Table 4a

## Calculated Tier 2\*\* Soil RBSLs\* for Direct Contact Residential Receptor 0 - 2 feet bgs

Effects	Tier 1 Soil RBSLs, m	Calculated Tier 2 RBSLs for Surface Soil Exceedances of Tier 1 RBSLs, mg/kg													
ij	Direct Contact		Tier 2 RBSL = Tier 1 RBSL X 10 / (number of Non-Carcinogenic Tier 2 RBSL = Tier 1 RBSL X 10 / (number of Carcinogenic Analytes												
: carcinogenic : non-carcinogenic	Residential Receptor		Analytes > Tier 1 RBSLs)  The ENDE Analytes > Tier 1 RBSLs)												
rcinoç ın-car	Chemical / Analyte / 0 - 2 feet		Number of Non-Carcinogenic Analytes >Tier 1 RBSLs						Number of Carcinogenic Analytes >Tier 1 RBSLs						
c: ca n: no	Compound	bgs	1	2	3	4	5	6	1	2	3	4	5	6	
	For Gasoline & Light Hydrocarbo	ons measure	d using the I	Montana Me	thod for Vol	atile Petrole	eum Hydroc	arbons (VP	H)						
С	MTBE	67				-	-		670	335	223	168	134	112	
С	Benzene	1.7							17	8.5	5.7	4.3	3.4	2.8	
n	Toluene	630	6,300	3,150	2,100	1,575	1,260	1,050							
С	Ethylbenzene	8.4							84	42	28	21	16.8	14	
n	Xylenes	75	750	375	250	188	150	125							
С	Naphthalene	2.9							29	15	9.7	7.3	5.8	4.8	
n	C9-C10 Aromatics	60	600	300	200	150	120	100							
n	C5-C8 Aliphatics	90	900	450	300	225	180	150							
n	C9-C12 Aliphatics	160	1,600	800	533	400	320	267							
	Lead Scavengers														
С	1,2-Dichloroethane (DCA)	0.67							6.7	3.4	2.23	1.68	1.34	1.12	
С	1,2-Dibromoethane (EDB)	0.05							0.5	0.3	0.17	0.13	0.10	0.08	
	For Diesel & Heavy Hydrocarbons measured using Montana Method for Extractable Petroleum Hydrocarbons (EPH)														
n	C9-C18 Aliphatics	290	2,900	1,450	967	725	580	483							
n	C19-C36 Aliphatics	25,000	250,000	125,000	83,333	62,500	50,000	41,667							
n	C11-C22 Aromatics	540	5,400	2,700	1,800	1,350	1,080	900							
n	Acenaphthene	470	4,700	2,350	1,567	1,175	940	783							
n	Anthracene	2,300	23,000	11,500	7,667	5,750	4,600	3,833							
С	Benz(a)anthracene	1.6							16	8.0	5.3	4.0	3.2	2.7	
С	Benzo(a)pyrene	0.17							1.7	0.85	0.57	0.43	0.34	0.28	
С	Benzo(b)fluoranthene	1.7							17	8.5	5.7	4.3	3.4	2.8	
С	Benzo(k)fluoranthene	17							170	85	57	43	34	28	
С	Chrysene	170							1,700	850	567	425	340	283	
С	Dibenzo(a,h)anthracene	0.17							1.7	0.85	0.57	0.43	0.34	0.28	
n	Fluoranthene	310	3,100	1,550	1,033	775	620	517							
n	Fluorene	310	3,100	1,550	1,033	775	620	517							
С	Indeno(1,2,3-cd)pyrene	1.7							17	8.5	5.7	4.3	3.4	2.8	
С	Naphthalene	2.9							29	15	9.7	7.3	5.8	4.8	
n	Pyrene	230	2,300	1,150	767	575	460	383							
С	1-Methylnaphthalene	25							250	125	83.3	62.5	50	41.7	
n	2-Methylnaphthalene	31	310	155	103	78	62	52							

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

mg/kg = milligrams per kilogram

bgs = below ground surface

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