

TABLE 2 : RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA

Parameter	CCME Criteria ⁽¹⁾	MOE Criteria ⁽²⁾	MDL	Sampling site, sample number and depth									
	Residential/Park and	Residential/Park and		MW-01-00	TP-01-02		TP-01-03		TP-01-04	TP-01-05	TP-01-06		
	mg/kg	mg/kg		SS-3	GS-1	GS-2	GS-2	GS-3	GS-1	GS-1	GS-1	GS-2	
				1.22-1.42	0-1.2	1.2-1.8	0.8-2.2	2.2-3.5	0.2-0.7	0.3-1.0	0.2-0.5	0.8-1.2	
PH	C ₆ -C ₁₀ Petroleum Hydrocarbons	260	--	20	-	-	< 20	-	< 20	-	-	-	-
	C ₁₁ -C ₁₆ Petroleum Hydrocarbons	900	--	10	-	-	30	-	< 10	-	-	-	-
	C ₁₇ -C ₃₄ Petroleum Hydrocarbons	800	--	10	-	-	140	-	< 10	-	-	-	-
	>C ₃₄ Petroleum Hydrocarbons	5600	--	10	-	-	90	-	< 10	-	-	-	-
	Petroleum Hydrocarbons (gasoline)	--	1000	10	-	-	< 10	-	< 10	-	-	-	-
	Petroleum Hydrocarbons (diesel)	--	1000	10	-	-	50	-	< 10	-	-	-	-
Petroleum Hydrocarbons (heavy oils)	--	1000	50	-	-	600	-	< 50	-	-	-	-	
Metals	Antimony	--	13	1	< 1.0	< 1.0	-	< 1.0	-	< 1.0	< 1.0	< 1.0	< 1.0
	Arsenic	12	20	1	< 1.0	< 1.0	-	2	-	< 1.0	< 1.0	< 1.0	< 1.0
	Barium	500	750	10	240	200	-	100	-	150	260	180	120
	Beryllium	--	1.2	0.5	< 0.50	0.5	-	< 0.50	-	< 0.50	< 0.50	0.5	< 0.50
	Cadmium	10	12	1	< 1.0	< 1.0	-	< 1.0	-	< 1.0	< 1.0	< 1.0	< 1.0
	Calcium	--	--	200	67000	8 400	-	150 000	-	35000	67000	6400	33000
	Chromium	64	750	5	15	45	-	20	-	15	< 5.0	35	20
	Cobalt	--	40	5	5	15	-	5	-	< 5.0	< 5.0	10	5
	Copper	63	225	5	25	20	-	55	-	20	< 5.0	20	20
	Iron	--	--	200	9800	24 000	-	8 800	-	9200	3800	22000	13000
	Lead	140	200	5	25	15	-	110	-	160	25	5	55
	Magnesium	--	--	200	9400	8 400	-	4 200	-	5000	2200	6800	6800
	Molybdenum	--	40	1	< 1.0	< 1.0	-	< 1.0	-	< 1.0	< 1.0	< 1.0	< 1.0
	Nickel	50	150	5	15	20	-	25	-	10	10	20	15
	Selenium	--	10	1	< 1.0	< 1.0	-	< 1.0	-	< 1.0	< 1.0	< 1.0	< 1.0
	Silver	--	20	5	< 5.0	< 5.0	-	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
	Sodium	--	--	200	< 200	600	-	200	-	< 200	< 200	400	400
	Thallium	1	4.1	1	< 1.0	< 1.0	-	< 1.0	-	< 1.0	< 1.0	< 1.0	< 1.0
	Tin	--	--	5	< 5.0	< 5.0	-	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0
	Vanadium	130	200	10	20	60	-	10	-	20	< 10	50	30
Zinc	200	600	20	40	60	-	40	-	120	20	60	60	
Mercury	6.6	10	0.1	< 0.10	< 0.10	-	0.1	-	1.2	< 0.10	< 0.10	< 0.10	
Boron (available)	--	1.5	1.5	< 1.5	< 1.5	-	< 1.5	-	< 1.5	< 1.5	< 1.5	< 1.5	
Hexavalent Chromium	0.4	8	0.1	< 0.10	< 0.10	-	< 0.10	-	< 0.10	< 0.10	< 0.10	< 0.10	
BTEX	Benzene	0.5	5.3	0.025	-	-	< 0.025	-	< 0.025	-	-	-	-
	Ethylbenzene	1.2	290	0.025	-	-	< 0.025	-	< 0.025	-	-	-	-
	Toluene	0.8	34	0.025	-	-	< 0.025	-	< 0.025	-	-	-	-
	m/p-Xylene	1	34	0.05	-	-	< 0.050	-	< 0.050	-	-	-	-
	o-Xylene	1	34	0.025	-	-	< 0.025	-	< 0.025	-	-	-	-
PAHs	Acenaphthene	--	1000	0.017	-	< 0.017	0.17	-	-	-	-	-	-
	Acenaphthylene	--	100	0.017	-	0.017	0.3	-	-	-	-	-	-
	Anthracene	--	28	0.017	-	0.033	0.76	-	-	-	-	-	-
	Benzo[a]anthracene	--	40	0.017	-	0.066	1.7	-	-	-	-	-	-
	Benzo[a]pyrene	0.7	1.2	0.017	-	0.066	1.3	-	-	-	-	-	-
	Benzo[b]fluoranthene	--	12	0.017	-	0.083	3.6	-	-	-	-	-	-
	Benzo[ghi]perylene	--	40	0.017	-	0.066	1.1	-	-	-	-	-	-
	Benzo[k]fluoranthene	--	12	0.017	-	0.083	0.033	-	-	-	-	-	-
	Biphenyl	--	4.3	0.017	-	< 0.017	0.033	-	-	-	-	-	-

TABLE 2 : RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA

PAH	RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA												
	Concentration (µg/g)	CCME (µg/g)	MOE (µg/g)	Not analysed	CCME (µg/g)	MOE (µg/g)	Not analysed	CCME (µg/g)	MOE (µg/g)	Not analysed	CCME (µg/g)	MOE (µg/g)	
Chrysene	--	12	0.017	-	0.066	1.6	-	-	-	-	-	-	
Dibenzo[a,h]anthracene	--	1.2	0.017	-	0.017	0.4	-	-	-	-	-	-	
Fluoranthene	--	40	0.017	-	0.13	2.9	-	-	-	-	-	-	
Fluorene	--	350	0.017	-	< 0.017	0.18	-	-	-	-	-	-	
Indeno[1,2,3-cd]pyrene	--	12	0.017	-	0.05	0.94	-	-	-	-	-	-	
1-Methylnaphthalene	--	280	0.017	-	< 0.017	0.17	-	-	-	-	-	-	
2-Methylnaphthalene	--	280	0.017	-	< 0.017	< 0.017	-	-	-	-	-	-	
Naphthalene	0.6	40	0.017	-	< 0.017	0.17	-	-	-	-	-	-	
Phenanthrene	--	40	0.017	-	0.066	2.1	-	-	-	-	-	-	
Pyrene	--	250	0.017	-	0.12	2.5	-	-	-	-	-	-	
Benzene	0.5	5.3	0.002	-	-	-	-	-	-	-	-	< 0.0020	
Bromodichloromethane	--	14	0.002	-	-	-	-	-	-	-	-	< 0.0020	
Bromoform	--	2.3	0.002	-	-	-	-	-	-	-	-	< 0.0020	
Bromomethane	--	0.061	0.003	-	-	-	-	-	-	-	-	< 0.0030	
Carbon Tetrachloride	--	0.1	0.002	-	-	-	-	-	-	-	-	< 0.0020	
Chlorobenzene	--	8	0.002	-	-	-	-	-	-	-	-	< 0.0020	
Chloroethane	--	--	0.005	-	-	-	-	-	-	-	-	< 0.0050	
Chloroform	--	0.79	0.003	-	-	-	-	-	-	-	-	< 0.0030	
Chloromethane	--	--	0.015	-	-	-	-	-	-	-	-	< 0.015	
Dibromochloromethane	--	10	0.002	-	-	-	-	-	-	-	-	< 0.0020	
1,2-Dibromoethane	--	--	0.002	-	-	-	-	-	-	-	-	< 0.0020	
m-Dichlorobenzene	--	30	0.002	-	-	-	-	-	-	-	-	< 0.0020	
o-Dichlorobenzene	--	30	0.002	-	-	-	-	-	-	-	-	< 0.0020	
p-Dichlorobenzene	--	30	0.002	-	-	-	-	-	-	-	-	< 0.0020	
1,1-Dichloroethane	--	22	0.002	-	-	-	-	-	-	-	-	< 0.0020	
1,2-Dichloroethane	--	0.022	0.002	-	-	-	-	-	-	-	-	< 0.0020	
1,1-Dichloroethylene	--	0.0024	0.002	-	-	-	-	-	-	-	-	< 0.0020	
c-1,2-Dichloroethylene	--	2.3	0.002	-	-	-	-	-	-	-	-	< 0.0020	
t-1,2-Dichloroethylene	--	4.1	0.003	-	-	-	-	-	-	-	-	< 0.0030	
1,2-Dichloropropane	--	0.019	0.002	-	-	-	-	-	-	-	-	< 0.0020	
c-1,3-Dichloropropene	--	0.0066	0.002	-	-	-	-	-	-	-	-	< 0.0020	
t-1,3-Dichloropropene	--	0.0066	0.002	-	-	-	-	-	-	-	-	< 0.0020	
Ethylbenzene	1.2	290	0.002	-	-	-	-	-	-	-	-	< 0.0020	
Methylene Chloride	--	120	0.02	-	-	-	-	-	-	-	-	< 0.020	
Styrene	--	1.2	0.002	-	-	-	-	-	-	-	-	< 0.0020	
1,1,2,2-Tetrachloroethane	0.2	0.037	0.003	-	-	-	-	-	-	-	-	< 0.0030	
Tetrachloroethylene	0.2	0.45	0.002	-	-	-	-	-	-	-	-	< 0.0020	
Toluene	0.8	34	0.002	-	-	-	-	-	-	-	-	< 0.0020	
1,1,1-Trichloroethane	--	26	0.002	-	-	-	-	-	-	-	-	< 0.0020	
1,1,2-Trichloroethane	3	2.3	0.002	-	-	-	-	-	-	-	-	< 0.0020	
Trichloroethylene	3	1.1	0.003	-	-	-	-	-	-	-	-	< 0.0030	
Trichlorofluoromethane	--	--	0.005	-	-	-	-	-	-	-	-	< 0.0050	
1,3,5-Trimethylbenzene	--	--	0.003	-	-	-	-	-	-	-	-	< 0.0030	
Vinyl Chloride	--	0.003	0.002	-	-	-	-	-	-	-	-	< 0.0020	
m/p-Xylene	1	34	0.002	-	-	-	-	-	-	-	-	< 0.0020	
o-Xylene	1	34	0.002	-	-	-	-	-	-	-	-	< 0.0020	

Notes:

- 45 Exceeding CCME Criteria
- 56 Exceeding MOE criteria
- Not analysed
- No criteria for this parameter

⁽¹⁾ CCME Soil criteria for residential/parkland land use

⁽²⁾ MOE Table B Surface soil and groundwater criteria for residential/parkland land use for a non potable groundwater condition (coarse textured soil with pH between 5,0 and 11,0)

TABLE 2 : RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA

TABLE 2 : RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA

Parameter	CCME Criteria (1)	MOEE Criteria (2)	MDL	Sampling site, sample number and depth									
	Residential/Park and mg/kg	Residential/Park and mg/kg		TP-01-07		TP-01-08	TP-01-09	TP-01-10		TP-01-11	TP-01-12		
				GS-1	GS-A	GS-2	GS-A	GS-1	GS-2	GS-3	GS-1	GS-2	
				0-1.1	0-4.0	0.6-1.7	0.2-1.8	0.4-1.0	1.6-2.2	1.6-2.6	0-0.95	0.95-1.3	
PH	C ₆ -C ₁₀ Petroleum Hydrocarbons	260	--	20	-	-	-	-	-	-	-	-	-
	C ₁₁ -C ₁₆ Petroleum Hydrocarbons	900	--	10	-	-	-	-	-	-	-	-	-
	C ₁₇ -C ₃₄ Petroleum Hydrocarbons	800	--	10	-	-	-	-	-	-	-	-	-
	>C ₃₄ Petroleum Hydrocarbons	5600	--	10	-	-	-	-	-	-	-	-	-
	Petroleum Hydrocarbons (gasoline)	--	1000	10	-	-	-	-	-	-	-	-	-
	Petroleum Hydrocarbons (diesel)	--	1000	10	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons (heavy oils)	--	1000	50	-	-	-	-	-	-	-	-	-	
Metals	Antimony	--	13	1	< 1.0	13	2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Arsenic	12	20	1	< 1.0	5	2	2	2	3	22	< 1.0	200
	Barium	500	750	10	140	90	170	230	160	790	70	140	90
	Beryllium	--	1.2	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	Cadmium	10	12	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Calcium	--	--	200	17000	56000	75000	31000	47000	180000	13000	17000	46000
	Chromium	64	750	5	55	20	35	35	45	10	20	40	15
	Cobalt	--	40	5	10	< 5.0	5	10	10	< 5.0	< 5.0	10	10
	Copper	63	225	5	25	35	20	45	25	10	50	20	25
	Iron	--	--	200	21000	12000	14000	17000	20000	8000	37000	18000	61000
	Lead	140	200	5	15	480	180	150	25	10	130	35	35
	Magnesium	--	--	200	9000	3400	6000	6200	28000	5200	1200	7600	1200
	Molybdenum	--	40	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2	< 1.0	2
	Nickel	50	150	5	25	15	20	25	30	25	15	20	20
	Selenium	--	10	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	6
	Silver	--	20	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Sodium	--	--	200	600	400	400	600	800	200	200	600	400
	Thallium	1	4.1	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tin	--	--	5	< 5.0	10	10	25	< 5.0	< 5.0	10	< 5.0	< 5.0
	Vanadium	130	200	10	50	10	30	40	50	10	20	40	10
Zinc	200	600	20	60	80	60	100	60	40	80	60	40	
Mercury	6.6	10	0.1	< 0.10	0.3	0.3	0.7	< 0.10	< 0.10	0.4	< 0.10	0.2	
Boron (available)	--	1.5	1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	
Hexavalent Chromium	0.4	8	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
BTEX	Benzene	0.5	5.3	0.025	-	-	-	-	-	-	-	-	
	Ethylbenzene	1.2	290	0.025	-	-	-	-	-	-	-	-	
	Toluene	0.8	34	0.025	-	-	-	-	-	-	-	-	
	m/p-Xylene	1	34	0.05	-	-	-	-	-	-	-	-	
	o-Xylene	1	34	0.025	-	-	-	-	-	-	-	-	
PAHs	Acenaphthene	--	1000	0.017	-	-	-	-	-	-	-	-	
	Acenaphthylene	--	100	0.017	-	-	-	-	-	-	-	-	
	Anthracene	--	28	0.017	-	-	-	-	-	-	-	-	
	Benzo[a]anthracene	--	40	0.017	-	-	-	-	-	-	-	-	
	Benzo[a]pyrene	0.7	1.2	0.017	-	-	-	-	-	-	-	-	
	Benzo[b]fluoranthene	--	12	0.017	-	-	-	-	-	-	-	-	
	Benzo[ghi]perylene	--	40	0.017	-	-	-	-	-	-	-	-	
	Benzo[k]fluoranthene	--	12	0.017	-	-	-	-	-	-	-	-	
	Biphenyl	--	4.3	0.017	-	-	-	-	-	-	-	-	

TABLE 2 : RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA

PAH													
	Concentration	CCME	MOEE	45	56	-	--	-	-	-	-	-	-
Chrysene	--	12	0.017	-	-	-	-	-	-	-	-	-	-
Dibenzo[a,h]anthracene	--	1.2	0.017	-	-	-	-	-	-	-	-	-	-
Fluoranthene	--	40	0.017	-	-	-	-	-	-	-	-	-	-
Fluorene	--	350	0.017	-	-	-	-	-	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	--	12	0.017	-	-	-	-	-	-	-	-	-	-
1-Methylnaphthalene	--	280	0.017	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	--	280	0.017	-	-	-	-	-	-	-	-	-	-
Naphthalene	0.6	40	0.017	-	-	-	-	-	-	-	-	-	-
Phenanthrene	--	40	0.017	-	-	-	-	-	-	-	-	-	-
Pyrene	--	250	0.017	-	-	-	-	-	-	-	-	-	-
VOCs	Benzene	0.5	5.3	0.002	-	-	-	-	-	-	-	-	-
	Bromodichloromethane	--	14	0.002	-	-	-	-	-	-	-	-	-
	Bromoform	--	2.3	0.002	-	-	-	-	-	-	-	-	-
	Bromomethane	--	0.061	0.003	-	-	-	-	-	-	-	-	-
	Carbon Tetrachloride	--	0.1	0.002	-	-	-	-	-	-	-	-	-
	Chlorobenzene	--	8	0.002	-	-	-	-	-	-	-	-	-
	Chloroethane	--	--	0.005	-	-	-	-	-	-	-	-	-
	Chloroform	--	0.79	0.003	-	-	-	-	-	-	-	-	-
	Chloromethane	--	--	0.015	-	-	-	-	-	-	-	-	-
	Dibromochloromethane	--	10	0.002	-	-	-	-	-	-	-	-	-
	1,2-Dibromoethane	--	--	0.002	-	-	-	-	-	-	-	-	-
	m-Dichlorobenzene	--	30	0.002	-	-	-	-	-	-	-	-	-
	o-Dichlorobenzene	--	30	0.002	-	-	-	-	-	-	-	-	-
	p-Dichlorobenzene	--	30	0.002	-	-	-	-	-	-	-	-	-
	1,1-Dichloroethane	--	22	0.002	-	-	-	-	-	-	-	-	-
	1,2-Dichloroethane	--	0.022	0.002	-	-	-	-	-	-	-	-	-
	1,1-Dichloroethylene	--	0.0024	0.002	-	-	-	-	-	-	-	-	-
	c-1,2-Dichloroethylene	--	2.3	0.002	-	-	-	-	-	-	-	-	-
	t-1,2-Dichloroethylene	--	4.1	0.003	-	-	-	-	-	-	-	-	-
	1,2-Dichloropropane	--	0.019	0.002	-	-	-	-	-	-	-	-	-
	c-1,3-Dichloropropene	--	0.0066	0.002	-	-	-	-	-	-	-	-	-
	t-1,3-Dichloropropene	--	0.0066	0.002	-	-	-	-	-	-	-	-	-
	Ethylbenzene	1.2	290	0.002	-	-	-	-	-	-	-	-	-
	Methylene Chloride	--	120	0.02	-	-	-	-	-	-	-	-	-
	Styrene	--	1.2	0.002	-	-	-	-	-	-	-	-	-
	1,1,2,2-Tetrachloroethane	0.2	0.037	0.003	-	-	-	-	-	-	-	-	-
	Tetrachloroethylene	0.2	0.45	0.002	-	-	-	-	-	-	-	-	-
	Toluene	0.8	34	0.002	-	-	-	-	-	-	-	-	-
	1,1,1-Trichloroethane	--	26	0.002	-	-	-	-	-	-	-	-	-
	1,1,2-Trichloroethane	3	2.3	0.002	-	-	-	-	-	-	-	-	-
Trichloroethylene	3	1.1	0.003	-	-	-	-	-	-	-	-	-	
Trichlorofluoromethane	--	--	0.005	-	-	-	-	-	-	-	-	-	
1,3,5-Trimethylbenzene	--	--	0.003	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	--	0.003	0.002	-	-	-	-	-	-	-	-	-	
m/p-Xylene	1	34	0.002	-	-	-	-	-	-	-	-	-	
o-Xylene	1	34	0.002	-	-	-	-	-	-	-	-	-	

Notes:

- 45 Exceeding CCME Criteria
- 56 Exceeding MOEE criteria
- Not analysed
- No criteria for this parameter

⁽¹⁾ CCME Soil criteria for residential/parkland land use

⁽²⁾ MOEE Table B Surface soil and groundwater criteria for residential/parkland land use for a non potable groundwater condition (coarse textured soil with pH between 5.0 and 11.0)

TABLE 2 : RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA

TABLE 2 : RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA

Parameter	CCME Criteria (1)	MOEE Criteria (2)	MDL	Sampling site, sample number and depth									
	Residential/Park and mg/kg	Residential/Park and mg/kg		TP-01-13		TP-01-14	TP-01-15		TP-01-16	TP-01-17	TP-01-18		
				GS-2	GS-3	GS-1	GS-1	GS-2	GS-1	GS-1	GS-2	GS-3	
				1.1-2.6	2.6-2.95	0.2-0.8	0-1.0	0-2.5	0.0-1.0	0-1.1	1.2-1.5	1.5-2.8	
PH	C ₆ -C ₁₀ Petroleum Hydrocarbons	260	--	20	-	-	-	-	-	-	-	-	-
	C ₁₁ -C ₁₆ Petroleum Hydrocarbons	900	--	10	-	-	-	-	-	-	-	-	-
	C ₁₇ -C ₃₄ Petroleum Hydrocarbons	800	--	10	-	-	-	-	-	-	-	-	-
	>C ₃₄ Petroleum Hydrocarbons	5600	--	10	-	-	-	-	-	-	-	-	-
	Petroleum Hydrocarbons (gasoline)	--	1000	10	-	-	-	-	-	-	-	-	-
	Petroleum Hydrocarbons (diesel)	--	1000	10	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons (heavy oils)	--	1000	50	-	-	-	-	-	-	-	-	-	
Metals	Antimony	--	13	1	< 1.0	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Arsenic	12	20	1	19	-	< 1.0	< 1.0	96	2	67	17	3
	Barium	500	750	10	140	-	120	180	150	150	470	210	50
	Beryllium	--	1.2	0.5	< 0.50	-	< 0.50	< 0.50	< 0.50	< 0.50	1	1	< 0.50
	Cadmium	10	12	1	< 1.0	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Calcium	--	--	200	66000	-	51000	15000	13000	71000	21000	8000	10000
	Chromium	64	750	5	25	-	15	45	20	35	25	10	< 5.0
	Cobalt	--	40	5	5	-	< 5.0	10	25	5	10	< 5.0	< 5.0
	Copper	63	225	5	25	-	20	25	120	20	75	45	10
	Iron	--	--	200	17000	-	9600	21000	84000	15000	40000	19000	3600
	Lead	140	200	5	2500	-	70	30	75	120	160	25	60
	Magnesium	--	--	200	4600	-	6800	8000	1200	6000	2400	600	600
	Molybdenum	--	40	1	< 1.0	-	< 1.0	< 1.0	27	< 1.0	3	1	< 1.0
	Nickel	50	150	5	20	-	15	20	45	20	25	10	< 5.0
	Selenium	--	10	1	< 1.0	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Silver	--	20	5	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Sodium	--	--	200	400	-	200	600	200	400	400	400	< 200
	Thallium	1	4.1	1	< 1.0	-	< 1.0	< 1.0	< 1.0	< 1.0	1	< 1.0	< 1.0
	Tin	--	--	5	< 5.0	-	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Vanadium	130	200	10	20	-	20	50	20	30	20	10	< 10
Zinc	200	600	20	60	-	40	60	100	60	340	60	20	
Mercury	6.6	10	0.1	0.2	-	0.2	< 0.10	0.2	0.3	0.4	0.1	0.3	
Boron (available)	--	1.5	1.5	< 1.5	-	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	
Hexavalent Chromium	0.4	8	0.1	< 0.10	-	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
BTEX	Benzene	0.5	5.3	0.025	-	-	-	-	-	-	-	-	
	Ethylbenzene	1.2	290	0.025	-	-	-	-	-	-	-	-	
	Toluene	0.8	34	0.025	-	-	-	-	-	-	-	-	
	m/p-Xylene	1	34	0.05	-	-	-	-	-	-	-	-	
	o-Xylene	1	34	0.025	-	-	-	-	-	-	-	-	
PAHs	Acenaphthene	--	1000	0.017	-	0.12	-	-	-	-	-	-	
	Acenaphthylene	--	100	0.017	-	0.4	-	-	-	-	-	-	
	Anthracene	--	28	0.017	-	0.38	-	-	-	-	-	-	
	Benzo[a]anthracene	--	40	0.017	-	0.92	-	-	-	-	-	-	
	Benzo[a]pyrene	0.7	1.2	0.017	-	0.68	-	-	-	-	-	-	
	Benzo[b]fluoranthene	--	12	0.017	-	1.1	-	-	-	-	-	-	
	Benzo[ghi]perylene	--	40	0.017	-	0.45	-	-	-	-	-	-	
	Benzo[k]fluoranthene	--	12	0.017	-	-	-	-	-	-	-	-	
	Biphenyl	--	4.3	0.017	-	0.73	-	-	-	-	-	-	

TABLE 2 : RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA

PAH	RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA												
	Concentration (µg/kg)	CCME Criteria (µg/kg)	MOEE Criteria (µg/kg)	Not analysed	Exceeding CCME Criteria	Exceeding MOEE criteria	Not analysed	Exceeding CCME Criteria	Exceeding MOEE criteria	Not analysed	Exceeding CCME Criteria	Exceeding MOEE criteria	Not analysed
Chrysene	--	12	0.017	-	1.2	-	-	-	-	-	-	-	-
Dibenzo[a,h]anthracene	--	1.2	0.017	-	0.26	-	-	-	-	-	-	-	-
Fluoranthene	--	40	0.017	-	1.3	-	-	-	-	-	-	-	-
Fluorene	--	350	0.017	-	0.26	-	-	-	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	--	12	0.017	-	0.4	-	-	-	-	-	-	-	-
1-Methylnaphthalene	--	280	0.017	-	8.7	-	-	-	-	-	-	-	-
2-Methylnaphthalene	--	280	0.017	-	8.1	-	-	-	-	-	-	-	-
Naphthalene	0.6	40	0.017	-	5.1	-	-	-	-	-	-	-	-
Phenanthrene	--	40	0.017	-	3.7	-	-	-	-	-	-	-	-
Pyrene	--	250	0.017	-	1.5	-	-	-	-	-	-	-	-
Benzene	0.5	5.3	0.002	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	--	14	0.002	-	-	-	-	-	-	-	-	-	-
Bromoform	--	2.3	0.002	-	-	-	-	-	-	-	-	-	-
Bromomethane	--	0.061	0.003	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	--	0.1	0.002	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	--	8	0.002	-	-	-	-	-	-	-	-	-	-
Chloroethane	--	--	0.005	-	-	-	-	-	-	-	-	-	-
Chloroform	--	0.79	0.003	-	-	-	-	-	-	-	-	-	-
Chloromethane	--	--	0.015	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	--	10	0.002	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	--	--	0.002	-	-	-	-	-	-	-	-	-	-
m-Dichlorobenzene	--	30	0.002	-	-	-	-	-	-	-	-	-	-
o-Dichlorobenzene	--	30	0.002	-	-	-	-	-	-	-	-	-	-
p-Dichlorobenzene	--	30	0.002	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	--	22	0.002	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	--	0.022	0.002	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethylene	--	0.0024	0.002	-	-	-	-	-	-	-	-	-	-
c-1,2-Dichloroethylene	--	2.3	0.002	-	-	-	-	-	-	-	-	-	-
t-1,2-Dichloroethylene	--	4.1	0.003	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	--	0.019	0.002	-	-	-	-	-	-	-	-	-	-
c-1,3-Dichloropropene	--	0.0066	0.002	-	-	-	-	-	-	-	-	-	-
t-1,3-Dichloropropene	--	0.0066	0.002	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	1.2	290	0.002	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	--	120	0.02	-	-	-	-	-	-	-	-	-	-
Styrene	--	1.2	0.002	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.2	0.037	0.003	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	0.2	0.45	0.002	-	-	-	-	-	-	-	-	-	-
Toluene	0.8	34	0.002	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	--	26	0.002	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	3	2.3	0.002	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	3	1.1	0.003	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	--	--	0.005	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	--	--	0.003	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	--	0.003	0.002	-	-	-	-	-	-	-	-	-	-
m/p-Xylene	1	34	0.002	-	-	-	-	-	-	-	-	-	-
o-Xylene	1	34	0.002	-	-	-	-	-	-	-	-	-	-

Notes:

- 45 Exceeding CCME Criteria
- 56 Exceeding MOEE criteria
- Not analysed
- No criteria for this parameter

⁽¹⁾ CCME Soil criteria for residential/parkland land use

⁽²⁾ MOEE Table B Surface soil and groundwater criteria for residential/parkland land use for a non potable groundwater condition (coarse textured soil with pH between 5,0 and 11,0)

TABLE 2 : RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA

TABLE 2 : RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA

Parameter	CCME Criteria (1)	MOEE Criteria (2)	MDL	Sampling site, sample number and depth										
	Residential/Park and mg/kg	Residential/Park and mg/kg		TP-01-19		TP-01-20	TP-01-21	TP-01-22		TP-01-23	TP-01-24			
				GS-1	GS-2	GS-1	GS-1	GS-1	GS-2	GS-3	GS-1	GS-2		
				0.0-1.0	1.0-1.5	0.0-0.8	0.0-2-1	0.0-1.0	2.5-3.1	2.6-3.3	0.0-2.0	3-3.6		
PH	C ₆ -C ₁₀ Petroleum Hydrocarbons	260	--	20	-	-	-	-	-	-	-	-	-	< 20
	C ₁₁ -C ₁₆ Petroleum Hydrocarbons	900	--	10	-	-	-	-	-	-	-	-	-	10
	C ₁₇ -C ₃₄ Petroleum Hydrocarbons	800	--	10	-	-	-	-	-	-	-	-	-	100
	>C ₃₄ Petroleum Hydrocarbons	5600	--	10	-	-	-	-	-	-	-	-	-	30
	Petroleum Hydrocarbons (gasoline)	--	1000	10	-	-	-	-	-	-	-	-	-	< 10
	Petroleum Hydrocarbons (diesel)	--	1000	10	-	-	-	-	-	-	-	-	-	30
	Petroleum Hydrocarbons (heavy oils)	--	1000	50	-	-	-	-	-	-	-	-	-	200
Metals	Antimony	--	13	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Arsenic	12	20	1	< 1.0	17	< 1.0	6	< 1.0	68	8	< 1.0	23	
	Barium	500	750	10	40	90	360	100	110	100	110	130	100	
	Beryllium	--	1.2	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	1	< 0.50	0.5	
	Cadmium	10	12	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	Calcium	--	--	200	36000	8000	9000	96000	45000	18000	39000	47000	10000	
	Chromium	64	750	5	10	10	95	15	20	10	15	30	10	
	Cobalt	--	40	5	< 5.0	5	20	5	5	5	10	10	5	
	Copper	63	225	5	5	20	30	20	20	15	20	20	20	
	Iron	--	--	200	5800	19000	35000	12000	11000	12000	17000	15000	25000	
	Lead	140	200	5	20	85	10	60	80	65	55	20	75	
	Magnesium	--	--	200	2800	800	14000	6000	5800	1600	6800	10000	600	
	Molybdenum	--	40	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2	
	Nickel	50	150	5	5	10	45	15	15	10	20	20	15	
	Selenium	--	10	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	Silver	--	20	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	
	Sodium	--	--	200	200	400	2400	200	400	400	600	600	200	
	Thallium	1	4.1	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
	Tin	--	--	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5	< 5.0	< 5.0	< 5.0	
	Vanadium	130	200	10	10	< 10	80	20	20	10	20	30	10	
Zinc	200	600	20	< 20	20	100	40	40	40	40	40	40		
Mercury	6.6	10	0.1	0.2	0.3	< 0.10	0.3	0.2	0.1	0.4	0.1	0.6		
Boron (available)	--	1.5	1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5		
Hexavalent Chromium	0.4	8	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10		
BTEX	Benzene	0.5	5.3	0.025	-	-	-	-	-	-	-	-	0.1	
	Ethylbenzene	1.2	290	0.025	-	-	-	-	-	-	-	-	< 0.025	
	Toluene	0.8	34	0.025	-	-	-	-	-	-	-	-	0.1	
	m/p-Xylene	1	34	0.05	-	-	-	-	-	-	-	-	0.1	
	o-Xylene	1	34	0.025	-	-	-	-	-	-	-	-	< 0.025	
PAHs	Acenaphthene	--	1000	0.017	-	0.12	-	-	-	0.017	-	-	-	
	Acenaphthylene	--	100	0.017	-	0.05	-	-	-	0.017	-	-	-	
	Anthracene	--	28	0.017	-	0.3	-	-	-	0.033	-	-	-	
	Benzo[a]anthracene	--	40	0.017	-	0.53	-	-	-	0.099	-	-	-	
	Benzo[a]pyrene	0.7	1.2	0.017	-	0.38	-	-	-	0.066	-	-	-	
	Benzo[b]fluoranthene	--	12	0.017	-	0.66	-	-	-	0.099	-	-	-	
	Benzo[ghi]perylene	--	40	0.017	-	0.31	-	-	-	0.066	-	-	-	
	Benzo[k]fluoranthene	--	12	0.017	-	0.66	-	-	-	0.099	-	-	-	
	Biphenyl	--	4.3	0.017	-	0.17	-	-	-	0.066	-	-	-	

TABLE 2 : RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA

PAH	RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA												
	Concentration (µg/kg)	CCME Criteria (µg/kg)	MOEE Criteria (µg/kg)	CCME Criteria (µg/kg)	MOEE Criteria (µg/kg)	CCME Criteria (µg/kg)	MOEE Criteria (µg/kg)	CCME Criteria (µg/kg)	MOEE Criteria (µg/kg)	CCME Criteria (µg/kg)	MOEE Criteria (µg/kg)	CCME Criteria (µg/kg)	MOEE Criteria (µg/kg)
Chrysene	--	12	0.017	-	0.66	-	-	-	-	0.2	-	-	-
Dibenzo[a,h]anthracene	--	1.2	0.017	-	0.15	-	-	-	-	0.033	-	-	-
Fluoranthene	--	40	0.017	-	1.2	-	-	-	-	0.12	-	-	-
Fluorene	--	350	0.017	-	0.13	-	-	-	-	0.033	-	-	-
Indeno[1,2,3-cd]pyrene	--	12	0.017	-	0.25	-	-	-	-	0.033	-	-	-
1-Methylnaphthalene	--	280	0.017	-	1.8	-	-	-	-	1.2	-	-	-
2-Methylnaphthalene	--	280	0.017	-	1.7	-	-	-	-	0.92	-	-	-
Naphthalene	0.6	40	0.017	-	1	-	-	-	-	0.43	-	-	-
Phenanthrene	--	40	0.017	-	1.4	-	-	-	-	0.5	-	-	-
Pyrene	--	250	0.017	-	1	-	-	-	-	0.15	-	-	-
Benzene	0.5	5.3	0.002	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	--	14	0.002	-	-	-	-	-	-	-	-	-	-
Bromoform	--	2.3	0.002	-	-	-	-	-	-	-	-	-	-
Bromomethane	--	0.061	0.003	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride	--	0.1	0.002	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	--	8	0.002	-	-	-	-	-	-	-	-	-	-
Chloroethane	--	--	0.005	-	-	-	-	-	-	-	-	-	-
Chloroform	--	0.79	0.003	-	-	-	-	-	-	-	-	-	-
Chloromethane	--	--	0.015	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	--	10	0.002	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane	--	--	0.002	-	-	-	-	-	-	-	-	-	-
m-Dichlorobenzene	--	30	0.002	-	-	-	-	-	-	-	-	-	-
o-Dichlorobenzene	--	30	0.002	-	-	-	-	-	-	-	-	-	-
p-Dichlorobenzene	--	30	0.002	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	--	22	0.002	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	--	0.022	0.002	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethylene	--	0.0024	0.002	-	-	-	-	-	-	-	-	-	-
c-1,2-Dichloroethylene	--	2.3	0.002	-	-	-	-	-	-	-	-	-	-
t-1,2-Dichloroethylene	--	4.1	0.003	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	--	0.019	0.002	-	-	-	-	-	-	-	-	-	-
c-1,3-Dichloropropene	--	0.0066	0.002	-	-	-	-	-	-	-	-	-	-
t-1,3-Dichloropropene	--	0.0066	0.002	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	1.2	290	0.002	-	-	-	-	-	-	-	-	-	-
Methylene Chloride	--	120	0.02	-	-	-	-	-	-	-	-	-	-
Styrene	--	1.2	0.002	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.2	0.037	0.003	-	-	-	-	-	-	-	-	-	-
Tetrachloroethylene	0.2	0.45	0.002	-	-	-	-	-	-	-	-	-	-
Toluene	0.8	34	0.002	-	-	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	--	26	0.002	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	3	2.3	0.002	-	-	-	-	-	-	-	-	-	-
Trichloroethylene	3	1.1	0.003	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane	--	--	0.005	-	-	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	--	--	0.003	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	--	0.003	0.002	-	-	-	-	-	-	-	-	-	-
m/p-Xylene	1	34	0.002	-	-	-	-	-	-	-	-	-	-
o-Xylene	1	34	0.002	-	-	-	-	-	-	-	-	-	-

Notes:

- 45 Exceeding CCME Criteria
- 56 Exceeding MOEE criteria
- Not analysed
- No criteria for this parameter

⁽¹⁾ CCME Soil criteria for residential/parkland land use

⁽²⁾ MOEE Table B Surface soil and groundwater criteria for residential/parkland land use for a non potable groundwater condition (coarse textured soil with pH between 5,0 and 11,0)

TABLE 2 : RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA

TABLE 2 : RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA

Parameter		CCME Criteria (1)	MOEE Criteria (2)	MDL	Sampling site, sample number and depth						
		Residential/Park and	Residential/Park and		TP-01-25		TP-01-26	TP-01-27	TP-01-28	TP-01-29	
		mg/kg	mg/kg		GS-1	GS-2	GS-2	GS-2	GS-2	GS-1	GS-2
					0.0-0.8	0.8-1.5	2.1-4.0	0.5-2.1	0.6-1.6	0.0-0.9	0.9-1.4
PH	C ₆ -C ₁₀ Petroleum Hydrocarbons	260	--	20	-	-	-	-	-	-	-
	C ₁₁ -C ₁₆ Petroleum Hydrocarbons	900	--	10	-	-	-	-	-	-	-
	C ₁₇ -C ₃₄ Petroleum Hydrocarbons	800	--	10	-	-	-	-	-	-	-
	>C ₃₄ Petroleum Hydrocarbons	5600	--	10	-	-	-	-	-	-	-
	Petroleum Hydrocarbons (gasoline)	--	1000	10	-	-	-	-	-	-	-
	Petroleum Hydrocarbons (diesel)	--	1000	10	-	-	-	-	-	-	-
	Petroleum Hydrocarbons (heavy oils)	--	1000	50	-	-	-	-	-	-	-
Metals	Antimony	--	13	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Arsenic	12	20	1	< 1.0	8	< 1.0	< 1.0	5	6	< 1.0
	Barium	500	750	10	140	80	170	170	100	60	20
	Beryllium	--	1.2	0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
	Cadmium	10	12	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Calcium	--	--	200	32000	4800	37000	70000	40000	1800	16000
	Chromium	64	750	5	30	10	35	15	15	10	5
	Cobalt	--	40	5	10	< 5.0	10	< 5.0	< 5.0	< 5.0	< 5.0
	Copper	63	225	5	35	25	35	25	25	10	10
	Iron	--	--	200	19000	20000	20000	9800	15000	11000	6800
	Lead	140	200	5	55	35	40	240	110	15	< 5.0
	Magnesium	--	--	200	8200	800	9800	5800	2800	2200	3000
	Molybdenum	--	40	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Nickel	50	150	5	20	15	25	10	15	10	5
	Selenium	--	10	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Silver	--	20	5	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Sodium	--	--	200	400	< 200	800	200	200	200	< 200
	Thallium	1	4.1	1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
	Tin	--	--	5	20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
	Vanadium	130	200	10	40	10	40	20	20	20	10
Zinc	200	600	20	60	40	60	240	60	40	< 20	
Mercury	6.6	10	0.1	0.3	0.2	0.4	0.4	0.7	0.2	0.1	
Boron (available)	--	1.5	1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	
Hexavalent Chromium	0.4	8	0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
BTEX	Benzene	0.5	5.3	0.025	-	-	-	-	-	-	-
	Ethylbenzene	1.2	290	0.025	-	-	-	-	-	-	-
	Toluene	0.8	34	0.025	-	-	-	-	-	-	-
	m/p-Xylene	1	34	0.05	-	-	-	-	-	-	-
	o-Xylene	1	34	0.025	-	-	-	-	-	-	-
	Acenaphthene	--	1000	0.017	-	0.066	-	-	-	-	-
	Acenaphthylene	--	100	0.017	-	0.05	-	-	-	-	-
	Anthracene	--	28	0.017	-	0.099	-	-	-	-	-
	Benzo[a]anthracene	--	40	0.017	-	0.21	-	-	-	-	-
	Benzo[a]pyrene	0.7	1.2	0.017	-	0.099	-	-	-	-	-
	Benzo[b]fluoranthene	--	12	0.017	-	0.2	-	-	-	-	-
	Benzo[ghi]perylene	--	40	0.017	-	0.05	-	-	-	-	-
	Benzo[k]fluoranthene	--	12	0.017	-	0.2	-	-	-	-	-
	Biphenyl	--	4.3	0.017	-	0.18	-	-	-	-	-

TABLE 2 : RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA

PAH	RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA										
	Concentration (mg/kg)	CCME Criteria (mg/kg)	MOEE Criteria (mg/kg)	CCME Criteria (mg/kg)	MOEE Criteria (mg/kg)	CCME Criteria (mg/kg)	MOEE Criteria (mg/kg)	CCME Criteria (mg/kg)	MOEE Criteria (mg/kg)	CCME Criteria (mg/kg)	MOEE Criteria (mg/kg)
Chrysene	--	12	0.017	-	-	0.26	-	-	-	-	-
Dibenzo[a,h]anthracene	--	1.2	0.017	-	-	0.033	-	-	-	-	-
Fluoranthene	--	40	0.017	-	-	0.26	-	-	-	-	-
Fluorene	--	350	0.017	-	-	0.083	-	-	-	-	-
Indeno[1,2,3-cd]pyrene	--	12	0.017	-	-	0.033	-	-	-	-	-
1-Methylnaphthalene	--	280	0.017	-	-	4.6	-	-	-	-	-
2-Methylnaphthalene	--	280	0.017	-	-	3.6	-	-	-	-	-
Naphthalene	0.6	40	0.017	-	-	2.3	-	-	-	-	-
Phenanthrene	--	40	0.017	-	-	1.7	-	-	-	-	-
Pyrene	--	250	0.017	-	-	0.31	-	-	-	-	-
Benzene	0.5	5.3	0.002	-	-	-	-	-	-	-	-
Bromodichloromethane	--	14	0.002	-	-	-	-	-	-	-	-
Bromoform	--	2.3	0.002	-	-	-	-	-	-	-	-
Bromomethane	--	0.061	0.003	-	-	-	-	-	-	-	-
Carbon Tetrachloride	--	0.1	0.002	-	-	-	-	-	-	-	-
Chlorobenzene	--	8	0.002	-	-	-	-	-	-	-	-
Chloroethane	--	--	0.005	-	-	-	-	-	-	-	-
Chloroform	--	0.79	0.003	-	-	-	-	-	-	-	-
Chloromethane	--	--	0.015	-	-	-	-	-	-	-	-
Dibromochloromethane	--	10	0.002	-	-	-	-	-	-	-	-
1,2-Dibromoethane	--	--	0.002	-	-	-	-	-	-	-	-
m-Dichlorobenzene	--	30	0.002	-	-	-	-	-	-	-	-
o-Dichlorobenzene	--	30	0.002	-	-	-	-	-	-	-	-
p-Dichlorobenzene	--	30	0.002	-	-	-	-	-	-	-	-
1,1-Dichloroethane	--	22	0.002	-	-	-	-	-	-	-	-
1,2-Dichloroethane	--	0.022	0.002	-	-	-	-	-	-	-	-
1,1-Dichloroethylene	--	0.0024	0.002	-	-	-	-	-	-	-	-
c-1,2-Dichloroethylene	--	2.3	0.002	-	-	-	-	-	-	-	-
t-1,2-Dichloroethylene	--	4.1	0.003	-	-	-	-	-	-	-	-
1,2-Dichloropropane	--	0.019	0.002	-	-	-	-	-	-	-	-
c-1,3-Dichloropropene	--	0.0066	0.002	-	-	-	-	-	-	-	-
t-1,3-Dichloropropene	--	0.0066	0.002	-	-	-	-	-	-	-	-
Ethylbenzene	1.2	290	0.002	-	-	-	-	-	-	-	-
Methylene Chloride	--	120	0.02	-	-	-	-	-	-	-	-
Styrene	--	1.2	0.002	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	0.2	0.037	0.003	-	-	-	-	-	-	-	-
Tetrachloroethylene	0.2	0.45	0.002	-	-	-	-	-	-	-	-
Toluene	0.8	34	0.002	-	-	-	-	-	-	-	-
1,1,1-Trichloroethane	--	26	0.002	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	3	2.3	0.002	-	-	-	-	-	-	-	-
Trichloroethylene	3	1.1	0.003	-	-	-	-	-	-	-	-
Trichlorofluoromethane	--	--	0.005	-	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	--	--	0.003	-	-	-	-	-	-	-	-
Vinyl Chloride	--	0.003	0.002	-	-	-	-	-	-	-	-
m/p-Xylene	1	34	0.002	-	-	-	-	-	-	-	-
o-Xylene	1	34	0.002	-	-	-	-	-	-	-	-

Notes:

- 45 Exceeding CCME Criteria
- 56 Exceeding MOEE criteria
- Not analysed
- No criteria for this parameter

⁽¹⁾ CCME Soil criteria for residential/parkland land use

⁽²⁾ MOEE Table B Surface soil and groundwater criteria for residential/parkland land use for a non potable groundwater condition (coarse textured soil with pH between 5,0 and 11,0)

TABLE 2 : RESULTS OF SOIL CHEMICAL ANALYSES - OTTAWA RIVERBANK AREA