## Table 4c Calculated Tier 2\*\* Soil RBSLs\* for Direct Contact Construction Receptor

0 - 10 feet bas

Effects	Effects Tier 1 Soil RBSLs, mg/kg														
		Calculated Tier 2 RBSLs for Subsurface Soil Exceedances of Tier 1 RBSLs, mg/kg													
c: carcinogenic n: non-carcinogenic	Direct Contact Construction Receptor		Tier 2 RBSL = Tier 1 RBSL X 10 / (number of Non-Carcinogenic Analytes >Tier 1 RBSLs)						Tier 2 RBSL = Tier 1 RBSL X 10 / (number of Carcinogenic Analytes >Tier 1 RBSLs)						
	Chemical / Analyte /		Number of Non-Carcinogenic Analytes >Tier 1 RBSLs						Number of Carcinogenic Analytes >Tier 1 RBSLs						
	•	0 - 10 feet bgs	1	2	3	4	5	6	1	2	3	4	5	6	
	For Gasoline & Light Hydrocar	bons measured	using the Monta	ina Method for V	olatile Petroleu	um Hydrocarbo	ons (VPH)								
С	MTBE	9,100							91,000	45,500	30,333	22,750	18,200	15,167	
n	Benzene	190	1,900	950	633	475	380	317							
n	Toluene	14,000	140,000	70,000	46,667	35,000	28,000	23,333							
С	Ethylbenzene	1,200							12,000	6,000	4,000	3,000	2,400	2,000	
n	Xylenes	1,900	19,000	9,500	6,333	4,750	3,800	3,167							
n	Naphthalene	120	1,200	600	400	300	240	200							
n	C9-C10 Aromatics	4,000	40,000	20,000	13,333	10,000	8,000	6,667							
n	C5-C8 Aliphatics	2,000	20,000	10,000	6,667	5,000	4,000	3,333							
n	C9-C12 Aliphatics	3,000	30,000	15,000	10,000	7,500	6,000	5,000							
	Lead Scavengers														
С	1,2-Dichloroethane (DCA)	100							1,000	500	333	250	200	167	
С	1,2-Dibromoethane (EDB)	7.3							73	37	24	18.3	14.6	12.2	
	For Diesel & Heavy Hydrocarbons measured using Montana Method for Extractable Petroleum Hydrocarbons (EPH)														
n	C9-C18 Aliphatics	6,000	60,000	30,000	20,000	15,000	12,000	10,000							
n	C19-C36 Aliphatics	1,600,000	16,000,000	8,000,000	5,333,333	4,000,000	3,200,000	2,666,667							
n	C11-C22 Aromatics	33,000	330,000	165,000	110,000	82,500	66,000	55,000							
n	Acenaphthene	10,000	100,000	50,000	33,333	25,000	20,000	16,667							
n	Anthracene	50,000	500,000	250,000	166,667	125,000	100,000	83,333							
С	Benz(a)anthracene	390							3,900	1,950	1,300	975	780	650	
n	Benzo(a)pyrene	15	150	75	50	38	30	25							
С	Benzo(b)fluoranthene	390							3,900	1,950	1,300	975	780	650	
С	Benzo(k)fluoranthene	3,900							39,000	19,500	13,000	9,750	7,800	6,500	
С	Chrysene	39,000							390,000	195,000	130,000	97,500	78,000	65,000	
С	Dibenzo(a,h)anthracene	39							390	195	130	98	78	65	
n	Fluoranthene	5,000	50,000	25,000	16,667	12,500	10,000	8,333							
n	Fluorene	40	400	200	133	100	80	67							
С	Indeno(1,2,3-cd)pyrene	390							3,900	1,950	1,300	975	780	650	
n	Naphthalene	120	1,200	600	400	300	240	200							
n	Pyrene	15,000	150,000	75,000	50,000	37,500	30,000	25,000							
С	1-Methylnaphthalene	1,400							14,000	7,000	4,667	3,500	2,800	2,333	
n	2-Methylnaphthalene	200	2,000	1,000	667	500	400	333							

\*Refer to RBCA Guidance Appendix B for derivation of Risk-Based Screening Levels (RBSLs)

\*\*Refer to RBCA Guidance Section 4.0 for details of Tier 2 Evaluation Process and calculation of Tier 2 RBSLs

mg/kg = milligrams per kilogram bgs = below ground surface