collinshallgreen LTD

CHG Adopted Tier 1 Generic Assessment Criteria

Determinant	Allotment			Residential with Plant Uptake			Residential without Plant Uptake			
Metals										
Arsenic	43			37			40			S4UL
Boron	45			290			11000			S4UL
Cadmium	1.9			11			85			S4UL
Chromium	18000			910			910			S4UL
Copper	520			2400			7100			S4UL
Lead	80			200			310			C4SL
Mercury	19			40			56			S4UL
Nickel	53			130			180			S4UL
Selenium	88			250			430			S4UL
Zinc	620			3700			40000			S4UL
Polycyclic Aromatic Hydrocarbons (PAH) (1%/2.5%/6% SOM)										
Acenaphthene	34	85	200	210	510	1100	3000	4700	6000	S4UL
Acenaphthylene	28	69	160	170	420	920	2900	4600	6000	S4UL
Anthracene	380	950	2200	2400	5400	11000	31000	35000	37000	S4UL
Benzo(a)anthracene	2.9	6.5	13	7.2	11	13	11	14	15	S4UL
Benzo(a)pyrene	0.97	2	3.5	2.2	2.7	3	3.2	3.2	3.2	S4UL
Benzo(b)fluoranthene	0.99	2.1	3.9	2.6	3.3	3.7	3.9	4	4	S4UL
Benzo(g,h,i)perylene	290	470	640	320	340	350	360	360	360	S4UL
Benzo(k)fluoranthene	37	75	130	77	93	100	110	110	110	S4UL
Chrysene	4.1	9.4	19	15	22	27	30	31	32	S4UL
Dibenzo(a,h)anthracene	0.14	0.27	0.43	0.24	0.28	0.3	0.31	0.32	0.32	S4UL
Fluoranthene	52	130	290	280	560	890	1500	1600	1600	S4UL
Fluorene	27	67	160	170	400	860	2800	3800	4500	S4UL
Indeno(1,2,3-c,d)pyrene	9.5	21	39	27	36	41	45	46	46	S4UL
Naphthalene	4.1	10	24	2.3	5.6	13	2.3	5.6	13	S4UL
Phenanthrene	15	38	90	95	220	440	1300	1500	1500	S4UL
Pyrene	110	270	620	620	1200	2000	3700	3800	3800	S4UL
Speciated TPH (1%/2.5%/6% SOM)										
Aliphatic C5-6	730	1700	3900	42	78	150	42	78	160	S4UL
Aliphatic C>6-8	2300	5600	13000	100	230	530	100	230	530	S4UL
Aliphatic C>8-10	320	770	1700	27	65	150	27	65	150	S4UL
Aliphatic C>10-12	2200	4400	7300	130	330	760	130	330	770	S4UL
Aliphatic C>12-16	11000	13000	13000	1100	2400	4300	1100	2400	4400	S4UL
Aliphatic C>16-35	260000	70000	270000	65000	92000	110000	65000	92000	110000	S4UL
Aliphatic C>35-44	260000	270000	270000	65000	92000	110000	65000	92000	110000	S4UL
Aromatic C5-7	13	27	57	70	140	300	370	690	1400	S4UL
Aromatic C>7-8	22	51	120	130	290	660	860	1800	3900	S4UL
Aromatic C>8-10	8.6	21	51	34	83	190	47	110	270	S4UL
Aromatic C>10-12	13	31	74	74	180	380	250	590	1200	S4UL
Aromatic C>12-16	23	57	130	140	330	660	1800	2300	2500	S4UL
Aromatic C>16-21	46	110	260	250	540	930	1900	1900	1900	S4UL
Aromatic C>21-35	370	820	1600	1100	1500	1700	1900	1900	1900	S4UL
Aromcatic C>35-44	370	820	1600	1100	1500	1700	1900	1900	1900	S4UL
Ali +Arom C>44-70	1200	2100	3000	1600	1800	1900	1900	1900	1900	S4UL
Others										
pH		5.5			5.5			5.5		N/A
Cyanide		34			34			34		ATRISKOIL
Phenols	23	42	83	120	200	380	440	690	1200	S4UL

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CHG Adopted Tier 1 Generic Assessment Criteria

Determinant	Commercial			Public Open Space (Residential)			Public Open Space (Park)			
Metals										
Arsenic	640			79			170			S4UL
Boron	240000			2100			48000			S4UL
Cadmium	190			120			580			S4UL
Chromium	8800			1500			33000			S4UL
Copper	68000			12000			44000			S4UL
Lead	2300			630			1300			C4SL
Mercury	1100			120			240			S4UL
Nickel	980			230			800			S4UL
Selenium	12000			1100			1800			S4UL
Zinc	730000			81000			170000			S4UL
Polycyclic Aromatic Hydrocarbons (PAH) (1%/2.5%/6% SOM)										
Acenaphthene	84000	97000	100000	1500	15000	15000	29000	30000	30000	S4UL
Acenaphthylene	83000	97000	100000	1500	15000	15000	29000	30000	30000	S4UL
Anthracene	520000	54000	54000	74000	74000	74000	150000	150000	150000	S4UL
Benzo(a)anthracene	170	170	180	29	29	29	49	56	62	S4UL
Benzo(a)pyrene	35	35	36	5.7	5.7	5.7	11	12	13	S4UL
Benzo(b)fluoranthene	44	44	45	7.1	7.2	7.2	13	15	16	S4UL
Benzo(g,h,i)perylene	3900	4000	4000	640	640	640	1400	1500	1600	S4UL
Benzo(k)fluoranthene	1200	1200	1200	190	190	190	370	410	440	S4UL
Chrysene	350	350	350	57	57	57	83	110	120	S4UL
Dibenzo(a,h)anthracene	3.5	3.6	3.6	0.57	0.57	0.58	1.1	1.3	1.4	S4UL
Fluoranthene	23000	2300	2300	3100	3100	3100	6300	6300	6400	S4UL
Fluorene	63000	68000	71000	9900	9900	9900	20000	20000	20000	S4UL
Indeno(1,2,3-c,d)pyrene	500	510	510	82	82	82	150	170	180	S4UL
Naphthalene	190	460	1100	4900	4900	4900	1200	1900	3000	S4UL
Phenanthrene	22000	22000	23000	3100	3100	3100	6200	6200	6300	S4UL
Pyrene	54000	54000	54000	7400	7400	7400	15000	15000	15000	S4UL
Speciated TPH (1%/2.5%/6% SOM)										
Aliphatic C5-6	3200	5900	12000	570000	590000	600000	95000	130000	180000	S4UL
Aliphatic C>6-8	7800	17000	40000	600000	610000	620000	150000	220000	320000	S4UL
Aliphatic C>8-10	2000	48000	11000	13000	13000	13000	14000	18000	21000	S4UL
Aliphatic C>10-12	9700	23000	47000	13000	13000	13000	21000	23000	24000	S4UL
Aliphatic C>12-16	59000	82000	90000	13000	13000	13000	25000	25000	26000	S4UL
Aliphatic C>16-35	1600000	1700000	1800000	250000	250000	250000	450000	480000	490000	S4UL
Aliphatic C>35-44	1600000	1700000	1800000	250000	250000	250000	450000	480000	490000	S4UL
Aromatic C5-7	26000	46000	86000	56000	56000	56000	76000	84000	92000	S4UL
Aromatic C>7-8	58000	110000	180000	56000	56000	56000	97000	95000	100000	S4UL
Aromatic C>8-10	3500	8100	17000	5000	5000	5000	7200	8500	9300	S4UL
Aromatic C>10-12	16000	28000	34000	5000	5000	5000	9200	9700	10000	S4UL
Aromatic C>12-16	36000	37000	38000	5100	5100	5000	10000	10000	10000	S4UL
Aromatic C>16-21	28000	28000	28000	3800	3800	3800	7600	7700	7800	S4UL
Aromatic C>21-35	28000	28000	28000	3800	3800	3800	7800	7800	7900	S4UL
Aromcatic C>35-44	28000	28000	28000	3800	3800	3800	7800	7800	7900	S4UL
Ali +Arom C>44-70	28000	28000	28000	3800	3800	3800	7800	7800	7900	S4UL
Others										
pH		5.5			5.5			5.5		N/A
Cyanide		34			34			34		ATRISKOIL
Phenols	440	690	1300	440	690	1300	440	690	1300	S4UL