Table 5.1-2 Screening of COIs by in-river media for discussion and presentation in RI

	Detected In-river Media						BRA		Screen 1		Screen 2		
Detected Analytes	Surface Sediment	Subsurface Sediment	Sediment Traps	Surface Water	TZW	Biota	BHHRA SCREEN[1]	BERA SCREEN[2]	Screening Code	Contaminant	Screening Code	Indicator Contaminants	Note: The notes below are not part of the table. Prvided here for discussion with EPA
Butyltins													
Butyltin ion	X	X	X	X	X	X			1				
Dibutyltin dichloride	X								1				
Dibutyltin ion	X	X	X	X	X	X			1				
Monobutyltin trichloride	X							~~X~~	3, 7				Note: Not in BERA or SLERA.
Tetrabutyltin	X	X	X						1				
Tributyltin	X	X						X	3, 4				
Tributyltin chloride	X								1				
Tributyltin ion	X	X	X	X	X	X		X		X		X	
PCDD/Fs													
Total PCDD/Fs	X	X	X	X	X	X			6	X		X	
TCDD TEQ	X	X	X	X	X	X	X	~~X~~	6	X	4		Note: Not in SLERA or BERA; included as a component of total dioxin/furan TEQ and total TEQ.
Herbicides													
2,4,5-T	X								1				
2,4-D	X	X	X	X	X				1				
2,4-DB	X	X	X	X					1				
Dalapon	X	X		X	X				1				
Dicamba		X							1				
Dichloroprop	X				X				1				
MCPA	X	X							1				
MCPP	X	X		X			X		3, 7				
Silvex	X	X	X	X	X				1				
Inorganics													
Cyanide	X	X			X			X	3				
Perchlorate	X			X	X			X	3				
Metals													
Aluminum	X	X	X		X	X			1				
Antimony	X	X	X	X	X	X	X	X	7				
Arsenic	X	X	X	X	X	X	X	X		X		X	
Barium	X	X		X	X			X	3				
Beryllium	X	X		X	X			X	7				
Cadmium	X	X	X	X	X	X		X		X	5, 7		
Chromium	X	X	X	X	X	X	X[4]	X		X		X	
Cobalt	X	X		X	X	X		X	7				
Copper	X	X	X	X	X	X		X		X		X	
Iron	X	X		X	X	X		X	3				
Lead	X	X	X	X	X	X	X	X		X	4		
Magnesium	X	X		X	X	X		X	3, 7				
Manganese	X	X		X	X	X		X	7				
Mercury	X	X	X	X	X	X	X	X		X	7		
Nickel	X	X	X	X	X	X		X		X	7		
Selenium	X	X	X	X	X	X			1				
Silver	X	X	X	X	X	X			1				
Thallium	X	X		X	X	X			1				
Tin	X	X							1				
Titanium	X	X							1				
Vanadium	X	X		X	X			X	7				
Zinc	X	X	X	X	X	X		X		X		X	
PAHs													
Total PAHs	X	X	X	X	X	X		X		X	6	X	
Total cPAHs	X	X	X	X	X	X	X			X	4, 6		
Total LPAHs	X	X	X	X	X	X		X		X	4,6		
Total HPAHs	X	X	X	X	X	X		X		X	4, 6		
Benzo(a)pyrene	X	X	X	X	X	X	X	X		X	6		
Naphthalene	X	X	X	X	X	X				X	6		
Phenanthrene	X	X	X	X	X	X		X		X	6		
PBDEs													
Congeners						X	X		3				
PCBs													
Total PCBs (Congeners + Aroclors)	X	X	X	X	X	X	X	X		X		X	
PCB TEQ	X	X	X	X	X	X	X	X		X	4		
Pesticides													
Aldrin	X	X	X	X		X	X			X		X	
Total Chlordanes	X	X	X	X		X	X	X		X		X	
Dieldrin	X	X	X	X		X	X	X		X		X	
Total DDx (DDD, DDE, DDT)	X	X	X	X	X	X	X	X		X	6	X	
DDD			X	X	X	X	X	X		X	4		
DDE			X	X	X	X	X	X		X	4		

Table 5.1-2 Screening of COIs by in-river media for discussion and presentation in RI

	Detected In-river Media						BRA		Screen 1		Screen 2	
Detected Analytes	Surface Sediment	Subsurface Sediment	Sediment Traps	Surface Water	TZW	Biota	BHHRA SCREEN[1]	BERA SCREEN[2]	Screening Code	Contaminant	Screening Code	Indicator Contaminants
DDT			X	X	X	X	X	X		X	4	
Endosulfans	X	X	X	X		X			1			
Endrin	X	X	X	X		X			1			
Endrin aldehyde	X	X	X	X		X			1			
Endrin ketone	X	X		X		X			1			
Heptachlor	X	X	X	X		X			1			
Heptachlor epoxide	X	X	X	X		X		X	2, 7			
alpha-Hexachlorocyclohexane	X	X		X		X			1			
beta-Hexachlorocyclohexane	X	X	X	X		X			1			
delta-Hexachlorocyclohexane	X	X	X	X		X			1			
gamma-Hexachlorocyclohexane (Lindane)	X	X	X	X		X		X		X	5	
Methoxyclor	X	X	X	X		X			1			
Mirex	X	X	X						1			
Nonachlors	X	X	X			X			1			
Oxychlordane	X	X	X			X			1			
Toxaphene	X	X							1			
Petroleum												
Fuel oil No.2	X								1			
Heavy oil	X								1			
Hydrocarbon, aliphatics	X	X						X	3			
Hydrocarbon, aromatics	X	X						X	3			
Hydrocarbons, diesel range	X	X	X		X			X		X	3	
Hydrocarbons, gasoline range	X	X	X		X			X	4, 5, 7			
Hydrocarbons, heavy oil range	X	X							1			
Hydrocarbons, residual range	X	X	X		X			X		X	3	
Lube oil	X	X							1			
Motor oil	X	X							1			
Pencil pitch	X	X							1			
Phytane	X								1			
Pristane	X								1			
TPH	X	X	X						6	X	3	
Phenols												
4-Chloro-3-methylphenol	X	X		X					1			
2-Chlorophenol	X	X							1			
2,4-Dichlorophenol	X	X							1			
2,4-Dimethylphenol	X	X							1			
4,6-Dinitro-2-methylphenol	X								1			
2,4-Dinitrophenol	X	X							1			
2-Methylphenol	X	X	X			X			1			
4-Methylphenol	X	X	X			X			1			
2-Nitrophenol	X								1			
4-Nitrophenol	X	X				X			1			
Pentachlorophenol	X	X	X		X	X	X			X	7	
Phenol	X	X	X	X		X			1			
2,3,4,5-Tetrachlorophenol	X	X	X						1			
2,3,4,6-Tetrachlorophenol	X								1			
2,3,5,6-Tetrachlorophenol	X	X	X						1			
2,4,5-Trichlorophenol	X	X							1			
2,4,6-Trichlorophenol	X	X							1			
Phthalates												
Bis(2-ethylhexyl) phthalate	X	X	X	X		X	X	X		X		X
Butylbenzyl phthalate	X	X	X	X		X				X[3]	1	
Dibutyl phthalate	X	X	X	X		X			1			
Diethyl phthalate	X	X	X	X					1			
Dimethyl phthalate	X	X	X	X					1			
Di-n-oxtyl phthalate	X	X		X					1			
SVOCs												
Aniline	X	X	X	X		X			1			
Azobenzene	X	X							1			
Benzoic Acid	X	X	X	X		X			1			
Benzyl Alcohol	X	X	X			X			1			
Bis(2-chloro-1-methylethyl) ether	X								1			
Bis(2-chloroethoxy) methane	X					X			1			
Bis(2-chloroethyl) ether	X								1			
Bis(2-chloroisopropyl) ether	X	X							1			
4-Bromophenyl phenyl ether	X								1			
Carbazole	X	X	X	X					1			
4-Chloroaniline	X	X		X					1			

Note: The notes below are not part of the table. Prvided here for discussion with EPA

Table 5.1-2 Screening of COIs by in-river media for discussion and presentation in RI

	Detected In-river Media						BRA		Screen 1		Screen 2	
Detected Analytes	Surface Sediment	Subsurface Sediment	Sediment Traps	Surface Water	TZW	Biota	BHHRA SCREEN[1]	BERA SCREEN[2]	Screening Code	Contaminant	Screening Code	Indicator Contaminants
2-Chloronaphthalene	X	X							1			
4-Chlorophenyl phenyl ether	X								1			
Dibenzofuran	X	X	X	X	X	X		X	7			
1,2-Dichlorobenzene	X	X			X			X	3			
1,3-Dichlorobenzene	X	X			X				1			
1,4-Dichlorobenzene	X	X	X	X	X			X	3			
3,3'-Dichlorobenzidine	X	X							1			
Diphenyl	X	X							1			
1,2-Diphenylhydrazine	X								1			
2,4-Dinitrotoluene	X								1			
2,6-Dinitrotoluene	X								1			
Hexachlorobenzene	X	X	X	X		X	X			X	2	
Hexachlorobutadiene	X	X	X	X		X			1			
Hexachlorocyclopentadiene	X								1			
Hexachloroethane	X	X	X						1			
Isophorone	X	X	X	X		X			1			
2-Nitroaniline	X								1			
3-Nitroaniline	X								1			
4-Nitroaniline	X	X							1			
Nitrobenzene	X					X			1			
N-Nitrosodimethylamine	X								1			
N-Nitrosodiphyenylamine	X	X							1			
N-Nitrosodipropylamine	X								1			
1,2,4-Trichlorobenzene	X	X	X						1			
VOCs												
Acetone	X	X	X		X				1			
Acrolein		X			X				1			
Acrylonitrile	X	X							1			
Benzene	X	X		X	X			X	3			
Bromochloromethane	X	X	X		X				1			
BTEX	X	X	X						1			
Butylbenzenes	X			X	X				1			
Carbon disulfide	X	X			X			X	3			
Chlorobenzene	X	X	X		X			X	3			
Chloroethane	X	X			X			X	3			
Chloroform	X	X			X			X	3			
Chloromethane		X			X				1			
Dichlorodifluoromethane	X								1			
1,1-Dichloroethene	X	X		X	X			X	3			
cis-1,2-Dichloroethene	X	X		X	X			X	3			
1,1-Dichloroethene	X	X		X	X				1			
Ethybenzene	X	X	X	X	X			X	3			
Isopropylbenzene	X	X			X			X	3			
Methylcyclohexane		X							1			
Methyl n-butyl ketone	X	X							1			
Methyl tert-butyl ether	X	X							1			
Methylene chloride	X	X			X				1			
Methylene ketone	X	X	X						1			
Methyl iodide		X	X						1			
Methy isobutyl ketone	X	X			X				1			
n-Propylbenzene	X	X			X				1			
Styrene	X	X			X				1			
Tetrachloroethenes	X	X							1			
Toluene	X	X	X	X	X			X	3			
Trichloroethene~~s~~	X	X		X	X			X	3			
1,2,3-Trichloropropane	X	X							1			
1,2,4-Trimethylbenzene	X	X		X	X			X	3			
1,3,5-Trimethylbenzene		X		X	X			X	3			
Vinyl chloride	X	X		X	X				1			
Total Xylenes	X	X	X	X	X			X	3			

Note: The notes below are not part of the table. Prvided here for discussion with EPA

Notes:

Note 1 - See Appendix F

Note 2 - See Appendix G

Note 3 - This COI is included as a key contaminant because it originally screened in from the Round 2 screening BERA, but does not in the Final BERA.

Note 4 - Hexavalent Chromium and not total chromium was identified as a COPC in the BHHRA.

BERA - Baseline Ecological Risk Assessment

BHHRA - Baseline Human Health Risk Assessment

Table 5.1-2 Screening of COIs by in-river media for discussion and presentation in RI

	Detected In-river Media						BRA		Screen 1		Screen 2		
Detected Analytes	**Surface Sediment**	**Subsurface Sediment**	**Sediment Traps**	**Surface Water**	**TZW**	**Biota**	**BHHRA SCREEN[1]**	**BERA SCREEN[2]**	**Screening Code**	**Contaminant**	**Screening Code**	**Indicator Contaminants**	**Note: The notes below are not part of the table. Prvided here for discussion with EPA**

COI - contaminant of interest
PAH - polycyclic aromatic hydrocarbon
PBDE - polybrominated diphenyl ether
PCB - polychlorinated biphenyl
PCDD/F - polychlorinated dibenzodioxin/furan
SVOC - semivolatile organic compound
TCDD-tetrachlorodibenzodioxin
TPH - total petroleum hydrocarbon
TZW - transition zone water
VOC - volatile organic compound

Screening Codes:
1 - COI not a BHHRA or BERA COPC
2 - COI frequency of detection <20%
3 - COI not detected in multiple media
4 - COI represented by other COI (co-location)
5 - COI is not a widespread source
6 - COI represents the combining of individual contaminants into a group.
7 - COI has low exceedance or contribution of risk (HQ<10; 10^{-6} risk)