Table 1
Complementary Groundwater and Surface Water Cleanup Target Levels

Contaminants	CAS #s	Groundwater Criteria (ug/L)	Freshwater Surface Water Criteria (ug/L)	Marine Surface Water Criteria (ug/L)	Groundwater of Low Yield/Poor Quality Criteria (ug/L)	Non-Cancer Target Organs/Systems or Effects†	Carcinogen
Alkyl (C8,C10) polyglycoside	98515-73-1	700 *Minimum Criteria Systemic Toxicant*	*NA*	*NA*	7000	-None Specified	
Boron	7440-42-8	1400 *Minimum Criteria Systemic Toxicant*	1100 *Toxicity Criteria*	3700 *Toxicity Criteria*	14000	-Reproductive -Respiratory	
Bromobenzene	108-86-1	42 *Minimum Criteria Systemic Toxicant*	280 *Toxicity Criteria*	*NA*	420	-Liver	
Butylbenzene, n-	104-51-8	70 *Minimum Criteria Systemic Toxicant*	*NA*	*NA*	700	-Developmental -Kidney -Liver	
Butylbenzene, sec-	135-98-8	280 *CEHT*	*NA*	*NA*	2800	-Adrenals -Kidney	
Butylbenzene, tert-	98-06-6	260 *Minimum Criteria Systemic Toxicant*	3300 *Toxicity Criteria*	*NA*	2600	-Adrenals -Kidney	
Cocamidopropyl betaine	61789-40-0	*NA*	100 *Toxicity Criteria*	*NA*		-Gastrointestinal	
Cyclohexane	110-82-7	15000 *Minimum Criteria Systemic Toxicant*	1600 *Toxicity Criteria*	120 *Toxicity Criteria*	150000	-Reproductive	
Cymene, p- [or 4-isopropyltoluene]	99-87-6	660 *Minimum Criteria Systemic Toxicant*	330 *Toxicity Criteria*	220 *Toxicity Criteria*	6600	-Gastrointestinal -Skin	
D5 [see Decamethylcyclopentasiloxane]							
Decafluoropentane, 1,1,1,2,3,4,4,5,5,5-	138495-42-8	1800 *Minimum Criteria Systemic Toxicant*	590 *Toxicity Criteria*	*NA*	18000	-Neurological	
Decamethylcyclopentasiloxane [or D5]	541-02-6	7200 *Minimum Criteria Systemic Toxicant*	*NA*	*NA*	72000	-Developmental -Respiratory	
DGME [see Diethylene glycol monomethyl ether]							
Dichloropropane, 1,3-	142-28-9	140 *Minimum Criteria Systemic Toxicant*	3200 *Toxicity Criteria*	520 *Toxicity Criteria*	1400	-Kidney -Liver	

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Dicloran	99-30-9	180 *Minimum Criteria Systemic Toxicant*	54 *Toxicity Criteria*	95 *Toxicity Criteria*	1800	-Body Weight -Liver -Spleen	
Diethylene glycol monomethyl ether [or DGME]	111-77-3	4700 *Minimum Criteria Systemic Toxicant*	380000 *Toxicity Criteria*	*NA*	47000	-Developmental	
Diisopropyl ether [or DIPE]	108-20-3	1000 *Minimum Criteria Systemic Toxicant*	4600 *Toxicity Criteria*	330000 *Toxicity Criteria*	10000	-Liver	
Diisopropylbenzene, 1,3-	99-62-7	70 *Minimum Criteria Systemic Toxicant*	*NA*	*NA*	700	-Eye -Liver	
Diisopropylbenzene, 1,4-	100-18-5	70 *Minimum Criteria Systemic Toxicant*	*NA*	*NA*	700	-Eye -Liver	
DIPE [see Diisopropyl ether]							
Endrin aldehyde	7421-93-4	2.1 *Minimum Criteria Systemic Toxicant*	*NA*	*NA*	21	-Liver	
Endrin ketone	53494-70-5	0.4 *Minimum Criteria Systemic Toxicant*	*NA*	*NA*	4	-Liver	
ETBE [see Ethyl tert-butyl ether]							
Ethyl tert-butyl ether [or ETBE]	637-92-3	1000 *Minimum Criteria Systemic Toxicant*	*NA*	*NA*	10000	-Kidney	
Imidacloprid	138261-41-3	400 *Minimum Criteria Systemic Toxicant*	11 *Toxicity Criteria*	1.9 *Toxicity Criteria*	4000	-Body Weight -Thyroid	
Iodine	various	70 *Minimum Criteria Systemic Toxicant*	8 *Toxicity Criteria*	*NA*	700	-Thyroid	
Iodomethane	74-88-4	400 *Minimum Criteria Systemic Toxicant*	*NA*	*NA*	4000	-Salivary gland	
Isopropanol	67-63-0	77000 *Minimum Criteria Systemic Toxicant*	210000 *Toxicity Criteria*	58000 *Toxicity Criteria*	770000	-Developmental	

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Isopropyltoluene, 4- [see p-Cymene]							
Lithium dodecyl sulfate	2044-56-6	500 *Secondary Standard*	130 *Toxicity Criteria*	*NA*	5000	-None Specified	
Pinene, alpha-	80-56-8	1900 *Minimum Criteria Systemic Toxicant*	2100 *Toxicity Criteria*	*NA*	19000	-Liver -Thyroid	
Propylbenzene, n-	103-65-1	70 *Minimum Criteria Systemic Toxicant*	*NA*	4600 *Toxicity Criteria*	700	-Developmental -Kidney -Liver	
Soybean methyl esters	67784-80-9	32000 *Minimum Criteria Systemic Toxicant*	*NA*	*NA*	320000	-None Specified	
TAME [see Tertiary amyl methyl ether]							
Tergitol 15-S-9	68131-40-8	500 *Secondary Standard*	150 *Toxicity Criteria*	*NA*	5000	-None Specified	
Tergitol 4	various	500 *Secondary Standard*	39 *Toxicity Criteria*	*NA*	5000	-None Specified	
Tertiary amyl methyl ether [or TAME]	994-05-8	500 *Minimum Criteria Systemic Toxicant*	*NA*	*NA*	5000	-Liver	
Titanium	7440-32-6	28000 *Minimum Criteria Systemic Toxicant*	*NA*	*NA*	280000	-None Specified	
Triton X-100	9002-93-1	500 *Secondary Standard*	180 *Toxicity Criteria*	390 *Toxicity Criteria*	5000	-None Specified	

† = These default Target Organ(s)/Systems or Effects are those reported to occur at the doses used to derive the reference dose. Non-default Target Organ(s)/Systems or Effects may be justified through a detailed toxicological analysis of the chemicals present at a specific site.

* = There are no surface water standards for these individual polycyclic aromatic hydrocarbons. Per Chapter 62-302, F.A.C., the surface water criterion for Polycyclic Aromatic Hydrocarbons (PAHs) shall apply to the total concentration of Acenaphthylene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene, and Phenanthrene.

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** = Groundwater CTLs for class C carcinogens with no cancer slope factor were developed using the reference dose divided by a factor of 10, as described in the February 2005 "Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C."

(a) = Freshwater surface water criterion for Ammonia based on unionized ammonia only. All other water criteria for ammonia are based on total ammonia.

(b) = The common name BHC is a misnomer for Hexachlorocyclohexane.

(c) = Criteria for Dioxins, as total 2,3,7,8-TCDD equivalents should be compared to the total dioxin equivalents for chlorinated dibenzodioxin and dibenzofuran congeners using the approach described in the February 2005 "Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C."

(d) = Surface water values protective of human health for Vinyl chloride calculated assuming continuous lifetime exposure from birth as described in the February 2005 "Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C."

e = Not greater than 10% above background.

f = Hardness-dependent per Chapter 62-302, F.A.C.

g = Criteria for these metals are measured as total recoverable metal. However, they may be applied as dissolved metals when, as part of a permit application, a dissolved metals translator has been established according to the procedures described in the document, "Guidance for Establishing a Metals Translator", Florida Department of Environmental Protection, December 17, 2001.

h = In the absence of concentration data specific for the III and VI valence states of chromium, total chromium concentrations in surface water should be compared to the criteria for chromium (hexavalent).

(i) = 12789-03-6 or 57-74-9.

62-302 = As provided in Chapter 62-302, F.A.C.

Toxicity Criteria = 1/20 of applicable LC50 data.

Organoleptic = Pertaining to or perceived by a sensory organ (i.e., color, taste or odor).

NA = Not available at the time of criteria development.

None Specified = Target organ(s) not available at time of criteria development.

CEHT - Center for Environmental and Human Toxicology.

Note: Freshwater and marine surface waters, and groundwater at the point of discharge into surface water shall pass acute and chronic toxicity bioassay tests: The user should consult the standard definitions for acute and chronic toxicity given in FAC 62-302.200(1) and FAC 62-302.200(4), respectively.

Note: If more than one contaminant is present at a site, CTLs are to be modified, if necessary, such that the sum of the hazard quotients for non-carcinogenic contaminants affecting the same organ(s) is 1. For carcinogens, the direct exposure values shall be modified such that the cumulative lifetime risk level posed by the contaminants is 1.0E-06, as presented in Figure 10 of the February 2005 "Technical Report: Development of Cleanup Target Levels (CTLs) for Chapter 62-777, F.A.C." However, GCTLs for primary and secondary standards shall not be modified.