

**Peterborough County/City Waste Management Facility**

**Soil Acceptance Application Form**

The Peterborough County/City Waste Management Facility accepts contaminated soils for daily cover or disposal, only after the results of lab analysis of the soil have been approved by City Staff. This soil acceptance application form is required to initiate the review process.

Please complete this application form and forward it along with supporting documents to:

Waste Management Division  
City of Peterborough  
500 George Street North  
Peterborough, ON, K9H 3R9  
Fax Number: (705) 876-4621

**For further information, please contact Craig Simmons at (705) 742-7777 Ext 2152,  
Fax: (705) 743-8456, or email csimmons@peterborough.ca.**

**Section A – Contact Information**

Company Name: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Address \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

**Submitted By:**

Print Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_ ***(dd/mm/yyyy)***

**Section B – Site Information**

Source of Material Address: \_\_\_\_\_

Current Land Use: \_\_\_\_\_

Historic Land Use: \_\_\_\_\_

**Section C – Material Information**

Estimated Volume / Tonne of Material: \_\_\_\_\_

Source of Contamination: \_\_\_\_\_

Specific Material Characteristics (soil type, porosity, particle size, etc.):

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Comments: \_\_\_\_\_  
\_\_\_\_\_

**Section D – Chemical Acceptance Criteria**

Appropriate Report of Analysis must be submitted with this application form along with site and sample location plans. Chemical analysis must be sufficient in quantity and scope to represent all the material to be disposed of and all of the suspected contaminants. Analysis and criteria should be listed side by side, and any parameters in excess of the guidelines highlighted.

**1. For Use as Daily Cover: (\$20/tonne as per Waste Management By-law 07-027)**

- Any material that is not liquid industrial or hazardous and complies with the requirements specified in Regulation 347/558 Schedule 4 TCLP - Leachate Criteria AND,
- Any material with results of chemical analysis that comply with “Subsurface Soil Criteria for Industrial/Commercial Land Use for a Non-potable Groundwater Condition” Table D, in Guideline for Use at Contaminated Sites in Ontario (MOE Revised 1997) (See Attachment 1).

**2. For Disposal as Waste: (\$85/tonne as per Waste Management By-law 07-027)**

- Any material that is not liquid industrial or hazardous and complies with the requirements specified in Regulation 347/558 Schedule 4 TCLP – Leachate Criteria. (See Attachment 2).

**Intended Use of Contaminated Material:**

1. Daily Cover

2. Waste

**DISCLAIMER:** The City of Peterborough reserves the right to reject any application/load (even if the soil criteria are met) in order to protect leachate quality, address landfill capacity concerns, to comply with Certificate of Approval limitations and other regulations, etc.

<b><u>For Office Use Only:</u></b>			
Accepted EP Direction:	<input type="checkbox"/> Daily Cover	<input type="checkbox"/> Disposal	<input type="checkbox"/> Denied
Author Approval:	<input type="checkbox"/>	Date:	<input type="checkbox"/>
WM Staff Direction:			
Staff Approval:		Date:	

Table D: Subsurface soil remediation criteria for two land uses (residential/parkland and industrial/commercial) in a nonpotable groundwater situation.

Soil criteria for inorganics in this table apply only where soil pH is 5.0 To 11.0		
Table D:	Soil remediation criteria (ug/g)	
Chemical compound	Residential/ parkland land use	Industrial/ commercial land use
ACENAPHTHENE	1300	1300*
ACENAPHTHYLENE	840	840*
ACETONE	3.8*	3.8*
ALDRIN	0.05*	0.15
ANTHRACENE	28*	28*
ANTIMONY	44	44**
ARSENIC	(50) 40	N/V
BARIUM	2500	4100
BENZENE	63	(230) 89
BENZO(a)ANTHRACENE	170	170
BENZO(a)PYRENE	1.9	7.2
BENZO(b)FLUORANTHENE	19	72
BENZO(g,h,i)PERYLENE	53	53
BENZO(k)FLUORANTHENE	19	37
BERYLLIUM	1.2*	3.1
BIPHENYL, 1,1-	4.3*	4.3*
BIS(2-CHLOROETHYL)ETHER	0.66*	0.66*
BIS(2-CHLOROISOPROPYL)ETHER	2.6	(9.3) 4.7
BIS(2-ETHYLHEXYL)PHTHALATE	330	500
BORON (AVAILABLE)	2.0*	N/V

Soil criteria for inorganics in this table apply only where soil pH is 5.0 To 11.0

Table D:	Soil remediation criteria (ug/g)	
Chemical compound	Residential/ parkland/ land use	Industrial/ commercial land use
BROMODICHLOROMETHANE	25	90
BROMOFORM	(120) 19	(120) 19
BROMOMETHANE	(20) 4.5	(20) 4.5
CADMIUM	41	41
CARBON TETRACHLORIDE	(12) 3.3	(20) 3.3
CHLORDANE	0.29*	0.29*
CHLOROANILINE, p-	1.3*	1.3*
CHLOROBENZENE	40	40
CHLOROFORM	(71) 11	(71) 11
CHLOROPHENOL, 2-	240	800
CHROMIUM (TOTAL))	2500	5000
CHROMIUM (VI)	600	1100
CHRYSENE	19	72
COBALT	2500	3400
COPPER	2500	2500
CYANIDE (FREE)	100*	390
DIBENZO(a,h)ANTHRACENE	1.9	7.2
DIBROMOCHLOROMETHANE	18	67
DICHLOROBENZENE, 1,2- (o-DCB)	500	500
DICHLOROBENZENE, 1,3- (m-DCB)	500	500
DICHLOROBENZENE, 1,4- (p-DCB)	63	230
DICHLOROBENZIDINE, 3,3'-	1.3*	2.7
DDD	3.5	13
DDE	2.4	8.9
DDT	2.0	2.0*
DICHLOROETHANE, 1,1-	(500) 390	(500) 390
DICHLOROETHANE, 1,2-	(1.0) 0.16	(1.0) 0.16
DICHLOROETHYLENE, 1,1-	(0.42) 0.07	(0.42) 0.07
DICHLOROETHYLENE, CIS-1,2-	2.3**	2.3**

Soil criteria for inorganics in this table apply only where soil pH is 5.0 To 11.0

Table D:	Soil remediation criteria (ug/g)	
Chemical compound	Residential/ parkland land use	Industrial/ commercial land use
DICHLOROETHYLENE, TRANS-1,2-	4.1 <sup>a*</sup>	4.1 <sup>a*</sup>
DICHLOROPHENOL, 2,4-	94	94
DICHLOROPROPANE, 1,2-	(1.5) 0.23	(1.5) 0.23
DICHLOROPROPENE, 1,3-	(0.62) 0.10	(0.62) 0.10
DIELDRIN	0.05*	0.05*
DIETHYL PHTHALATE	0.71*	0.71*
DIMETHYL PHTHALATE	0.7*	0.7*
DIMETHYLPHENOL, 2,4-	140*	140*
DINITROPHENOL, 2,4-	4.1*	4.1*
DINITROTOLUENE, 2,4-	1.8	6.6
DIOXIN/FURAN (ng TEQ/g soil)	1.0*	N/V
ENDOSULFAN	0.29*	0.29*
ENDRIN	0.05*	0.05*
ETHYLBENZENE	1000	2500
ETHYLENE DIBROMIDE	0.02	(0.066) 0.038
FLUORANTHENE	840	840
FLUORENE	350*	350*
HEPTACHLOR	0.15	0.15**
HEPTACHLOR EPOXIDE	0.09	0.33
HEXACHLOROBENZENE	0.76	2.8
HEXACHLOROBUTADIENE	(11) 4.3	(27) 4.3
HEXACHLOROCYCLOHEXANE, GAMMA	0.49	0.49*
HEXACHLOROETHANE	13	(47) 42
INDENO(1,2,3-cd)PYRENE	19	70
LEAD	1000	N/V
MERCURY	57	57
METHOXYCHLOR	4.0*	4.0*
METHYL ETHYL KETONE	38*	38*
METHYL ISOBUTYL KETONE	69**	69**

Soil criteria for inorganics in this table apply only where soil pH is 5.0 To 11.0

Table D:	Soil remediation criteria (ug/g)	
Chemical compound	Residential/ parkland land use	Industrial/ commercial land use
METHYL MERCURY	18 <sup>++</sup>	18 <sup>++</sup>
METHYL TERT BUTYL ETHER	410	410**
METHYLENE CHLORIDE	200	740
METHYLNAPHTHALENE, 2-(1-)	1600	1600**
MOLYBDENUM	550	550
NAPHTHALENE	(1400) 1300	(1400) 1300
NICKEL	710	710
PENTACHLOROPHENOL	12	43
PETROLEUM HYDROCARBONS(gas/diesel)	5000	(10000) 5000
PETROLEUM HYDROCARBONS(heavy oils)	5000	(10000) 5000*
PHENANTHRENE	150	150
PHENOL	390	390
POLYCHLORINATED BIPHENYLS	25	N/V
PYRENE	250*	250*
SELENIUM	2500	2500
SILVER	240	240
STYRENE	(28) 16	(99) 16
TETRACHLOROETHANE, 1,1,1,2-	(2.9) 0.46	(2.9) 0.46
TETRACHLOROETHANE, 1,1,2,2-	(0.64) 0.22	(1.4) 0.22
TETRACHLOROETHYLENE	0.45**	0.45**
THALLIUM	32	150
TOLUENE	(1000) 510	(2500) 510
TRICHLOROBENZENE, 1,2,4-	770	770
TRICHLOROETHANE, 1,1,1-	34***	34***
TRICHLOROETHANE, 1,1,2-	3.1	12
TRICHLOROETHYLENE	3.9***	3.9***
TRICHLOROPHENOL, 2,4,5-	10*	10*
TRICHLOROPHENOL 2,4,6-	59	220
VANADIUM	910	910

Soil criteria for inorganics in this table apply only where soil pH is 5.0 To 11.0		
Table D:	Soil remediation criteria (ug/g)	
Chemical compound	Residential/ parkland land use	Industrial/ commercial land use
VINYL CHLORIDE	(0.25) 0.094	(0.25) 0.094
XYLENES	(1000) 460	(2500) 460
ZINC	2500	5000
ELECTRICAL CONDUCTIVITY (mS/cm)	N/A	N/A
CHLORIDE	N/V	N/V
NITRATE	N/V	N/V
NITRITE	N/V	N/V
SODIUM ADSORPTION RATIO (SAR)	N/A	N/A
SODIUM	N/V	N/V

( ) Criterion value in brackets applies to medium and fine textured soils.

\* Criterion value is the same as the corresponding criterion in Table B.

\*\* Criterion value is the same as the corresponding medium/fine textured soil criterion in Table B.

+ Boron soil criterion based on hot water extract.

a Soil criterion adopted from Table C (potable groundwater situation) to account for degradation to vinyl chloride.

++ Analysis for methyl mercury is only required when the total mercury criterion is exceeded.

(\*1-) 2-methyl naphthalene soil criterion is applicable to 1-methyl naphthalene with the provision that if both are present in the soil, the sum of the two concentrations cannot exceed the soil criterion.

N/A = Not applicable; N/V = No value.

# REGULATION 347/558 SCHEDULE 4 TCLP LEACHATE CRITERIA

Note: On January 1, 2007, Schedule 4 is revoked and the following substituted:  
Schedule 4

## Leachate Quality Criteria

Contaminant	CAS Number <sup>1</sup>	Haz. Waste Number <sup>2</sup>	Concentration (mg/L TCLP)
Aldicarb	116-06-3	E101	0.9
Aldrin + Dieldrin	309-00-2, 60-57-1	E001	0.07
Arsenic	7440-38-2	D004	2.5
Atrazine + N-dealkylated metabolites (Weedex)	1912-24-9	E102	0.5
Azinphos-methyl	86-50-0	E103	2
Barium	7440-39-3	D005	100
Bendiocarb	22781-23-3	E002	4
Benzene	71-43-2	D018	0.5
Benzo(a)pyrene	50-32-8	E003	0.001
Boron	7440-42-8	E104	500
Bromoxynil	1689-84-5	E105	0.5
Cadmium	7440-43-9	D006	0.5
Carbaryl/Sevin/1-Naphthyl-N methyl carbamate	63-25-2	E004	9
Carbofuran	1563-66-2	E005	9
Carbon tetrachloride (Tetrachloromethane)	56-23-5	D019	0.5
Chlordane	57-74-9	D020	0.7
Chlorobenzene (Monochlorobenzene)	108-90-7	D021	8
Chloroform	67-66-3	D022	10
Chlorpyrifos	2921-88-2	E106	9
Chromium	7440-47-3	D007	5
Cresol (Mixture - total of all isomers, when isomers cannot be differentiated)		D026	200
m-Cresol	108-39-4	D024	200
o-Cresol	95-48-7	D023	200
p-Cresol	106-44-5	D025	200
Cyanazine	21725-46-2	E107	1
Cyanide		E006	20
2,4-D / (2,4-dichlorophenoxy)acetic acid	94-75-7	D016	10
2,4-DCP (2,4-Dichlorophenol)	120-83-2	E007	90
DDT (total isomers)		E008	3
Diazinon/Phosphordithioic acid, o,o-diethyl o-(2-isopropyl 6-methyl-4-pyrimidinyl) ester	333-41-5	E108	2
Dicamba	1918-00-9	E109	12
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	E009	20
1,4-Dichlorobenzene (p-Dichlorobenzene)	106-46-7	D027	0.5
1,2-Dichloroethane (Ethylene dichloride)	107-06-2	D028	0.5
1,1-Dichloroethylene (Vinylidene chloride)	75-35-4	D029	1.4
Dichloromethane (also see - methylene chloride)	75-09-02	E010	5

Diclofop-methyl	51338-27-3	E110	0.9
Dimethoate	60-51-5	E111	2
2,4-Dinitrotoluene	121-14-2	D030	0.13
Dinoseb	88-85-7	E012	1
Dioxin & Furan		E013	0.0000015 <sup>3</sup>
Diquat	231-36-7	E112	7
Diuron	330-54-1	E113	15
Endrin	72-20-8	D012	0.02
Fluoride		E014	150
Glyphosate	1071-83-6	E114	28
Heptachlor + Heptachlor epoxide	76-44-8, 1024-57-3	D031	0.3
Hexachlorobenzene	118-74-1	D032	0.13
Hexachlorobutadiene	87-68-3	D033	0.5
Hexachloroethane	67-72-1	D034	3
Lead	7439-92-1	D008	5
Lindane	58-89-9	D013	0.4
Malathion	121-75-5	E115	19
Mercury	7439-97-6	D009	0.1
Methoxychlor/1,1,1-Trichloro-2,2-bis(p-methoxyphenyl) ethane	72-43-5	D014	90
Methyl ethyl ketone / Ethyl methyl ketone	78-93-3	D035	200
Methyl Parathion	298-00-0	E015	0.7
Methylene chloride / Dichloromethane	75-09-02	E011	5
Metolachlor	51218-45-2	E116	5
Metribuzin	21087-64-9	E117	8
NDMA	62-75-9	E016	0.0009
Nitrate + Nitrite (as Nitrogen)		E118	1000
Nitrilotriacetic acid (NTA)	139-13-9	E119	40
Nitrobenzene	98-95-3	D036	2
Paraquat	4685-14-7	E120	1
Parathion	56-38-2	E017	5
PCBs		E018	0.3
Pentachlorophenol	87-86-5	D037	6
Phorate	298-02-2	E019	0.2
Picloram	1918-02-1	E121	19
Pyridine	110-86-1	D038	5
Selenium	7782-49-2	D010	1
Silver	7440-22-4	D011	5
Simazine	122-34-9	E122	1
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	93-76-5	E020	28
2,4,5-TP/ Silvex/ 2-(2,4,5-Trichlorophenoxy)propionic acid	93-72-1	D017	1
Temephos	3383-96-8	E123	28
Terbufos	13071-79-9	E124	0.1
Tetrachloroethylene	127-18-4	D039	3

2,3,4,6-Tetrachlorophenol /(2,3,4,6-TeCP)	58-90-2	E021	10
Toxaphene	8001-35-2	D015	0.5
Triallate	2303-17-5	E022	23
Trichloroethylene	79-01-6	D040	5
2,4,5-Trichlorophenol (2,4,5-TCP)	95-95-4	D041	400
2,4,6-Trichlorophenol (2,4,6-TCP)	88-06-2	D042	0.5
Trifluralin	1582-09-8	E125	4.5
Uranium	7440-61-1	E126	10
Vinyl chloride	75-01-4	D043	0.2

Notes to Schedule 4:

<sup>1</sup> CAS Number means the Chemical Abstracts Service Registry Number. When the waste or a regulated constituent is described as a combination of a chemical with its salts or esters, the CAS number is given for the parent compound only.

<sup>2</sup> Haz. Waste Number means Hazardous Waste Number. These numbers are consistent with United States Environmental Protection Agency Hazardous Waste Numbers. If there is no United States Environmental Protection Agency Hazardous Waste Number for a waste, the Hazardous Waste Number is assigned to the waste by the Ontario Ministry of the Environment.

<sup>3</sup> Toxic Equivalent (TEQ)