
Date _____

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

WS204	WS205	TP204	TP203	WS202	WS203
1.40	0.30	0.60	2.50	1.50	0.50
13-Jul-22	13-Jul-22	13-Jul-22	12-Jul-22	21-Jul-22	21-Jul-22

2,3,7,8-TeCDD
1,2,3,7,8-PeCDD
1,2,3,4,7,8-HxCDD
1,2,3,6,7,8-HxCDD
1,2,3,7,8,9-HxCDD
1,2,3,4,6,7,8-HpCDD
OCDD
2,3,7,8-TeCDF
1,2,3,7,8-PeCDF
2,3,4,7,8-PeCDF
1,2,3,4,7,8-HxCDF
1,2,3,6,7,8-HxCDF
2,3,4,6,7,8-HxCDF
1,2,3,7,8,9-HxCDF
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8,9-HpCDF
OCDF
Total Dioxins and Furans

[illegible]

Aldrin

mg/kg

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--

Date _____

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

WS204	WS205	TP204	TP203	WS202	WS203
1.40	0.30	0.60	2.50	1.50	0.50
13-Jul-22	13-Jul-22	13-Jul-22	12-Jul-22	21-Jul-22	21-Jul-22

α Hexachlorocyclohexane (alpha-HCH) <i>(leave empty if total HCH results used)</i>	mg/kg					
β Hexachlorocyclohexane (beta-HCH) <i>(leave empty if total HCH results used)</i>	mg/kg					
α Cis-Chlordane (alpha) OR Total Chlordane	mg/kg					
δ Hexachlorocyclohexane (delta-HCH) <i>(leave empty if total HCH results used)</i>	mg/kg					
Dieldrin	mg/kg					
Endrin	mg/kg					
χ Hexachlorocyclohexane (gamma-HCH) (lindane) OR Total HCH	mg/kg					
Heptachlor	mg/kg					
Hexachlorobenzene	mg/kg					
o,p'-DDT <i>(leave empty if total DDT results used)</i>	mg/kg					
p,p'-DDT OR Total DDT	mg/kg					
χ Trans-Chlordane (gamma) <i>(leave empty if total Chlordane results used)</i>	mg/kg					
Chlordecone (kepone)	mg/kg					



Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

Pentachlorobenzene

Mirex

Toxaphene (camphechlor)

Tin

Tin *(leave empty if Organotin and Tin excl Organotin results used)*

Organotin

Dibutyltin; DiBT

Tributyltin; TriBT

Triphenyltin; TriPT

Tetrabutyltin; TeBT

Tin excluding Organotin

Tin excl Organotin

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with the Hazardous Property.
If any calculation cells below state "0.0000",

WS204	WS205	TP204	TP203	WS202	WS203
1.40	0.30	0.60	2.50	1.50	0.50
13-Jul-22	13-Jul-22	13-Jul-22	12-Jul-22	21-Jul-22	21-Jul-22

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg



Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

Asbestos in Soil

Thresholds

Asbestos detected in Soil (enter Y or N)

Y

Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)

see "Carc HP7 % Asbestos in Soil (Fibres)" below

Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)

Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.

≥0.1%

Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)

Y

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with the Hazardous Property.
If any calculation cells below state "0.00000", this indicates that the Hazardous Property does not contribute to that Hazardous Property.

WS204	WS205	TP204	TP203	WS202	WS203
1.40	0.30	0.60	2.50	1.50	0.50
13-Jul-22	13-Jul-22	13-Jul-22	12-Jul-22	21-Jul-22	21-Jul-22

N	N	N	N	N	Y
---	---	---	---	---	---

HP7	If A				
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

results where loose fibres or micro pieces are only present. You If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1% ent. can

N	N	N	N	N	N
---	---	---	---	---	---

Date _____

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

WS204	WS205	TP204	TP203	WS202	WS203
1.40	0.30	0.60	2.50	1.50	0.50
13-Jul-22	13-Jul-22	13-Jul-22	12-Jul-22	21-Jul-22	21-Jul-22

If visual identifiable pieces of asbestos are present, you cannot use
05. Therefore, if Asbestos in Soil above is "Y", the Asbe

Identifiable Pieces

All visual asbestos pieces need to be removed leaving only

Hazardous Property	Thresholds	Cut Off Value	s Hazardous Waste. If cells below turn y					
Corrosive HP8	≥5%	<1%	0.02134	0.03743	0.05644	0.01777	0.01282	0.05318
Irritant HP4	≥10%	<1%	0.01881	0.03217	0.05168	0.01096	0.00526	0.03190
Irritant HP4	≥20%	<1%	0.01373	0.01695	0.03796	0.01009	0.00529	0.03236
Specifc Target Organ Toxicity HP5	≥1%		0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
Specifc Target Organ Toxicity HP5	≥20%		0.00605	0.00979	0.00979	0.00498	0.00392	0.00801
Specifc Target Organ Toxicity HP5	≥1%		0.00605	0.00979	0.00979	0.00538	0.00422	0.01030
Specifc Target Organ Toxicity HP5	≥10%		0.01010	0.03430	0.07090	0.00180	0.00220	0.03130
Aspiration Toxicity HP5	≥10%		0.00000	0.00000	0.01570	0.00000	0.00220	0.00900
Acute Toxicity HP6	≥0.1%	<0.1%	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
Acute Toxicity HP6	≥0.25%	<0.1%	0.00411	0.01404	0.01586	0.00020	0.00015	0.00374
Acute Toxicity HP6	≥5%	<0.1%	0.01766	0.02448	0.04193	0.01805	0.01314	0.05027
Acute Toxicity HP6	≥25%	<1%	0.02975	0.06079	0.11776	0.01713	0.01032	0.07128
Acute Toxicity HP6	≥0.25%	<0.1%	0.00021	0.00064	0.00034	0.00026	0.00021	0.00023
Acute Toxicity HP6	≥2.5%	<0.1%	0.00518	0.00538	0.00538	0.00538	0.00422	0.00653



Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with that Hazardous Property.
If any calculation cells below state "0.0000",

WS204	WS205	TP204	TP203	WS202	WS203
1.40	0.30	0.60	2.50	1.50	0.50
13-Jul-22	13-Jul-22	13-Jul-22	12-Jul-22	21-Jul-22	21-Jul-22

Acute Toxicity HP6	≥15%	<0.1%	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006
Acute Toxicity HP6	≥55%	<1%	0.00074	0.00085	0.00122	0.00068	0.00069	0.00115	0.00115
Acute Toxicity HP6	≥0.1%	<0.1%	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
Acute Toxicity HP6	≥0.5%	<0.1%	0.00561	0.00657	0.00670	0.00580	0.00465	0.00764	0.00764
Acute Toxicity HP6	≥3.5%	<0.1%	0.00016	0.00016	0.00030	0.00016	0.00016	0.00016	0.00016
Acute Toxicity HP6	≥22.5%	<1%	0.04098	0.07725	0.15058	0.02859	0.01798	0.11263	0.11263
Carcinogenic HP7	≥0.1%		0.01010	0.03430	0.07090	0.00538	0.00422	0.03130	0.03130
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00605	0.00979	0.00979	0.00498	0.00392	0.00801	0.00801
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		7.97	10.56	7.88	7.81	7.16	9.56	9.56
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		7.97	10.56	7.88	7.81	7.16	9.56	9.56
Toxic for Reproduction HP10	≥0.3%		0.01010	0.03430	0.07090	0.00384	0.00364	0.03130	0.03130
Toxic for Reproduction HP10	≥3%		0.00605	0.00979	0.01570	0.00538	0.00422	0.00900	0.00900
Mutagenic HP11	≥0.1%		0.00518	0.00538	0.01570	0.00538	0.00422	0.00900	0.00900
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00

Date _____

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%
Mutagenic HP11	≥1%
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg
HP13 Sensitising	≥10%

#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.00605	0.00979	0.00979	0.00498	0.00392	0.01030
0.0	0.0	0.0	0.0	0.0	0.0
1.0	1.0	1.0	1.0	1.0	1.0
0.0	0.0	0.0	0.0	0.0	0.0
0.00518	0.00606	0.00848	0.00538	0.00422	0.01030

Ecotoxic HP14 amended v6	≥25%	<0.1%	0.04247	0.09277	0.17134	0.02308	0.01751	0.09639
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Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

Date _____

WS204	WS205	TP204	TP203	WS202	WS203
1.40	0.30	0.60	2.50	1.50	0.50
13-Jul-22	13-Jul-22	13-Jul-22	12-Jul-22	21-Jul-22	21-Jul-22

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T- Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene , Xylene + BTEX 1%).	0.04884	0.10311	0.19778	0.02838	0.02399	0.11409
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Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

Date _____

WS204	WS205	TP204	TP203	WS202	WS203
1.40	0.30	0.60	2.50	1.50	0.50
13-Jul-22	13-Jul-22	13-Jul-22	12-Jul-22	21-Jul-22	21-Jul-22

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T- Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene , Xylene + BTEX 1%).	4.30886	9.37892	17.39642	2.35898	1.81376	9.81449
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000



Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

Persistent Organic Pollutant
(Individual Dioxins+Furans)

>0.0000015%

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with this Hazardous Property.
If any calculation cells below state "0.0000" then this is a warning.

WS204	WS205	TP204	TP203	WS202	WS203
1.40	0.30	0.60	2.50	1.50	0.50
13-Jul-22	13-Jul-22	13-Jul-22	12-Jul-22	21-Jul-22	21-Jul-22

0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
--------------	--------------	--------------	--------------	--------------	--------------

Date _____

pH (leachate)

Arsenic
Cadmium
Copper
CrVI or Chromium
Lead
Mercury
Nickel
Selenium
Zinc

Barium
Beryllium
Vanadium

Cobalt
Manganese
Molybdenum

Antimony

Aluminium
Bismuth
CrIII
Iron
Strontium
Tellurium
Thallium

%

mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg

[illegible]

associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". 000000", testing has NOT been undertaken that contributes to that Hazardous Property.

RBH203	WS303	WS303	WS303	WS303	WS305
3.00	0.40	1.20	1.80	3.10	0.50
25-Jul-22	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

9.76	8.55	8.32	7.97	8.88	10.38
3	25	25	1	1	21
0.7	3.1	2.0	0.8	<0.5	1.2
12	129	102	11	4	70
11	24	49	33	13	19
14	370	6,640	31	17	191
0.17	0.17	0.17	0.17	0.17	0.17
12	48	38	25	10	28
1	1	1	1	1	1
26	849	112	84	24	205
58.00	355.00	154.00	103.00	37.00	159.00
0.8	0.5	1.0	1.0	0.7	0.7
15	21	35	36	19	28
1.00	2.00	3.00	1.00	1.00	2.00
5	6	5	5	5	5

Date _____

Ammoniacal N	
ws Boron	

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Chrysene
Dibenzo(ah)anthracene
Fluoranthene
Fluorene
Indeno(123cd)pyrene
Naphthalene
Phenanthrene
Pyrene
Coronene
Total PAHs (16 or 17)

Petrol

mg/kg

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Table 3 of the CLP, CL Inventory, ATPs, IARC, Concawe, MSDSs, REACH + Pesticide Properties databases. Worst case REACH + MSDS's used for "" STOT + Acute Toxicity.



Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

Diesel
Lube Oil

Crude Oil

White Spirit / Kerosene

Creosote

Unknown TPH with ID

Unknown TPHCWG

Total Sulphide

Complex Cyanide

Free (or Total) Cyanide

Thiocyanate

Elemental/Free Sulphur

Phenols Input Total Phenols HPLC **OR** individual Phenol results.

Phenol

Cresols

Xylenols

Resorcinol

Phenols Total by HPLC

BTEX Input Total BTEX **OR** individual BTEX results.

Benzene

Toluene

Ethylbenzene

Xylenes

associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

RBH203	WS303	WS303	WS303	WS303	WS305
3.00	0.40	1.20	1.80	3.10	0.50
25-Jul-22	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

1,410.0	2,840.0	2,030.0	8,620.0	7,830.0	3,160.0
1	1	1	1	1	1

0.2	0.2	0.2	0.2	0.2	0.2
0.2	0.2	0.2	0.2	2.2	0.2
0.2	0.2	0.2	0.2	2.0	0.2
0.2	0.2	0.2	0.2	0.2	0.2

0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.16	0.01	0.01
0.01	0.01	0.02	0.35	0.01	0.01
0.01	0.01	0.03	0.65	0.02	0.01



Haswaste, developed by Dr. Iain Haslock.



Ref. 1
Ref. 2
Date

Total BTEX

PCBs (POPs)
PCBs Total (eg EC7/WHO12)

PBBs (POPs)
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)

ociated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

RBH203	WS303	WS303	WS303	WS303	WS305
3.00	0.40	1.20	1.80	3.10	0.50
25-Jul-22	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

mg/kg

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mg/kg

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mg/kg

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Haswaste, developed by Dr. Iain Haslock.



Ref. 1
Ref. 2
Date

ociated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

RBH203	WS303	WS303	WS303	WS303	WS305
3.00	0.40	1.20	1.80	3.10	0.50
25-Jul-22	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

POPs Dioxins and Furans Input Total Dioxins and Furans
OR individual Dioxin and Furan results.

2,3,7,8-TeCDD
1,2,3,7,8-PeCDD
1,2,3,4,7,8-HxCDD
1,2,3,6,7,8-HxCDD
1,2,3,7,8,9-HxCDD
1,2,3,4,6,7,8-HpCDD
OCDD
2,3,7,8-TeCDF
1,2,3,7,8-PeCDF
2,3,4,7,8-PeCDF
1,2,3,4,7,8-HxCDF
1,2,3,6,7,8-HxCDF
2,3,4,6,7,8-HxCDF
1,2,3,7,8,9-HxCDF
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8,9-HpCDF
OCDF
Total Dioxins and Furans

mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg

Some Pesticides (POPs unless otherwise stated)

Aldrin

mg/kg

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Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". "0.0000", testing has NOT been undertaken that contributes to that Hazardous Property.

RBH203	WS303	WS303	WS303	WS303	WS305
3.00	0.40	1.20	1.80	3.10	0.50
25-Jul-22	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

α Hexachlorocyclohexane (alpha-HCH) (leave empty if total HCH results used)
β Hexachlorocyclohexane (beta-HCH) (leave empty if total HCH results used)
α Cis-Chlordane (alpha) OR Total Chlordane
δ Hexachlorocyclohexane (delta-HCH) (leave empty if total HCH results used)
Dieldrin
Endrin
χ Hexachlorocyclohexane (gamma-HCH) (lindane) OR Total HCH
Heptachlor
Hexachlorobenzene
o,p'-DDT (leave empty if total DDT results used)
p,p'-DDT OR Total DDT
χ Trans-Chlordane (gamma) (leave empty if total Chlordane results used)
Chlordecone (kepone)

mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg



Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

Pentachlorobenzene

Mirex

Toxaphene (camphechlor)

Tin

Tin *(leave empty if Organotin and Tin excl Organotin results used)*

Organotin

Dibutyltin; DiBT

Tributyltin; TriBT

Triphenyltin; TriPT

Tetrabutyltin; TeBT

Tin excluding Organotin

Tin excl Organotin

ociated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

RBH203	WS303	WS303	WS303	WS303	WS305
3.00	0.40	1.20	1.80	3.10	0.50
25-Jul-22	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

Date _____

Thresholds

Y

see "Carc HP7
% Asbestos in
Soil (Fibres)"
below

 $\geq 0.1\%$

Y

RBH203	WS303	WS303	WS303	WS303	WS305
3.00	0.40	1.20	1.80	3.10	0.50
25-Jul-22	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

N	N	N	N	N	Y
---	---	---	---	---	---

					0.00100
0.00000	0.00000	0.00000	0.00000	0.00000	0.00100

	N	N			N
--	---	---	--	--	---

Date _____

RBH203	WS303	WS303	WS303	WS303	WS305
3.00	0.40	1.20	1.80	3.10	0.50
25-Jul-22	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

/ fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.

Hazardous Property	Thresholds	Cut Off Value	If the background is yellow and the text turns red, the samples should be classified as Hazardous Waste.					
Corrosive HP8	≥5%	<1%	0.00837	0.04347	0.02817	0.01683	0.00677	0.02238
Irritant HP4	≥10%	<1%	0.00450	0.02170	0.02114	0.00786	0.00443	0.01575
Irritant HP4	≥20%	<1%	0.01105	0.02545	0.02400	0.02000	0.10267	0.03881
Specific Target Organ Toxicity HP5	≥1%		0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
Specific Target Organ Toxicity HP5	≥20%		0.00673	0.00374	0.00623	0.01300	0.09970	0.02460
Specific Target Organ Toxicity HP5	≥1%		0.00267	0.00970	0.00941	0.00641	0.00338	0.00566
Specific Target Organ Toxicity HP5	≥10%		0.14100	0.28400	0.66400	0.86200	0.78300	0.31600
Aspiration Toxicity HP5	≥10%		0.14100	0.28400	0.20301	0.86212	0.78301	0.31600
Acute Toxicity HP6	≥0.1%	<0.1%	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
Acute Toxicity HP6	≥0.25%	<0.1%	0.00041	0.00332	0.00332	0.00015	0.00015	0.00279
Acute Toxicity HP6	≥5%	<0.1%	0.00848	0.04054	0.02547	0.01729	0.00710	0.02007
Acute Toxicity HP6	≥25%	<1%	0.01527	0.06668	0.69412	0.02950	#VALUE!	0.06299
Acute Toxicity HP6	≥0.25%	<0.1%	0.00021	0.00021	0.00021	0.00021	0.00021	0.00021
Acute Toxicity HP6	≥2.5%	<0.1%	0.00211	0.00461	0.00941	0.00634	0.00250	0.00365



Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

ociated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

RBH203	WS303	WS303	WS303	WS303	WS305
3.00	0.40	1.20	1.80	3.10	0.50
25-Jul-22	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

Acute Toxicity HP6	≥15%	<0.1%
Acute Toxicity HP6	≥55%	<1%
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.5%	<0.1%
Acute Toxicity HP6	≥3.5%	<0.1%
Acute Toxicity HP6	≥22.5%	<1%
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥0.1%	
Carcinogenic HP7	≥1%	
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg	
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%	
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5	
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2	
Toxic for Reproduction HP10	≥0.3%	
Toxic for Reproduction HP10	≥3%	
Mutagenic HP11	≥0.1%	
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg	

0.00006	0.00006	0.00006	0.00006	0.00044	0.00006
0.00067	0.00103	0.00080	0.00075	#VALUE!	0.00072
0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
0.00256	0.00516	0.01008	0.00689	#VALUE!	0.00410
0.00016	0.00016	0.00016	0.00016	0.00016	0.00016
0.01365	0.10051	0.70484	0.02620	0.01126	0.05355
0.14100	0.28400	0.66400	0.86200	0.78300	0.31600
0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
0.00673	0.00374	0.00623	0.01300	0.09970	0.02460
0.00	0.00	0.00	0.00	0.00	0.00
#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
9.76	8.55	8.32	7.97	8.88	10.38
9.76	8.55	8.32	7.97	8.88	10.38
0.00673	0.03700	0.66400	0.01300	0.09970	0.02460
0.14100	0.28400	0.20300	0.86200	0.78300	0.31600
0.14100	0.28400	0.20300	0.86200	0.78300	0.31600
0.00	0.00	0.00	0.00	0.00	0.00

Date _____

RBH203	WS303	WS303	WS303	WS303	WS305
3.00	0.40	1.20	1.80	3.10	0.50
25-Jul-22	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.00673	0.00970	0.00768	0.01300	0.09970	0.02460
0.0	0.0	0.0	0.0	0.0	0.0
1.0	1.0	1.0	1.0	1.0	1.0
0.0	0.0	0.0	0.0	0.0	0.0
0.00673	0.00970	0.00941	0.01300	0.09970	0.02460

Ecotoxic HP14 amended v6	≥25%	<0.1%	0.01810	0.17660	0.71435	0.03981	#VALUE!	0.08980
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Haswaste, developed by Dr. Iain Haslock.

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Ref. 1
Ref. 2
Date

RBH203	WS303	WS303	WS303	WS303	WS305
3.00	0.40	1.20	1.80	3.10	0.50
25-Jul-22	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T- Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene , Xylene + BTEX 1%).	0.16218	0.46461	0.92408	0.90883	#VALUE!	0.41114
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Haswaste, developed by Dr. Iain Haslock.



Ref. 1
Ref. 2
Date

ociated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

RBH203	WS303	WS303	WS303	WS303	WS305
3.00	0.40	1.20	1.80	3.10	0.50
25-Jul-22	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T- Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene , Xylene + BTEX 1%).	3.24935	20.53856	73.53007	12.66806	#VALUE!	12.19134
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000



Haswaste, developed by Dr. Iain Haslock.



Ref. 1
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Date

Persistent Organic Pollutant (Individual Dioxins+Furans)	>0.0000015%
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ociated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

RBH203	WS303	WS303	WS303	WS303	WS305
3.00	0.40	1.20	1.80	3.10	0.50
25-Jul-22	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
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Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

% Moisture

pH (soil)

pH (leachate)

Arsenic
Cadmium
Copper
CrVI or Chromium
Lead
Mercury
Nickel
Selenium
Zinc

Barium
Beryllium
Vanadium

Cobalt
Manganese
Molybdenum

Antimony

Aluminium
Bismuth
CrIII
Iron
Strontium
Tellurium
Thallium

%

mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg

mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg

WS305	WS308	WS308	WS308	WS309	WS309
1.00	0.60	1.00	2.00	0.70	1.90
03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

10.39	9.46	8.43	8.35	8.29	8.22
15	33	177	9	1	6
1.5	1.6	4.7	0.6	<0.5	0.7
109	212	202	15	17	13
24	25	24	14	30	13
381	503	269	40	30	9
0.39	0.17	0.17	0.17	0.17	0.17
51	29	106	17	29	17
1	3	3	2	1	1
388	669	675	51	48	33
511.00	402.00	314.00	58.00	125.00	49.00
1.1	0.7	0.8	0.5	0.8	0.5
33	31	35	17	30	17
6.00	2.00	7.00	1.00	1.00	1.00
5	5	13	5	5	5

Haswaste, developed by Dr. Iain Haslock.

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Ref. 1
Ref. 2
Date

WS305	WS308	WS308	WS308	WS309	WS309
1.00	0.60	1.00	2.00	0.70	1.90
03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

Titanium
Tungsten
Ammoniacal N ws Boron

1.0	2.6	1.3	1.0	2.2	1.0

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Chrysene
Dibenzo(ah)anthracene
Fluoranthene
Fluorene
Indeno(123cd)pyrene
Naphthalene
Phenanthrene
Pyrene
Coronene
Total PAHs (16 or 17)

17.10	4.17	16.30	0.09	0.08	0.08

TPH	
Petrol	

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Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

WS305	WS308	WS308	WS308	WS309	WS309
1.00	0.60	1.00	2.00	0.70	1.90
03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

Diesel
Lube Oil

mg/kg

mg/kg

Crude Oil

mg/kg

White Spirit / Kerosene

mg/kg

Creosote

mg/kg

Unknown TPH with ID

mg/kg

Unknown TPHCWG

mg/kg

Total Sulphide

mg/kg

Complex Cyanide

mg/kg

Free (or Total) Cyanide

mg/kg

Thiocyanate

mg/kg

Elemental/Free Sulphur

mg/kg

Phenols Input Total Phenols HPLC **OR** individual Phenol results.

Phenol

mg/kg

Cresols

mg/kg

Xylenols

mg/kg

Resorcinol

mg/kg

Phenols Total by HPLC

mg/kg

BTEX Input Total BTEX **OR** individual BTEX results.

Benzene

mg/kg

Toluene

mg/kg

Ethylbenzene

mg/kg

Xylenes

mg/kg

227.0	349.0	1,810.0	67.0	1.0	3.0
1	2	2	1	1	1

0.2	0.2	0.2	0.2	0.2	0.2
0.2	0.2	0.2	0.2	0.2	0.2
0.2	0.2	0.2	0.2	0.2	0.2
0.2	0.2	0.2	0.2	0.2	0.2

0.01	0.01	0.05	0.01	0.01	0.01
0.01	0.01	0.05	0.01	0.01	0.01
0.01	0.01	0.05	0.01	0.01	0.01
0.01	0.01	0.05	0.01	0.01	0.01



Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

WS305	WS308	WS308	WS308	WS309	WS309
1.00	0.60	1.00	2.00	0.70	1.90
03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

Total BTEX

mg/kg

PCBs (POPs)

PCBs Total (eg EC7/WHO12)

mg/kg

PBBs (POPs)

Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)

mg/kg

Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c



Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

WS305	WS308	WS308	WS308	WS309	WS309
1.00	0.60	1.00	2.00	0.70	1.90
03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

POPs Dioxins and Furans Input Total Dioxins and Furans
OR individual Dioxin and Furan results.

2,3,7,8-TeCDDmg/kg

1,2,3,7,8-PeCDDmg/kg

1,2,3,4,7,8-HxCDDmg/kg

1,2,3,6,7,8-HxCDDmg/kg

1,2,3,7,8,9-HxCDDmg/kg

1,2,3,4,6,7,8-HpCDDmg/kg

OCDDmg/kg

2,3,7,8-TeCDFmg/kg

1,2,3,7,8-PeCDFmg/kg

2,3,4,7,8-PeCDFmg/kg

1,2,3,4,7,8-HxCDFmg/kg

1,2,3,6,7,8-HxCDFmg/kg

2,3,4,6,7,8-HxCDFmg/kg

1,2,3,7,8,9-HxCDFmg/kg

1,2,3,4,6,7,8-HpCDFmg/kg

1,2,3,4,7,8,9-HpCDFmg/kg

OCDFmg/kg

Total Dioxins and Furansmg/kg

Some Pesticides (POPs unless otherwise stated)

Aldrinmg/kg

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Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

WS305	WS308	WS308	WS308	WS309	WS309
1.00	0.60	1.00	2.00	0.70	1.90
03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

α Hexachlorocyclohexane (alpha-HCH) (leave empty if total HCH results used)

β Hexachlorocyclohexane (beta-HCH) (leave empty if total HCH results used)

α Cis-Chlordane (alpha) OR Total Chlordane

δ Hexachlorocyclohexane (delta-HCH) (leave empty if total HCH results used)

Dieldrin

Endrin

χ Hexachlorocyclohexane (gamma-HCH) (lindane) OR Total HCH

Heptachlor

Hexachlorobenzene

o,p'-DDT (leave empty if total DDT results used)

p,p'-DDT OR Total DDT

χ Trans-Chlordane (gamma) (leave empty if total Chlordane results used)

Chlordecone (kepone)

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

WS305	WS308	WS308	WS308	WS309	WS309
1.00	0.60	1.00	2.00	0.70	1.90
03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

Pentachlorobenzene
Mirex
Toxaphene (camphechlor)

mg/kg						
mg/kg						
mg/kg						

Tin

Tin (leave empty if Organotin and Tin excl Organotin results used)

mg/kg					
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Organotin
Dibutyltin; DiBT
Tributyltin; TriBT
Triphenyltin; TriPT
Tetrabutyltin; TeBT

mg/kg					
mg/kg					
mg/kg					
mg/kg					

Tin excluding Organotin
Tin excl Organotin

mg/kg					
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Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

Asbestos in Soil

Thresholds

Asbestos detected in Soil (enter Y or N)

Y

Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)

see "Carc HP7 % Asbestos in Soil (Fibres)" below

Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)

Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.

≥0.1%

Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)

Y

Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

WS305	WS308	WS308	WS308	WS309	WS309
1.00	0.60	1.00	2.00	0.70	1.90
03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

Y	Y	Y	N	N	N
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If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and I

0.00100	0.00100	0.01300			
0.00100	0.00100	0.01300	0.00000	0.00000	0.00000

If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos %
cannot use Asbestos % results when visual identifiable pieces are pres

N	N	N		N	
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Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

WS305	WS308	WS308	WS308	WS309	WS309
1.00	0.60	1.00	2.00	0.70	1.90
03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Was
05. Therefore, if Asbestos in Soil above is "**Y**", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visib

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is
All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil re

Hazardous Property	Thresholds	Cut Off Value
Corrosive HP8	≥5%	<1%
Irritant HP4	≥10%	<1%
Irritant HP4	≥20%	<1%
Specifc Target Organ Toxicity HP5	≥1%	
Specifc Target Organ Toxicity HP5	≥20%	
Specifc Target Organ Toxicity HP5	≥1%	
Specifc Target Organ Toxicity HP5	≥10%	
Aspiration Toxicity HP5	≥10%	
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥5%	<0.1%
Acute Toxicity HP6	≥25%	<1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥2.5%	<0.1%

If cells below turn yellow and the text turns red, the samples should be classified a					
0.05775	0.04942	0.05943	0.00974	0.01845	0.00825
0.02025	0.03391	0.05250	0.00599	0.00747	0.00537
0.02575	0.03087	0.04732	0.00554	0.00832	0.00531
0.00019	0.00038	0.00038	0.00019	0.00019	0.00019
0.00587	0.00552	0.00623	0.00303	0.00534	0.00303
0.01030	0.00586	0.02141	0.00343	0.00586	0.00343
0.03810	0.05030	0.18100	0.00670	0.00300	0.00090
0.02270	0.03490	0.18102	0.00670	0.00010	0.00030
0.00019	0.00038	0.00038	0.00019	0.00019	0.00019
0.00202	0.00437	0.02338	0.00121	0.00015	0.00081
0.05641	0.04580	0.03686	0.00906	0.01883	0.00783
0.06907	0.08683	0.08105	0.01284	#VALUE!	0.00953
0.00023	0.00039	0.00039	0.00021	0.00021	0.00021
0.00461	0.00480	0.00461	0.00269	0.00576	0.00250



Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

WS305	WS308	WS308	WS308	WS309	WS309
1.00	0.60	1.00	2.00	0.70	1.90
03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

Acute Toxicity HP6	≥15%	<0.1%	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006
Acute Toxicity HP6	≥55%	<1%	0.00075	0.00076	0.00204	0.00066	#VALUE!	0.00067	0.00067
Acute Toxicity HP6	≥0.1%	<0.1%	0.00019	0.00038	0.00038	0.00019	0.00019	0.00019	0.00019
Acute Toxicity HP6	≥0.5%	<0.1%	0.00530	0.00530	0.00546	0.00299	#VALUE!	0.00281	0.00281
Acute Toxicity HP6	≥3.5%	<0.1%	0.00016	0.00044	0.00044	0.00030	0.00016	0.00016	0.00016
Acute Toxicity HP6	≥22.5%	<1%	0.11770	0.12583	0.10878	0.01796	0.02862	0.01373	0.01373
Carcinogenic HP7	≥0.1%		0.03810	0.05030	0.18100	0.00670	0.00586	0.00343	0.00343
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00587	0.00552	0.00623	0.00303	0.00534	0.00303	0.00303
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		10.39	9.46	8.43	8.35	8.29	8.22	8.22
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		10.39	9.46	8.43	8.35	8.29	8.22	8.22
Toxic for Reproduction HP10	≥0.3%		0.03810	0.05030	0.02690	0.00400	0.00586	0.00343	0.00343
Toxic for Reproduction HP10	≥3%		0.02270	0.03490	0.18100	0.00670	0.00576	0.00303	0.00303
Mutagenic HP11	≥0.1%		0.02270	0.03490	0.18100	0.00670	0.00576	0.00250	0.00250
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00



Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

Haswaste, developed by Dr. Iain Haslock.

Ref. 1
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WS305	WS308	WS308	WS308	WS309	WS309
1.00	0.60	1.00	2.00	0.70	1.90
03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%
Mutagenic HP11	≥1%
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg
HP13 Sensitising	≥10%

#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.01030	0.00586	0.02141	0.00343	0.00586	0.00343
0.0	0.0	0.0	0.0	0.0	0.0
1.0	2.0	2.0	1.0	1.0	1.0
0.0	0.0	0.0	0.0	0.0	0.0
0.01030	0.00586	0.02141	0.00343	0.00586	0.00343

Ecotoxic HP14 amended v6	≥25%	<0.1%	0.11806	0.17431	0.18642	0.01996	#VALUE!	0.01366
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Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

Haswaste, developed by Dr. Iain Haslock.



Ref. 1
Ref. 2
Date

WS305	WS308	WS308	WS308	WS309	WS309
1.00	0.60	1.00	2.00	0.70	1.90
03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T- Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene , Xylene + BTEX 1%).	0.14717	0.21509	0.37407	0.02995	#VALUE!	0.01726
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Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

Haswaste, developed by Dr. Iain Haslock.



Ref. 1
Ref. 2
Date

WS305	WS308	WS308	WS308	WS309	WS309
1.00	0.60	1.00	2.00	0.70	1.90
03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T- Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene , Xylene + BTEX 1%).	12.09486	17.83678	20.51666	2.09374	#VALUE!	1.40014
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000



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Persistent Organic Pollutant
(Individual Dioxins+Furans)

>0.0000015%

Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

WS305	WS308	WS308	WS308	WS309	WS309
1.00	0.60	1.00	2.00	0.70	1.90
03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23	03-Apr-23
0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

Date _____

pH (leachate)

Arsenic
Cadmium
Copper
CrVI or Chromium
Lead
Mercury
Nickel
Selenium
Zinc

Barium
Beryllium
Vanadium

Cobalt
Manganese
Molybdenum

Antimony
Aluminium
Bismuth
CrIII
Iron
Strontium
Tellurium
Thallium

%

[illegible]

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

WS309	WS302	WS302	WS302	WS302	WS301
2.50	0.50	1.50	2.50	3.50	0.50
03-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

8.40	8.45	7.97	7.42	7.71	8.51
0	14	1	4	3	39
0.5	0.5	0.5	1.1	0.5	2.8
5	38	9	15	11	184
7	16	29	37	11	41
25	126	13	17	8	693
0.17	0.34	0.17	0.17	0.17	1.49
8	14	19	36	14	52
1	1	2	1	1	3
16	44	52	80	23	933
26.00	82.00	88.00	136.00	52.00	945.00
0.5	0.5	0.6	1.2	0.5	1.8
10	19	32	37	13	56
1.00	1.00	1.00	1.00	1.00	6.00
5	5	5	5	5	7

Date _____

Ammoniacal N	
ws Boron	

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Chrysene
Dibenzo(ah)anthracene
Fluoranthene
Fluorene
Indeno(123cd)pyrene
Naphthalene
Phenanthrene
Pyrene
Coronene
Total PAHs (16 or 17)

Petrol

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

WS309	WS302	WS302	WS302	WS302	WS301
2.50	0.50	1.50	2.50	3.50	0.50
03-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

1.0	2.1	1.9	1.0	1.0	1.7

0.08	4.54	0.08	0.08	0.08	133.00

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Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with the Hazardous Property.
If any calculation cells below state "0.0000",

Diesel	mg/kg
Lube Oil	mg/kg
Crude Oil	mg/kg
White Spirit / Kerosene	mg/kg
Creosote	mg/kg
Unknown TPH with ID	mg/kg
Unknown TPHCWG	mg/kg
Total Sulphide	mg/kg
Complex Cyanide	mg/kg
Free (or Total) Cyanide	mg/kg
Thiocyanate	mg/kg
Elemental/Free Sulphur	mg/kg

Phenols Input Total Phenols HPLC **OR** individual Phenol results.

Phenol	mg/kg
Cresols	mg/kg
Xylenols	mg/kg
Resorcinol	mg/kg
Phenols Total by HPLC	mg/kg

BTEX Input Total BTEX **OR** individual BTEX results.

Benzene	mg/kg
Toluene	mg/kg
Ethylbenzene	mg/kg
Xylenes	mg/kg

WS309	WS302	WS302	WS302	WS302	WS301
2.50	0.50	1.50	2.50	3.50	0.50
03-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

1.0	144.0	1.0	1.0	1.0	10,400.0
1	1	1	1	1	1

0.2	0.2	0.2	0.2	0.2	0.2
0.2	0.2	0.2	0.2	0.2	0.2
0.2	0.2	0.2	0.2	0.2	0.2
0.2	0.2	0.2	0.2	0.2	0.2

0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01



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Total BTEX

PCBs (POPs)
PCBs Total (eg EC7/WHO12)

PBBs (POPs)
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with that Hazardous Property.
If any calculation cells below state "0.0000", please check the data entered.

WS309	WS302	WS302	WS302	WS302	WS301
2.50	0.50	1.50	2.50	3.50	0.50
03-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

mg/kg					
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mg/kg					
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mg/kg					
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Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with the Hazardous Property.
If any calculation cells below state "0.0000", it indicates that the data entered

WS309	WS302	WS302	WS302	WS302	WS301
2.50	0.50	1.50	2.50	3.50	0.50
03-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

POPs Dioxins and Furans Input Total Dioxins and Furans
OR individual Dioxin and Furan results.

2,3,7,8-TeCDD

1,2,3,7,8-PeCDD

1,2,3,4,7,8-HxCDD

1,2,3,6,7,8-HxCDD

1,2,3,7,8,9-HxCDD

1,2,3,4,6,7,8-HpCDD

OCDD

2,3,7,8-TeCDF

1,2,3,7,8-PeCDF

2,3,4,7,8-PeCDF

1,2,3,4,7,8-HxCDF

1,2,3,6,7,8-HxCDF

2,3,4,6,7,8-HxCDF

1,2,3,7,8,9-HxCDF

1,2,3,4,6,7,8-HpCDF

1,2,3,4,7,8,9-HpCDF

OCDF

Total Dioxins and Furans

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

Some Pesticides (POPs unless otherwise stated)

Aldrin

mg/kg

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Date _____

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

WS309	WS302	WS302	WS302	WS302	WS301
2.50	0.50	1.50	2.50	3.50	0.50
03-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

α Hexachlorocyclohexane (alpha-HCH) <i>(leave empty if total HCH results used)</i>	mg/kg					
β Hexachlorocyclohexane (beta-HCH) <i>(leave empty if total HCH results used)</i>	mg/kg					
α Cis-Chlordane (alpha) OR Total Chlordane	mg/kg					
δ Hexachlorocyclohexane (delta-HCH) <i>(leave empty if total HCH results used)</i>	mg/kg					
Dieldrin	mg/kg					
Endrin	mg/kg					
χ Hexachlorocyclohexane (gamma-HCH) (lindane) OR Total HCH	mg/kg					
Heptachlor	mg/kg					
Hexachlorobenzene	mg/kg					
o,p'-DDT <i>(leave empty if total DDT results used)</i>	mg/kg					
p,p'-DDT OR Total DDT	mg/kg					
χ Trans-Chlordane (gamma) <i>(leave empty if total Chlordane results used)</i>	mg/kg					
Chlordecone (kepone)	mg/kg					



Date _____

Toxaphene (camphechlor)

Tin (leave empty if Organotin and Tin excl Organotin results used)

Dibutyltin; DiBT

Tributyltin; TriBT

Triphenyltin; TriPT

Tetrabutyltin; TeBT

Tin excluding Organotin

Tin excl Organotin

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0.00", please enter a value.

WS309	WS302	WS302	WS302	WS302	WS301
2.50	0.50	1.50	2.50	3.50	0.50
03-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

mg/kg					
mg/kg					
mg/kg					

mg/kg					
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mg/kg						
mg/kg						
mg/kg						
mg/kg						

mg/kg					
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Asbestos in Soil	Thresholds
Asbestos detected in Soil (enter Y or N)	Y
Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)	see "Carc HP7 % Asbestos in Soil (Fibres)" below
Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces) <i>Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.</i>	≥0.1%
Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)	Y

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with that Hazardous Property.
If any calculation cells below state "0.00000", this indicates that the calculation cannot be performed.

WS309	WS302	WS302	WS302	WS302	WS301
2.50	0.50	1.50	2.50	3.50	0.50
03-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

N	Y	N	N	N	Y
HP7					If A
	0.00300				0.00300
0.00000	0.00300	0.00000	0.00000	0.00000	0.00300
results where loose fibres or micro pieces are only present. You can					If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1% can
	N	N			N



Haswaste, developed by Dr. Iain Haslock.

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Date

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with that Hazardous Property.
If any calculation cells below state "0.0000", this indicates that the value is not available.

WS309	WS302	WS302	WS302	WS302	WS301
2.50	0.50	1.50	2.50	3.50	0.50
03-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

te HP5 and HP7 Construction material containing Asbestos 17 06
le with the naked eye is "Y", the soil is Hazardous Waste.

If visual identifiable pieces of asbestos are present, you cannot use the naked eye to identify them. Therefore, if Asbestos in Soil above is "Y", the Asbestos is considered to be present.

not Loose Fibres.
sult of <0.1% for the soil to become non-hazardous waste.

Identifiable Pieces
All visual asbestos pieces need to be removed leaving only non-identifiable pieces.

Hazardous Property	Thresholds	Cut Off Value	s Hazardous Waste. If cells below turn yellow, the soil is considered to be Hazardous Waste.					
Corrosive HP8	≥5%	<1%	0.00400	0.01318	0.01456	0.02129	0.00777	0.10758
Irritant HP4	≥10%	<1%	0.00243	0.00960	0.00693	0.00889	0.00403	0.03599
Irritant HP4	≥20%	<1%	0.00259	0.00798	0.00531	0.00970	0.00448	0.04634
Specifc Target Organ Toxicity HP5	≥1%		0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
Specifc Target Organ Toxicity HP5	≥20%		0.00178	0.00338	0.00570	0.00659	0.00231	0.01330
Specifc Target Organ Toxicity HP5	≥1%		0.00178	0.00338	0.00570	0.00727	0.00283	0.01050
Specifc Target Organ Toxicity HP5	≥10%		0.00250	0.01440	0.00130	0.00170	0.00080	1.04000
Aspiration Toxicity HP5	≥10%		0.00010	0.01440	0.00010	0.00010	0.00010	1.04000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
Acute Toxicity HP6	≥0.25%	<0.1%	0.00002	0.00188	0.00015	0.00055	0.00041	0.00530
Acute Toxicity HP6	≥5%	<0.1%	0.00437	0.01170	0.01498	0.02145	0.00774	0.10368
Acute Toxicity HP6	≥25%	<1%	0.00714	0.02423	0.01253	0.01799	0.00786	0.12500
Acute Toxicity HP6	≥0.25%	<0.1%	0.00021	0.00022	0.00021	0.00021	0.00021	0.00034
Acute Toxicity HP6	≥2.5%	<0.1%	0.00134	0.00307	0.00557	0.00710	0.00211	0.00787

Table 3 of the CLP, CL Inventory, ATPs, IARC, Concawe, MSDSs, REACH + Pesticide Properties databases. Worst case REACH + MSDS's used for "****" STOT + Acute Toxicity.



Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with that Hazardous Property.
If any calculation cells below state "0.0000",

WS309	WS302	WS302	WS302	WS302	WS301
2.50	0.50	1.50	2.50	3.50	0.50
03-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

Acute Toxicity HP6	≥15%	<0.1%	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006
Acute Toxicity HP6	≥55%	<1%	0.00065	0.00065	0.00065	0.00071	0.00065	0.00065	0.00112
Acute Toxicity HP6	≥0.1%	<0.1%	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
Acute Toxicity HP6	≥0.5%	<0.1%	0.00164	0.00338	0.00591	0.00778	0.00241	0.00241	0.00912
Acute Toxicity HP6	≥3.5%	<0.1%	0.00016	0.00016	0.00030	0.00016	0.00016	0.00016	0.00044
Acute Toxicity HP6	≥22.5%	<1%	0.00906	0.03131	0.02065	0.03086	0.01239	0.01239	0.20507
Carcinogenic HP7	≥0.1%		0.00250	0.01440	0.00557	0.00727	0.00283	0.00283	1.04000
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00178	0.00338	0.00570	0.00659	0.00231	0.00231	0.01330
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		8.40	8.45	7.97	7.42	7.71	7.71	8.51
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		8.40	8.45	7.97	7.42	7.71	7.71	8.51
Toxic for Reproduction HP10	≥0.3%		0.00250	0.01260	0.00384	0.00727	0.00283	0.00283	0.06930
Toxic for Reproduction HP10	≥3%		0.00178	0.01440	0.00570	0.00710	0.00231	0.00231	1.04000
Mutagenic HP11	≥0.1%		0.00134	0.01440	0.00557	0.00710	0.00211	0.00211	1.04000
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00

Date _____

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.00178	0.00338	0.00570	0.00727	0.00283	0.01330
0.0	0.0	0.0	0.0	0.0	0.0
1.0	1.0	1.0	1.0	1.0	1.0
0.0	0.0	0.0	0.0	0.0	0.0
0.00162	0.00307	0.00557	0.00727	0.00283	0.01330

Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%
Mutagenic HP11	≥1%
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg
HP13 Sensitising	≥10%

Ecotoxic HP14 amended v6	≥25%	<0.1%	0.00845	0.03103	0.01892	0.02878	0.01068	0.24460
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Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

Date _____

WS309	WS302	WS302	WS302	WS302	WS301
2.50	0.50	1.50	2.50	3.50	0.50
03-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T- Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene , Xylene + BTEX 1%).	0.01060	0.04908	0.02503	0.03606	0.01336	1.29543
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Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

Date _____

WS309	WS302	WS302	WS302	WS302	WS301
2.50	0.50	1.50	2.50	3.50	0.50
03-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T- Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene , Xylene + BTEX 1%).	0.86458	3.28160	1.95130	2.94924	1.09282	34.96659
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000



Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

Persistent Organic Pollutant
(Individual Dioxins+Furans)

>0.0000015%

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with this Hazardous Property.
If any calculation cells below state "0.0000", this indicates that the value is not available.

WS309	WS302	WS302	WS302	WS302	WS301
2.50	0.50	1.50	2.50	3.50	0.50
03-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
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Date _____

pH (leachate)

mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg

mg/kg
mg/kg
mg/kg

mg/kg
mg/kg
mg/kg

mg/kg

mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg

WS301	WS301	WS301	WS301	WS306	WS306
1.50	2.50	3.50	4.50	0.50	1.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

Table 3 of the CLP, CL Inventory, ATPs, IARC, Concawe, MSDSs, REACH + Pesticide Properties databases. Worst case REACH + MSDS's used for "" STOT + Acute Toxicity.

Date _____

Ammoniacal N	
ws Boron	

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Chrysene
Dibenzo(ah)anthracene
Fluoranthene
Fluorene
Indeno(123cd)pyrene
Naphthalene
Phenanthrene
Pyrene
Coronene
Total PAHs (16 or 17)

Petrol

mg/kg

WS301	WS301	WS301	WS301	WS306	WS306
1.50	2.50	3.50	4.50	0.50	1.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

1.7	1.4	1.4	1.0	1.0	1.0

57.10	84.80	524.00	0.08	1.50	0.08



Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

Diesel
Lube Oil

Crude Oil

White Spirit / Kerosene

Creosote

Unknown TPH with ID

Unknown TPHCWG

Total Sulphide

Complex Cyanide

Free (or Total) Cyanide

Thiocyanate

Elemental/Free Sulphur

Phenols Input Total Phenols HPLC **OR** individual Phenol results.

Phenol

Cresols

Xylenols

Resorcinol

Phenols Total by HPLC

BTEX Input Total BTEX **OR** individual BTEX results.

Benzene

Toluene

Ethylbenzene

Xylenes

associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

WS301	WS301	WS301	WS301	WS306	WS306
1.50	2.50	3.50	4.50	0.50	1.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

679.0	310.0	4,060.0	1.0	30.0	10.0
1	1	1	1	1	1

0.2	0.2	0.2	0.2	0.2	0.2
0.2	0.2	0.2	0.2	0.2	0.2
0.2	0.2	0.2	0.2	0.2	0.2
0.2	0.2	0.2	0.2	0.2	0.2

0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01	0.01	0.01	0.01	0.01



Haswaste, developed by Dr. Iain Haslock.



Ref. 1
Ref. 2
Date

Total BTEX

PCBs (POPs)
PCBs Total (eg EC7/WHO12)

PBBs (POPs)
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)

ociated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

WS301	WS301	WS301	WS301	WS306	WS306
1.50	2.50	3.50	4.50	0.50	1.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

mg/kg

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mg/kg

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mg/kg

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Date _____

WS301	WS301	WS301	WS301	WS306	WS306
1.50	2.50	3.50	4.50	0.50	1.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

2,3,7,8-TeCDD
1,2,3,7,8-PeCDD
1,2,3,4,7,8-HxCDD
1,2,3,6,7,8-HxCDD
1,2,3,7,8,9-HxCDD
1,2,3,4,6,7,8-HpCDD
OCDD
2,3,7,8-TeCDF
1,2,3,7,8-PeCDF
2,3,4,7,8-PeCDF
1,2,3,4,7,8-HxCDF
1,2,3,6,7,8-HxCDF
2,3,4,6,7,8-HxCDF
1,2,3,7,8,9-HxCDF
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8,9-HpCDF
OCDF
Total Dioxins and Furans

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Aldrin

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Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

ociated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

WS301	WS301	WS301	WS301	WS306	WS306
1.50	2.50	3.50	4.50	0.50	1.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

α Hexachlorocyclohexane (alpha-HCH) <i>(leave empty if total HCH results used)</i>
β Hexachlorocyclohexane (beta-HCH) <i>(leave empty if total HCH results used)</i>
α Cis-Chlordane (alpha) OR Total Chlordane
δ Hexachlorocyclohexane (delta-HCH) <i>(leave empty if total HCH results used)</i>
Dieldrin
Endrin
χ Hexachlorocyclohexane (gamma-HCH) (lindane) OR Total HCH
Heptachlor
Hexachlorobenzene
o,p'-DDT <i>(leave empty if total DDT results used)</i>
p,p'-DDT OR Total DDT
χ Trans-Chlordane (gamma) <i>(leave empty if total Chlordane results used)</i>
Chlordecone (kepone)

mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg



Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

Pentachlorobenzene

Mirex

Toxaphene (camphechlor)

Tin

Tin *(leave empty if Organotin and Tin excl Organotin results used)*

Organotin

Dibutyltin; DiBT

Tributyltin; TriBT

Triphenyltin; TriPT

Tetrabutyltin; TeBT

Tin excluding Organotin

Tin excl Organotin

ociated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

WS301	WS301	WS301	WS301	WS306	WS306
1.50	2.50	3.50	4.50	0.50	1.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

Date _____

Thresholds

Y

see "Carc HP7
% Asbestos in
Soil (Fibres)"
below

 $\geq 0.1\%$

Y

WS301	WS301	WS301	WS301	WS306	WS306
1.50	2.50	3.50	4.50	0.50	1.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

M

				0.00100	
0.00000	0.00000	0.00000	0.00000	0.00100	0.00000

N				N	N
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Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

ociated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

WS301	WS301	WS301	WS301	WS306	WS306
1.50	2.50	3.50	4.50	0.50	1.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

ie Asbestos % results and the whole soil sample is Hazardous Waste HP5 and HP7 Construction material containing Asbestos 17 06
stos % above is "<0.1%", but the Asbestos Identifiable Pieces visible with the naked eye is "Y", the soil is Hazardous Waste.

are Cement, Fragments, Board, Rope etc. ie anything ACM that is not Loose Fibres.

/ fibres (or micro pieces) with an Asbestos % Composition in Soil result of <0.1% for the soil to become non-hazardous waste.

Hazardous Property	Thresholds	Cut Off Value
Corrosive HP8	≥5%	<1%
Irritant HP4	≥10%	<1%
Irritant HP4	≥20%	<1%
Specifc Target Organ Toxicity HP5	≥1%	
Specifc Target Organ Toxicity HP5	≥20%	
Specifc Target Organ Toxicity HP5	≥1%	
Specifc Target Organ Toxicity HP5	≥10%	
Aspiration Toxicity HP5	≥10%	
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥5%	<0.1%
Acute Toxicity HP6	≥25%	<1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥2.5%	<0.1%

allow and the text turns red, the samples should be classified as Hazardous Waste.

0.03177	0.02693	0.00980	0.00444	0.01356	0.01664
0.01793	0.01433	0.00507	0.00227	0.01014	0.00990
0.02302	0.02239	0.05757	0.00228	0.00760	0.00919
0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
0.00765	0.00848	0.05240	0.00160	0.00481	0.00481
0.00788	0.00525	0.00263	0.00160	0.00481	0.00481
0.06790	0.03430	0.40600	0.00090	0.00980	0.01050
0.06790	0.03100	0.40600	0.00010	0.00300	0.00100
0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
0.00174	0.00220	0.00057	0.00015	0.00121	0.00107
0.03098	0.02546	0.00964	0.00467	0.01275	0.01614
0.05436	0.06104	0.06746	0.00505	0.02232	0.02462
0.00022	0.00028	0.00023	0.00021	0.00021	0.00021
0.00730	0.00346	0.00211	0.00134	0.00442	0.00422

Haswaste, developed by Dr. Iain Haslock.

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Ref. 1
Ref. 2
Date

WS301	WS301	WS301	WS301	WS306	WS306
1.50	2.50	3.50	4.50	0.50	1.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

Acute Toxicity HP6	≥15%	<0.1%	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006
Acute Toxicity HP6	≥55%	<1%	0.00072	0.00085	0.00065	0.00065	0.00065	0.00068
Acute Toxicity HP6	≥0.1%	<0.1%	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
Acute Toxicity HP6	≥0.5%	<0.1%	0.00808	0.00430	0.00243	0.00164	0.00471	0.00473
Acute Toxicity HP6	≥3.5%	<0.1%	0.00030	0.00016	0.00016	0.00016	0.00016	0.00016
Acute Toxicity HP6	≥22.5%	<1%	0.07061	0.07299	0.02149	0.00727	0.02940	0.03521
Carcinogenic HP7	≥0.1%		0.06790	0.03430	0.40600	0.00141	0.00980	0.01050
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00765	0.00848	0.05240	0.00160	0.00481	0.00481
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		8.83	9.52	8.42	7.03	7.07	6.86
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		8.83	9.52	8.42	7.03	7.07	6.86
Toxic for Reproduction HP10	≥0.3%		0.02390	0.03430	0.05240	0.00141	0.00980	0.01050
Toxic for Reproduction HP10	≥3%		0.06790	0.03100	0.40600	0.00160	0.00481	0.00481
Mutagenic HP11	≥0.1%		0.06790	0.03100	0.40600	0.00134	0.00442	0.00422
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg	0.00	0.00	0.00	0.00	0.00	0.00	

Date _____

associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". 000000", testing has NOT been undertaken that contributes to that Hazardous Property.

WS301	WS301	WS301	WS301	WS306	WS306
1.50	2.50	3.50	4.50	0.50	1.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%
Mutagenic HP11	≥1%
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg
HP13 Sensitising	≥10%

#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.00788	0.00848	0.05240	0.00160	0.00481	0.00481
0.0	0.0	0.0	0.0	0.0	0.0
1.0	1.0	1.0	1.0	1.0	1.0
0.0	0.0	0.0	0.0	0.0	0.0
0.00788	0.00848	0.05240	0.00141	0.00442	0.00465

Ecotoxic HP14 amended v6	≥25%	<0.1%	0.09249	0.11972	0.07506	0.00629	0.02924	0.03346
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Haswaste, developed by Dr. Iain Haslock.

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Ref. 1
Ref. 2
Date

WS301	WS301	WS301	WS301	WS306	WS306
1.50	2.50	3.50	4.50	0.50	1.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T-Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene, Xylene + BTEX 1%).	0.16872	0.15572	0.48364	0.00826	0.03732	0.03972
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Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

ociated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

WS301	WS301	WS301	WS301	WS306	WS306
1.50	2.50	3.50	4.50	0.50	1.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T- Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene , Xylene + BTEX 1%).	10.00923	12.33042	11.58962	0.64700	3.00304	3.40677
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

Date _____

>0.0000015%

WS301	WS301	WS301	WS301	WS306	WS306
1.50	2.50	3.50	4.50	0.50	1.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

0.0000000000

Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

WS306	WS304	WS304	WS304	WS304	WS304
2.50	0.50	1.00	1.50	2.50	3.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

% Moisture
pH (soil)
pH (leachate)
Arsenic
Cadmium
Copper
CrVI or Chromium
Lead
Mercury
Nickel
Selenium
Zinc
Barium
Beryllium
Vanadium
Cobalt
Manganese
Molybdenum
Antimony
Aluminium
Bismuth
CrIII
Iron
Strontium
Tellurium
Thallium

[illegible]

Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

WS306	WS304	WS304	WS304	WS304	WS304
2.50	0.50	1.00	1.50	2.50	3.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

Titanium
Tungsten
Ammoniacal N ws Boron

1.0	1.0	1.1	1.0	1.0	1.0

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Chrysene
Dibenzo(ah)anthracene
Fluoranthene
Fluorene
Indeno(123cd)pyrene
Naphthalene
Phenanthrene
Pyrene
Coronene
Total PAHs (16 or 17)

0.08	0.22	0.90	0.08	0.08	0.08

TPH	
Petrol	

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Haswaste, developed by Dr. Iain Haslock.



Ref. 1
Ref. 2
Date

Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that cell

Diesel
Lube Oil

mg/kg

mg/kg

Crude Oil

mg/kg

White Spirit / Kerosene

mg/kg

Creosote

mg/kg

Unknown TPH with ID

mg/kg

Unknown TPHCWG

mg/kg

Total Sulphide

mg/kg

Complex Cyanide

mg/kg

Free (or Total) Cyanide

mg/kg

Thiocyanate

mg/kg

Elemental/Free Sulphur

mg/kg

Phenols Input Total Phenols HPLC **OR** individual Phenol results.

Phenol

mg/kg

Cresols

mg/kg

Xylenols

mg/kg

Resorcinol

mg/kg

Phenols Total by HPLC

mg/kg

BTEX Input Total BTEX **OR** individual BTEX results.

Benzene

mg/kg

Toluene

mg/kg

Ethylbenzene

mg/kg

Xylenes

mg/kg

WS306	WS304	WS304	WS304	WS304	WS304
2.50	0.50	1.00	1.50	2.50	3.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

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1.0	37.0		1.0	1.0	1.0
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1	1	1	1	1	1
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0.2	0.2		0.2	0.2	0.2
-----	-----	--	-----	-----	-----

0.2	0.2		0.2	0.2	0.2
-----	-----	--	-----	-----	-----

0.2	0.2		0.2	0.2	0.2
-----	-----	--	-----	-----	-----

0.2	0.2		0.2	0.2	0.2
-----	-----	--	-----	-----	-----

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0.01	0.01		0.01	0.01	0.01
------	------	--	------	------	------

0.01	0.01		0.01	0.01	0.01
------	------	--	------	------	------

0.01	0.01		0.01	0.01	0.01
------	------	--	------	------	------

0.01	0.01		0.01	0.01	0.01
------	------	--	------	------	------



Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that α

Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

WS306	WS304	WS304	WS304	WS304	WS304
2.50	0.50	1.00	1.50	2.50	3.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

Total BTEX

mg/kg

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PCBs (POPs)
PCBs Total (eg EC7/WHO12)

mg/kg

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PBBs (POPs)
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)

mg/kg

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Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

WS306	WS304	WS304	WS304	WS304	WS304
2.50	0.50	1.00	1.50	2.50	3.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

POPs Dioxins and Furans Input Total Dioxins and Furans
OR individual Dioxin and Furan results.

2,3,7,8-TeCDDmg/kg

1,2,3,7,8-PeCDDmg/kg

1,2,3,4,7,8-HxCDDmg/kg

1,2,3,6,7,8-HxCDDmg/kg

1,2,3,7,8,9-HxCDDmg/kg

1,2,3,4,6,7,8-HpCDDmg/kg

OCDDmg/kg

2,3,7,8-TeCDFmg/kg

1,2,3,7,8-PeCDFmg/kg

2,3,4,7,8-PeCDFmg/kg

1,2,3,4,7,8-HxCDFmg/kg

1,2,3,6,7,8-HxCDFmg/kg

2,3,4,6,7,8-HxCDFmg/kg

1,2,3,7,8,9-HxCDFmg/kg

1,2,3,4,6,7,8-HpCDFmg/kg

1,2,3,4,7,8,9-HpCDFmg/kg

OCDFmg/kg

Total Dioxins and Furansmg/kg

Some Pesticides (POPs unless otherwise stated)

Aldrinmg/kg

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Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

WS306	WS304	WS304	WS304	WS304	WS304
2.50	0.50	1.00	1.50	2.50	3.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

α Hexachlorocyclohexane (alpha-HCH) <i>(leave empty if total HCH results used)</i>
β Hexachlorocyclohexane (beta-HCH) <i>(leave empty if total HCH results used)</i>
α Cis-Chlordane (alpha) OR Total Chlordane
δ Hexachlorocyclohexane (delta-HCH) <i>(leave empty if total HCH results used)</i>
Dieldrin
Endrin
χ Hexachlorocyclohexane (gamma-HCH) (lindane) OR Total HCH
Heptachlor
Hexachlorobenzene
o,p'-DDT <i>(leave empty if total DDT results used)</i>
p,p'-DDT OR Total DDT
χ Trans-Chlordane (gamma) <i>(leave empty if total Chlordane results used)</i>
Chlordecone (kepone)

mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg



Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that cell

WS306	WS304	WS304	WS304	WS304	WS304
2.50	0.50	1.00	1.50	2.50	3.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

Pentachlorobenzene

Mirex

Toxaphene (camphechlor)

mg/kg
mg/kg
mg/kg

Tin

Tin *(leave empty if Organotin and Tin excl Organotin results used)*

mg/kg

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Organotin

Dibutyltin; DiBT

Tributyltin; TriBT

Triphenyltin; TriPT

Tetrabutyltin; TeBT

mg/kg
mg/kg
mg/kg
mg/kg

Tin excluding Organotin

Tin excl Organotin

mg/kg

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Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

Asbestos in Soil

Thresholds

Asbestos detected in Soil (enter Y or N)

Y

Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)

see "Carc HP7 % Asbestos in Soil (Fibres)" below

Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)

Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.

≥0.1%

Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)

Y

Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

WS306	WS304	WS304	WS304	WS304	WS304
2.50	0.50	1.00	1.50	2.50	3.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

N	N	N	N	N	N
---	---	---	---	---	---

If Asbestos in Soil above is "Y", the soil is Hazardous Waste HP5 and I

0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1%", the soil is Non Hazardous Waste. You can only use Asbestos % cannot use Asbestos % results when visual identifiable pieces are pres

	N	N	N		
--	---	---	---	--	--



Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

WS306	WS304	WS304	WS304	WS304	WS304
2.50	0.50	1.00	1.50	2.50	3.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Was
05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visib

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is
All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil re

Hazardous Property	Thresholds	Cut Off Value
Corrosive HP8	≥5%	<1%
Irritant HP4	≥10%	<1%
Irritant HP4	≥20%	<1%
Specifc Target Organ Toxicity HP5	≥1%	
Specifc Target Organ Toxicity HP5	≥20%	
Specifc Target Organ Toxicity HP5	≥1%	
Specifc Target Organ Toxicity HP5	≥10%	
Aspiration Toxicity HP5	≥10%	
Acute Toxicity HP6	≥0.1%	<0.1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥5%	<0.1%
Acute Toxicity HP6	≥25%	<1%
Acute Toxicity HP6	≥0.25%	<0.1%
Acute Toxicity HP6	≥2.5%	<0.1%

If cells below turn yellow and the text turns red, the samples should be classified a					
0.01498	0.01706	0.01952	0.00975	0.01686	0.00551
0.00709	0.01045	0.01284	0.00557	0.00804	0.00308
0.00639	0.00799	0.01363	0.00522	0.00813	0.00333
0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
0.00552	0.00463	0.00498	0.00409	0.00534	0.00196
0.00552	0.00463	0.00606	0.00422	0.00557	0.00202
0.00130	0.01250	0.01350	0.00100	0.00180	0.00050
0.00010	0.00370	0.00000	0.00010	0.00010	0.00010
0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
0.00015	0.00150	0.00122	0.00028	0.00015	0.00015
0.01540	0.01607	0.01884	0.00990	0.01728	0.00575
0.01331	0.02515	0.03196	0.01054	0.01539	0.00606
0.00021	0.00023	0.00022	0.00021	0.00021	0.00021
0.00518	0.00365	0.00403	0.00422	0.00557	0.00192



Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

WS306	WS304	WS304	WS304	WS304	WS304
2.50	0.50	1.00	1.50	2.50	3.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

Acute Toxicity HP6	≥15%	<0.1%	0.00006	0.00006	0.00000	0.00006	0.00006	0.00006	0.00006
Acute Toxicity HP6	≥55%	<1%	0.00066	0.00066	0.00066	0.00065	0.00068	0.00065	0.00065
Acute Toxicity HP6	≥0.1%	<0.1%	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
Acute Toxicity HP6	≥0.5%	<0.1%	0.00567	0.00407	0.00449	0.00456	0.00608	0.00222	0.00222
Acute Toxicity HP6	≥3.5%	<0.1%	0.00016	0.00016	0.00014	0.00016	0.00016	0.00016	0.00016
Acute Toxicity HP6	≥22.5%	<1%	0.02222	0.03635	0.04551	0.01506	0.02578	0.00878	0.00878
Carcinogenic HP7	≥0.1%		0.00518	0.01250	0.01350	0.00422	0.00557	0.00202	0.00202
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00552	0.00463	0.00498	0.00409	0.00534	0.00196	0.00196
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		6.60	7.09	8.73	5.93	6.46	6.09	6.09
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		6.60	7.09	8.73	5.93	6.46	6.09	6.09
Toxic for Reproduction HP10	≥0.3%		0.00444	0.01250	0.01350	0.00364	0.00505	0.00202	0.00202
Toxic for Reproduction HP10	≥3%		0.00552	0.00463	0.00498	0.00422	0.00557	0.00196	0.00196
Mutagenic HP11	≥0.1%		0.00518	0.00370	0.00403	0.00422	0.00557	0.00192	0.00192
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00	0.00



Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

WS306	WS304	WS304	WS304	WS304	WS304
2.50	0.50	1.00	1.50	2.50	3.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%
Mutagenic HP11	≥1%
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg
HP13 Sensitising	≥10%

#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.00552	0.00463	0.00606	0.00409	0.00534	0.00202
0.0	0.0	0.0	0.0	0.0	0.0
1.0	1.0	1.0	1.0	1.0	1.0
0.0	0.0	0.0	0.0	0.0	0.0
0.00518	0.00365	0.00606	0.00422	0.00557	0.00202

Ecotoxic HP14 amended v6	≥25%	<0.1%
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0.02048	0.03240	0.04058	0.01618	0.02212	0.00790
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Haswaste, developed by Dr. Iain Haslock.

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Ref. 1
Ref. 2
Date

WS306	WS304	WS304	WS304	WS304	WS304
2.50	0.50	1.00	1.50	2.50	3.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T- Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene , Xylene + BTEX 1%).	0.02655	0.04109	0.04593	0.02069	0.02801	0.01023
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Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

Haswaste, developed by Dr. Iain Haslock.



Ref. 1
Ref. 2
Date

WS306	WS304	WS304	WS304	WS304	WS304
2.50	0.50	1.00	1.50	2.50	3.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T- Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene , Xylene + BTEX 1%).	2.10639	3.32518	4.11189	1.66108	2.26861	0.81146
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000



Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

Persistent Organic Pollutant
(Individual Dioxins+Furans)

>0.0000015%

Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that c

WS306	WS304	WS304	WS304	WS304	WS304
2.50	0.50	1.00	1.50	2.50	3.50
04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23	04-Apr-23
0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000

Date _____

pH (leachate)

mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg

[illegible]

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

WS307	RBH305	RBH502	RBH502	RBH505	RBH503
0.40	0.50	1	4.5	2.10	1.20
04-Apr-23	24-Apr-23	03-Nov-23	07-Nov-23	31-Oct-23	31-Oct-23

9.12	8.30	10.59	7.24	9.31	8.16
8	8	13	1	1	17
0.6	1.3	0.6	0.5	0.5	0.5
77	81	20	7	12	70
23	30	3,610	6	9	23
177	204	0	0	7	139
0.51	1.04	0.17	0.17	0.17	0.21
52	20	25	7	8	27
1	1	1	1	1	1
89	274	158	16	22	78
195.00	274.00				
0.8	0.6				
32	21				
10.00	3.00				
5	6				

Date _____

Ammoniacal N	
ws Boron	

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Chrysene
Dibenzo(ah)anthracene
Fluoranthene
Fluorene
Indeno(123cd)pyrene
Naphthalene
Phenanthrene
Pyrene
Coronene
Total PAHs (16 or 17)

Petrol

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

WS307	RBH305	RBH502	RBH502	RBH505	RBH503
0.40	0.50	1	4.5	2.10	1.20
04-Apr-23	24-Apr-23	03-Nov-23	07-Nov-23	31-Oct-23	31-Oct-23

1.0	1.0				

1.11	106.00	32.50	3.78	71.60	0.11

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Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

Diesel
Lube Oil

Crude Oil

White Spirit / Kerosene

Creosote

Unknown TPH with ID

Unknown TPHCWG

Total Sulphide

Complex Cyanide

Free (or Total) Cyanide

Thiocyanate

Elemental/Free Sulphur

Phenols Input Total Phenols HPLC **OR** individual Phenol results.

Phenol

Cresols

Xylenols

Resourcinol

Phenols Total by HPLC

BTEX Input Total BTEX **OR** individual BTEX results.

Benzene

Toluene

Ethylbenzene

Xylenes

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with that Hazardous Property.
If any calculation cells below state "0.0000",

WS307	RBH305	RBH502	RBH502	RBH505	RBH503
0.40	0.50	1	4.5	2.10	1.20
04-Apr-23	24-Apr-23	03-Nov-23	07-Nov-23	31-Oct-23	31-Oct-23

81.0		395.0	327.0	657.0	71.0
1	1	1	1	1	1

0.2		0.2	0.2	0.2	0.2
0.2					
0.2					
0.2					

0.01		0.01	0.01	0.01	0.01
0.01		0.01	0.01	0.01	0.01
0.01		0.01	0.01	0.01	0.01
0.01		0.01	0.01	0.01	0.01



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Ref. 1
Ref. 2
Date

Total BTEX

PCBs (POPs)
PCBs Total (eg EC7/WHO12)

PBBs (POPs)
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with that Hazardous Property.
If any calculation cells below state "0.0000", please check the data entered.

WS307	RBH305	RBH502	RBH502	RBH505	RBH503
0.40	0.50	1	4.5	2.10	1.20
04-Apr-23	24-Apr-23	03-Nov-23	07-Nov-23	31-Oct-23	31-Oct-23

mg/kg					
-------	--	--	--	--	--

mg/kg					
-------	--	--	--	--	--

mg/kg					
-------	--	--	--	--	--



Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with the Hazardous Property.
If any calculation cells below state "0.0000", it indicates that the data is not sufficient to calculate the value.

WS307	RBH305	RBH502	RBH502	RBH505	RBH503
0.40	0.50	1	4.5	2.10	1.20
04-Apr-23	24-Apr-23	03-Nov-23	07-Nov-23	31-Oct-23	31-Oct-23

POPs Dioxins and Furans Input Total Dioxins and Furans
OR individual Dioxin and Furan results.

2,3,7,8-TeCDD

1,2,3,7,8-PeCDD

1,2,3,4,7,8-HxCDD

1,2,3,6,7,8-HxCDD

1,2,3,7,8,9-HxCDD

1,2,3,4,6,7,8-HpCDD

OCDD

2,3,7,8-TeCDF

1,2,3,7,8-PeCDF

2,3,4,7,8-PeCDF

1,2,3,4,7,8-HxCDF

1,2,3,6,7,8-HxCDF

2,3,4,6,7,8-HxCDF

1,2,3,7,8,9-HxCDF

1,2,3,4,6,7,8-HpCDF

1,2,3,4,7,8,9-HpCDF

OCDF

Total Dioxins and Furans

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

Some Pesticides (POPs unless otherwise stated)

Aldrin

mg/kg

--	--	--	--	--	--

Date _____

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

WS307	RBH305	RBH502	RBH502	RBH505	RBH503
0.40	0.50	1	4.5	2.10	1.20
04-Apr-23	24-Apr-23	03-Nov-23	07-Nov-23	31-Oct-23	31-Oct-23

α Hexachlorocyclohexane (alpha-HCH) <i>(leave empty if total HCH results used)</i>	mg/kg					
β Hexachlorocyclohexane (beta-HCH) <i>(leave empty if total HCH results used)</i>	mg/kg					
α Cis-Chlordane (alpha) OR Total Chlordane	mg/kg					
δ Hexachlorocyclohexane (delta-HCH) <i>(leave empty if total HCH results used)</i>	mg/kg					
Dieldrin	mg/kg					
Endrin	mg/kg					
χ Hexachlorocyclohexane (gamma-HCH) (lindane) OR Total HCH	mg/kg					
Heptachlor	mg/kg					
Hexachlorobenzene	mg/kg					
o,p'-DDT <i>(leave empty if total DDT results used)</i>	mg/kg					
p,p'-DDT OR Total DDT	mg/kg					
χ Trans-Chlordane (gamma) <i>(leave empty if total Chlordane results used)</i>	mg/kg					
Chlordecone (kepone)	mg/kg					

Date _____

Toxaphene (camphechlor)

Tin (leave empty if Organotin and Tin excl Organotin results used)

Tetrabutyltin; TeBT

Tin excl Organotin

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

WS307	RBH305	RBH502	RBH502	RBH505	RBH503
0.40	0.50	1	4.5	2.10	1.20
04-Apr-23	24-Apr-23	03-Nov-23	07-Nov-23	31-Oct-23	31-Oct-23

mg/kg						
mg/kg						
mg/kg						

mg/kg					
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mg/kg						
mg/kg						
mg/kg						
mg/kg						

mg/kg						
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Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

Asbestos in Soil

Thresholds

Asbestos detected in Soil (enter Y or N)

Y

Asbestos % Composition in Soil (Matrix Loose Fibres or Microscopic Identifiable Pieces only)

see "Carc HP7 % Asbestos in Soil (Fibres)" below

Carcinogenic HP7 % Asbestos in Soil (fibres or micro pieces)

Please be advised, if the calculation cell is "0.00000" DOES NOT MEAN asbestos testing has been undertaken and the result is zero.

≥0.1%

Asbestos Identifiable Pieces visible with the naked eye detected in the Soil (enter Y or N)

Y

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with the Hazardous Property.
If any calculation cells below state "0.00000", this indicates that the calculation cannot be performed.

WS307	RBH305	RBH502	RBH502	RBH505	RBH503
0.40	0.50	1	4.5	2.10	1.20
04-Apr-23	24-Apr-23	03-Nov-23	07-Nov-23	31-Oct-23	31-Oct-23

N	N	N	N	N	N
---	---	---	---	---	---

HP7	If A				
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

results where loose fibres or micro pieces are only present. You If Asbestos in Soil above is "Y", but Asbestos % above is "<0.1% ent. can

N	N	N		N	
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Date _____

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

WS307	RBH305	RBH502	RBH502	RBH505	RBH503
0.40	0.50	1	4.5	2.10	1.20
04-Apr-23	24-Apr-23	03-Nov-23	07-Nov-23	31-Oct-23	31-Oct-23

not Loose Fibres.	Identifiable Pieces
sult of <0.1% for the soil to become non-hazardous waste.	All visual asbestos pieces need to be removed leaving only

Hazardous Property	Thresholds	Cut Off Value	s Hazardous Waste.						If cells below turn y
Corrosive HP8	≥5%	<1%	0.02503	0.03422	0.69486	0.00130	0.00188	0.00668	
Irritant HP4	≥10%	<1%	0.01553	0.01395	0.00400	0.00094	0.00151	0.01017	
Irritant HP4	≥20%	<1%	0.02120	0.02452	0.01056	0.00259	0.01014	0.01338	
Specifc Target Organ Toxicity HP5	≥1%		0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	
Specifc Target Organ Toxicity HP5	≥20%		0.00570	0.01060	0.00325	0.00038	0.00716	0.00001	
Specifc Target Organ Toxicity HP5	≥1%		0.01050	0.00576	0.69312	0.00141	0.00173	0.00545	
Specifc Target Organ Toxicity HP5	≥10%		0.01770	0.02040	0.03950	0.03270	0.06570	0.01390	
Aspiration Toxicity HP5	≥10%		0.00810	0.00000	0.03950	0.03270	0.06570	0.00710	
Acute Toxicity HP6	≥0.1%	<0.1%	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019	
Acute Toxicity HP6	≥0.25%	<0.1%	0.00111	0.00116	0.00173	0.00015	0.00015	0.00227	
Acute Toxicity HP6	≥5%	<0.1%	0.02448	0.03357	0.69328	0.00131	0.00189	0.00458	
Acute Toxicity HP6	≥25%	<1%	0.04339	0.04878	0.01064	0.00265	0.01088	0.02733	
Acute Toxicity HP6	≥0.25%	<0.1%	0.00024	0.00029	0.00021	0.00021	0.00021	0.00021	
Acute Toxicity HP6	≥2.5%	<0.1%	0.00442	0.00576	0.69312	0.00115	0.00173	0.00442	



Haswaste, developed by Dr. Iain Haslock.



Ref. 1

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Date

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with that Hazardous Property.
If any calculation cells below state "0.0000",

WS307	RBH305	RBH502	RBH502	RBH505	RBH503
0.40	0.50	1	4.5	2.10	1.20
04-Apr-23	24-Apr-23	03-Nov-23	07-Nov-23	31-Oct-23	31-Oct-23

Acute Toxicity HP6	≥15%	<0.1%	0.00006	0.00000	0.00002	0.00002	0.00002	0.00002
Acute Toxicity HP6	≥55%	<1%	0.00066	0.00085	0.00006	0.00005	0.00005	0.00005
Acute Toxicity HP6	≥0.1%	<0.1%	0.00019	0.00019	0.00019	0.00019	0.00019	0.00019
Acute Toxicity HP6	≥0.5%	<0.1%	0.00489	0.00627	0.69320	0.00122	0.00180	0.00449
Acute Toxicity HP6	≥3.5%	<0.1%	0.00016	0.00014	0.00016	0.00016	0.00016	0.00016
Acute Toxicity HP6	≥22.5%	<1%	0.06210	0.06473	0.00733	0.00222	0.00367	0.02727
Carcinogenic HP7	≥0.1%		0.01770	0.02040	0.69312	0.03270	0.06570	0.01390
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00570	0.01060	0.00325	0.00038	0.00716	0.00001
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		9.12	8.30	10.59	7.24	9.31	8.16
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		9.12	8.30	10.59	7.24	9.31	8.16
Toxic for Reproduction HP10	≥0.3%		0.01770	0.02040	0.00505	0.00141	0.00716	0.01390
Toxic for Reproduction HP10	≥3%		0.00810	0.00576	0.69312	0.03270	0.06570	0.00710
Mutagenic HP11	≥0.1%		0.00810	0.01060	0.69312	0.03270	0.06570	0.00710
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00

Date _____

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%
Mutagenic HP11	≥1%
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg
HP13 Sensitising	≥10%

#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.01050	0.01060	0.00505	0.00141	0.00716	0.00545
0.0	0.0	0.0	0.0	0.0	0.0
1.0	1.0	1.0	1.0	1.0	1.0
0.0	0.0	0.0	0.0	0.0	0.0
0.01050	0.01060	0.69312	0.00141	0.00716	0.00545

Ecotoxic HP14 amended v6	≥25%	<0.1%	0.05407	0.08582	0.72557	0.00628	0.01584	0.04409
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Haswaste, developed by Dr. Iain Haslock.



Ref. 1
Ref. 2
Date

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with the Hazardous Property.
If any calculation cells below state "0.0000", it

WS307	RBH305	RBH502	RBH502	RBH505	RBH503
0.40	0.50	1	4.5	2.10	1.20
04-Apr-23	24-Apr-23	03-Nov-23	07-Nov-23	31-Oct-23	31-Oct-23

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T- Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene , Xylene + BTEX 1%).	0.06828	0.08983	0.76509	0.03900	0.08156	0.05121
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Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

Date _____

WS307	RBH305	RBH502	RBH502	RBH505	RBH503
0.40	0.50	1	4.5	2.10	1.20
04-Apr-23	24-Apr-23	03-Nov-23	07-Nov-23	31-Oct-23	31-Oct-23

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T- Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene , Xylene + BTEX 1%).	5.54751	8.62232	72.95210	0.95520	2.24100	4.47970
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000



Haswaste, developed by Dr. Iain Haslock.

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Date

Persistent Organic Pollutant
(Individual Dioxins+Furans)

>0.0000015%

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with the Hazardous Property.
If any calculation cells below state "0.0000000000", please enter a value.

WS307	RBH305	RBH502	RBH502	RBH505	RBH503
0.40	0.50	1	4.5	2.10	1.20
04-Apr-23	24-Apr-23	03-Nov-23	07-Nov-23	31-Oct-23	31-Oct-23

0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
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Date _____

pH (leachate)

Arsenic
Cadmium
Copper
CrVI or Chromium
Lead
Mercury
Nickel
Selenium
Zinc

Barium
Beryllium
Vanadium

Cobalt
Manganese
Molybdenum

Antimony
Aluminium
Bismuth
CrIII
Iron
Strontium
Tellurium
Thallium

%

[illegible]

associated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!". 00000", testing has NOT been undertaken that contributes to that Hazardous Property.

RBH503	RBH501	RBH501	RBH504	RBH504	RBH504
4.00	0.80	2.00	1.50	1.90	3.10
31-Oct-23	01-Nov-23	01-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23

8.40	8.05	7.76	7.94	7.38	7.89
1	3	3	91	20	2
0.5	0.5	0.5	1.4	0.5	0.5
6	16	12	1,700	112	11
8	26	15	16	30	13
6	22	8	44,100	3,020	54
0.17	0.17	0.17	2.66	0.17	0.17
6	26	18	38	30	13
1	1	1	1	1	1
21	59	32	502	107	25

Date _____

Ammoniacal N	
ws Boron	

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Chrysene
Dibenzo(ah)anthracene
Fluoranthene
Fluorene
Indeno(123cd)pyrene
Naphthalene
Phenanthrene
Pyrene
Coronene
Total PAHs (16 or 17)

Petrol

mg/kg

RBH503	RBH501	RBH501	RBH504	RBH504	RBH504
4.00	0.80	2.00	1.50	1.90	3.10
31-Oct-23	01-Nov-23	01-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23

1.23	0.08	0.08	1310.00	1750.00	257.00



Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

Diesel

Lube Oil

Crude Oil

White Spirit / Kerosene

Creosote

Unknown TPH with ID

Unknown TPHCWG

Total Sulphide

Complex Cyanide

Free (or Total) Cyanide

Thiocyanate

Elemental/Free Sulphur

Phenols Input Total Phenols HPLC **OR** individual Phenol results.

Phenol

Cresols

Xylenols

Resorcinol

Phenols Total by HPLC

BTEX Input Total BTEX **OR** individual BTEX results.

Benzene

Toluene

Ethylbenzene

Xylenes

ociated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

RBH503	RBH501	RBH501	RBH504	RBH504	RBH504
4.00	0.80	2.00	1.50	1.90	3.10
31-Oct-23	01-Nov-23	01-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23

12.0	2.0	2.0	11,900.0	14,500.0	484.0
1	1	1	1	1	1

0.2	0.2	0.2	0.7	0.9	0.5

0.01	0.01	0.01	0.05	0.05	0.01
0.01	0.01	0.01	0.05	0.05	0.01
0.01	0.01	0.01	0.12	0.09	0.02
0.01	0.01	0.01	0.14	0.08	0.02



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Ref. 1
Ref. 2
Date

Total BTEX

PCBs (POPs)
PCBs Total (eg EC7/WHO12)

PBBs (POPs)
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)

ociated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

RBH503	RBH501	RBH501	RBH504	RBH504	RBH504
4.00	0.80	2.00	1.50	1.90	3.10
31-Oct-23	01-Nov-23	01-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23

mg/kg

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mg/kg

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mg/kg

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Date _____

RBH503	RBH501	RBH501	RBH504	RBH504	RBH504
4.00	0.80	2.00	1.50	1.90	3.10
31-Oct-23	01-Nov-23	01-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23

2,3,7,8-TeCDD
1,2,3,7,8-PeCDD
1,2,3,4,7,8-HxCDD
1,2,3,6,7,8-HxCDD
1,2,3,7,8,9-HxCDD
1,2,3,4,6,7,8-HpCDD
OCDD
2,3,7,8-TeCDF
1,2,3,7,8-PeCDF
2,3,4,7,8-PeCDF
1,2,3,4,7,8-HxCDF
1,2,3,6,7,8-HxCDF
2,3,4,6,7,8-HxCDF
1,2,3,7,8,9-HxCDF
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8,9-HpCDF
OCDF
Total Dioxins and Furans

--	--	--	--	--	--

Aldrin

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Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

ociated with the test (grey) cells. Calculation cells initially display either "0.0000" or "#DIV/0!".
00000", testing has NOT been undertaken that contributes to that Hazardous Property.

RBH503	RBH501	RBH501	RBH504	RBH504	RBH504
4.00	0.80	2.00	1.50	1.90	3.10
31-Oct-23	01-Nov-23	01-Nov-23	02-Nov-23	02-Nov-23	02-Nov-23

α Hexachlorocyclohexane (alpha-HCH) <i>(leave empty if total HCH results used)</i>
β Hexachlorocyclohexane (beta-HCH) <i>(leave empty if total HCH results used)</i>
α Cis-Chlordane (alpha) OR Total Chlordane
δ Hexachlorocyclohexane (delta-HCH) <i>(leave empty if total HCH results used)</i>
Dieldrin
Endrin
χ Hexachlorocyclohexane (gamma-HCH) (lindane) OR Total HCH
Heptachlor
Hexachlorobenzene
o,p'-DDT <i>(leave empty if total DDT results used)</i>
p,p'-DDT OR Total DDT
χ Trans-Chlordane (gamma) <i>(leave empty if total Chlordane results used)</i>
Chlordecone (kepone)

mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
