surface Wate	BCFf	Constant	12.50	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			6.84	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2500.000
Organics	SVOCs	Fluoranthene	206440	Soil	BAFp	Constant	0.21	Plant	BAF=2.09	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW. Pyrene and fluoranthene were treated as LMW PAHs for bioaccumulation because water solubility is higher than the other 4 ring PAHs, and their MW is at the cutoff of the LMW-HMW categories of 232	4.95	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2.090
Organics	SVOCs	Fluoranthene	206440	Soil	BAFi	Constant	0.30	Invertebrate	BAF=3.04	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW. Pyrene and fluoranthene were treated as LMW PAHs for bioaccumulation because water solubility is higher than the other 4 ring PAHs, and their MW is at the cutoff of the LMW-HMW categories of 232	4.95	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	3.040

Table A-9.
Bioaccumulation and Bioconcentration Information Used to Develop Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	BAF Abbreviation	Type	Cbiota (mg/kg dw)	Taxa	Equation	Reference	Source Abbrev.	Notes	Log Kow	Log Kow Source	BCF (Cb/Csw) or BAF (Cb/Csoil) (unitless)
Organics	SVOCs	Fluoranthene	206440	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW. Pyrene and fluoranthene were treated as LMW PAHs for bioaccumulation because water solubility is higher than the other 4 ring PAHs, and their MW is at the cutoff of the LMW-HMW categories of 232	4.95	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.000
Organics	SVOCs	Fluoranthene	206440	Sediment	BSAF	Constant	0.05	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			4.95	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	1.590
Organics	SVOCs	Fluoranthene	206440	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			4.95	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.053
Organics	SVOCs	Fluoranthene	206440	Surface Wate	BCFf	Constant	0.10	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			4.95	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2500.000
Organics	SVOCs	Fluorene	86737	Soil	BAFp	Constant	62.70	Plant	BAF=2.09	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2.090
Organics	SVOCs	Fluorene	86737	Soil	BAFi	Constant	91.20	Invertebrate	BAF=3.04	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	3.040
Organics	SVOCs	Fluorene	86737	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.000
Organics	SVOCs	Fluorene	86737	Sediment	BSAF	Constant	0.02	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	1.590
Organics	SVOCs	Fluorene	86737	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.102
Organics	SVOCs	Fluorene	86737	Surface Wate	BCFf	Constant	7.50	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2500.000
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Soil	BAFp	Regression	15.48	Plant	Cb=EXP(0.9469*LN(Csoil)-1.7026)	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.58	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.142
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Soil	BAFi	Constant	283.40	Invertebrate	BAF=2.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.58	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2.600
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs HMW	6.58	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.000
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Sediment	BSAF	Constant	0.03	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			6.58	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	1.590
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			6.58	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.006
Organics	SVOCs	Indeno(1,2,3-cd)pyrene	193395	Surface Wate	BCFf	Constant	10.78	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			6.58	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2500.000
Organics	SVOCs	Naphthalene	91203	Soil	BAFp	Constant	0.21	Plant	BAF=2.09	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	3.3	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2.090
Organics	SVOCs	Naphthalene	91203	Soil	BAFi	Constant	0.30	Invertebrate	BAF=3.04	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	3.3	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	3.040
Organics	SVOCs	Naphthalene	91203	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	3.3	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.000
Organics	SVOCs	Naphthalene	91203	Sediment	BSAF	Constant	0.02	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			3.3	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	1.590

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Bioaccumulation and Bioconcentration Information Used to Develop Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	BAF Abbreviation	Type	Cbiota (mg/kg dw)	Taxa	Equation	Reference	Source Abbrev.	Notes	Log Kow	Log Kow Source	BCF (Cb/Csw) or BAF (Cb/Csoil) (unitless)
Organics	SVOCs	Naphthalene	91203	Sediment	BSAF	Regression	0.01	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			3.3	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.479
Organics	SVOCs	Naphthalene	91203	Surface Wate	BCFf	Constant	2.75	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			3.3	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2500.000
Organics	SVOCs	PAHs	41	Soil	BAFp	Constant	2.09	Plant	BAF=2.09	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Use PAHs LMW for total. Higher BAFs from 1 to 1000 ppm.	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2.090
Organics	SVOCs	PAHs	41	Soil	BAFi	Constant	3.04	Invertebrate	BAF=3.04	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Use PAHs LMW for total. Higher BAFs from 1 to 1000 ppm.	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	3.040
Organics	SVOCs	PAHs	41	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	Use PAHs LMW for total. Higher BAFs from 1 to 1000 ppm.	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.000
Organics	SVOCs	PAHs	41	Sediment	BSAF	Constant	0.42	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	1.590
Organics	SVOCs	PAHs	41	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	0.012
Organics	SVOCs	PAHs	41	Surface Wate	BCFf	Constant	0.03	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	2500.000
Organics	SVOCs	PAHs HMW	34	Soil	BAFp	Regression	0.20	Plant	Cb=EXP(0.9469*LN(Csoil)-1.7026)	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs >202 MW	6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	0.181
Organics	SVOCs	PAHs HMW	34	Soil	BAFi	Constant	2.86	Invertebrate	BAF=2.6	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs >202 MW	6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	2.600
Organics	SVOCs	PAHs HMW	34	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs >202 MW	6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	0.000
Organics	SVOCs	PAHs HMW	34	Sediment	BSAF	Constant	0.30	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	1.590
Organics	SVOCs	PAHs HMW	34	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	0.012
Organics	SVOCs	PAHs HMW	34	Surface Wate	BCFf	Constant	0.04	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			6.1	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for benzo(a)pyrene.	2500.000
Organics	SVOCs	PAHs LMW	33	Soil	BAFp	Constant	60.61	Plant	BAF=2.09	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHS<202 MW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2.090
Organics	SVOCs	PAHs LMW	33	Soil	BAFi	Constant	88.16	Invertebrate	BAF=3.04	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHS<202 MW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	3.040
Organics	SVOCs	PAHs LMW	33	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHS<202 MW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.000
Organics	SVOCs	PAHs LMW	33	Sediment	BSAF	Constant	0.12	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	1.590
Organics	SVOCs	PAHs LMW	33	Sediment	BSAF	Regression	0.01	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.102
Organics	SVOCs	PAHs LMW	33	Surface Wate	BCFf	Constant	0.03	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2500.000
Organics	SVOCs	Phenanthrene	85018	Soil	BAFp	Constant	0.21	Plant	BAF=2.09	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2.090

Table A-9.
Bioaccumulation and Bioconcentration Information Used to Develop Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	BAF Abbreviation	Type	Cbiota (mg/kg dw)	Taxa	Equation	Reference	Source Abbrev.	Notes	Log Kow	Log Kow Source	BCF (Cb/Csw) or BAF (Cb/Csoil) (unitless)
Organics	SVOCs	Phenanthrene	85018	Soil	BAFi	Constant	0.30	Invertebrate	BAF=3.04	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	3.040
Organics	SVOCs	Phenanthrene	85018	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.000
Organics	SVOCs	Phenanthrene	85018	Sediment	BSAF	Constant	0.03	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	1.590
Organics	SVOCs	Phenanthrene	85018	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.102
Organics	SVOCs	Phenanthrene	85018	Surface Wate	BCFf	Constant	1.00	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2500.000
Organics	SVOCs	Pyrene	129000	Soil	BAFp	Constant	0.21	Plant	BAF=2.09	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW. Pyrene and fluoranthene were treated as LMW PAHs for bioaccumulation because water solubility is higher than the other 4 ring PAHs, and their MW is at the cutoff of the LMW-HMW categories of 232	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2.090
Organics	SVOCs	Pyrene	129000	Soil	BAFi	Constant	0.30	Invertebrate	BAF=3.04	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW. Pyrene and fluoranthene were treated as LMW PAHs for bioaccumulation because water solubility is higher than the other 4 ring PAHs, and their MW is at the cutoff of the LMW-HMW categories of 232	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	3.040
Organics	SVOCs	Pyrene	129000	Soil	BAFm	Constant	0.00	Mammal	BAF=0	United States Environmental Protection Agency (USEPA). 2007. Ecological Soil Screening Levels fo Polycyclic Aromatic Hydrocarbons (PAHs). Interim Final. http://www.epa.gov/ecotox/ecossl/.	Eco SSL	PAHs LMW. Pyrene and fluoranthene were treated as LMW PAHs for bioaccumulation because water solubility is higher than the other 4 ring PAHs, and their MW is at the cutoff of the LMW-HMW categories of 232	4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.000
Organics	SVOCs	Pyrene	129000	Sediment	BSAF	Constant	0.07	Aquatic Invertebrate	BAF=1.59	USEPA. 1999. SLERAP. Appendix C. Use Benzo(a)pyrene			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	1.590
Organics	SVOCs	Pyrene	129000	Sediment	BSAF	Regression	0.00	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	0.102
Organics	SVOCs	Pyrene	129000	Surface Wate	BCFf	Constant	0.06	Fish	BCF=500*5 wwb to dwb	USEPA. 1999. SLERAP. Appendix C. Table C-5&Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb). Use benzo(a)pyrene as surrogate.			4.46	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for phenanathrene.	2500.000
Organics	VOCs	Benzene	71432	Soil	BAFp	NA	NV	Plant	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		2.13	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	NV
Organics	VOCs	Benzene	71432	Soil	BAFi	NA	NV	Invertebrate	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		2.13	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	NV
Organics	VOCs	Benzene	71432	Soil	BAFm	NA	NV	Mammal	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		2.13	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	NV
Organics	VOCs	Benzene	71432	Sediment	BSAF	Regression	0.23	Aquatic Invertebrate	BAF =10^(0.819*Log Kow-1.146)	USEPA. 1999. SLERAP. Appendix C. Table C-6.			2.13	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	3.967
Organics	VOCs	Benzene	71432	Sediment	BSAF	Regression	0.13	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			2.13	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	2.274
Organics	VOCs	Benzene	71432	Surface Wate	BCFf	Regression	0.001	Fish	BCF=10^(0.91*log Kow-1.975*log(6.88	USEPA. 1999. SLERAP. Appendix C. Table C-5, and Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb)			2.13	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	70.989
Organics	VOCs	Ethylbenzene	100414	Soil	BAFp	NA	NV	Plant	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		3.15	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	NV

Table A-9.
Bioaccumulation and Bioconcentration Information Used to Develop Receptor Group ERBSCs.

Analyte Type	Analyte Category	Analyte Name	CAS	Medium	BAF Abbreviation	Type	Cbiota (mg/kg dw)	Taxa	Equation	Reference	Source Abbrev.	Notes	Log Kow	Log Kow Source	BCF (Cb/Csw) or BAF (Cb/Csoil) (unitless)
Organics	VOCs	Ethylbenzene	100414	Soil	BAFi	NA	NV	Invertebrate	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		3.15	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	NV
Organics	VOCs	Ethylbenzene	100414	Soil	BAFm	NA	NV	Mammal	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		3.15	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	NV
Organics	VOCs	Ethylbenzene	100414	Sediment	BSAF	Regression	4.75	Aquatic Invertebrate	BAF =10^(0.819*Log Kow-1.146)	USEPA. 1999. SLERAP. Appendix C. Table C-6.			3.15	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	27.155
Organics	VOCs	Ethylbenzene	100414	Sediment	BSAF	Regression	0.10	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			3.15	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	0.585
Organics	VOCs	Ethylbenzene	100414	Surface Wate	BCFf	Regression	0.007	Fish	BCF=10^(0.91*log Kow-1.975*log(6.88	USEPA. 1999. SLERAP. Appendix C. Table C-5, and Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb)			3.15	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	600.685
Organics	VOCs	Toluene	108883	Soil	BAFp	NA	NV	Plant	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		2.73	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	NV
Organics	VOCs	Toluene	108883	Soil	BAFi	NA	NV	Invertebrate	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		2.73	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	NV
Organics	VOCs	Toluene	108883	Soil	BAFm	NA	NV	Mammal	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		2.73	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	NV
Organics	VOCs	Toluene	108883	Sediment	BSAF	Regression	0.61	Aquatic Invertebrate	BAF =10^(0.819*Log Kow-1.146)	USEPA. 1999. SLERAP. Appendix C. Table C-6.			2.73	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	12.299
Organics	VOCs	Toluene	108883	Sediment	BSAF	Regression	0.05	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			2.73	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	1.023
Organics	VOCs	Toluene	108883	Surface Wate	BCFf	Regression	0.100	Fish	BCF=10^(0.91*log Kow-1.975*log(6.88	USEPA. 1999. SLERAP. Appendix C. Table C-5, and Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb)			2.73	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls	249.435
Organics	VOCs	Xylene	1330207	Soil	BAFp	NA	NV	Plant	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		3.2	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for m-xylene	NV
Organics	VOCs	Xylene	1330207	Soil	BAFi	NA	NV	Invertebrate	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		3.2	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for m-xylene	NV
Organics	VOCs	Xylene	1330207	Soil	BAFm	NA	NV	Mammal	NV	United States Environmental Protection Agency (USEPA). 2011. Ecological Soil Screening Levels http://www.epa.gov/ecotox/ecossl/.	Eco SSL		3.2	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for m-xylene	NV
Organics	VOCs	Xylene	1330207	Sediment	BSAF	Regression	0.75	Aquatic Invertebrate	BAF =10^(0.819*Log Kow-1.146)	USEPA. 1999. SLERAP. Appendix C. Table C-6.			3.2	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for m-xylene	29.840
Organics	VOCs	Xylene	1330207	Sediment	BSAF	Regression	0.01	Aquatic Plant	BAF =10^(1.588-0.578*Log(Kow))	USEPA. 1999. SLERAP. Appendix C. Equation C-1-2.			3.2	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for m-xylene	0.548
Organics	VOCs	Xylene	1330207	Surface Wate	BCFf	Regression	0.017	Fish	BCF=10^(0.91*log Kow-1.975*log(6.88	USEPA. 1999. SLERAP. Appendix C. Table C-5, and Table C-5 footnote a for conversion factor for wet weight (wwb) to dry weight (dwb)			3.2	USEPA. 2004 Worksheet to Calculate Dermal Absorption of Organic Chemicals from Aqueous Media (latest version 04/01)ORG04.xls. Value for m-xylene	666.878

Notes:

Fish wwb-to dwb - If the values reported in the studies were presented as wet tissue weight, they were converted to dry weight by multiplying the concentration in wet fish tissue weight by 5.0 assuming fish are is 80.0 percent water (USEPA SLERAP Table C-5, Footnote a). Conversion factor=1.0 g fish total weight/(1.0 g fish total weight - 0.80 g fish wet weight)

Regardless of media type (Column E), column H calculates tissue concentrations in typical prey or forage items from their dominant contact media (Column E). The taxa column is the name of the prey/forage type, the concentration of which is then used to calculate the dietary uptake for the RGERBSC.

BAFp - Bioaccumulation factor for plants
BAF - Bioaccumulation factor
BAFi - Bioaccumulation factor for invertebrates
BAFm - Bioaccumulation factor for mammals
BCF - Bioconcentration factor
BCF or BAF (Column P) - if BAF or BCF is predicted by a regression equation dependent on the media concentration, this column shows the BAF or BCF at the MERBSC media concentration (Table 1) (lowest for each medium excluding Step 3c values)
BSAF - Biota sediment accumualtion factor
dwb - dry weight basis
HMW - High molecular weight
Kow - Octanol water partition coefficient
LMW - Low molecular weight
NV - No values
ORNL - Oak Ridge National Laboratory
PAH - Polynuclear aromatic hydrocarbon
SLERAP - Screening Level Ecological Risk Assessment Protocol (USEPA, 1999)
USEPA - United States Environmental Protection Agency
wwb - wet weight basis

Table A-10.
Database for the Development of Receptor Life History Information for Representative Wyoming Receptors.

Common Name		American Robin	Rock Dove	Western Kingbird	American Kestrel	Red-Tailed Hawk	Horned Lark	Western Meadow Lark	Greater Sage Grouse	Loggerhead Shrike	Canada Goose
Latin Name		*(Turdus migratorius)*	*(Columba livia)*	*(Tyrannus verticalis)*	*(Falco sparverious)*	*(Buteo jamaicensis)*	*(Eremophila alpestris)*	*(Sturnella neglecta)*	*(Centrocercus urophasianus)*	*(Lanius ludovicianus)*	*(Branta canadensis)*
Habitat		Upland	Upland	Upland	Upland	Upland	Upland	Upland	Upland	Upland	Aquatic
Feeding Guild		Avian Omnivore	Avian Herbivore	Avian Insectivore	Avian Carnivore	Avian Carnivore	Avian Herbivore	Avian Omnivore	Avian Herbivore	Avian Carnivore/Invsectivor	Avian Herbivore
Dietary Ingestion Rate (kg/kg/d)	**DIR (Minimum BW)**	0.207	0.072	0.234	0.094	0.054	0.238	0.203	0.050	0.226	0.084
	DIR (Maximum BW)	0.204	0.067	0.226	0.088	0.052	0.237	0.196	0.041	0.221	0.031
	DIR 95th Percentile	0.207	0.072	0.233	0.094	0.054	0.238	0.203	0.049	0.225	0.082
	Allometric Equation for DIR:	=0.398*BW^0.850/BW	=0.301*BW^0.751/BW	=0.398*BW^0.850/BW	=0.301*BW^0.751/BW	=0.301*BW^0.751/BW	=0.398*BW^0.850/BW	=0.398*BW^0.850/BW	=0.301*BW^0.751/BW	=0.398*BW^0.850/BW	=0.301*BW^0.751/BW
		BW in g	BW in g	BW in g	BW in g	BW in g	BW in g	BW in g	BW in g	BW in g	BW in g
	Equation for:	passerine	nonpasserine	passerine	nonpasserine	nonpasserine	passerine	passerine	nonpasserine	passerine	nonpasserine
	Equation Source:	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)
Water Ingestion Rate (L/kg-d)	**WIR (Minimum BW)**	0.137	0.087	0.179	0.123	0.060	0.186	0.131	0.053	0.165	0.107
	WIR (Maximum BW)	0.132	0.079	0.165	0.113	0.056	0.184	0.122	0.042	0.158	0.029
	WIR 95th Percentile	0.137	0.087	0.178	0.122	0.060	0.186	0.130	0.052	0.165	0.103
		=0.059BW^0.67 /BW	=0.059BW^0.67 /BW	=0.059BW^0.67 /BW	=0.059BW^0.67 /BW	=0.059BW^0.67 /BW	=0.059BW^0.67 /BW	=0.059BW^0.67 /BW	=0.059BW^0.67 /BW	=0.059BW^0.67 /BW	=0.059BW^0.67 /BW
		BW in kg	BW in kg	BW in kg	BW in kg	BW in kg	BW in kg	BW in kg	BW in kg	BW in kg	BW in kg
Body Weight	**birds=g; mammals=kg**	77.3 86.2 83.6 77.4 80.6 BW for robin; adult all studies (USEPA 1993)	330.4 305.3 407.6 374.7 Dunning (1993)	34.9 44.1 Dunning (1993)	124 127 138 108 111 119 Utah (USEPA 1993)	957.0 1154.0 SW Idaho data (USEPA 1993)	31.9 30.8 Dunning (1993)	112.0 89.4 Dunning (1993)	1400 2900 Cornell (2011)	44.1 50.5 Dunning (1993)	3000 9000 Cornell, 2005 2769 2472 M,F winter Colorado USEPA, 1993 167 avg juvenile birth to 10 day 761 avg juvenile >10 to 30 day 1750 avg juvenile >30 day USEPA (1993)
Home Range/Territory Size (ha)	**Note: for ERBSCs these values were not used. The ERBSC represents a concentration assuming 100% exposure.**	0.15 0.81 0.42 0.11 0.21 Foraging home range & territory. All deciduous USEPA (1993)	259.01 2590.08 Home Range Connecticut Dept. of Environmental Protection, 2004	16 Territory Hespenheide,1964	41 500 Wyoming grasslands and forests USEPA (1993)	233 233 Mean Territory Preston and Beane, 1993	0.6 3.2 Beason and Franks, 1974	1.2 6.1 2.8 3.2 CDFG. 2005d Breeding home range essentially same as territory	14000 winter home range 270000 annual home range 1100 3100 300 700 nonmigratory populations Connelly et al. (2000)	4.5 16 12.6 Colorado: 77 nests, and each of 77 nests were at least 400 m apart. Assuming the HR is a circle with an area A of A=pi r^2, and to be 400 m apart the radius of each would be 200 m, the area of each HR would be pi*200*200 = 125664 m2. Converting to ha yields 12.6 ha (CDFG. 2005e)	2.7 - 137 m (assume a square; thus median is 70 m x 70 m or 4879 m2; convert to ha) = 0.5 1.6 - 8 km(assume a square; thus median is 4.8 km x 4.8 km or 23 km2; convert to ha) = 2300 Breeding/nesting territory CDFG, 2005a 983 Female&brood USEPA (1993)
Soil Fraction in Diet	**SFD (unitless)**	0.1 Use value for woodcock Beyer et al. (1994)	0.1 Use value for woodcock Beyer et al. (1994)	0.1 Use value for woodcock Beyer et al. (1994)	0.028 Use red fox as in same guild Beyer et al. (1994)	0.028 Use red fox as in same guild Beyer et al. (1994)	0.1 Use value for woodcock Beyer et al. (1994)	0.1 Use value for woodcock Beyer et al. (1994)	0.1 Use value for woodcock Beyer et al. (1994)	0.1 Use value for woodcock Beyer et al. (1994)	0.082 Beyer et al., 1994
Dietary Fraction	**(unitless)**	Use data for west 17-70% plants 30-83% invertebrate. Varies by season; Assume evenly distributed at 50/50	Herbivore Sibley, 2001	Flycatcher; consumes mostly insects but will eat some fruit (Gamble and Bergin, 1996)	Assume evenly distributed at 33% each invertebrate, bird, mammal prey	0.5 mammals, 0.5 birds Carnivore Johnsgard, 1990	Eats insects, snails, and spiders during breeding season; adds grass and forb seeds and other plant matter to diet at other seasons. Walks along ground, searching for food (CDFG. 2005f). Adults eat seeds; feed insects to young (Beason, 1995). Additional information: http://www.mbr-pwrc.usgs.gov/id/framlst/i4740id.html	Annual diet 63% animal matter, mostly insects, spiders, sowbugs, snails 37% grass and forb seeds and grains Animal matter forms 96% of diet in summer, but only 45% in winter (CDFG. 2005d)	Leaves, buds, stems, flowers, fruit, and insects (Cornell, 2011)	Eats mostly large insects; also takes small birds, mammals, amphibians, reptiles, fish, carrion, and various other invertebrates (CDFG. 2005e). Model as invertivore or carnivore/omnivore.	Plant matter Palmer and Fowler, 1975

Notes: All data from USEPA (1993), Wildlife Exposure Factors Handbook, unless otherwise stated
- Shaded cells indicate parameter estimated with allometric equations from USEPA (1993)
- Other data are measurements from captive, free-living, or laboratory kept animals

Table A-10.
Database for the Development of Receptor Life History Information for Representative Wyoming Receptors.

Common Name		**Spotted Sandpiper**	**Western Sandpiper**	**Belted Kingfisher**	**Mallard Duck**	**Wilsons Phalarope**	**American Avocet**	**Red-Winged Blackbird**	**Northern Harrier**	**Beaver**	**Badger**
Latin Name		*(Actitis macularius)*	*(Calidris mauri)*	*(Ceryle alcyon)*	*(Anas platyrhynchos)*	*(Phalaropus tricolor)*	*(Recurvirostra americana)*	*(Agelaius phoeniceus)*	*(Circus cyaneus)*	*(Castor canadensis)*	*(Taxidea taxus)*
Habitat		Aquatic	Aquatic	Aquatic	Aquatic	Aquatic	Aquatic	Aquatic	Riparian	Riparian	Upland
Feeding Guild		Avian Insectivore	Avian Insectivore	Avian Piscivore	Avian Herbivore	Avian Insectivore	Avian Insectivore	Avian Omnivore	Avian Carnivore	Mammalian Herbivore	Mammalian Carnivore
Dietary Ingestion Rate (kg/kg/d)	**DIR (Minimum BW)**	0.125	0.147	0.166	0.055	0.115	0.074	0.237	0.072	0.037	0.050
	DIR (Maximum BW)	0.114	0.129	0.084	0.051	0.103	0.070	0.207	0.062	0.031	0.043
	DIR 95th Percentile	0.125	0.146	0.162	0.054	0.114	0.074	0.235	0.071	0.037	0.050
	Allometric Equation for DIR:	=0.301*BW^0.751/BW	=0.301*BW^0.751/BW	=0.301*BW^0.751/BW	=0.301*BW^0.751/BW	=0.301*BW^0.751/BW	=0.301*BW^0.751/BW	=0.398*BW^0.850/BW	=0.301*BW^0.751/BW	=0.577BW^0.727/ BW	=0.235BW^0.822/ BW
		BW in g	BW in g	BW in g	BW in g	BW in g	BW in g	BW in g	BW in g	BW in g	BW in g
	Equation for:	nonpasserine	nonpasserine	nonpasserine	nonpasserine	nonpasserine	nonpasserine	passerine	nonpasserine	herbivore equation	all mammals
	Equation Source:	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)
Water Ingestion Rate (L/kg-d)	**WIR (Minimum BW)**	0.180	0.222	0.261	0.060	0.161	0.090	0.184	0.086	0.072	0.083
	WIR (Maximum BW)	0.159	0.188	0.106	0.055	0.139	0.083	0.138	0.071	0.068	0.076
	WIR 95th Percentile	0.179	0.220	0.254	0.060	0.160	0.090	0.181	0.085	0.072	0.082
		=0.059BW^0.67 /BW	=0.059BW^0.67 /BW	=0.059BW^0.67 /BW	=0.059BW^0.67 /BW	=0.059BW^0.67 /BW	=0.059BW^0.67 /BW	=0.059BW^0.67 /BW	=0.059BW^0.67 /BW	=0.099BW^0.9/BW	=0.099BW^0.9/BW
		BW in kg	BW in kg	BW in kg	BW in kg	BW in kg	BW in kg	BW in kg	BW in kg	BW in kg	BW in kg
Body Weight	**birds=g; mammals=kg**	34 50 Cornell, 2005 47.1 37.9 Adult, F&M, spring (USEPA) 1993	18 30 Dunning (1993) Birds from California	113 170 Palmer and Fowler (1975) 148 136 158 11 avg at hatching (USEPA) 1993 148 fledging (USEPA, 1993) 169 fledging (USEPA, 1993)	953 1211 Dunning (1993)	47.7 61 55.9 75.2 Dunning (1993)	275 350 Cornell (2008)	32 77 Cornell (2011)	318.1 458.4 397.9 567.6 Dunning (1993)	23 45 WDGF 1993	6 14 8.4 6.4 Fitzgerald et al. (1994)
Home Range/Territory Size (ha)	**Note: for ERBSCs these values were not used. The ERBSC represents a concentration assuming 100% exposure.**	1.06 1.8 3.2 Breeding home range (CDFG, 2005b) 0.25 USEPA (1993)	 Use spotted sandpiper information	1 km (assume a square; 1 km2; convert to ha) = 100 Breeding territory Cornell, 2005 2.19 1.03 1.03 0.39 USEPA (1993)	210 240 CDFG. 2005g 468+-159 307-719 USEPA (1993)	0.6 0.07 Feeds in areas away from nest site CDFG. 2005c	3300.0 200 Post breeding=3300 ha Preincubation = 1300 ha Incubation = 400 ha Brood-rearing = 200 ha Demers, 2007 Space use varies by reproductive state.	 Varies widely. May travel 50 miles to feed in winter (12949 ha=50 mi2); remain in breeding wetland in summer Cornell (2011)	429 405 Data for Michigan (405 ha) and Utah (429 ha) CDFG. 2005h	Can exceed 1 mile along stream length typically within 300' of water - requires 1/2 square mile for long-term occupancy (WDGF 1993). 0.5*258.998811 = 129.5 ha	130 237 800 170 583 Fitzgerald et al., 1994 Various locations
Soil Fraction in Diet	**SFD (unitless)**	0.2 Avg of all sandpipers (Beyer et al., 1994)	0.2 Avg of all sandpipers (Beyer et al., 1994)	0.2 Avg of all sandpipers (Beyer et al., 1994)	0.02 Reported as <2% (Beyer et al., 1994)	0.2 Avg of all sandpipers (Beyer et al., 1994)	0.2 Avg of all sandpipers (Beyer et al., 1994)	0.1 Use value for woodcock Beyer et al. (1994)	0.028 Use red fox(Beyer et al., 1994) as in same feeding guild.	0.094 Use raccoon (Beyer et al., 1994) as live in similar habitat and forage along riparian areas	0.028 Use red fox(Beyer et al., 1994) as in same feeding guild.
Dietary Fraction	**(unitless)**	Invertebrates Assume all aquatic, although in fact will also eat terrestrial Cornell, 2005	 Invertebrates. Assume all aquatic Cornell (2011)	Primarily fish Palmer and Fowler, 1975	About 90% of diet is plant material mostly grains, seeds and leaves of aquatic plants, grasses, and other green vegetation. 10% aquatic insects, snails, small crustaceans, earthworms, tadpoles, and small fish (CDFG. 2005g)	Insects, Aquatic Invertebrates Seeds insects (mosquitoes, leaf beetles, pill bugs) and small crustaceans, larval dytiscid and hydrophilid beetles, midge and mosquito larvae, and hemipterans) (Palmer and Fowler, 1975; CDFG. 2005c).	 Aquatic invertebrates (Cornell, 2008)	 Eat insects during summer, seeds including grains in winter. Cornell (2011)	 Animal matter: mammals , birds, insects, game (Palmer, E.L., and H.S. Fowler. 1975)	 Vegetation, bark WDGF 1993	Varies with age of animal and also by season, locality Eat rodents, birds, eggs, and invertebrates Assume evenly distributed

Notes: All data from USEPA (1993), Wil
- Shaded cells indicate parameter estim
- Other data are measurements from ca

Table A-10.
Database for the Development of Receptor Life History Information for Representative Wyoming Receptors.

Common Name		**Deer Mouse**	**Eastern Cottontail**	**Desert Cottontail**	**Grasshopper Mouse**	**Long-tailed Weasel**	**Meadow Vole**	**Mink**	**Masked Shrew**	**Ord's Kangaroo Rat**
Latin Name		*(Peromyscus maniculatus)*	*(Sylvilagus floridanus)*	*(Sylvilagus audubonii)*	*(Onychomys leucogaster)*	*(Mustela frenata)*	*(Microtus pennsylvanicus)*	*(Mustela vison)*	*(Sorex cinereous)*	*(Dipodomys ordi)*
Habitat		Upland	Upland	Upland	Upland	Upland	Riparian	Riparian	Upland	Upland
Feeding Guild		Mammalian Omnivore	Mammalian Herbivore	Mammalian Herbivore	Mammalian Carnivore	Mammalian Carnivore	Mammalian Herbivore	Mammalian Piscivore	Mammalian Insectivore	Mammalian Herbivore
Dietary Ingestion Rate (kg/kg/d)	**DIR (Minimum BW)**	0.192	0.106	0.101	0.153	0.400	0.168	0.077	0.193	0.111
	DIR (Maximum BW)	0.160	0.078	0.083	0.141	0.200	0.124	0.047	0.171	0.085
	DIR 95th Percentile	0.190	0.104	0.100	0.152	0.390	0.166	0.076	0.192	0.110
	Allometric Equation for DIR:	=0.621BW^0.564/BW BW in g	=0.577BW^0.727/ BW BW in g	=0.577BW^0.727/ BW BW in g	=0.621BW^0.564/BW BW in g	Dietary needs are 20-40% of body wieght daily, or about 50% higher than other mammals, or 0.2 to 0.4	=0.621BW^0.564/BW BW in g	=0.235BW^0.822/ BW BW in g	=0.235BW^0.822/ BW BW in g	=0.621BW^0.564/BW BW in g
	Equation for:	rodents	herbivore equation	herbivore equation	rodents	weasel-specific	rodents	all mammals	all mammals	rodents
	Equation Source:	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	Fitzgerald et al. (1994)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)
Water Ingestion Rate (L/kg-d)	**WIR (Minimum BW)**	0.151	0.106	0.104	0.143	0.123	0.146	0.106	0.177	0.133
	WIR (Maximum BW)	0.145	0.095	0.097	0.141	0.112	0.137	0.080	0.165	0.125
	WIR 95th Percentile	0.151	0.106	0.104	0.143	0.123	0.146	0.104	0.176	0.133
		=0.099BW^0.9/BW BW in kg	=0.099BW^0.9/BW BW in kg	=0.099BW^0.9/BW BW in kg	=0.099BW^0.9/BW BW in kg	=0.099BW^0.9/BW BW in kg	=0.099BW^0.9/BW BW in kg	=0.099BW^0.9/BW BW in kg	=0.099BW^0.9/BW BW in kg	=0.099BW^0.9/BW BW in kg
Body Weight	**birds=g; mammals=kg**	0.022 0.020 0.0157 0.0148 0.0223 0.0211 0.0196 0.0203 USEPA (1993)	0.5 1.5 Fitzgerald et al. (1994)	0.6 1.2 USEPA (1993)	0.025 0.030 Stapp (1999)	0.1 0.3 Fitzgerald et al. (1994) Calculate DIR in kg/kg-d as minimum BW*0.2/minimum BW, and maximum BW*0.4/maximum BW	0.02 0.04 USEPA (1993)	0.78 0.525 Fitzgerald et al. (1994) 2.3 1.04 0.777 1.233 0.952 0.55 0.533 0.586 0.582 8 Adult, juv, neonate Western, MT, &NS. USEPA (1993)	0.003 0.006 Montana Field Guide (2011)	0.052 Smithsonian (2009) 0.055 0.096 McCulloch (1961) 0.055 0.085 NDIS (2009)
Home Range/Territory Size (ha)	**Note: for ERBSCs these values were not used. The ERBSC represents a concentration assuming 100% exposure.**	0.039 0.027 0.019 0.014 Utah Summer and winter values EPA, 1993 0.015 0.026 Fitzgerald et al., 1994	3.05 2.99 2.80 4 1.5 1.7 0.8 Wisconsin USEPA (1993)	3.05+-0.72 M 2.99+-0.28 F data for eastern cottontail USEPA (1993)	2.4 3.2 1.7 3.7 Data for Southern Grasshopper Mouse (O. torridus) (Stapp 1999) 2.3 Data for Northern Grasshopper Mouse (Stapp 1999)	85 125 10 24 12 16 Fitzgerald et al. (1994)	0.016 0.35 160-3,500 sq m Fitzgerald et al., 1994.p. 283	8 20 1626 Fitzgerald et al., 1994 770 259 380 ND, Canada prairie USEPA (1993 7.8 20.4 MT riverine habitat USEPA (1993)	0.100 0.360 0.100 1.8 0.07 0.1 0.39 0.03 0.22 Short-tailed shrew, all data Habitat coniferous forest USE{A (1993)	0.620 0.43 0.200 0.22 0.44 1.32 1.36 Garrison and Best, 1990
Soil Fraction in Diet	**SFD (unitless)**	0.02 Use white-footed mouse <2% (Beyer et al., 1994)	0.063 Arthur and Gates (1988) Use jackrabbit data	0.063 Arthur and Gates (1988) Use jackrabbit data	0.028 Use red fox as most similar	0.028 Use red fox as most similar	0.024 Beyer et al. (1994)	0.094 Use raccoon as live in similar habitat and forage along riparian areas	0.028 Use red fox as most similar	0.02 Use white-footed mouse <2% (Beyer et al., 1994)
Dietary Fraction	**(unitless)**	Assume evenly apportioned between plants and invertebrates	All plants USEPA (1993)	Herbivore Fitzgerald et al., 1994	Animals, including invertebrates and vertebrates (Stapp 1999)	Small mammals (50-80%), birds including eggs of grouse and waterfowl, reptiles (Fitzgerald et al. 1994)	Green plant material during warmer months: clover, alfalfa,dandelions. During winter: dried grass, bark, twigs and buds. Eats more grasses and sages than other voles (Fitzgerald et al. 1994)	Carnivore Fitzgerald et al., 1994 50% birds, 50% trout Based on data from praiires, MI rivers EPA, 1993	Insectivore shrews eat mostly invertebrates, salamanders, small mice Montana Field Guide (2011)	Assume evenly apportioned between plants and invertebrates

Notes: All data from USEPA (1993), Wil
- Shaded cells indicate parameter estim
- Other data are measurements from ca

Table A-10.
Database for the Development of Receptor Life History Information for Representative Wyoming Receptors.

Common Name		Prairie Vole	Pronghorn	Raccoon	River Otter	Mule Deer	Swift Fox	Red Fox	Coyote
Latin Name		*(Microtus ochrogaster)*	*(Antilocapra americana)*	*(Procyon lotor)*	*(Lutra canadensis)*	*(Odocoileus hemionus)*	*(Vulpes velox)*	*(Vulpes fulva)*	*(Canis latrans)*
Habitat		Upland	Upland	Riparian	Riparian	Upland	Upland	Upland	Upland
Feeding Guild		Mammalian Herbivore	Mammalian Herbivore	Mammalian Omnivore	Mammalian Piscivore	Mammalian Herbivore	Mammalian Carnivore	Mammalian Carnivore	Mammalian Carnivore
Dietary Ingestion Rate (kg/kg/d)	**DIR (Minimum BW)**	0.113	0.035	0.109	0.052	0.027	0.059	0.073	0.049
	DIR (Maximum BW)	0.095	0.027	0.048	0.043	0.021	0.059	0.051	0.037
	DIR 95th Percentile	0.112	0.034	0.106	0.051	0.027	0.059	0.072	0.048
	Allometric Equation for DIR:	=0.621BW^0.564/BW BW in g	=0.577BW^0.727/ BW BW in g	=0.235BW^0.822/ BW BW in g	=0.235BW^0.822/ BW BW in g	=0.577BW^0.727/ BW BW in g	=0.235BW^0.822/ BW BW in g	=0.235BW^0.822/ BW BW in g	=0.235BW^0.822/ BW BW in g
	Equation for:	rodents	herbivore equation	All mammals	All mammals	herbivore equation	all mammals	all mammals	all mammals
	Equation Source:	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)	USEPA (1993)
Water Ingestion Rate (L/kg-d)	**WIR (Minimum BW)**	0.134	0.070	0.128	0.084	0.065	0.091	0.103	0.081
	WIR (Maximum BW)	0.128	0.065	0.081	0.076	0.058	0.091	0.084	0.070
	WIR 95th Percentile	0.133	0.070	0.126	0.084	0.064	0.091	0.102	0.081
		=0.099BW^0.9/BW BW in kg	=0.099BW^0.9/BW BW in kg	=0.099BW^0.9/BW BW in kg	=0.099BW^0.9/BW BW in kg	=0.099BW^0.9/BW BW in kg	=0.099BW^0.9/BW BW in kg	=0.099BW^0.9/BW BW in kg	=0.099BW^0.9/BW BW in kg
Body Weight	**birds=g; mammals=kg**	0.05 0.08 Fitzgerald et al. (1994)	30 70.00 Fitzgerald et al. (1994)	1.5 2.2 Fitzgerald et al. (1994) 7.6 6.400 6 5.100 4.8 6.76 5.74 4.31 3.67 0.075 Adult, juv, neonate All areas; USEPA (1993)	5 14 Fitzgerald et al. (1994)	70 200 Fitzgerald et al. (1994)	2.4 2.3 Dark-Smiley and Keinath (2003)	0.7 5.25 weanling to adult Fitzgerald et al. (1994)	9 22 USEPA (1993) 34 7 20 Fitzgerald et al. (1994)
Home Range/Territory Size (ha)	**Note: for ERBSCs these values were not used. The ERBSC represents a concentration assuming 100% exposure.**	0.1 0.3 Home Range Fitzgerald et al., 1994	165.0 2300.0 home range 25.0 440 male territories Fitzgerald et al. (1994)	5 2560 806 Fitzgerald et al., 1994 2560 806 Adult M, F, spring& summer North Dakota prairie USEPA (1993)	2-78 km long; mean 32 km in Colorado Fitzgerald et al. (1994) Assume stay within 10 m (0.01 km) of water 2 78 32	few hundred acres to one square mile Olson (1992)	518 1296 1170 770 Home range Short to midgrass prairie Dark-Smiley and Keinath (2003)	1611 1967 1137 699 717 96 Home Range Various locations (USEPA, 1993)	1130 14,300 10,600 Mean 143 km2 Central WA; mean 11.3 km2 resident and 106 km2 transient Southeastern CO (Fitzgerald et al., 1994.p. 304)
Soil Fraction in Diet	**SFD (unitless)**	0.02 Use white-footed mouse <2% (Beyer et al., 1994)	0.063 Arthur and Gates (1988) Use jackrabbit data	0.094 Beyer et al. (1994)	0.094 Use raccoon as live in similar habitat and forage along riparian areas	0.063 Arthur and Gates (1988) Use jackrabbit data	0.028 Use value for red fox as in same guild; Beyer et al., 1994	0.028 Beyer et al., 1994	0.028 Use red fox as in same guild (Beyer et al., 1994)
Dietary Fraction	**(unitless)**	Sage, saltbrush winterfat, rabbitbrush goosefoot, dandelions grasses, forbs, woody plants Fitzgerald et al., 1994	Browse 64%, > 70 % in fall/winter; forbs/grasses the remainder in northern part of range. Fitzgerald et al. (1994)	27% animal (13% insects) 73% plant Fitzgerald et al., 1994 Assume 27% animal matter is benthic invertebrates	Fish, crustaceans. Fish 100% of diet in winter in Northern Rockies (Fitzgerald et al. (1994))	Herbivore Fitzgerald et al., 1994	Small mammals, birds, invertebrates, and some vegetable matter and fruit Dark-Smiley and Keinath (2003)	Nebraska data the most western available Also eat fruit, berries, nuts Presume primarily carnivorous (USEPA, 1993)	Carnivore (90% animal matter) (Fitzgerald et al., 1994)

Notes: All data from USEPA (1993), Wil
- Shaded cells indicate parameter estim
- Other data are measurements from ca