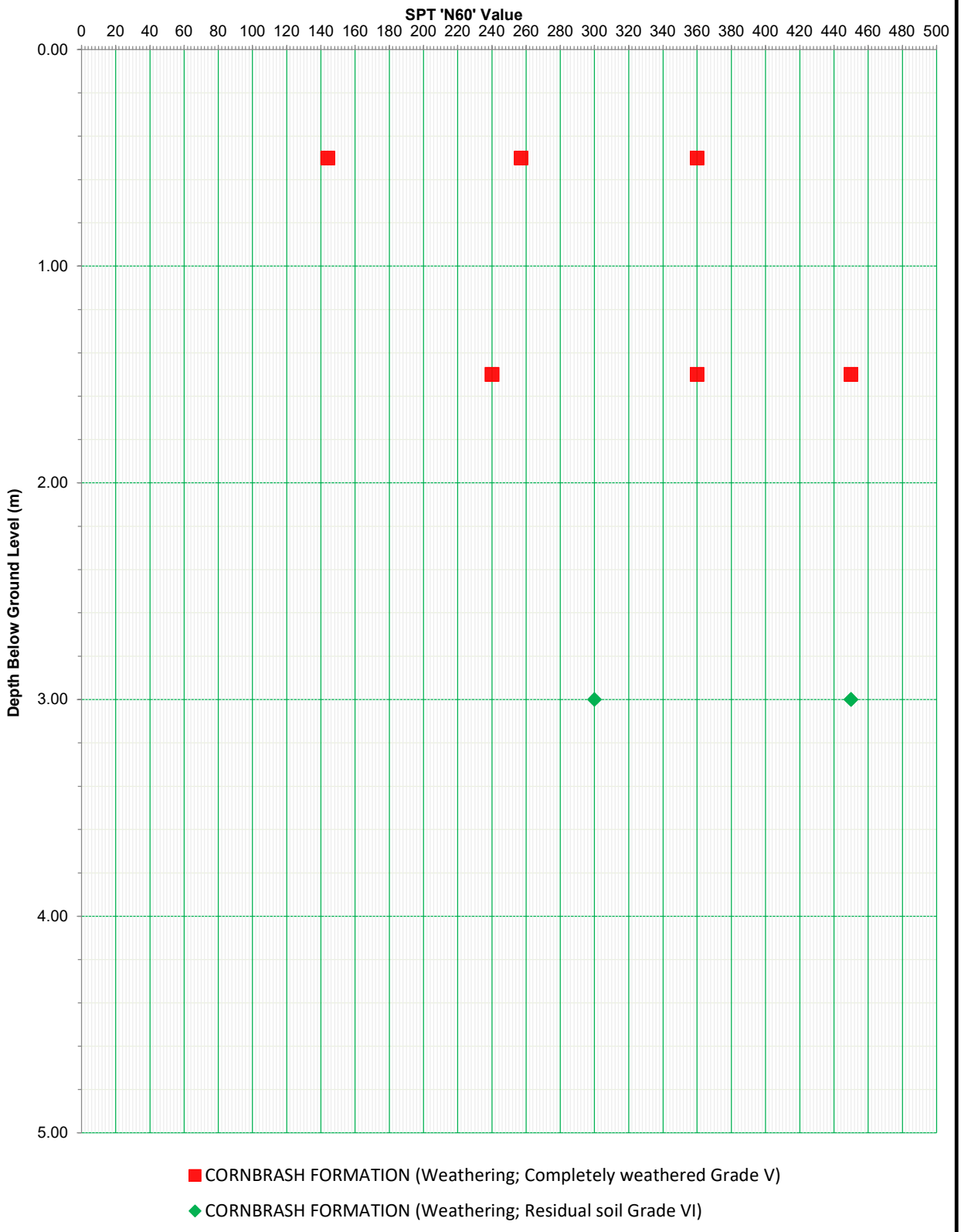
Hydrock

SPT N_{60} Values vs Depth

Site:	Client:	Contract No. 22457
Bicester Heritage	IKS Consulting on behalf of Bicester Motion	



Notes: N_{60} capped at 500 on the X axis.

Appendix G Site Monitoring Data and Ground Gas Risk Assessment

Hydrock

Site: Bicester Heritage Hotel
Job number: C-22457
Client: IKS Consulting Limited on behalf of Bicester Motio

Notes: LEL = lower explosive limit = 5%v/v.
Where the flow is less than the limit of detection of the instrument, the detection limit is reported.
GSVs are rounded to 3 places.

Notes on site conditions:

17/03/22	Beside active runway and test race track - Sunny
21/03/22	Beside active runway and test race track - Sunny
28/03/22	Beside active runway and test race track - Sunny
11/04/22	Beside active runway and test race track - Overcast
04/05/22	Beside active runway and test race track - Overcast
11/05/22	Beside active runway and test race track - Raining

Gas analyser:	Model: GA5000 Serial No.: G507130
Equipment check OK:	OK (Field Check/Calibration 11/05/22)
Service in date:	05/07/2022
Calibration check OK:	OK (Factory Calibration 05/01/2022)
Name of person monitoring:	David Webster

Monitoring round		Borehole details						Pressure and flow					Gas concentrations										GSV		Local conditions
Date	Time	Borehole	Single or dual gas tap	Response zone depth (m)	Depth to water or depth of hole if dry (m)	D denotes dry hole	Volume of headspace in BH (well pipe & filter pack) (m^3)	Atmospheric pressure (hPa)	Atm pressure falling / rising / steady	Relative BH pressure (hPa)	Gas flow* (l/hr)	Gas flow* (absolute value) (l/hr)	VOC (as ppm using PID)	CH_4 (%v/v)		CH_4 (%LEL)		CO_2 (%v/v)		O_2 (%v/v)		Other Gases		Gas Screening Value (CH_4) (l/hr)	Gas Screening Value (CO_2) (l/hr)	Notes on condition of borehole and surrounding ground
														Initial	Steady	Initial	Steady	Initial	Steady	Initial	Steady	CO	H_2S			
								Max. individual values:				**0.2**			**0.1**		**2.0**		**2.0**		**20.1**			**0**	**0**	
								Min. individual values:				0.0			0.1		0.0		1.1		15.9			0	0	**Summary statistics for this monitoring period.**
								Worst-case GSVs based on max. individual flow and max. individual conc. over the duration of this table:																**0.0002**	**0.004**	
17/03/22	16:25	RO101	S	2.96	1.80		0.000	1024		0.11	0.00	0.00		0.1	0.1	2.0	2.0	1.1	1.1	20.1	20.1	0	0	<0.007	<0.007	OK
17/03/22	15:19	RO102	S	2.95	1.35		0.000	1023		0.11	0.20	0.20		0.1	0.1	2.0	2.0	1.5	1.5	15.9	15.9	500	16	<0.007	<0.007	CO Maxed Out - Purged Analyser
17/03/22	16:15	RO103	S	3.04	1.44		0.000	1024		0.12	-0.10	0.10		0.1	0.1	2.0	2.0	1.2	1.2	17.7	17.7	419	0	<0.007	<0.007	CO High
21/03/22	11:04	RO101	S	2.9	1.72		0.000	1019	F	0.04	0.00	0.00		0.1	0.1	2.0	2.0	1.5	1.5	16.9	16.9	2	0	<0.007	<0.007	OK
21/03/22	11:13	RO102	S	3.03	1.40		0.000	1019	F	-0.04	0.00	0.00		0.1	0.1	2.0	2.0	1.4	1.4	17.4	17.4	500	1	<0.007	<0.007	CO Maxed Out - Purged Analyser
21/03/22	11:08	RO103	S	3.05	1.46		0.000	1019	F	-0.04	0.00	0.00		0.1	0.1	2.0	2.0	1.6	1.6	17.3	17.3	5	0	<0.007	<0.007	OK
28/03/22	11:37	RO101	S	2.9	1.84		0.000	1015	F	0.02	0.20	0.20		0.1	0.1	2.0	2.0	1.4	1.4	17.0	17.0	1	0	<0.007	<0.007	OK
28/03/22	11:52	RO102	S	3.03	1.51		0.000	1015	F	-0.44	0.20	0.20		0.1	0.1	2.0	2.0	1.8	1.8	17.9	17.9	143	1	<0.007	<0.007	HIGH CO
28/03/22	11:31	RO103	S	3.05	1.51		0.000	1015	F	0.04	0.20	0.20		0.1	0.1	2.0	2.0	1.5	1.5	18.4	18.4	14	0	<0.007	<0.007	OK
11/04/22	12:19	RO101	S	2.98	1.88		0.000	1000	F	0.18	0.10	0.10		0.1	0.1	2.0	2.0	1.6	1.5	18.8	18.8	0	1	<0.007	<0.007	OK - Water Sample Taken
11/04/22	12:23	RO102	S	2.94	1.67		0.000	1000	F	0.07	0.20	0.20		0.1	0.1	2.0	2.0	1.9	1.9	18.3	18.3	4	1	<0.007	<0.007	OK - Water Sample Taken
11/04/22	11:57	RO103	S	3.03	1.55		0.000	1000	F	-0.02	0.20	0.20		0.1	0.1	2.0	2.0	1.4	1.4	19.4	19.7	0	0	<0.007	<0.007	OK - Water Sample Taken
11/04/22	12:19	RO101	S	2.98	2.41																					Final Depth
11/04/22	12:23	RO102	S	2.94	2.48																					Final Depth
11/04/22	11:57	RO103	S	3.03	2.44																					Final Depth
04/05/22	11:12	RO101	S	2.98	1.93		0.000	1010	R	-0.02	0.00	0.00	0.7	0.1	0.1	2.0	2.0	1.7	1.7	19.7	19.7	0	1	<0.007	<0.007	OK
04/05/22	11:19	RO102	S	2.94	1.73		0.000	1010	R	0.02	0.00	0.00	0.6	0.1	0.1	2.0	2.0	2.0	2.0	19.9	19.9	4	1	<0.007	<0.007	OK
04/05/22	11:04	RO103	S	3.03	1.67		0.000	1010	R	-0.07	0.00	0.00	0.8	0.1	0.1	2.0	2.0	1.6	1.6	19.9	19.9	8	1	<0.007	<0.007	VOC STARTED AT 2.9 AND LOWERED TO RECORDED VALUE
11/05/22	08:50	RO101	S	2.98	1.91		0.000	1000	S	-0.05	0.00	0.00	0.5	0.1	0.1	2.0	2.0	1.9	1.9	20.0	20.0	0	0	<0.007	<0.007	OK (VOC Initial 0.6)
11/05/22	08:55	RO102	S	2.94	1.75		0.000	1000	S	0.02	0.00	0.00	0.6	0.1	0.1	2.0	2.0	2.0	2.0	19.9	19.9	4	1	<0.007	<0.007	OK (VOC Initial 0.8)
11/05/22	08:40	RO103	S	3.03	1.67		0.000	1000	S	-0.11	0.20	0.20	0.8	0.1	0.1	2.0	2.0	1.9	1.9	20.0	20.0	5	0	<0.007	<0.007	OK (VOC Initial 1.9)

1 DAY INFILTRATION ASSESSMENT - WORKSHEET

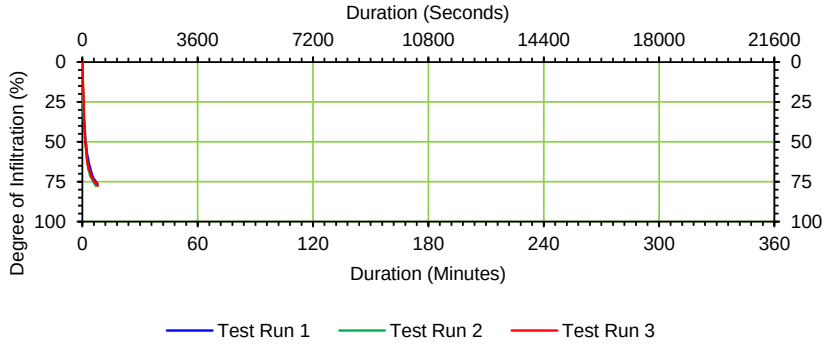
Site: Bicester Heritage

Client: IKS Consulting on behalf of Bicester Motion

Test Location TP103 **Date of start** 17/02/2022 **Date at end** 17/02/2022

Test Run 1		Test Run 2		Test Run 3	
Pit Dimensions (m)		**Pit Dimensions (m)**		**Pit Dimensions (m)**	
Trial Pit Length (L)	2.300m	Trial Pit Length (L)	2.300m	Trial Pit Length (L)	2.300m
Trial Pit Breadth / Width (B)	0.800m	Trial Pit Breadth / Width (B)	0.800m	Trial Pit Breadth / Width (B)	0.800m
Effective Depth (D)	1.800m	Effective Depth (D)	1.800m	Effective Depth (D)	1.800m
Time at Start of Filling	13.24	Time at Start of Filling	14.03	Time at Start of Filling	15.02
Time at End of Filling	13.35	Time at End of Filling	14.13	Time at End of Filling	15.12
Depth from Surface to Water (D_{TW})	1.160m	Depth below Surface to Water (D_{TW})	0.860m	Depth below Surface to Water (D_{TW})	0.860m
Water Depth (W_D)	0.640m	Water Depth (W_D)	0.940m	Water Depth (W_D)	0.940m
Maximum Fill Volume (V_W)	1.178m³	Maximum Fill Volume (V_W)	1.730m³	Maximum Fill Volume (V_W)	1.730m³
Gravel used to backfill Test Pit	Yes	Gravel used to backfill Test Pit	Yes	Gravel used to backfill Test Pit	Yes
Porosity of Gravel Backfill (P_t)	0.300	Porosity of Gravel Backfill (P_t)	0.300	Porosity of Gravel Backfill (P_t)	0.300
Corrected Water Volume (V_{WC})	0.353m³	Corrected Water Volume (V_{WC})	0.519m³	Corrected Water Volume (V_{WC})	0.519m³

Time to soakaway				Time to soakaway				Time to soakaway			
Time		Depth to water	Duration	Time		Depth to water	Duration	Time		Depth to water	Duration
Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds
1	13.350	1.160	0	1	14.130	0.860	0	1	15.115	0.860	0
1	13.353	1.270	15	1	14.133	1.000	15	1	15.118	0.970	15
1	13.355	1.320	30	1	14.135	1.150	30	1	15.120	1.030	30
1	13.358	1.380	45	1	14.138	1.190	45	1	15.125	1.220	60
1	13.360	1.400	60	1	14.140	1.230	60	1	15.128	1.260	75
1	13.363	1.430	75	1	14.142	1.270	74	1	15.130	1.320	90
1	13.365	1.460	90	1	14.145	1.310	90	1	15.133	1.360	105
1	13.368	1.480	105	1	14.148	1.350	105	1	15.135	1.380	120
1	13.370	1.490	120	1	14.150	1.380	120	1	15.138	1.400	135
1	13.373	1.510	135	1	14.153	1.410	135	1	15.140	1.440	150
1	13.375	1.530	150	1	14.155	1.440	150	1	15.143	1.460	165
1	13.378	1.540	165	1	14.158	1.460	165	1	15.145	1.480	180
1	13.380	1.550	180	1	14.160	1.480	180	1	15.148	1.490	195
1	13.383	1.560	195	1	14.163	1.500	195	1	15.150	1.490	210
1	13.385	1.570	210	1	14.165	1.500	210	1	15.155	1.510	240
1	13.388	1.580	225	1	14.168	1.520	225	1	15.160	1.530	270
1	13.390	1.580	240	1	14.170	1.530	240	1	15.165	1.540	300
1	13.395	1.600	270	1	14.175	1.540	270	1	15.170	1.550	330
1	13.400	1.610	300	1	14.180	1.550	300	1	15.175	1.560	360
1	13.405	1.620	330	1	14.185	1.560	330	1	15.180	1.570	390
1	13.410	1.630	360	1	14.190	1.570	360	1	15.185	1.570	420
1	13.420	1.640	420	1	14.195	1.580	390	1	15.190	1.580	450
1	13.430	1.650	480	1	14.200	1.590	420	1	15.195	1.590	480
25% water loss (75% full)			1.320m	**25% water loss (75% full)**			1.095m	**25% water loss (75% full)**			1.095m
50% water loss (50% full)			1.480m	**50% water loss (50% full)**			1.330m	**50% water loss (50% full)**			1.330m
75% water loss (25% full)			1.640m	**75% water loss (25% full)**			1.565m	**75% water loss (25% full)**			1.565m
25% time (seconds)			29 sec	**25% time (seconds)**			24 sec	**25% time (seconds)**			40 sec
75% time (seconds)			420 sec	**75% time (seconds)**			345 sec	**75% time (seconds)**			375 sec
Vp 75-25			0.177m³	**Vp 75-25**			0.259m³	**Vp 75-25**			0.259m³
ap 50 (Actual area from test)			3.824m³	**ap 50 (Actual area from test)**			4.754m³	**ap 50 (Actual area from test)**			4.754m³
tp 75 - 25			391 sec	**tp 75 - 25**			321 sec	**tp 75 - 25**			335 sec
Soil Infiltration Rate		**1.18E-04m/s**		**Soil Infiltration Rate**		**1.70E-04m/s**		**Soil Infiltration Rate**		**1.63E-04m/s**	



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	SIGN	CA
	DATE	02/03/2022

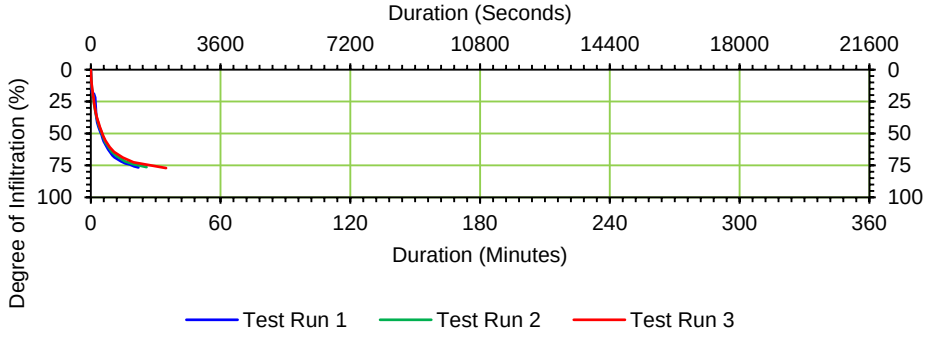
1 DAY INFILTRATION ASSESSMENT - WORKSHEET

Site: Bicester Heritage
Client: IKS Consulting on behalf of Bicester Motion
Test Location TP106(2) **Date of start** 18/02/2022 **Date at end** 18/02/2022

Test Run 1		Test Run 2		Test Run 3	
Pit Dimensions (m)		**Pit Dimensions (m)**		**Pit Dimensions (m)**	
Trial Pit Length (L)	1.800m	Trial Pit Length (L)	1.800m	Trial Pit Length (L)	1.800m
Trial Pit Breadth / Width (B)	0.600m	Trial Pit Breadth / Width (B)	0.600m	Trial Pit Breadth / Width (B)	0.600m
Effective Depth (D)	1.800m	Effective Depth (D)	1.800m	Effective Depth (D)	1.800m
Time at Start of Filling	9.18	Time at Start of Filling	9.58	Time at Start of Filling	10.30
Time at End of Filling	9.28	Time at End of Filling	10.04	Time at End of Filling	10.36
Depth from Surface to Water (D_{TW})	0.520m	Depth below Surface to Water (D_{TW})	0.450m	Depth below Surface to Water (D_{TW})	0.450m
Water Depth (W_D)	1.280m	Water Depth (W_D)	1.350m	Water Depth (W_D)	1.350m
Maximum Fill Volume (V_W)	1.382m³	Maximum Fill Volume (V_W)	1.458m³	Maximum Fill Volume (V_W)	1.458m³
Gravel used to backfill Test Pit	Yes	Gravel used to backfill Test Pit	Yes	Gravel used to backfill Test Pit	Yes
Porosity of Gravel Backfill (P_t)	0.300	Porosity of Gravel Backfill (P_t)	0.300	Porosity of Gravel Backfill (P_t)	0.300
Corrected Water Volume (V_{WC})	0.415m³	Corrected Water Volume (V_{WC})	0.437m³	Corrected Water Volume (V_{WC})	0.437m³

Time to soakaway				Time to soakaway				Time to soakaway			
Time		Depth to water	Duration	Time		Depth to water	Duration	Time		Depth to water	Duration
Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds
1	9.280	0.520	0	1	10.043	0.450	0	1	10.363	0.450	0
1	9.283	0.680	15	1	10.045	0.560	15	1	10.365	0.560	15
1	9.285	0.750	30	1	10.048	0.650	30	1	10.368	0.630	30
1	9.288	0.760	45	1	10.050	0.680	45	1	10.370	0.670	45
1	9.294	0.760	85	1	10.053	0.720	60	1	10.373	0.720	60
1	9.300	0.800	120	1	10.055	0.750	75	1	10.375	0.750	75
1	9.305	0.990	150	1	10.058	0.810	90	1	10.378	0.800	90
1	9.308	1.020	165	1	10.060	0.840	105	1	10.385	0.900	135
1	9.310	1.050	180	1	10.065	0.910	135	1	10.390	0.950	165
1	9.315	1.090	210	1	10.070	0.960	165	1	10.395	0.990	195
1	9.320	1.120	240	1	10.075	1.000	195	1	10.400	1.020	225
1	9.325	1.150	270	1	10.080	1.040	225	1	10.405	1.060	255
1	9.330	1.170	300	1	10.085	1.070	255	1	10.410	1.090	285
1	9.335	1.210	330	1	10.090	1.100	285	1	10.420	1.150	345
1	9.340	1.240	360	1	10.100	1.160	345	1	10.430	1.200	405
1	9.360	1.320	480	1	10.110	1.220	405	1	10.450	1.270	525
1	9.380	1.380	600	1	10.120	1.250	465	1	10.470	1.320	645
1	9.390	1.400	660	1	10.140	1.320	585	1	10.510	1.380	885
1	9.420	1.440	840	1	10.160	1.360	705	1	10.530	1.400	1005
1	9.440	1.460	960	1	10.200	1.420	945	1	10.560	1.430	1185
1	9.460	1.470	1080	1	10.240	1.450	1185	1	11.010	1.450	1485
1	9.480	1.490	1200	1	10.280	1.470	1425	1	11.060	1.470	1785
1	9.500	1.500	1320	1	10.300	1.480	1545	1	11.110	1.490	2085

25% water loss (75% full)	0.840m	**25% water loss (75% full)**	0.788m	**25% water loss (75% full)**	0.788m
50% water loss (50% full)	1.160m	**50% water loss (50% full)**	1.125m	**50% water loss (50% full)**	1.125m
75% water loss (25% full)	1.480m	**75% water loss (25% full)**	1.463m	**75% water loss (25% full)**	1.463m
25% time (seconds)	126 sec	**25% time (seconds)**	84 sec	**25% time (seconds)**	86 sec
75% time (seconds)	1140 sec	**75% time (seconds)**	1335 sec	**75% time (seconds)**	1673 sec
Vp 75-25	0.207m³	**Vp 75-25**	0.219m³	**Vp 75-25**	0.219m³
ap 50 (Actual area from test)	4.152m³	**ap 50 (Actual area from test)**	4.320m³	**ap 50 (Actual area from test)**	4.320m³
tp 75 - 25	1014 sec	**tp 75 - 25**	1251 sec	**tp 75 - 25**	1586 sec
Soil Infiltration Rate	**4.93E-05m/s**	**Soil Infiltration Rate**	**4.05E-05m/s**	**Soil Infiltration Rate**	**3.19E-05m/s**



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	DATE	01/03/2022
Checked by	PRINT	CA
	SIGN	CA
	DATE	02/03/2022

1 DAY INFILTRATION ASSESSMENT - WORKSHEET

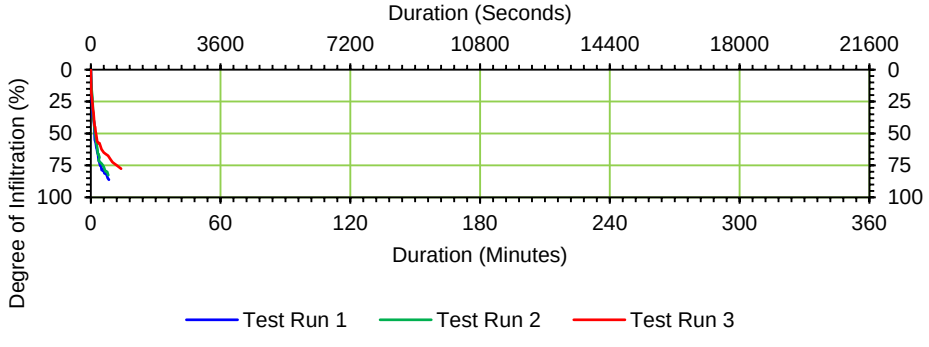
Site: Bicester Heritage
Client: IKS Consulting on behalf of Bicester Motion
Test Location TP110(2) **Date of start** 17/02/2022 **Date at end** 17/02/2022

Test Run 1		Test Run 2		Test Run 3	
Pit Dimensions (m)		**Pit Dimensions (m)**		**Pit Dimensions (m)**	
Trial Pit Length (L)	1.800m	Trial Pit Length (L)	1.800m	Trial Pit Length (L)	1.800m
Trial Pit Breadth / Width (B)	0.740m	Trial Pit Breadth / Width (B)	0.740m	Trial Pit Breadth / Width (B)	0.740m
Effective Depth (D)	1.300m	Effective Depth (D)	1.300m	Effective Depth (D)	1.300m
Time at Start of Filling	11.05	Time at Start of Filling	12.12	Time at Start of Filling	12.32
Time at End of Filling	11.10	Time at End of Filling	12.17	Time at End of Filling	12.49
Depth from Surface to Water (D_{TW})	0.500m	Depth below Surface to Water (D_{TW})	0.500m	Depth below Surface to Water (D_{TW})	0.500m
Water Depth (W_D)	0.800m	Water Depth (W_D)	0.800m	Water Depth (W_D)	0.800m
Maximum Fill Volume (V_W)	1.066m³	Maximum Fill Volume (V_W)	1.066m³	Maximum Fill Volume (V_W)	1.066m³
Gravel used to backfill Test Pit	Yes	Gravel used to backfill Test Pit	Yes	Gravel used to backfill Test Pit	Yes
Porosity of Gravel Backfill (P_t)	0.300	Porosity of Gravel Backfill (P_t)	0.300	Porosity of Gravel Backfill (P_t)	0.300
Corrected Water Volume (V_{WC})	0.320m³	Corrected Water Volume (V_{WC})	0.320m³	Corrected Water Volume (V_{WC})	0.320m³

Time to soakaway

Time		Depth to water	Duration	Time		Depth to water	Duration	Time		Depth to water	Duration
Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds	Day	Time	(m bgl)	Seconds
1	11.097	0.500	0	1	12.170	0.500	0	1	12.490	0.500	0
1	11.102	0.700	30	1	12.173	0.610	17	1	12.493	0.640	15
1	11.107	0.800	60	1	12.178	0.680	47	1	12.498	0.710	45
1	11.109	0.810	75	1	12.180	0.760	62	1	12.500	0.750	60
1	11.113	0.840	95	1	12.183	0.810	77	1	12.503	0.770	75
1	11.115	0.940	110	1	12.185	0.830	92	1	12.505	0.810	90
1	11.120	0.960	140	1	12.188	0.880	107	1	12.508	0.850	105
1	11.123	0.990	155	1	12.190	0.900	122	1	12.510	0.860	120
1	11.125	1.000	170	1	12.193	0.930	137	1	12.513	0.890	135
1	11.128	1.020	185	1	12.195	0.960	152	1	12.515	0.910	150
1	11.130	1.030	200	1	12.198	0.970	167	1	12.518	0.930	165
1	11.133	1.060	215	1	12.200	1.000	182	1	12.520	0.950	180
1	11.140	1.100	260	1	12.203	1.030	197	1	12.525	0.960	210
1	11.143	1.100	275	1	12.205	1.030	212	1	12.530	0.960	240
1	11.145	1.110	290	1	12.210	1.050	242	1	12.540	1.000	300
1	11.148	1.130	305	1	12.205	1.070	212	1	12.550	1.020	360
1	11.150	1.130	320	1	12.220	1.090	302	1	12.560	1.030	420
1	11.155	1.130	350	1	12.225	1.100	332	1	12.570	1.040	480
1	11.160	1.150	380	1	12.230	1.110	362	1	12.580	1.060	540
1	11.165	1.150	410	1	12.235	1.130	392	1	12.590	1.080	600
1	11.170	1.160	440	1	12.240	1.140	422	1	13.000	1.090	660
1	11.175	1.180	470	1	12.245	1.140	452	1	13.010	1.100	720
1	11.180	1.190	500	1	12.250	1.160	482	1	13.030	1.120	840

25% water loss (75% full)	0.700m	**25% water loss (75% full)**	0.700m	**25% water loss (75% full)**	0.700m
50% water loss (50% full)	0.900m	**50% water loss (50% full)**	0.900m	**50% water loss (50% full)**	0.900m
75% water loss (25% full)	1.100m	**75% water loss (25% full)**	1.100m	**75% water loss (25% full)**	1.100m
25% time (seconds)	40 sec	**25% time (seconds)**	51 sec	**25% time (seconds)**	41 sec
75% time (seconds)	275 sec	**75% time (seconds)**	332 sec	**75% time (seconds)**	720 sec
Vp 75-25	0.160m³	**Vp 75-25**	0.160m³	**Vp 75-25**	0.160m³
ap 50 (Actual area from test)	3.364m³	**ap 50 (Actual area from test)**	3.364m³	**ap 50 (Actual area from test)**	3.364m³
tp 75 - 25	235 sec	**tp 75 - 25**	281 sec	**tp 75 - 25**	679 sec
Soil Infiltration Rate	**2.02E-04m/s**	**Soil Infiltration Rate**	**1.69E-04m/s**	**Soil Infiltration Rate**	**6.99E-05m/s**



Form completed by		
Tested By	PRINT	HT
	SIGN	HT
	DATE	17/02/2022
Calculated By	PRINT	HT
	SIGN	HT
	DATE	28/02/2022
Checked by	PRINT	CA
	SIGN	CA
	DATE	02/03/2022

Ground Gas Risk Assessment

Hydrock

Job Number 22457 Data All Data
Job Name Bicester Heritage
Client IKS Consulting on behalf of Bicester Motion

Max CH4	Max C02	Worst Case Flow	Worst Case GSV Methane	Worst Case GSV CO_2
0.1	2.0	0.2	0.0002	0.0040

Number of Readings	18
Number of Monitoring Rounds	6
Number of Readings with Flow Rate	18

NHBC Assessment

	Methane		Carbon Dioxide	
	Max Value	GSV	Max Value	GSV
Green	10	10	10	10
Amber 1	0	0	0	0
Amber 2	0	0	0	0
Red	0	0	0	0

CIRIA C665 Assessment

	Methane		Carbon Dioxide	
	Max Value	GSV	Max Value	GSV
CS1	10	10	10	10
CS2	0	0	0	0
CS3	N/A	0	N/A	0
CS4	N/A	0	N/A	0
CS5	N/A	0	N/A	0
CS6	N/A	0	N/A	0

Location	Pressure Trend	Date	Relative Pressure (mb)	Flow Rate (l/hr)	Atmos. Pressure (m.bar)	CH_4 (% vol)		(%LEL)		CO_2 (% vol)		O_2 (% vol)		GSV – CH4	GSV – CO_2
						Initial	Steady	Initial	Steady	Initial	Steady	Initial	Steady		
RO101	Rising	17/03/2022	0.11	0.1	1024	0.1	0.1	2.0	2.0	1.1	1.1	20.1	20.1	0.0001	0.0011
RO101	Rising	21/03/2022	0.04	0.1	1019	0.1	0.1	2.0	2.0	1.5	1.5	16.9	16.9	0.0001	0.0015
RO101	Falling	28/03/2022	0.02	0.2	1015	0.1	0.1	2.0	2.0	1.4	1.4	17.0	17.0	0.0002	0.0028
RO101	Rising	11/04/2022	0.18	0.1	1000	0.1	0.1	2.0	2.0	1.6	1.5	18.8	18.8	0.0001	0.0015
RO101	Rising	04/05/2022	-0.02	0.0	1010	0.1	0.1	2.0	2.0	1.7	1.7	19.7	19.7	0.0000	0.0000
RO101	Steady	11/05/2022	-0.05	0.0	1000	0.2	0.1	2.0	2.0	1.9	1.9	20.0	20.0	0.0000	0.0000
RO102	Rising	17/03/2022	0.11	0.2	1023	0.1	0.1	2.0	2.0	1.5	1.5	15.9	15.9	0.0002	0.0030
RO102	Rising	21/03/2022	-0.04	0.1	1019	0.1	0.1	2.0	2.0	1.4	1.4	17.4	17.4	0.0001	0.0014
RO102	Falling	28/03/2022	-0.44	0.2	1015	0.1	0.1	2.0	2.0	1.8	1.8	17.9	17.9	0.0002	0.0036
RO102	Rising	11/04/2022	0.07	0.2	1000	0.1	0.1	2.0	2.0	1.9	1.9	18.3	18.3	0.0002	0.0038
RO102	Rising	04/05/2022	0.02	0.0	1010	0.1	0.1	2.0	2.0	2.0	2.0	19.9	19.9	0.0000	0.0000
RO102	Steady	11/05/2022	0.02	0.0	1000	0.1	0.1	2.0	2.0	2.0	2.0	19.9	19.9	0.0000	0.0000
RO103	Rising	17/03/2022	0.12	0.1	1024	0.1	0.1	2.0	2.0	1.2	1.2	17.7	17.7	0.0001	0.0012
RO103	Rising	21/03/2022	-0.04	0.1	1019	0.1	0.1	2.0	2.0	1.6	1.6	17.3	17.3	0.0001	0.0016
RO103	Falling	28/03/2022	0.04	0.2	1015	0.1	0.1	2.0	2.0	1.5	1.5	18.4	18.4	0.0002	0.0030
RO103	Rising	11/04/2022	-0.02	0.2	1000	0.1	0.1	2.0	2.0	1.4	1.4	19.4	19.7	0.0002	0.0028
RO103	Rising	04/05/2022	-0.07	0.0	1010	0.1	0.1	2.0	2.0	1.6	1.6	19.9	19.9	0.0000	0.0000
RO103	Steady	11/05/2022	-0.11	0.2	1000	0.1	0.1	2.0	2.0	1.9	1.9	20.0	20.0	0.0002	0.0038

Appendix H Contamination Test Results and Statistical Analysis

Jamie Moore
Hydrock Consultants Ltd
2-4 Hawthorne Park
Holdenby Road
Spratton
Northamptonshire
NN6 8LD

t: 01604842888
f: 01604842666
e: jamiemoore@hydrock.com

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 22-42786

Project / Site name:	Bicester	**Samples received on:**	21/02/2022
Your job number:	22457	**Samples instructed on/ Analysis started on:**	02/03/2022
Your order number:	PO14591	**Analysis completed by:**	09/03/2022
Report Issue Number:	1	**Report issued on:**	09/03/2022
Samples Analysed:	4 soil samples		

Signed: [redacted]

Izabela Wójcik
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-42786
Project / Site name: Bicester

Lab Sample Number				2190295	2190296	2190297	2190298
Sample Reference				TP13	TP14	TP15	TP17
Sample Number				2	2	1	1
Depth (m)				0.30	0.50	0.10	0.70
Date Sampled				18/02/2022	18/02/2022	18/02/2022	18/02/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Stone Content	%	0.1	NONE	< 0.1	< 0.1	30	< 0.1
Moisture Content	%	0.01	NONE	14	17	13	11
Total mass of sample received	kg	0.001	NONE	0.80	0.80	0.80	0.80

Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	LFT	LFT	LFT	LFT

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.1	8.1	8.2	8.3
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0097	0.0076	0.012	0.050
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.014	0.0098	0.018	0.011

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.29
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.24
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	3.2	2.8
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.67	0.75
Fluoranthene	mg/kg	0.05	MCERTS	0.46	< 0.05	4.2	4.9
Pyrene	mg/kg	0.05	MCERTS	0.40	< 0.05	3.6	4.1
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.27	< 0.05	2.0	2.2
Chrysene	mg/kg	0.05	MCERTS	0.22	< 0.05	1.9	1.9
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.26	< 0.05	2.1	2.2
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.24	< 0.05	1.1	0.96
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.28	< 0.05	2.3	2.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.2	1.1
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.32	0.28
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.4	1.3

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	2.13	< 0.80	24.0	25.1

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	23	24	22	23
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.1	1.3	0.70	0.89
Boron (water soluble)	mg/kg	0.2	MCERTS	0.4	0.6	0.6	0.4
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	28	33	16	22
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	33	16	22
Copper (aqua regia extractable)	mg/kg	1	MCERTS	14	13	15	14
Lead (aqua regia extractable)	mg/kg	1	MCERTS	28	18	28	32
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	24	26	20	22
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	69	83	39	56
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	62	47	60	59

Analytical Report Number: 22-42786
Project / Site name: Bicester

Lab Sample Number				2190295	2190296	2190297	2190298
Sample Reference				TP13	TP14	TP15	TP17
Sample Number				2	2	1	1
Depth (m)				0.30	0.50	0.10	0.70
Date Sampled				18/02/2022	18/02/2022	18/02/2022	18/02/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Monoaromatics & Oxygenates							
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons							
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH\_CU\_1D\_AL}$	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	< 10	17	19
TPH-CWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	< 10	33	32
TPH-CWG - Aromatic > EC35 - EC44 $_{EH\_CU\_1D\_AR}$	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35) $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	MCERTS	< 10	< 10	50	52
TPH-CWG - Aromatic (EC5 - EC44) $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10	< 10	50	52
TPH Total C5 - C44 $_{EH\_CU+HS\_1D\_TOTAL}$	mg/kg	10	NONE	< 10	< 10	50	52
VOCs							
Chloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0

Analytical Report Number: 22-42786
Project / Site name: Bicester

Lab Sample Number				2190295	2190296	2190297	2190298
Sample Reference				TP13	TP14	TP15	TP17
Sample Number				2	2	1	1
Depth (m)				0.30	0.50	0.10	0.70
Date Sampled				18/02/2022	18/02/2022	18/02/2022	18/02/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Tetrachloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	ISO 17025	< 1.0	< 1.0	< 1.0	< 1.0

SVOCs

Aniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
1,3-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
1,2-Dichlorobenzene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
1,4-Dichlorobenzene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Bis(2-chloroisopropyl)ether	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
2-Methylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Hexachloroethane	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Nitrobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
4-Methylphenol	mg/kg	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2

Analytical Report Number: 22-42786
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Lab Sample Number				2190295	2190296	2190297	2190298
Sample Reference				TP13	TP14	TP15	TP17
Sample Number				2	2	1	1
Depth (m)				0.30	0.50	0.10	0.70
Date Sampled				18/02/2022	18/02/2022	18/02/2022	18/02/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**				
Isophorone	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
2-Nitrophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
2,4-Dimethylphenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Bis(2-chloroethoxy)methane	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
1,2,4-Trichlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
2,4-Dichlorophenol	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
2-Methylnaphthalene	mg/kg	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1
2-Chloronaphthalene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.29
2,4-Dinitrotoluene	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Dibenzofuran	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
4-Chlorophenyl phenyl ether	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	0.24
Azobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Hexachlorobenzene	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	3.2	2.8
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.67	0.75
Carbazole	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2
Anthraquinone	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	MCERTS	0.46	< 0.05	4.2	4.9
Pyrene	mg/kg	0.05	MCERTS	0.40	< 0.05	3.6	4.1
Butyl benzyl phthalate	mg/kg	0.3	ISO 17025	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	MCERTS	0.27	< 0.05	2.0	2.2
Chrysene	mg/kg	0.05	MCERTS	0.22	< 0.05	1.9	1.9
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	0.26	< 0.05	2.1	2.2
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	0.24	< 0.05	1.1	0.96
Benzo(a)pyrene	mg/kg	0.05	MCERTS	0.28	< 0.05	2.3	2.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.2	1.1
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	0.32	0.28
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	1.4	1.3

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 22-42786
Project / Site name: Bicester

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2190295	TP13	2	0.3	Brown clay and sand with gravel.
2190296	TP14	2	0.5	Brown clay and sand with gravel.
2190297	TP15	1	0.1	Brown loam with stones.
2190298	TP17	1	0.7	Brown loam with gravel and vegetation.

Analytical Report Number : 22-42786
Project / Site name: Bicester

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Semi-volatile organic compounds in soil	Determination of semi-volatile organic compounds in soil by extraction in dichloromethane and hexane followed by GC-MS.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
Volatile organic compounds in soil	Determination of volatile organic compounds in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS

Analytical Report Number : 22-42786
Project / Site name: Bicester

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	NONE
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method	L009	D	MCERTS

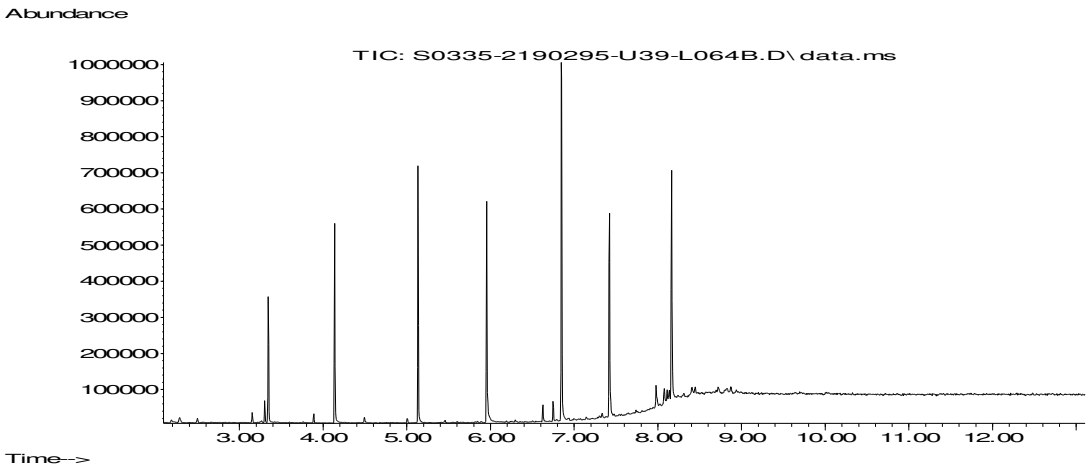
For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total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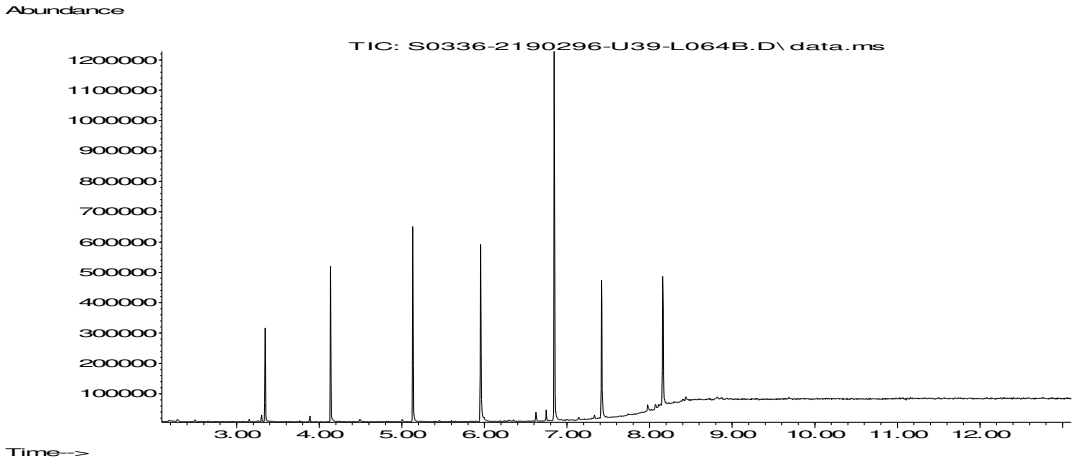
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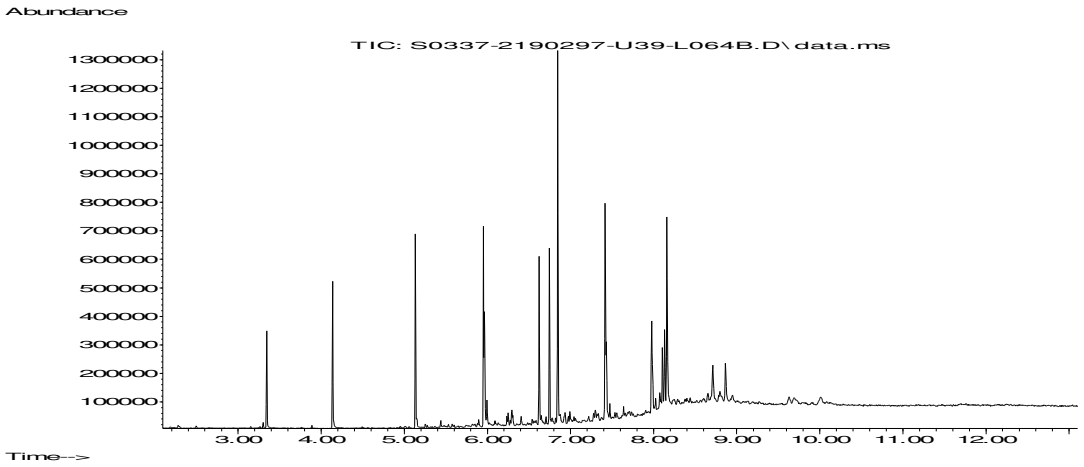
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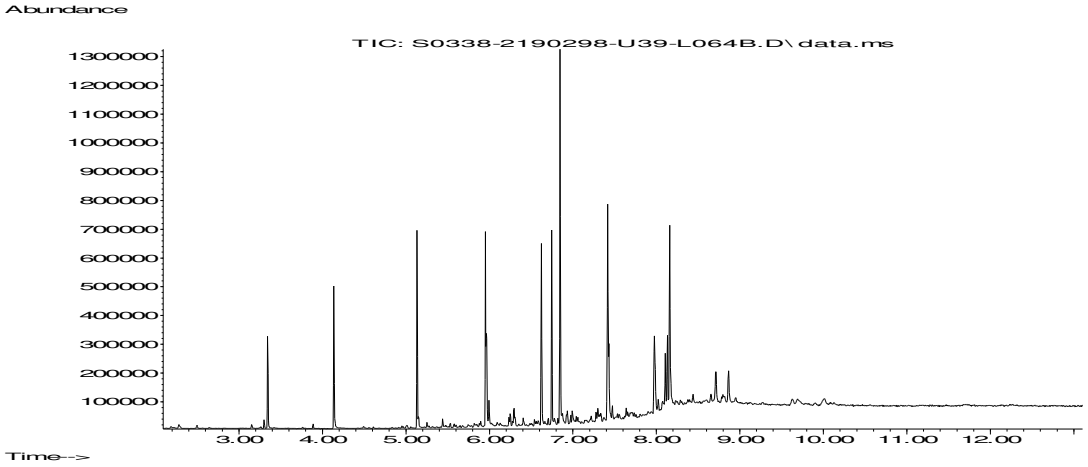
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Sample Deviation Report

Analytical Report Number : 22-42786
Project / Site name: Bicester

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP13	2	S	2190295	c	Free cyanide in soil	L080-PL	c
TP14	2	S	2190296	c	Free cyanide in soil	L080-PL	c
TP15	1	S	2190297	c	Free cyanide in soil	L080-PL	c
TP17	1	S	2190298	c	Free cyanide in soil	L080-PL	c

Key: **a** - No sampling date **b** - Incorrect container
c - Holding time **d** - Headspace **e** - Temperature

Jamie Moore
Hydrock Consultants Ltd
2-4 Hawthorne Park
Holdenby Road
Spratton
Northamptonshire
NN6 8LD

t: 01604842888
f: 01604842666
e: jamiemoore@hydrock.com

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 22-44538

Project / Site name:	Bicester Motion	**Samples received on:**	09/03/2022
Your job number:	22457	**Samples instructed on/ Analysis started on:**	09/03/2022
Your order number:	PO14560	**Analysis completed by:**	16/03/2022
Report Issue Number:	1	**Report issued on:**	16/03/2022
Samples Analysed:	9 soil samples		

Signed:

Adam Fenwick
Technical Reviewer
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-44538
Project / Site name: Bicester Motion
Your Order No: PO14560

Lab Sample Number				2199699	2199700	2199701	2199702	2199703	2199704
Sample Reference				RO102	RO103	TP101	TP102	TP104	TP106
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.20	0.30	0.15	0.30	0.20
Date Sampled				14/02/2022	14/02/2022	15/02/2022	17/02/2022	17/02/2022	17/02/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**						
Stone Content	%	0.1	NONE	37	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	0.01	NONE	11	15	13	14	14	15
Total mass of sample received	kg	0.001	NONE	1.5	1.5	1.5	1.5	1.5	1.5
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SFS	SFS	SFS	SFS	SFS	SFS

General Inorganics

pH - Automated	pH Units	N/A	MCERTS	8.9	8.2	8.3	8.2	8.2	8.2
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.11	0.015	0.0054	0.03	0.0085	0.023
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.02	0.03	0.0072	0.017	0.02	0.018

Total Phenols

Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.57	< 0.05	< 0.05	0.24	1.3
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.34
Fluoranthene	mg/kg	0.05	MCERTS	< 0.05	1.5	< 0.05	< 0.05	0.67	2
Pyrene	mg/kg	0.05	MCERTS	< 0.05	1.5	< 0.05	< 0.05	0.62	2.1
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	1.2	< 0.05	< 0.05	0.4	1.1
Chrysene	mg/kg	0.05	MCERTS	< 0.05	1.1	< 0.05	< 0.05	0.34	1.1
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	2.2	< 0.05	< 0.05	0.47	2
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.73	< 0.05	< 0.05	0.23	0.72
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	2.4	< 0.05	< 0.05	0.43	1.9
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	1.4	< 0.05	< 0.05	0.25	1.1
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.35	< 0.05	< 0.05	< 0.05	0.27
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	1.7	< 0.05	< 0.05	0.28	1.4

Total PAH

Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	14.7	< 0.80	< 0.80	3.93	15.4

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	19	17	19	21	24	25
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	0.95	1.4	0.84	1.0	1.2	1.4
Boron (water soluble)	mg/kg	0.2	MCERTS	1.1	1.8	0.3	0.5	0.7	1.1
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	1.4	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	22	18	21	26	30	31
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	23	18	22	26	30	31
Copper (aqua regia extractable)	mg/kg	1	MCERTS	18	32	10	15	13	36
Lead (aqua regia extractable)	mg/kg	1	MCERTS	41	41	13	23	27	48
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	23	24	19	21	24	29
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	53	50	53	63	73	73
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	62	42	29	42	46	67

Monoaromatics & Oxygenates

Analytical Report Number: 22-44538
Project / Site name: Bicester Motion
Your Order No: PO14560

Lab Sample Number				2199699	2199700	2199701	2199702	2199703	2199704
Sample Reference				RO102	RO103	TP101	TP102	TP104	TP106
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.20	0.20	0.30	0.15	0.30	0.20
Date Sampled				14/02/2022	14/02/2022	15/02/2022	17/02/2022	17/02/2022	17/02/2022
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**						
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Petroleum Hydrocarbons									
TPH-CWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH\_CU\_1D\_AL}$	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10	< 10	< 10	< 10	< 10	< 10
TPH-CWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10	11
TPH-CWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	12	< 10	< 10	< 10	11
TPH-CWG - Aromatic > EC35 - EC44 $_{EH\_CU\_1D\_AR}$	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35) $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	MCERTS	< 10	21	< 10	< 10	< 10	22
TPH-CWG - Aromatic (EC5 - EC44) $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10	21	< 10	< 10	< 10	22
TPH Total C5 - C44 $_{EH\_CU+HS\_1D\_TOTAL}$	mg/kg	10	NONE	< 10	21	< 10	< 10	< 10	22

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number: 22-44538
Project / Site name: Bicester Motion
Your Order No: PO14560

Lab Sample Number				2199705	2199706	2199707
Sample Reference				TP108	TP112	TP114
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.10	0.10
Date Sampled				15/02/2022	15/02/2022	18/02/2022
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Stone Content	%	0.1	NONE	< 0.1	36	46
Moisture Content	%	0.01	NONE	17	14	14
Total mass of sample received	kg	0.001	NONE	1.5	1.5	1.5
Asbestos in Soil	Type	N/A	ISO 17025	Not-detected	Not-detected	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	SFS	SFS	SFS
General Inorganics						
pH - Automated	pH Units	N/A	MCERTS	8.2	8	8.1
Free Cyanide	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Water Soluble SO4 16hr extraction (2:1 Leachate Equivalent)	g/l	0.00125	MCERTS	0.0087	0.024	0.022
Fraction Organic Carbon (FOC) Automated	N/A	0.001	MCERTS	0.027	0.031	0.027
Total Phenols						
Total Phenols (monohydric)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Speciated PAHs						
Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Acenaphthene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Fluorene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Phenanthrene	mg/kg	0.05	MCERTS	< 0.05	0.45	1.1
Anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Fluoranthene	mg/kg	0.05	MCERTS	0.33	1.6	2.5
Pyrene	mg/kg	0.05	MCERTS	0.3	1.5	2.2
Benzo(a)anthracene	mg/kg	0.05	MCERTS	< 0.05	0.87	1.3
Chrysene	mg/kg	0.05	MCERTS	< 0.05	0.64	1.2
Benzo(b)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.98	1.7
Benzo(k)fluoranthene	mg/kg	0.05	MCERTS	< 0.05	0.49	0.78
Benzo(a)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.89	1.5
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	MCERTS	< 0.05	0.45	0.85
Dibenz(a,h)anthracene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.58	1.0
Total PAH						
Speciated Total EPA-16 PAHs	mg/kg	0.8	MCERTS	< 0.80	8.42	14.2
Heavy Metals / Metalloids						
Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	23	18	17
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.2	1.2	0.79
Boron (water soluble)	mg/kg	0.2	MCERTS	1.5	1.0	0.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	NONE	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	NONE	29	22	20
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	29	22	20
Copper (aqua regia extractable)	mg/kg	1	MCERTS	17	30	31
Lead (aqua regia extractable)	mg/kg	1	MCERTS	40	1400	85
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	MCERTS	25	23	18
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	73	55	48
Zinc (aqua regia extractable)	mg/kg	1	MCERTS	55	66	77
Monoaromatics & Oxygenates						

Analytical Report Number: 22-44538
Project / Site name: Bicester Motion
Your Order No: PO14560

Lab Sample Number				2199705	2199706	2199707
Sample Reference				TP108	TP112	TP114
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				0.25	0.10	0.10
Date Sampled				15/02/2022	15/02/2022	18/02/2022
Time Taken				None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH-CWG - Aliphatic >EC5 - EC6 $_{HS\_1D\_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC6 - EC8 $_{HS\_1D\_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC8 - EC10 $_{HS\_1D\_AL}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aliphatic >EC10 - EC12 $_{EH\_CU\_1D\_AL}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >EC12 - EC16 $_{EH\_CU\_1D\_AL}$	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aliphatic >EC16 - EC21 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC21 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0
TPH-CWG - Aliphatic >EC16 - EC35 $_{EH\_CU\_1D\_AL}$	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aliphatic > EC35 - EC44 $_{EH\_CU\_1D\_AL}$	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4
TPH-CWG - Aliphatic (EC5 - EC35) $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aliphatic (EC5 - EC44) $_{EH\_CU+HS\_1D\_AL}$	mg/kg	10	NONE	< 10	< 10	< 10

TPH-CWG - Aromatic >EC5 - EC7 $_{HS\_1D\_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC7 - EC8 $_{HS\_1D\_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC8 - EC10 $_{HS\_1D\_AR}$	mg/kg	0.001	MCERTS	< 0.001	< 0.001	< 0.001
TPH-CWG - Aromatic >EC10 - EC12 $_{EH\_CU\_1D\_AR}$	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >EC12 - EC16 $_{EH\_CU\_1D\_AR}$	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0
TPH-CWG - Aromatic >EC16 - EC21 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	< 10	< 10
TPH-CWG - Aromatic >EC21 - EC35 $_{EH\_CU\_1D\_AR}$	mg/kg	10	MCERTS	< 10	< 10	19
TPH-CWG - Aromatic > EC35 - EC44 $_{EH\_CU\_1D\_AR}$	mg/kg	8.4	NONE	< 8.4	< 8.4	< 8.4
TPH-CWG - Aromatic (EC5 - EC35) $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	MCERTS	< 10	11	26
TPH-CWG - Aromatic (EC5 - EC44) $_{EH\_CU+HS\_1D\_AR}$	mg/kg	10	NONE	< 10	11	26

TPH Total C5 - C44 $_{EH\_CU+HS\_1D\_TOTAL}$	mg/kg	10	NONE	< 10	11	26

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 22-44538
Project / Site name: Bicester Motion

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2199699	RO102	None Supplied	0.2	Brown loam and clay with gravel and vegetation.
2199700	RO103	None Supplied	0.2	Brown loam and clay with gravel and vegetation.
2199701	TP101	None Supplied	0.3	Brown clay and loam with gravel and vegetation.
2199702	TP102	None Supplied	0.15	Brown loam and clay with gravel and vegetation.
2199703	TP104	None Supplied	0.3	Brown clay and loam with gravel and vegetation.
2199704	TP106	None Supplied	0.2	Brown clay and loam with gravel and vegetation.
2199705	TP108	None Supplied	0.25	Brown loam and clay with gravel and vegetation.
2199706	TP112	None Supplied	0.1	Brown loam and clay with gravel and vegetation.
2199707	TP114	None Supplied	0.1	Brown loam and clay with gravel and vegetation.

Analytical Report Number : 22-44538
Project / Site name: Bicester Motion

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Sulphate, water soluble, in soil (16hr extraction)	Determination of water soluble sulphate by ICP-OES. Results reported directly (leachate equivalent) and corrected for extraction ratio (soil equivalent).	In house method.	L038-PL	D	MCERTS
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-PL	D	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
Hexavalent chromium in soil (Lower Level)	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	W	NONE
Free cyanide in soil	Determination of free cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	MCERTS
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Speciated EPA-16 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	MCERTS
pH in soil (automated)	Determination of pH in soil by addition of water followed by automated electrometric measurement.	In house method.	L099-PL	D	MCERTS
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
BTEX and MTBE in soil (Monoaromatics)	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	MCERTS
TPH Chromatogram in Soil	TPH Chromatogram in Soil.	In-house method	L064-PL	D	NONE
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
TPHCWG (Soil)	Determination of hexane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method with silica gel split/clean up.	L088/76-PL	W	MCERTS
TPH in (Soil)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding and silica gel split/cleanup.	L076-PL	D	MCERTS
Fraction Organic Carbon FOC Automated	Determination of fraction of organic carbon in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method	L009	D	MCERTS

Analytical Report Number : 22-44538
Project / Site name: Bicester Motion

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status

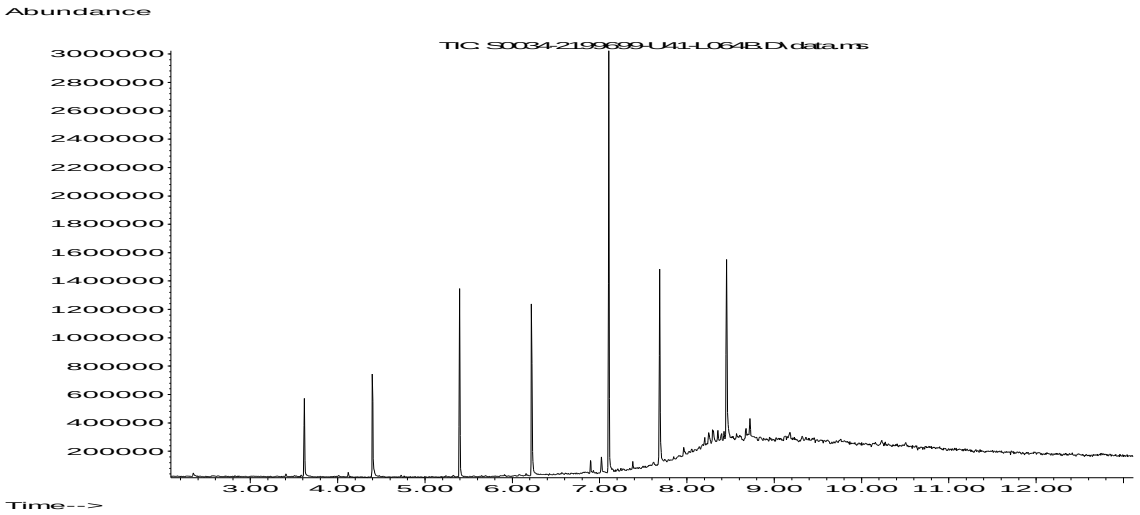
For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total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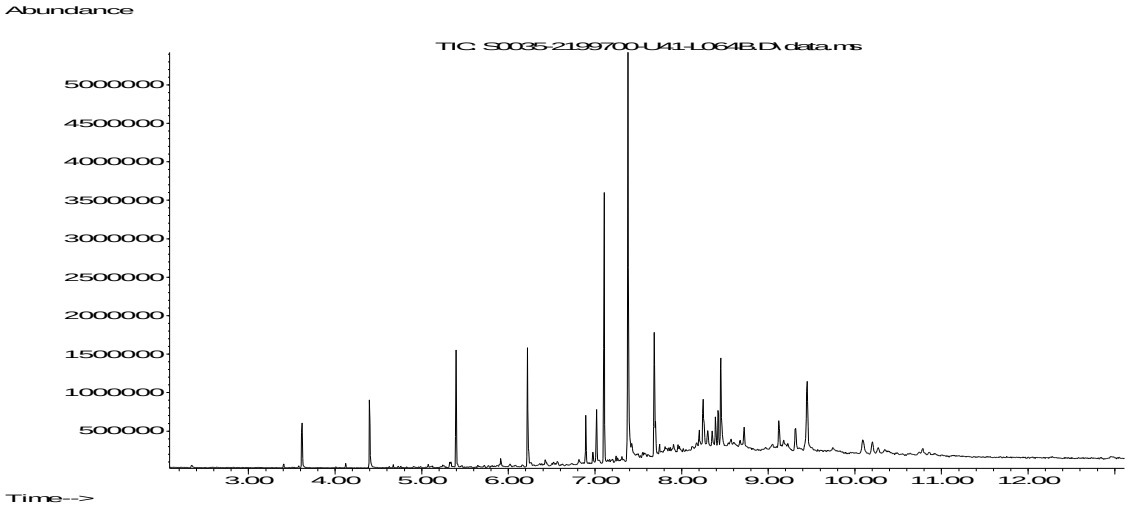
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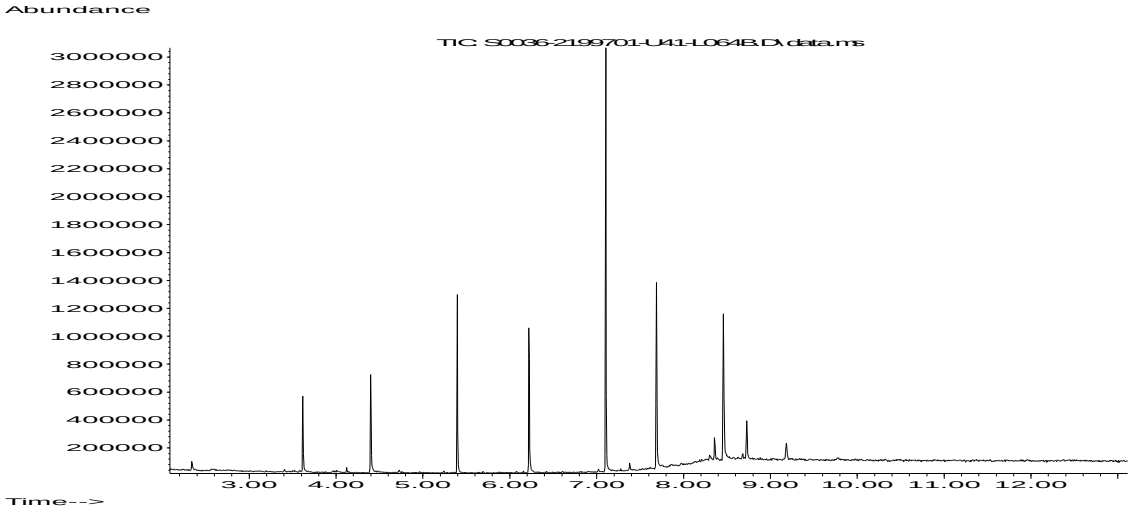
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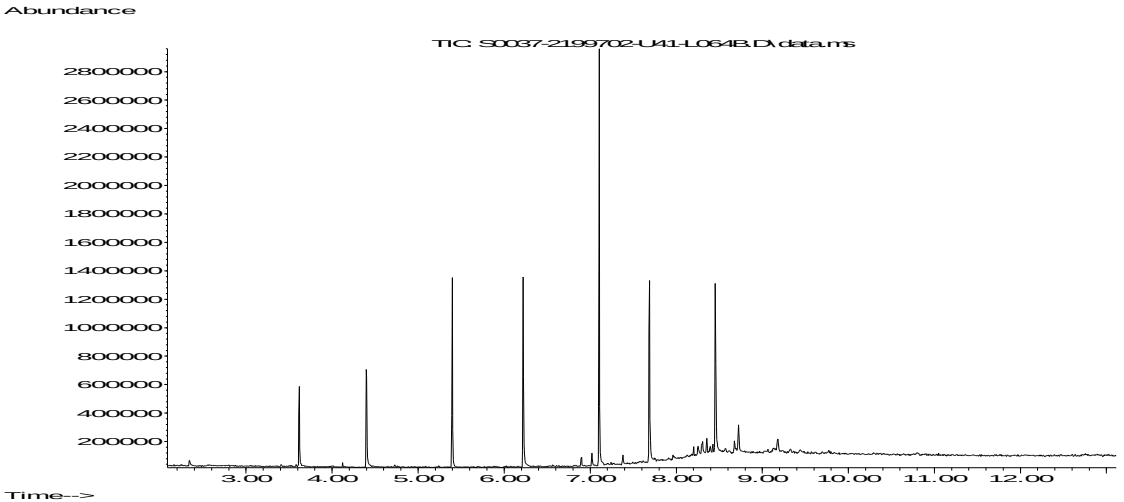
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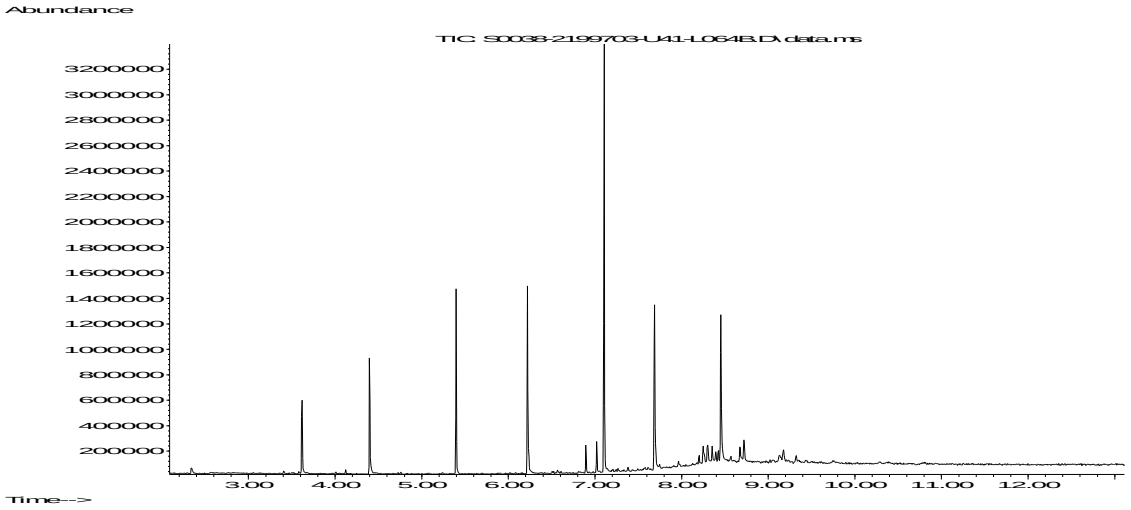
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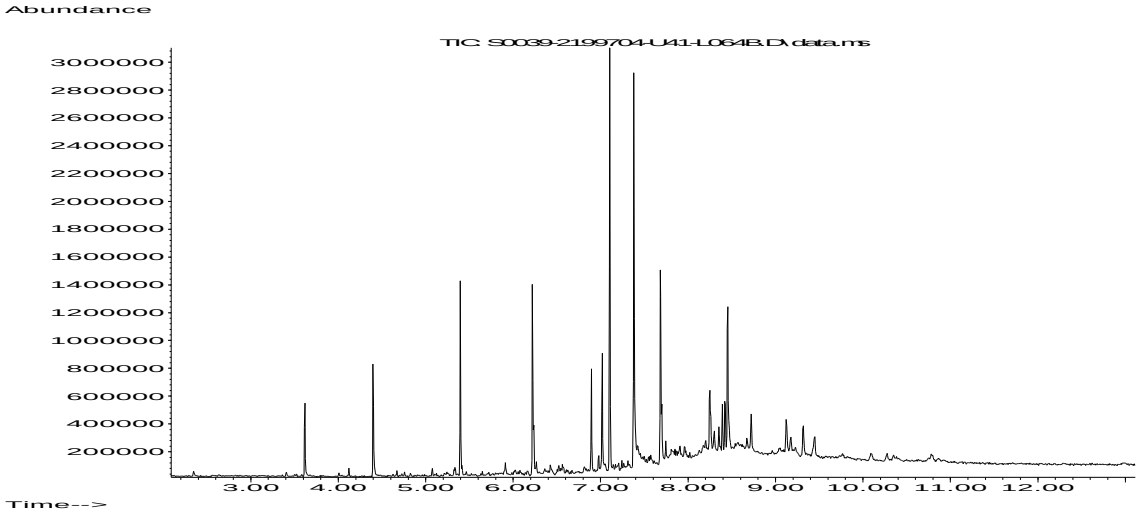
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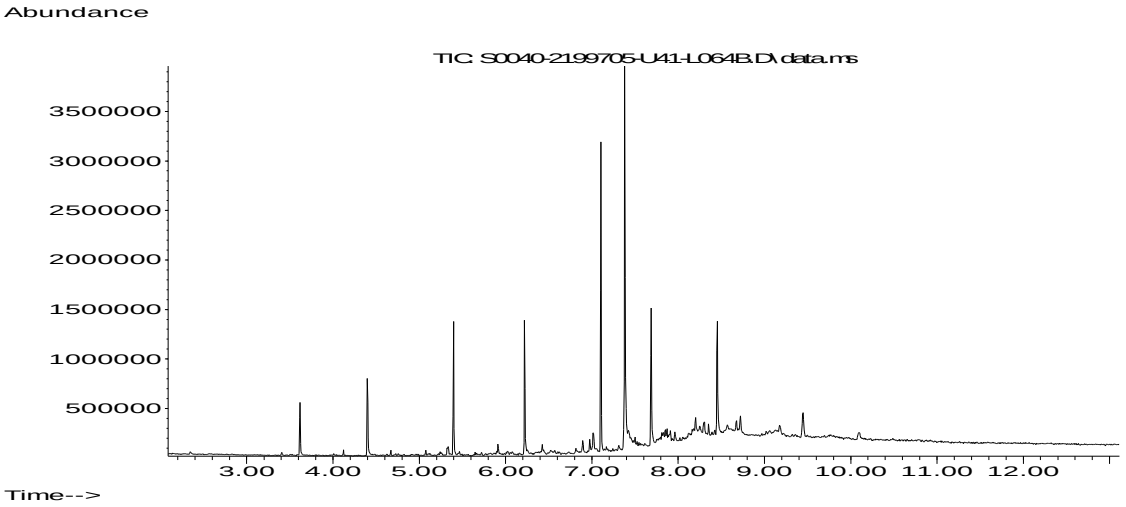
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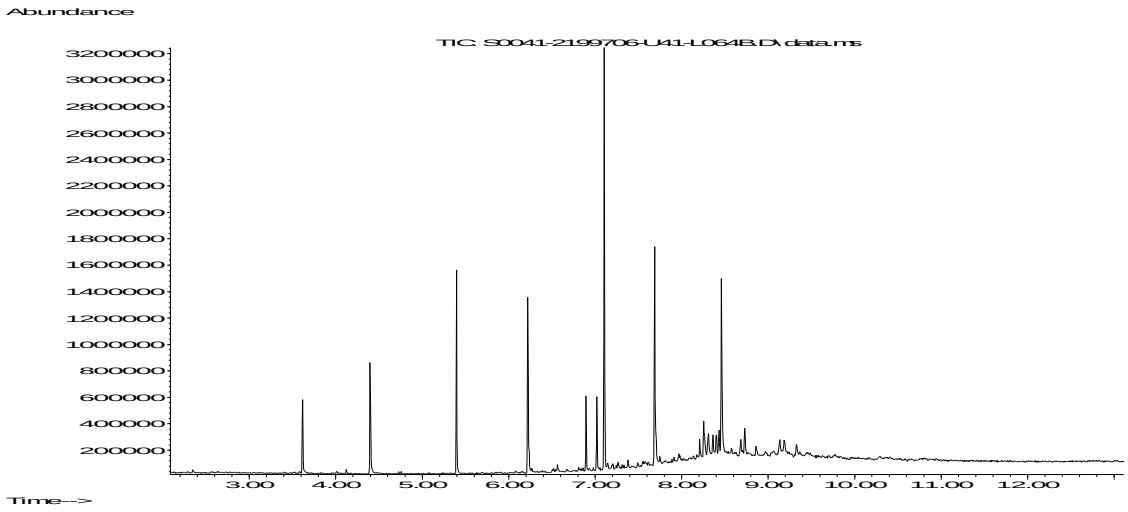
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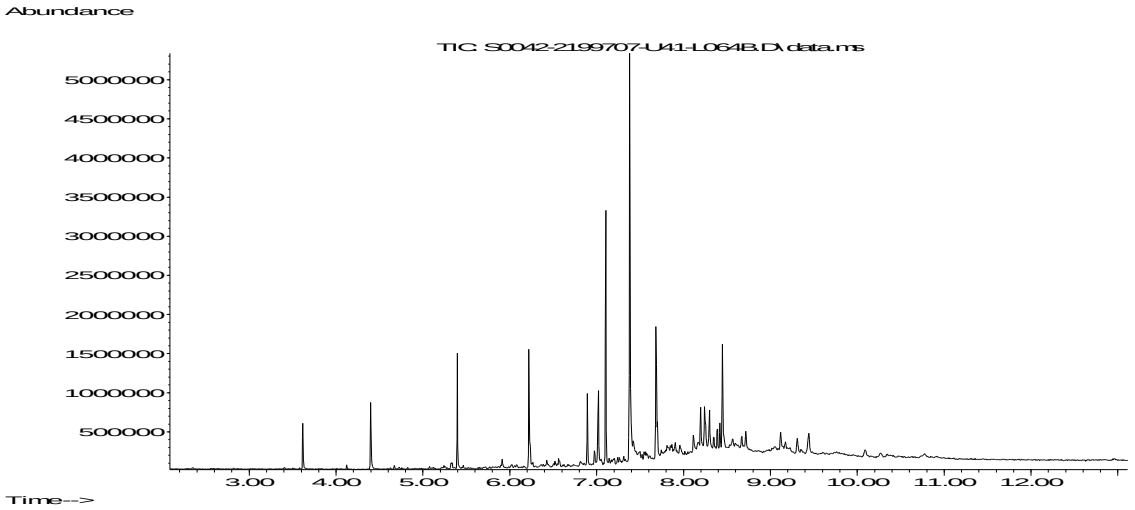
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Sample Deviation Report

Analytical Report Number : 22-44538
Project / Site name: Bicester Motion

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
RO102	None Supplied	S	2199699	c	Free cyanide in soil	L080-PL	c
RO102	None Supplied	S	2199699	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
RO102	None Supplied	S	2199699	c	Monohydric phenols in soil	L080-PL	c
RO102	None Supplied	S	2199699	c	Speciated EPA-16 PAHs in soil	L064-PL	c
RO102	None Supplied	S	2199699	c	TPH Chromatogram in Soil	L064-PL	c
RO102	None Supplied	S	2199699	c	TPH in (Soil)	L076-PL	c
RO102	None Supplied	S	2199699	c	TPHCWG (Soil)	L088/76-PL	c
RO103	None Supplied	S	2199700	c	Free cyanide in soil	L080-PL	c
RO103	None Supplied	S	2199700	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
RO103	None Supplied	S	2199700	c	Monohydric phenols in soil	L080-PL	c
RO103	None Supplied	S	2199700	c	Speciated EPA-16 PAHs in soil	L064-PL	c
RO103	None Supplied	S	2199700	c	TPH Chromatogram in Soil	L064-PL	c
RO103	None Supplied	S	2199700	c	TPH in (Soil)	L076-PL	c
RO103	None Supplied	S	2199700	c	TPHCWG (Soil)	L088/76-PL	c
TP101	None Supplied	S	2199701	c	Free cyanide in soil	L080-PL	c
TP101	None Supplied	S	2199701	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
TP101	None Supplied	S	2199701	c	Monohydric phenols in soil	L080-PL	c
TP101	None Supplied	S	2199701	c	Speciated EPA-16 PAHs in soil	L064-PL	c
TP101	None Supplied	S	2199701	c	TPH Chromatogram in Soil	L064-PL	c
TP101	None Supplied	S	2199701	c	TPH in (Soil)	L076-PL	c
TP101	None Supplied	S	2199701	c	TPHCWG (Soil)	L088/76-PL	c
TP102	None Supplied	S	2199702	c	Free cyanide in soil	L080-PL	c
TP102	None Supplied	S	2199702	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
TP102	None Supplied	S	2199702	c	TPH in (Soil)	L076-PL	c
TP104	None Supplied	S	2199703	c	Free cyanide in soil	L080-PL	c
TP104	None Supplied	S	2199703	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
TP104	None Supplied	S	2199703	c	TPH in (Soil)	L076-PL	c
TP106	None Supplied	S	2199704	c	Free cyanide in soil	L080-PL	c
TP106	None Supplied	S	2199704	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
TP106	None Supplied	S	2199704	c	TPH in (Soil)	L076-PL	c
TP108	None Supplied	S	2199705	c	Free cyanide in soil	L080-PL	c
TP108	None Supplied	S	2199705	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
TP108	None Supplied	S	2199705	c	Monohydric phenols in soil	L080-PL	c
TP108	None Supplied	S	2199705	c	Speciated EPA-16 PAHs in soil	L064-PL	c
TP108	None Supplied	S	2199705	c	TPH Chromatogram in Soil	L064-PL	c
TP108	None Supplied	S	2199705	c	TPH in (Soil)	L076-PL	c
TP108	None Supplied	S	2199705	c	TPHCWG (Soil)	L088/76-PL	c
TP112	None Supplied	S	2199706	c	Free cyanide in soil	L080-PL	c
TP112	None Supplied	S	2199706	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
TP112	None Supplied	S	2199706	c	Monohydric phenols in soil	L080-PL	c
TP112	None Supplied	S	2199706	c	Speciated EPA-16 PAHs in soil	L064-PL	c
TP112	None Supplied	S	2199706	c	TPH Chromatogram in Soil	L064-PL	c
TP112	None Supplied	S	2199706	c	TPH in (Soil)	L076-PL	c
TP112	None Supplied	S	2199706	c	TPHCWG (Soil)	L088/76-PL	c
TP114	None Supplied	S	2199707	c	Free cyanide in soil	L080-PL	c
TP114	None Supplied	S	2199707	c	BTEX and MTBE in soil (Monoaromatics)	L073B-PL	c
TP114	None Supplied	S	2199707	c	TPH in (Soil)	L076-PL	c

Jamie Moore
Hydrock Consultants Ltd
2-4 Hawthorne Park
Holdenby Road
Spratton
Northamptonshire
NN6 8LD

t: 01604842888
f: 01604842666
e: jamiemoore@hydrock.com

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 22-44542

Project / Site name:	Bicester Motion	**Samples received on:**	09/03/2022
Your job number:	22457	**Samples instructed on/ Analysis started on:**	09/03/2022
Your order number:	PO14560	**Analysis completed by:**	17/03/2022
Report Issue Number:	1	**Report issued on:**	17/03/2022
Samples Analysed:	2 wac multi samples		

[redacted]
Signed:

Anna Goc
Technical Reviewer (Reporting Team)
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting
asbestos - 6 months from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

i2 Analytical
7 Woodshots Meadow
Croxley Green Business Park
Watford, WD18 8YS

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results

Report No:	**22-44542**						
					Client:	**HYDROCK**	
Location	**Bicester Motion**						
Lab Reference (Sample Number)	2199736				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	17/02/2022				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TP106						
Depth (m)	0.20						
Solid Waste Analysis							
TOC (%)**	1.5				3%	5%	6%
Loss on Ignition (%) **	7.8				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.30				1	--	--
Mineral Oil (mg/kg) $_{EH\_1D\_CU\_AL}$ #	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	14.8				100	--	--
pH (units)**	7.9				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	3.9				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 3 preparation utilising end over end leaching procedure)	2:1 mg/l	8:1 mg/l		Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium *	0.018	0.015		0.16	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	0.0017	0.0020		0.020	0.5	10	70
Copper *	0.0041	0.0078		0.074	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	< 0.0030	0.0044		0.042	0.5	10	30
Nickel *	0.0052	0.0036		0.038	0.4	10	40
Lead *	< 0.0050	0.0063		0.060	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc *	0.0071	0.0102		0.098	4	50	200
Chloride *	< 4.0	< 4.0		24	800	15000	25000
Fluoride	0.35	0.46		4.5	10	150	500
Sulphate *	7.1	3.9		43	1000	20000	50000
TDS*	120	71		770	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
DOC	9.8	14		130	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.6						
Dry Matter (%)	85						
Moisture (%)	15						
Stage 1							
Volume Eluate L2 (litres)	0.32						
Filtered Eluate VE1 (litres)	0.20						

Results are expressed on a dry weight basis, after correction for moisture content where applicable.

*= UKAS accredited (liquid eluate analysis only)

Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation

** = MCERTS accredited

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

i2 Analytical
7 Woodshots Meadow
Croxley Green Business Park
Watford, WD18 8YS

Telephone: 01923 225404
Fax: 01923 237404
email:reception@i2analytical.com

Waste Acceptance Criteria Analytical Results

Report No:	**22-44542**						
					Client:	**HYDROCK**	
Location	**Bicester Motion**						
Lab Reference (Sample Number)	2199737				**Landfill Waste Acceptance Criteria Limits**		
Sampling Date	15/02/2022				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	TP108						
Depth (m)	0.25						
Solid Waste Analysis							
TOC (%)**	2.4				3%	5%	6%
Loss on Ignition (%) **	7.1				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg) **	< 0.30				1	--	--
Mineral Oil (mg/kg) $_{EH\_1D\_CU\_AL}$ #	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 0.85				100	--	--
pH (units)**	8.0				--	>6	--
Acid Neutralisation Capacity (mmol / kg)	4.1				--	To be evaluated	To be evaluated
Eluate Analysis (BS EN 12457 - 3 preparation utilising end over end leaching procedure)	2:1 mg/l	8:1 mg/l		Cumulative 10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic *	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium *	0.010	0.010		0.10	20	100	300
Cadmium *	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium *	0.0015	0.0023		0.022	0.5	10	70
Copper *	0.0098	0.012		0.12	2	50	100
Mercury *	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum *	< 0.0030	< 0.0030		< 0.020	0.5	10	30
Nickel *	0.0054	0.0053		0.053	0.4	10	40
Lead *	< 0.0050	0.0056		0.054	0.5	10	50
Antimony *	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium *	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc *	0.0082	0.0066		0.068	4	50	200
Chloride *	< 4.0	< 4.0		27	800	15000	25000
Fluoride	0.36	0.37		3.7	10	150	500
Sulphate *	3.3	2.6		26	1000	20000	50000
TDS*	110	78		820	4000	60000	100000
Phenol Index (Monohydric Phenols) *	< 0.13	< 0.13		< 0.50	1	-	-
DOC	11	17		170	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.5						
Dry Matter (%)	83						
Moisture (%)	17						
Stage 1							
Volume Eluate L2 (litres)	0.30						
Filtered Eluate VE1 (litres)	0.18						

Results are expressed on a dry weight basis, after correction for moisture content where applicable.

*= UKAS accredited (liquid eluate analysis only)

Stated limits are for guidance only and i2 cannot be held responsible for any discrepencies with current legislation

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Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes as defined by the Waste (England and Wales) Regulations 2011 (as amended) and EA Guidance WM3.
This analysis is only applicable for landfill acceptance criteria (The Environmental Permitting (England and Wales) Regulations) and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Analytical Report Number : 22-44542
Project / Site name: Bicester Motion

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and loam (MCERTS) soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of a sample is calculated as the % weight of the stones not passing a 10 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
2199736	TP106	None Supplied	0.2	Brown clay and loam with gravel and vegetation.
2199737	TP108	None Supplied	0.25	Brown loam and clay with gravel and vegetation.

Analytical Report Number : 22-44542
Project / Site name: Bicester Motion

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Moisture Content	Moisture content, determined gravimetrically. (30 oC)	In house method.	L019-UK/PL	W	NONE
Stones content of soil	Standard preparation for all samples unless otherwise detailed. Gravimetric determination of stone > 10 mm as % dry weight.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK/PL	D	NONE
Preparation WAC leachate		In-house method	L043-PL	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270. MCERTS accredited except Coronene.	L064-PL	D	MCERTS
Chloride in WAC leachate (BS EN 12457-3 Prep)	Determination of Chloride colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260.	L082-PL	W	ISO 17025
Fluoride in WAC leachate (BS EN 12457-3 Prep)	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033-PL	W	ISO 17025
Phenol Index in WAC leachate (BS EN 12457-3 Prep)	Determination of monohydric phenols in leachate by continuous flow analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Sulphate in WAC leachate (BS EN 12457-3 Prep)	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025
TDS in WAC leachate (BS EN 12457-3 Prep)	Determination of total dissolved solids in leachate by electrometric measurement.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L031-PL	W	NONE
DOC in WAC leachate (BS EN 12457-3 Prep)	Determination of dissolved organic carbon in leachate by TOC/DOC NDIR analyser.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037-PL	W	ISO 17025
PCB's by GC-MS in soil	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L027-PL	D	MCERTS
BTEX (Sum of BTEX compounds) in soil	Determination of BTEX in soil by headspace GC-MS. Individual components MCERTS accredited	In-house method based on USEPA8260	L073B-PL	W	MCERTS
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance an Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046-PL	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In house method.	L047-PL	D	MCERTS
Mineral Oil in Soil C10 - C40	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method based on USEPA 8270	L076-PL	D	NONE
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In house method.	L005-PL	W	MCERTS

Analytical Report Number : 22-44542
Project / Site name: Bicester Motion

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In house method.	L023-PL	D	MCERTS
Metals in WAC leachate (BS EN 12457-3 Prep)	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039-PL	W	ISO 17025

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Sample Deviation Report

Analytical Report Number : 22-44542
Project / Site name: Bicester Motion

This deviation report indicates the sample and test deviations that apply to the samples submitted for analysis.Please note that the associated result(s) may be unreliable and should be interpreted with care.

Sample ID	Other ID	Sample Type	Lab Sample Number	Sample Deviation	Test Name	Test Ref	Test Deviation
TP106	None Supplied	M	2199736	c	BTEX (Sum of BTEX compounds) in soil	L073B-PL	c
TP106	None Supplied	M	2199736	c	Mineral Oil in Soil C10 - C40	L076-PL	c
TP108	None Supplied	M	2199737	c	BTEX (Sum of BTEX compounds) in soil	L073B-PL	c
TP108	None Supplied	M	2199737	c	Mineral Oil in Soil C10 - C40	L076-PL	c
TP108	None Supplied	M	2199737	c	PCB's by GC-MS in soil	L027-PL	c
TP108	None Supplied	M	2199737	c	Speciated WAC-17 PAHs in soil	L064-PL	c

Jamie Moore
Hydrock Consultants Ltd
2-4 Hawthorne Park
Holdenby Road
Spratton
Northamptonshire
NN6 8LD

t: 01604842888
f: 01604842666
e: jamiemoore@hydrock.com

i2 Analytical Ltd.
7 Woodshots Meadow,
Croxley Green
Business Park,
Watford,
Herts,
WD18 8YS

t: 01923 225404
f: 01923 237404
e: reception@i2analytical.com

Analytical Report Number : 22-51522

Project / Site name:	Bicester Heritage Hotel	**Samples received on:**	12/04/2022
Your job number:	22457	**Samples instructed on/ Analysis started on:**	12/04/2022
Your order number:	PO15602	**Analysis completed by:**	20/04/2022
Report Issue Number:	1	**Report issued on:**	20/04/2022
Samples Analysed:	3 water samples		

Signed:

Adam Fenwick
Technical Reviewer
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils	- 4 weeks from reporting
leachates	- 2 weeks from reporting
waters	- 2 weeks from reporting
asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement.
Application of uncertainty of measurement would provide a range within which the true result lies.
An estimate of measurement uncertainty can be provided on request.

Analytical Report Number: 22-51522
Project / Site name: Bicester Heritage Hotel

Your Order No: PO15602

Lab Sample Number				2237429	2237430	2237431
Sample Reference				RB101	RB102	RB103
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				2.35	2.01	2.27
Date Sampled				11/04/2022	11/04/2022	11/04/2022
Time Taken				1210	1220	1155
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
General Inorganics						
pH	pH Units	N/A	ISO 17025	7.3	7.3	7.4
Electrical Conductivity at 20 °C	µS/cm	10	ISO 17025	480	460	410
Total Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Free Cyanide (Low Level 1 µg/l)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Sulphate as SO4	µg/l	45	ISO 17025	101000	85300	47200
Chloride	mg/l	0.15	ISO 17025	36	13	19
Fluoride	µg/l	50	ISO 17025	140	410	430
Ammoniacal Nitrogen as N	µg/l	15	ISO 17025	42	79	120
Ammoniacal Nitrogen as NH3	µg/l	15	ISO 17025	51	96	150
Ammoniacal Nitrogen as NH4	µg/l	15	ISO 17025	54	100	160
Dissolved Organic Carbon (DOC)	mg/l	0.1	ISO 17025	1.15	1.62	0.9
Nitrate as N	mg/l	0.01	ISO 17025	0.07	0.2	0.16
Nitrate as NO3	mg/l	0.05	ISO 17025	0.31	0.88	0.73
Nitrite as N	µg/l	1	ISO 17025	1.5	17	63
Nitrite as NO2	µg/l	5	ISO 17025	5.1	56	210
Hardness - Total	mgCaCO3/l	1	ISO 17025	336	330	274
Bromate by IC	mg/l	0.002	ISO 17025	< 0.002	< 0.002	< 0.002
Total Phenols						
Total Phenols (monohydric)	µg/l	1	ISO 17025	3.5	2.5	4.3
Speciated PAHs						
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.001	NONE	< 0.001	< 0.001	< 0.001
PAH Sums						
Sum of Benzo(b)fluoranthene & Benzo(k)fluoranthene	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020
Sum of Benzo(ghi)perylene & Indeno(1,2,3-cd)pyrene	µg/l	0.02	NONE	< 0.020	< 0.020	< 0.020
Sum of Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benz	µg/l	0.04	NONE	< 0.040	< 0.040	< 0.040
Total PAH						
Total EPA-16 PAHs	µg/l	0.16	ISO 17025	< 0.16	< 0.16	< 0.16

Analytical Report Number: 22-51522
Project / Site name: Bicester Heritage Hotel

Your Order No: PO15602

Lab Sample Number				2237429	2237430	2237431
Sample Reference				RB101	RB102	RB103
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				2.35	2.01	2.27
Date Sampled				11/04/2022	11/04/2022	11/04/2022
Time Taken				1210	1220	1155
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Heavy Metals / Metalloids						
Boron (dissolved)	µg/l	10	ISO 17025	86	390	550
Calcium (dissolved)	mg/l	0.012	ISO 17025	130	120	95
Chromium (hexavalent)	µg/l	5	ISO 17025	< 5.0	< 5.0	< 5.0
Chromium (III)	µg/l	5	NONE	< 5.0	< 5.0	< 5.0
Iron (dissolved)	mg/l	0.004	ISO 17025	0.03	0.032	0.015
Iron (dissolved)	µg/l	4	ISO 17025	30	32	15
Magnesium (dissolved)	mg/l	0.005	ISO 17025	3.3	7.7	8.6
Sodium (dissolved)	mg/l	0.01	ISO 17025	10	10	11
Aluminium (dissolved)	µg/l	1	ISO 17025	59	82	10
Antimony (dissolved)	µg/l	0.4	ISO 17025	< 0.4	0.7	0.6
Arsenic (dissolved)	µg/l	0.15	ISO 17025	0.96	1.09	0.72
Barium (dissolved)	µg/l	0.06	ISO 17025	19	24	24
Cadmium (dissolved)	µg/l	0.02	ISO 17025	< 0.02	< 0.02	0.04
Chromium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2
Cobalt (dissolved)	µg/l	0.2	ISO 17025	2.5	2.5	1.4
Copper (dissolved)	µg/l	0.5	ISO 17025	1.5	1.5	1.4
Lead (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2
Manganese (dissolved)	µg/l	0.05	ISO 17025	34	42	26
Mercury (dissolved)	µg/l	0.05	ISO 17025	< 0.05	< 0.05	< 0.05
Nickel (dissolved)	µg/l	0.5	ISO 17025	4.2	4.3	3
Selenium (dissolved)	µg/l	0.6	ISO 17025	< 0.6	< 0.6	< 0.6
Silver (dissolved)	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Tin (dissolved)	µg/l	0.2	ISO 17025	< 0.20	< 0.20	< 0.20
Vanadium (dissolved)	µg/l	0.2	ISO 17025	0.2	0.3	< 0.2
Zinc (dissolved)	µg/l	0.5	ISO 17025	3	5.3	7
Monoaromatics & Oxygenates						
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Sum of m, p & o-Xylene	µg/l	2	ISO 17025	< 2.0	< 2.0	< 2.0
Petroleum Hydrocarbons						
TPH-CWG - Aliphatic >C5 - C6 $_{HS\_1D\_AL}$	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C6 - C8 $_{HS\_1D\_AL}$	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C8 - C10 $_{HS\_1D\_AL}$	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
TPH-CWG - Aliphatic >C10 - C12 $_{EH\_1D\_AL\_\#1\_\#2\_MS}$	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aliphatic >C12 - C16 $_{EH\_1D\_AL\_\#1\_\#2\_MS}$	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C21 $_{EH\_1D\_AL\_\#1\_\#2\_MS}$	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aliphatic >C21 - C35 $_{EH\_1D\_AL\_\#1\_\#2\_MS}$	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aliphatic >C16 - C35 $_{EH\_1D\_AL\_\#1\_\#2\_MS}$	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aliphatic >C35 - C44 $_{EH\_1D\_AL\_\#1\_\#2\_MS}$	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C35) $_{HS+EH\_1D\_AL\_\#1\_\#2\_MS}$	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aliphatic (C5 - C44) $_{HS+EH\_1D\_AR\_\#1\_\#2\_MS}$	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aromatic >C5 - C7 $_{HS\_1D\_AR}$	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C7 - C8 $_{HS\_1D\_AR}$	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
TPH-CWG - Aromatic >C8 - C10 $_{HS\_1D\_AR}$	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0

Analytical Report Number: 22-51522
Project / Site name: Bicester Heritage Hotel

Your Order No: PO15602

Lab Sample Number				2237429	2237430	2237431
Sample Reference				RB101	RB102	RB103
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				2.35	2.01	2.27
Date Sampled				11/04/2022	11/04/2022	11/04/2022
Time Taken				1210	1220	1155
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
TPH-CWG - Aromatic >C10 - C12 EH_1D_AR_#1_#2_MS	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aromatic >C12 - C16 EH_1D_AR_#1_#2_MS	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aromatic >C16 - C21 EH_1D_AR_#1_#2_MS	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aromatic >C21 - C35 EH_1D_AR_#1_#2_MS	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aromatic >C35 - C44 EH_1D_AR_#1_#2_MS	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C35) HS+EH_1D_AR_#1_#2_MS	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG - Aromatic (C5 - C44) HS+EH_1D_AR_#1_#2_MS	µg/l	10	NONE	< 10	< 10	< 10
TPH-CWG Total C5 - C44 EH+HS_1D_TOTAL_#1_#2_MS	µg/l	10	NONE	< 10	< 10	< 10

Analytical Report Number: 22-51522
Project / Site name: Bicester Heritage Hotel

Your Order No: PO15602

Lab Sample Number				2237429	2237430	2237431
Sample Reference				RB101	RB102	RB103
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				2.35	2.01	2.27
Date Sampled				11/04/2022	11/04/2022	11/04/2022
Time Taken				1210	1220	1155
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
VOCs						
Chloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Chloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Bromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Vinyl Chloride	µg/l	1	NONE	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Benzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Styrene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
o-Xylene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0

Analytical Report Number: 22-51522
Project / Site name: Bicester Heritage Hotel

Your Order No: PO15602

Lab Sample Number				2237429	2237430	2237431
Sample Reference				RB101	RB102	RB103
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				2.35	2.01	2.27
Date Sampled				11/04/2022	11/04/2022	11/04/2022
Time Taken				1210	1220	1155
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Butylbenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/l	1	ISO 17025	< 1.0	< 1.0	< 1.0
Dichloromethane	µg/l	3	NONE	< 3.0	< 3.0	< 3.0
Dichlorodifluoromethane	µg/l	1	NONE	< 1.0	< 1.0	< 1.0
Total Trihalomethanes	µg/l	4	NONE	< 4.0	< 4.0	< 4.0
Total Trichlorobenzenes	ug/l	3	NONE	< 3.0	< 3.0	< 3.0
Total Dichlorobenzenes	ug/l	3	NONE	< 3.0	< 3.0	< 3.0
Trichloroethylene (TCE) + Tetrachloroethylene (PCE)	ug/l	2	NONE	< 2.0	< 2.0	< 2.0
Total 1,2-Dichloroethene	ug/l	2	NONE	< 2.0	< 2.0	< 2.0
Total 1,3-Dichloropropane	ug/l	2	NONE	< 2.0	< 2.0	< 2.0
Tetrachloroethane	ug/l	2	NONE	< 2.0	< 2.0	< 2.0

VOCs TICs

VOCs TICs Compound Name		N/A	NONE	None Detected	None Detected	None Detected

SVOCs

Aniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Phenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2-Chlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Bis(2-chloroethyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Bis(2-chloroisopropyl)ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Hexachloroethane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Nitrobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
4-Methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Isophorone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2-Nitrophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2,4-Dimethylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Bis(2-chloroethoxy)methane	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
1,2,4-Trichlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Naphthalene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
2,4-Dichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
4-Chloroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Hexachlorobutadiene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
4-Chloro-3-methylphenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2,4,6-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2,4,5-Trichlorophenol	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2-Methylnaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2-Chloronaphthalene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Dimethylphthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
2,6-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
2,4-Dinitrotoluene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Dibenzofuran	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
4-Chlorophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05

Analytical Report Number: 22-51522
Project / Site name: Bicester Heritage Hotel

Your Order No: PO15602

Lab Sample Number				2237429	2237430	2237431
Sample Reference				RB101	RB102	RB103
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				2.35	2.01	2.27
Date Sampled				11/04/2022	11/04/2022	11/04/2022
Time Taken				1210	1220	1155
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
Diethyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
4-Nitroaniline	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Fluorene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Azobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Bromophenyl phenyl ether	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Phenanthrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Carbazole	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Dibutyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Anthraquinone	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Butyl benzyl phthalate	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	ISO 17025	< 0.01	< 0.01	< 0.01

3&4-Methylphenol	µg/l	0.1	NONE	< 0.10	< 0.10	< 0.10

Analytical Report Number: 22-51522
Project / Site name: Bicester Heritage Hotel

Your Order No: PO15602

Lab Sample Number				2237429	2237430	2237431
Sample Reference				RB101	RB102	RB103
Sample Number				None Supplied	None Supplied	None Supplied
Depth (m)				2.35	2.01	2.27
Date Sampled				11/04/2022	11/04/2022	11/04/2022
Time Taken				1210	1220	1155
Analytical Parameter (Water Analysis)	**Units**	**Limit of detection**	**Accreditation Status**			
PCBs by GC-MS						
PCB Congener 28	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02
PCB Congener 52	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02
PCB Congener 101	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02
PCB Congener 118	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02
PCB Congener 138	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02
PCB Congener 153	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02
PCB Congener 180	µg/l	0.02	NONE	< 0.02	< 0.02	< 0.02
PCBs by GC-MS						
Total PCBs	µg/l	0.14	NONE	< 0.14	< 0.14	< 0.14
Environmental Forensics						
PFOS	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05
PFOA	µg/l	0.05	NONE	< 0.05	< 0.05	< 0.05

U/S = Unsuitable Sample I/S = Insufficient Sample

Analytical Report Number : 22-51522
Project / Site name: Bicester Heritage Hotel

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Metals in water by ICP-MS (dissolved)	Determination of metals in water by acidification followed by ICP-MS. Accredited Matrices: SW, GW, PW except B=SW,GW, Hg=SW,PW, Al=SW,PW.	In-house method based on USEPA Method 6020 & 200.8 "for the determination of trace elements in water by ICP-MS.	L012-PL	W	ISO 17025
Metals in water by ICP-OES (dissolved)	Determination of metals in water by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW, PrW.(Al, Cu,Fe,Zn).	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Boron in water	Determination of boron in water by acidification followed by ICP-OES. Accredited matrices: SW PW GW	In-house method based on MEWAM	L039-PL	W	ISO 17025
Hexavalent chromium in water	Determination of hexavalent chromium in water by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method by continuous flow analyser. Accredited Matrices SW, GW, PW.	L080-PL	W	ISO 17025
Electrical conductivity at 20oC of water	Determination of electrical conductivity in water by electrometric measurement. Accredited Matrices SW, GW, PW	In-house method	L031-PL	W	ISO 17025
Fluoride in water	Determination of fluoride in water by 1:1 ratio with a buffer solution followed by Ion Selective Electrode. Accredited matrices: SW, PW, GW.	In-house method based on Use of Total Ionic Strength Adjustment Buffer for Electrode Determination"	L033B-PL	W	ISO 17025
Total Hardness of water	Determination of hardness in waters by calculation from calcium and magnesium. Accredited Matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L045-PL	W	ISO 17025
Monohydric phenols in water - LOW LEVEL 1 ug/l	Determination of phenols in water by continuous flow analyser. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Nitrite in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry).Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Nitrate in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
Speciated EPA-16 PAHs in water	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards. Accredited matrices: SW PW GW	In-house method based on USEPA 8270	L102B-PL	W	ISO 17025
PCB's By GC-MS in water	Determination of PCB by extraction with acetone and hexane followed by GC-MS.	In-house method based on USEPA 8082	L028-PL	W	NONE
Sulphate in water	Determination of sulphate in water after filtration by acidification followed by ICP-OES. Accredited Matrices SW, GW, PW.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Semi-volatile organic compounds in water	Determination of semi-volatile organic compounds in leachate by extraction in dichloromethane followed by GC-MS.	In-house method based on USEPA 8270	L102B-PL	W	ISO 17025
TPHCWG (Waters)	Determination of dichloromethane extractable hydrocarbons in water by GC-MS, speciation by interpretation.	In-house method	L070-PL	W	ISO 17025
Volatile organic compounds in water	Determination of volatile organic compounds in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Tentatively identified compounds (VOC) in water	Determination of volatile organic compounds total ion count in water by headspace GC-MS followed by a full library scan.	In-house method based on USEPA8260	L073B-PL	W	NONE

Analytical Report Number : 22-51522
Project / Site name: Bicester Heritage Hotel

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Dissolved Organic Carbon in water	Determination of dissolved inorganic carbon in water by TOC/DOC NDIR Analyser.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L037-PL	W	ISO 17025
BTEX and MTBE in water (Monoaromatics)	Determination of BTEX and MTBE in water by headspace GC-MS. Accredited matrices: SW PW GW	In-house method based on USEPA8260	L073B-PL	W	ISO 17025
Speciated EPA-16 PAHs in water (LOW LEVEL Dets)	Determination of PAH compounds in water by extraction in dichloromethane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270 (low level)	L102B-PL	W	NONE
TPH in (Water)	Determination of TPH bands by HS-GC-MS/GC-FID	In-house method, TPH with carbon banding.	L070-PL	W	NONE
Ammonia as NH3 in water	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Ammoniacal Nitrogen as N in water	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the discrete analyser (colorimetric) salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Ammonium as NH4 in water	Determination of Ammonium/Ammonia/ Ammoniacal Nitrogen by the colorimetric salicylate/nitroprusside method. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Nitrite as N in water	Determination of nitrite in water by addition of sulphanilamide and NED followed by discrete analyser (colorimetry). Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton	L082-PL	W	ISO 17025
Nitrate as N in water	Determination of nitrate by reaction with sodium salicylate and colorimetry. Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewatern & Polish Standard Method PN-82/C-04579.08,	L078-PL	W	ISO 17025
TPH Chromatogram in Water	TPH Chromatogram in Water.	In-house method	L070-PL	W	NONE
Volatile organic compounds in water extended	Determination of volatile organic compounds in water by headspace GC-MS.	In-house method based on USEPA8260	L073B-PL	W	NONE
Cr (III) in water	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	W	NONE
Low level total cyanide in water	Determination of total cyanide by distillation followed by colorimetry. Accredited matrices: SW PW GW	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
pH at 20oC in water (automated)	Determination of pH in water by electrometric measurement. Accredited matrices: SW PW GW	In house method.	L099-PL	W	ISO 17025
Free cyanide (low level) in water	Determination of free cyanide by distillation followed by colorimetry.Accredited matrices SW, GW, PW.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Bromate in Water	Determination of bromate in waters based on ion chromatography. Accredited matrices GW, PW, SW.	In house method based on Standard Methods for the Analysis of Water and Waste Water, method 4500	L008-PL	W	ISO 17025
Specific PAH sums in water	Determination of PAH compounds in water by extraction in hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-PL	W	NONE

Analytical Report Number : 22-51522
Project / Site name: Bicester Heritage Hotel

Water matrix abbreviations:
Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Chloride in water	Determination of Chloride (diissolved) colorimetrically by discrete analyser.	In house based on MEWAM Method ISBN 0117516260. Accredited matrices: SW, PW, GW.	L082-PL	W	ISO 17025
TO - PFOS in water	Analysed by LC-MS in SIM with ISTD correction	In-house method		W	NONE

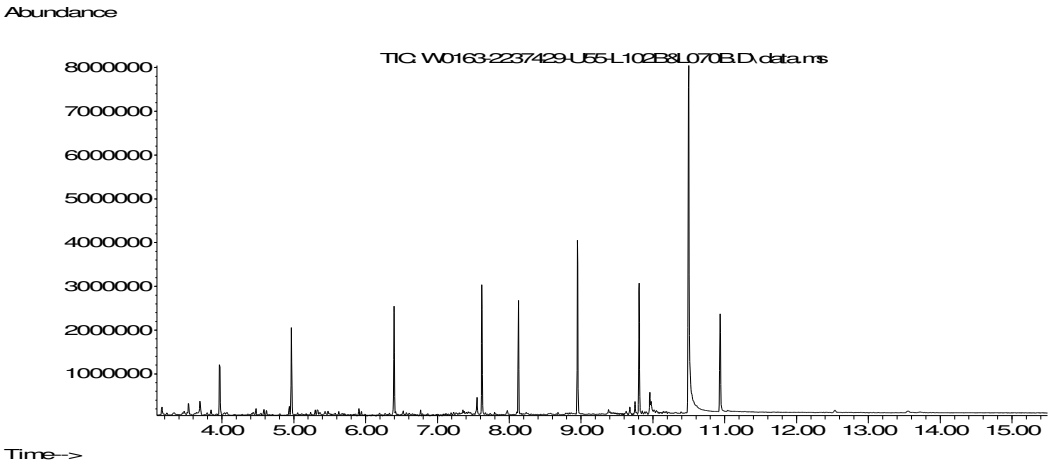
For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.
For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.
Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Information in Support of Analytical Results

List of HWOL Acronyms and Operators

Acronym	Descriptions
HS	Headspace Analysis
MS	Mass spectrometry
FID	Flame Ionisation Detector
GC	Gas Chromatography
EH	Extractable Hydrocarbons (i.e. everything extracted by the solvent(s))
CU	Clean-up - e.g. by Florisil®, silica gel
1D	GC - Single coil/column gas chromatography
2D	GC-GC - Double coil/column gas chromatography
Total	Aliphatics & Aromatics
AL	Aliphatics
AR	Aromatics
#1	EH_2D_Total but with humics mathematically subtracted
#2	EH_2D_Total but with fatty acids mathematically subtracted
_	Operator - understore to separate acronyms (exception for +)
+	Operator to indicate cumulative e.g. EH+HS_Total or EH_CU+HS_Total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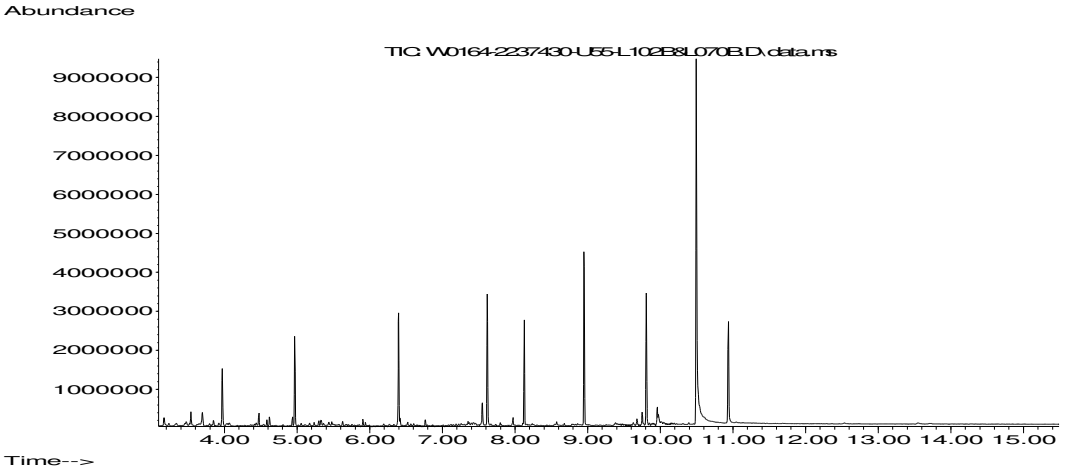
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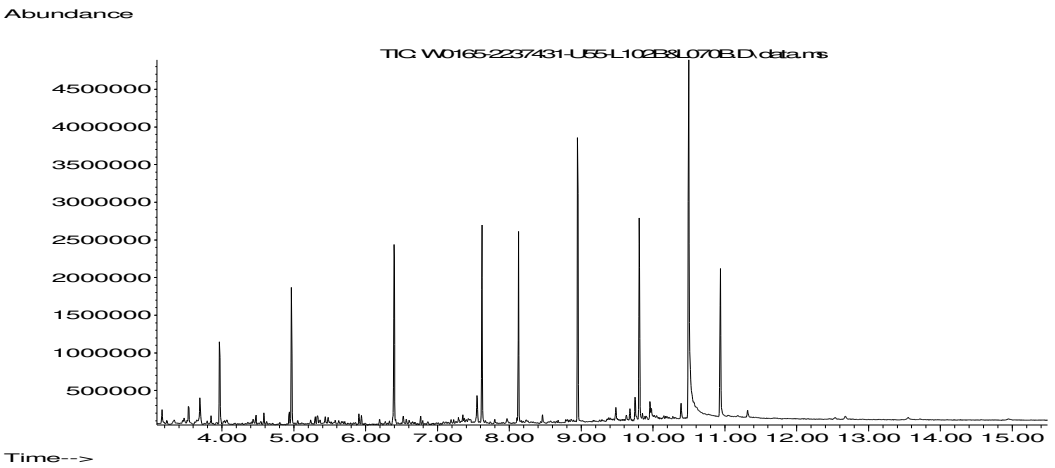
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Remedial Targets Methodology Data Table

Hydrock

Hydrock Scenario: Scenario D - DWS & EQS (inland)

RTM Level: RTM Level 2 - Groundwater Beneath Source Assessment - groundwater samples

Water body receptor(s): Groundwater and surface water
Secondary receptor(s): Human health (abstraction)
Data set: Groundwater
Client: IKS Consulting on behalf of Bicester Motion
Site: Bicester Heritage Hotel
Job no: 22457
Test Certificates(s): 22-51522-1
Dataset ALL ZONES

	PNEC calculated (inland EQS)

123*	Exceeds solubility value
<1	Grey text and "<" sign if value <= LoD
999	Red text if value > DWS
	Red fill if value > Inland Waters EQS

Surface Water Representative Hardness as mg/l $CaCO_3$ 313

CAS / AGS Number	Chemical of Potential Concern (µg/l)	WFD Designation	Hazardous Substance Status	Solubility Limit (µg/l)	No. of samples	Limit of Detection	DWS	Inland Waters EQS	RB101	RB102	RB103
								Strata / Zone	CF	CF	CF
								Date sampled:	11/04/2022	11/04/2022	11/04/2022
7440-22-4	Silver (Ag) (dissolved)				3	0.05	n/a	0.05	<0.05	<0.05	<0.05
7429-90-5	Aluminium (Al) (dissolved)				3	1	200	n/a	59	82	10
7440-38-2	Arsenic (As) (dissolved)	SP	H		3	0.15	10	50	0.96	1.09	0.72
7440-42-8	Boron (B) (dissolved)		NP		3	10	1000	2000	86	390	550
7440-39-3	Barium (Ba) (dissolved)				3	0.06	1300	n/a	19	24	24
7440-43-9	Cadmium (Cd) (dissolved)	PH	NP		3	0.02	5	0.25	<0.02	<0.02	0.04
7440-48-4	Cobalt (Co) (dissolved)		NP		3	0.2	n/a	3	2.5	2.5	1.4
18540-29-9	Chromium (VI) (Cr) (dissolved)	SP	H		3	5	n/a	3.4	<5	<5	<5
16065-83-1	Chromium (III) (Cr) (dissolved)	SP			3	5	n/a	4.7	<5	<5	<5
7440-47-3	Chromium (Cr) (total) (dissolved)				3	0.2	50	n/a	<0.2	<0.2	<0.2
7440-50-8	Copper (Cu) (dissolved)	SP	NP		3	0.5	2000	1	1.5	1.5	1.4
7439-89-6	Iron (Fe) (dissolved)	SP			3	4	200	1000	30	32	15
7439-97-6	Mercury (Hg) (dissolved)	PH	H		3	0.05	1	0.07	<0.05	<0.05	<0.05
P1286	Manganese (Mn) (dissolved)	SP			3	0.05	50	123	34	42	26
7440-23-5	Sodium (Na) (dissolved)				3	10	200000	n/a	10000	10000	11000
7440-02-0	Nickel (Ni) (dissolved)	P	NP		3	0.5	20	4	4.2	4.3	3
7439-92-1	Lead (Pb) (dissolved)	P	H		3	0.2	10	1.2	<0.2	<0.2	<0.2
7440-36-0	Antimony (Sb) (dissolved)		NP		3	0.4	5	n/a	<0.4	0.7	0.6
7782-49-2	Selenium (Se) (dissolved)		NP		3	0.6	10	n/a	<0.6	<0.6	<0.6
7440-31-5	Tin (Sn) (dissolved)				3	0.2	n/a	25	<0.2	<0.2	<0.2
7440-62-2	Vanadium (V) (dissolved)				3	0.2	n/a	60	<0.2	0.3	<0.2
7440-66-6	Zinc (Zn) (dissolved)	SP	NP		3	0.5	n/a	13.1	3	5.3	7
P1095	Cyanide (free) (hydrogen cyanide)	SP	NP		3	1	n/a	1	<1	<1	<1
57-12-5	Cyanide (total)				3	1	50	n/a	<1	<1	<1
P1140	Ammonium (NH_4^+)		NP		3	15	500	n/a	54	100	160
P1238	Ammoniacal Nitrogen (as N)		NP		3	15	n/a	300	42	79	120
P1720	Ammonia (unionised) (NH_3 as N) {free ammonia}	SP	NP		3	15	n/a	n/a	51	96	150
15541-45-4	Bromate (BrO_3)				3	2	10	n/a	<2	<2	<2
16887-00-6	Chloride (Cl^-)				3	150	250000	250000	36000	13000	19000
16984-48-8	Fluoride (F^-)				3	50	1500	5000	140	410	430
P1348	Nitrate (NO_3^-)				3	50	50000	n/a	310	880	730
P1349	Nitrite (NO_2^-)				3	5	500	n/a	5.1	56	210
14808-79-8	Sulfate (SO_4^{2-})				3	45	250000	400000	101000	85300	47200
P1134	pH (min.) (su)				3	0	6.5	6	7.3	7.3	7.4
P1134	pH (max.) (su)				3	0	9.5	9	7.3	7.3	7.4
P1287	Electrical conductivity (µS/cm)				3	10	2500	n/a	480	460	410
120-12-7	Anthracene	PH	H	56	3	0.01	n/a	0.1	<0.01	<0.01	<0.01
50-32-8	Benzo(a)pyrene	PH	H	3.8	3	0.01	0.01	0.00017	<0.01	<0.01	<0.01
206-44-0	Fluoranthene	P	H	230	3	0.01	n/a	0.0063	<0.01	<0.01	<0.01
91-20-3	Naphthalene	P	NP	19000	3	0.01	n/a	2	<0.01	<0.01	<0.01
GRP01	PAHs = sum of benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(ghi)perylene, indeno(1,2,3-cd)pyrene	P	H		3	0.04	0.1	n/a	<0.04	<0.04	<0.04
P1877	Phenol	SP	NP	84100000	3	1	n/a	7.7	3.5	2.5	4.3
P1407	Ali EC5-EC6			35900	3	1	15000	10	<1	<1	<1
P1408	Ali >EC6-EC8			5370	3	1	15000	10	<1	<1	<1
P1409	Ali >EC8-EC10			427	3	1	300	10	<1	<1	<1
P1410	Ali >EC10-EC12			33.9	3	10	300	10	<10	<10	<10
P1411	Ali >EC12-EC16			0.759	3	10	300	10	<10	<10	<10
P1938	Ali >EC16-EC35			0.00254	3	10	n/a	10	<10	<10	<10
P1415	Ali >EC35-EC44			0.00254	3	10	n/a	10	<10	<10	<10
P1441	Aro EC5-EC7			1780000	3	1	1	10	<1	<1	<1
P1355	Aro >EC7-EC8			590000	3	1	700	10	<1	<1	<1
P1356	Aro >EC8-EC10			64600	3	1	300	10	<1	<1	<1
P1357	Aro >EC10-EC12			24500	3	10	90	10	<10	<10	<10
P1358	Aro > EC12-EC16			5750	3	10	90	10	<10	<10	<10
P1359	Aro >EC16-EC21			653	3	10	90	10	<10	<10	<10
P1360	Aro >EC21-EC35			6.61	3	10	90	10	<10	<10	<10
P1362	Aro >EC35-EC44			6.61	3	10	n/a	10	<10	<10	<10
71-43-2	Benzene	P	H	1780000	3	1	1	10	<1	<1	<1
108-88-3	Toluene	SP	H	590000	3	1	700	74	<1	<1	<1
100-41-4	Ethylbenzene		H	180000	3	1	300	20	<1	<1	<1

Remedial Targets Methodology Data Table

Hydrock

Water body receptor(s): Groundwater and surface water
Secondary receptor(s): Human health (abstraction)
Data set: Groundwater
Client: IKS Consulting on behalf of Bicester Motion
Site: Bicester Heritage Hotel
Job no: 22457
Test Certificates(s): 22-51522-1
Dataset ALL ZONES

PNEC calculated (inland EQS)

123* Exceeds solubility value
<1 Grey text and "<" sign if value <= LoD
999 Red text if value > DWS
Red fill if value > Inland Waters EQS

Surface Water Representative Hardness as mg/l $CaCO_3$ 313

CAS / AGS Number	Chemical of Potential Concern (µg/l)	WFD Designation	Hazardous Substance Status	Solubility Limit (µg/l)	No. of samples	Limit of Detection	DWS	Inland Waters EQS	Strata / Zone	CF	CF	CF
									Date sampled:	11/04/2022	11/04/2022	11/04/2022
										RB101	RB102	RB103
95-47-6	o-Xylene		H	173000	3	1	500	30		<1	<1	<1
P1374	m,p-Xylene		H	200000	3	1	500	30		<1	<1	<1
1634-04-04	Methyl tertiary butyl ether (MTBE)		NP	48000000	3	1	15	n/a		<1	<1	<1
71-55-6	1,1,1-Trichloroethane		NP	1300000	3	1	n/a	100		<1	<1	<1
79-00-5	1,1,2-Trichloroethane		NP	4490000	3	1	n/a	400		<1	<1	<1
96-12-8	1,2-Dibromo-3-chloropropane			1230000	3	1	0.1	n/a		<1	<1	<1
106-93-4	1,2-Dibromoethane		H	4300000	3	1	0.4	n/a		<1	<1	<1
95-50-1	1,2-Dichlorobenzene		H	133000	3	1	1000	20		<1	<1	<1
107-06-2	1,2-Dichloroethane (EDC)	P	NP	8680000	3	1	3	10		<1	<1	<1
156-59-2	cis 1,2-Dichloroethene (cis 1,2 DCE)		NP	7550000	3	1	50	n/a		<1	<1	<1
156-60-5	trans 1,2-Dichloroethene (trans 1,2 DCE)		NP	5250000	3	1	50	n/a		<1	<1	<1
78-87-5	1,2-Dichloropropane		H	2050000	3	1	40	n/a		<1	<1	<1
10061-01-5	cis 1,3-Dichloropropene		H	2700000	3	1	0.1	n/a		<1	<1	<1
10061-02-6	trans 1,3-Dichloropropene		H	2800000	3	1	0.1	n/a		<1	<1	<1
106-46-7	1,4-Dichlorobenzene		H	103000	3	1	300	20		<1	<1	<1
75-27-4	Bromodichloromethane			3000000	3	1	60	n/a		<1	<1	<1
75-01-4	Chloroethene (vinyl chloride)		H	2760000	3	1	0.5	n/a		<1	<1	<1
124-48-1	Dibromochloromethane			1050000	3	1	100	n/a		<1	<1	<1
25321-22-6	Dichlorobenzenes (1,2-, 1,3- & 1,4-)				3	3	n/a	20		<3	<3	<3
75-09-2	Dichloromethane	P	NP	20100000	3	3	20	20		<3	<3	<3
87-68-3	Hexachlorobutadiene (HCBD)	PH	H	4800	3	1	0.1	0.6		<1	<1	<1
100-42-5	Styrene		H	290000	3	1	20	50		<1	<1	<1
25322-20-7	Tetrachloroethane (PCA)	SP			3	2	n/a	140		<2	<2	<2
127-18-4	Tetrachloroethene (PCE)	OP	NP	225000	3	1	10	10		<1	<1	<1
56-23-5	Tetrachloromethane (Carbon Tetrachloride)	OP	H	846000	3	1	3	12		<1	<1	<1
75-25-2	Tribromomethane (bromoform)			3000000	3	1	100	n/a		<1	<1	<1
12002-48-1	Trichlorobenzenes	P	NP		3	3	n/a	0.4		<3	<3	<3
79-01-6	Trichloroethene	OP	H	1370000	3	1	10	10		<1	<1	<1
67-66-3	Trichloromethane (chloroform)	P	H	8950000	3	1	100	2.5		<1	<1	<1
GRP03	Trihalomethanes, sum of trichloromethane, tribromomethane, dibromchloromethane & bromodichloromethane				3	4	100	n/a		<4	<4	<4
88-06-2	2,4,6-Trichlorophenol		H	434000	3	0.05	200	n/a		<0.05	<0.05	<0.05
120-83-2	2,4-Dichlorophenol	SP	H	4500000	3	0.05	n/a	4.2		<0.05	<0.05	<0.05
95-57-8	2-Chlorophenol		H	22700000	3	0.05	n/a	50		<0.05	<0.05	<0.05
59-50-7	4-Chloro, 3-methylphenol		H		3	0.05	n/a	40		<0.05	<0.05	<0.05
85-68-7	Benzyl butyl phthalate	SP			3	0.05	n/a	7.5		<0.05	<0.05	<0.05
84-74-2	Dibutyl phthalate		NP		3	0.05	n/a	8		<0.05	<0.05	<0.05
84-66-2	Diethyl phthalate (DEP)				3	0.05	n/a	200		<0.05	<0.05	<0.05
131-11-3	Dimethyl phthalate (DMP)				3	0.05	n/a	800		<0.05	<0.05	<0.05
118-74-1	Hexachlorobenzene	PH	H	9.6	3	0.05	0.1	0.05		<0.05	<0.05	<0.05
1763-23-1	Perflurooctane sulfonic acid (PFOS) & derivatives	PH	H		3	0.05	0.01	0.00065		<0.05	<0.05	<0.05
335-67-1	Perfluorooctanoic Acid (PFOA)	PH			3	0.05	0.01	n/a		<0.05	<0.05	<0.05
1336-36-3	Polychlorinated Biphenyls (PCB)		H		3	0.14	n/a	n/a		<0.14	<0.14	<0.14

Assessment of Chemicals of Potential Concern to Plant Life

Hydrock

						Soil Type	**CF(VI)**																	
All values in mg/kg unless otherwise stated						**Location & Depth**	**TP17**																	
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**0.70**																	
Arsenic	1	1	23	23	0	250	23																	
Boron	0.2	1	0.4	0.4	0	3	0.4																	
Chromium (III)	1	1	22	22	0	400	22																	
Chromium (VI)	1.2	1	1.2	1.2	0	25	1.2																	
Copper	1	1	14	14	0	200	14																	
Nickel	1	1	22	22	0	110	22																	
Zinc	1	1	59	59	0	300	59																	
	Mean																							
pH (su)	8.3						8.3																	

Risk parameter: Plant life pH >7
Data set: Cornbrash Formation
Client: IKS Consulting on behalf of Bicester Motion.
Site: Bicester Heritage Hotel
Job no.: 22457
Lab. report no(s).: 22-42786-1

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

							Soil Type	CF(VI)
	All values in mg/kg unless otherwise stated						Location & Depth	TP17
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**		**0.70**
Arsenic	1	1	23	23	0	640	23	
Beryllium	0.06	1	0.89	0.89	0	390	0.89	
Boron	0.2	1	0.4	0.4	0	190000	0.4	
Cadmium	0.2	1	0.2	0.2	0	220	0.2	
Chromium (III)	1	1	22	22	0	8400	22	
Chromium (VI)	1.2	1	1.2	1.2	0	33	1.2	
Copper	1	1	14	14	0	69000	14	
Lead	1	1	32	32	0	2330	32	
Mercury, inorganic	0.3	1	0.3	0.3	0	3600	0.3	
Nickel	1	1	22	22	0	1700	22	
Selenium	1	1	1	1	0	13000	1	
Vanadium	1	1	56	56	0	9000	56	
Zinc	1	1	59	59	0	670000	59	
Cyanide (free)	1	1	1	1	0	16000	1	
Phenol (total)	1	1	1	1	0	760	1	
Acenaphthene	0.05	1	0.29	0.29	0	84000	0.29	
Acenaphthylene	0.05	1	0.05	0.05	0	83000	0.05	
Anthracene	0.05	1	0.75	0.75	0	520000	0.75	
Benz(a)anthracene	0.05	1	2.2	2.2	0	86	2.2	
Benzo(a)pyrene	0.05	1	2.1	2.1	0	14	2.1	
Benzo(b)fluoranthene	0.05	1	2.2	2.2	0	97	2.2	
Benzo(ghi)perylene	0.05	1	1.3	1.3	0	630	1.3	
Benzo(k)fluoranthene	0.05	1	0.96	0.96	0	140	0.96	
Chrysene	0.05	1	1.9	1.9	0	140	1.9	
Dibenz(a,h)anthracene	0.05	1	0.28	0.28	0	12	0.28	
Fluoranthene	0.05	1	4.9	4.9	0	23000	4.9	
Fluorene	0.05	1	0.24	0.24	0	63000	0.24	
Indeno(1,2,3,cd)pyrene	0.05	1	1.1	1.1	0	58	1.1	
Naphthalene	0.05	1	0.05	0.05	0	190	0.05	
Phenanthrene	0.05	1	2.8	2.8	0	22000	2.8	
Pyrene	0.05	1	4.1	4.1	0	54000	4.1	
Asbestos identified	Y/N						N	
FOC (dimensionless)	0.011	**(mean)**					0.011	
SOM (calculated)	1.90%	**(mean)**					1.90%	
pH (su)	8.3	**(mean)**					8.3	

Risk parameter: Human health - commercial (1%SOM)
Data set: Cornbrash Formation
Client: IKS Consulting on behalf of Bicester Motion.
Site: Bicester Heritage Hotel
Job no.: 22457
Lab. report no(s).: 22-42786-1

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Plant Life

Hydrock

							Soil Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
							Location & Depth	TP13	TP14	TP15	RO102	RO103	TP101	TP102	TP104	TP106	TP108	TP112	TP114
All values in mg/kg unless otherwise stated								0.30	0.50	0.10	0.20	0.20	0.30	0.15	0.30	0.20	0.25	0.10	0.10
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**													
Arsenic	1	12	17	25	0	250		23	24	22	19	17	19	21	24	25	23	18	17
Boron	0.2	12	0.3	1.8	0	3		0.4	0.6	0.6	1.1	1.8	0.3	0.5	0.7	1.1	1.5	1	0.6
Chromium (III)	1	12	16	33	0	400		28	33	16	22	18	21	26	30	31	29	22	20
Chromium (VI)	1.2	12	1.2	1.2	0	25		1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Copper	1	12	10	36	0	200		14	13	15	18	32	10	15	13	36	17	30	31
Nickel	1	12	18	29	0	110		24	26	20	23	24	19	21	24	29	25	23	18
Zinc	1	12	29	77	0	300		62	47	60	62	42	29	42	46	67	55	66	77
	Mean																		
pH (su)	8.2							8.1	8.1	8.2	8.9	8.2	8.3	8.2	8.2	8.2	8.2	8	8.1

Risk parameter: Plant life pH >7
Data set: Made Ground
Client: IKS Consulting on behalf of Bicester Motion
Site: Bicester Heritage Hotel
Job no.: 22457
Lab. report no(s).: 22-42786-1

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

							Soil Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
	All values in mg/kg unless otherwise stated						Location & Depth	TP13	TP14	TP15	RO102	RO103	TP101	TP102	TP104	TP106	TP108	TP112	TP114
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**		**0.30**	**0.50**	**0.10**	**0.20**	**0.20**	**0.30**	**0.15**	**0.30**	**0.20**	**0.25**	**0.10**	**0.10**
Arsenic	1	12	17	25	0	640		23	24	22	19	17	19	21	24	25	23	18	17
Beryllium	0.06	12	0.7	1.4	0	390		1.1	1.3	0.7	0.95	1.4	0.84	1	1.2	1.4	1.2	1.2	0.79
Boron	0.2	12	0.3	1.8	0	190000		0.4	0.6	0.6	1.1	1.8	0.3	0.5	0.7	1.1	1.5	1	0.6
Cadmium	0.2	12	0.2	1.4	0	220		0.2	0.2	0.2	0.2	1.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Chromium (III)	1	12	16	33	0	8400		28	33	16	22	18	21	26	30	31	29	22	20
Chromium (VI)	1.2	12	1.2	1.2	0	33		1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Copper	1	12	10	36	0	69000		14	13	15	18	32	10	15	13	36	17	30	31
Lead	1	12	13	1400	0	2330		28	18	28	41	41	13	23	27	48	40	1400	85
Mercury, inorganic	0.3	12	0.3	0.3	0	3600		0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Nickel	1	12	18	29	0	1700		24	26	20	23	24	19	21	24	29	25	23	18
Selenium	1	12	1	1	0	13000		1	1	1	1	1	1	1	1	1	1	1	1
Vanadium	1	12	39	83	0	9000		69	83	39	53	50	53	63	73	73	73	55	48
Zinc	1	12	29	77	0	670000		62	47	60	62	42	29	42	46	67	55	66	77
Cyanide (free)	1	12	1	1	0	16000		1	1	1	1	1	1	1	1	1	1	1	1
Phenol (total)	1	12	1	1	0	760		1	1	1	1	1	1	1	1	1	1	1	1
Acenaphthene	0.05	12	0.05	0.05	0	84000		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Acenaphthylene	0.05	12	0.05	0.05	0	83000		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Anthracene	0.05	12	0.05	0.67	0	520000		0.05	0.05	0.67	0.05	0.05	0.05	0.05	0.05	0.34	0.05	0.05	0.05
Benz(a)anthracene	0.05	12	0.05	2	0	86		0.27	0.05	2	0.05	1.2	0.05	0.05	0.4	1.1	0.05	0.87	1.3
Benzo(a)pyrene	0.05	12	0.05	2.4	0	14		0.28	0.05	2.3	0.05	2.4	0.05	0.05	0.43	1.9	0.05	0.89	1.5
Benzo(b)fluoranthene	0.05	12	0.05	2.2	0	97		0.26	0.05	2.1	0.05	2.2	0.05	0.05	0.47	2	0.05	0.98	1.7
Benzo(ghi)perylene	0.05	12	0.05	1.7	0	630		0.05	0.05	1.4	0.05	1.7	0.05	0.05	0.28	1.4	0.05	0.58	1
Benzo(k)fluoranthene	0.05	12	0.05	1.1	0	140		0.24	0.05	1.1	0.05	0.73	0.05	0.05	0.23	0.72	0.05	0.49	0.78
Chrysene	0.05	12	0.05	1.9	0	140		0.22	0.05	1.9	0.05	1.1	0.05	0.05	0.34	1.1	0.05	0.64	1.2
Dibenz(a,h)anthracene	0.05	12	0.05	0.35	0	12		0.05	0.05	0.32	0.05	0.35	0.05	0.05	0.05	0.27	0.05	0.05	0.05
Fluoranthene	0.05	12	0.05	4.2	0	23000		0.46	0.05	4.2	0.05	1.5	0.05	0.05	0.67	2	0.33	1.6	2.5
Fluorene	0.05	12	0.05	0.05	0	63000		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Indeno(1,2,3,cd)pyrene	0.05	12	0.05	1.4	0	58		0.05	0.05	1.2	0.05	1.4	0.05	0.05	0.25	1.1	0.05	0.45	0.85
Naphthalene	0.05	12	0.05	0.05	0	190		0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Phenanthrene	0.05	12	0.05	3.2	0	22000		0.05	0.05	3.2	0.05	0.57	0.05	0.05	0.24	1.3	0.05	0.45	1.1
Pyrene	0.05	12	0.05	3.6	0	54000		0.4	0.05	3.6	0.05	1.5	0.05	0.05	0.62	2.1	0.3	1.5	2.2
Asbestos identified	Y/N							N	N	N	N	N	N	N	N	N	N	N	N
FOC (dimensionless)	0.019917	**(mean)**						0.014	0.0098	0.018	0.02	0.03	0.0072	0.017	0.02	0.018	0.027	0.031	0.027
SOM (calculated)	3.43%	**(mean)**						2.41%	1.69%	3.10%	3.45%	5.17%	1.24%	2.93%	3.45%	3.10%	4.65%	5.34%	4.65%
pH (su)	8.2	**(mean)**						8.1	8.1	8.2	8.9	8.2	8.3	8.2	8.2	8.2	8.2	8	8.1

Risk parameter: Human health - commercial (1%SOM)
Data set: Made Ground
Client: IKS Consulting on behalf of Bicester Motion
Site: Bicester Heritage Hotel
Job no.: 22457
Lab. report no(s).: 22-42786-1

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

							Soil Type	CF(VI)
							All values in mg/kg unless otherwise stated **Location & Depth**	TP17
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**		**0.70**
Aliphatics EC5-EC6	0.001	1	0.001	0.001	0	300		0.001
Aliphatics >EC6-EC8	0.001	1	0.001	0.001	0	140		0.001
Aliphatics >EC8-EC10	0.001	1	0.001	0.001	0	78		0.001
Aliphatics >EC10-EC12	1	1	1	1	0	48		1
Aliphatics >EC12-EC16	2	1	2	2	0	24		2
Aliphatics >EC16-EC35	10	1	10	10	0	1000000		10
Aliphatics >EC35-EC44	8.4	1	8.4	8.4	0	1000000		8.4
Aromatics EC5-EC7	0.001	1	0.001	0.001	0	1200		0.001
Aromatics >EC7-EC8	0.001	1	0.001	0.001	0	870		0.001
Aromatics >EC8-EC10	0.001	1	0.001	0.001	0	610		0.001
Aromatics >EC10-EC12	1	1	1	1	0	360		1
Aromatics >EC12-EC16	2	1	2	2	0	36000		2
Aromatics >EC16-EC21	10	1	19	19	0	28000		19
Aromatics >EC21-EC35	10	1	32	32	0	28000		32
Aromatics >EC35-EC44	8.4	1	8.4	8.4	0	28000		8.4

	ADDITIVITY CHECK	**HAZARD QUOTIENTS FOR EACH FRACTION**
	Aliphatics EC5-EC6	0.000
	Aliphatics >EC6-EC8	0.000
Considered additive	Aliphatics >EC8-EC10	0.000
Considered additive	Aliphatics >EC10-EC12	0.021
Considered additive	Aliphatics >EC12-EC16	0.083
	Aliphatics >EC16-EC35	0.000
	Aliphatics >EC35-EC44	0.000
	Aromatics EC5-EC7	0.000
	Aromatics >EC7-EC8	0.000
Considered additive	Aromatics >EC8-EC10	0.000
Considered additive	Aromatics >EC10-EC12	0.003
Considered additive	Aromatics >EC12-EC16	0.000
Considered additive	Aromatics >EC16-EC21	0.001
Considered additive	Aromatics >EC21-EC35	0.001
	Aromatics >EC35-EC44	0.000
	Hazard Index for ali>C8-C16	**0.104**
	Hazard Index for aro>C8-C16	**0.003**
	Hazard Index for aro>C16-C35	**0.002**

Risk parameter: Human health - commercial (1%SOM)
Data set: Cornbrash Formation
Client: IKS Consulting on behalf of Bicester Motion.
Site: Bicester Heritage Hotel
Job no.: 22457
Lab. report no(s).: 22-42786-1

Legend: Hazard Index table - HI or HQ greater than 1 highlighted with yellow shading.
Main table values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Main table alues in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

All values in mg/kg unless otherwise stated

Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC	TP13	TP14	TP15	RO102	RO103	TP101	TP102	TP104	TP106	TP108	TP112	TP114
Soil Type							MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG
Location & Depth							0.30	0.50	0.10	0.20	0.20	0.30	0.15	0.30	0.20	0.25	0.10	0.10
Aliphatics EC5-EC6	0.001	12	0.001	0.001	0	300	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Aliphatics >EC6-EC8	0.001	12	0.001	0.001	0	140	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Aliphatics >EC8-EC10	0.001	12	0.001	0.001	0	78	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Aliphatics >EC10-EC12	1	12	1	1	0	48	1	1	1	1	1	1	1	1	1	1	1	1
Aliphatics >EC12-EC16	2	12	2	2	0	24	2	2	2	2	2	2	2	2	2	2	2	2
Aliphatics >EC16-EC35	10	12	10	10	0	1000000	10	10	10	10	10	10	10	10	10	10	10	10
Aliphatics >EC35-EC44	8.4	12	8.4	8.4	0	1000000	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
Aromatics EC5-EC7	0.001	12	0.001	0.001	0	1200	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Aromatics >EC7-EC8	0.001	12	0.001	0.001	0	870	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Aromatics >EC8-EC10	0.001	12	0.001	0.001	0	610	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Aromatics >EC10-EC12	1	12	1	1	0	360	1	1	1	1	1	1	1	1	1	1	1	1
Aromatics >EC12-EC16	2	12	2	2	0	36000	2	2	2	2	2	2	2	2	2	2	2	2
Aromatics >EC16-EC21	10	12	10	17	0	28000	10	10	17	10	10	10	10	10	11	10	10	10
Aromatics >EC21-EC35	10	12	10	33	0	28000	10	10	33	10	12	10	10	10	11	10	10	19
Aromatics >EC35-EC44	8.4	12	8.4	8.4	0	28000	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4

	ADDITIVITY CHECK	HAZARD QUOTIENTS FOR EACH FRACTION											
	Aliphatics EC5-EC6	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Aliphatics >EC6-EC8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Considered additive	Aliphatics >EC8-EC10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Aliphatics >EC10-EC12	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
	Aliphatics >EC12-EC16	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083	0.083
	Aliphatics >EC16-EC35	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Aliphatics >EC35-EC44	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Aromatics EC5-EC7	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Aromatics >EC7-EC8	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Considered additive	Aromatics >EC8-EC10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Aromatics >EC10-EC12	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
	Aromatics >EC12-EC16	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Considered additive	Aromatics >EC16-EC21	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Aromatics >EC21-EC35	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.001
	Aromatics >EC35-EC44	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Hazard Index for ali>C8-C16	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**	**0.104**
	Hazard Index for aro>C8-C16	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**
	Hazard Index for aro>C16-C35	**0.001**	**0.001**	**0.002**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**

Hazard Index table - HI or HQ greater than 1 highlighted with yellow shading.

Risk parameter: **Human health - commercial (1%SOM)**
Data set: Made Ground
Client: IKS Consulting on behalf of Bicester Motion.
Site: Bicester Heritage Hotel
Job no.: 22457
Lab. report no(s).: 22-42786-1

Legend: Main table values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Main table alues in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

							Soil Type	CF(VI)														
						All values in mg/kg unless otherwise stated	Location & Depth	TP17														
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**		**0.70**														
Benzene	0.001	1	0.001	0.001	0	27		0.001														
Toluene	0.001	1	0.001	0.001	0	870		0.001														
Ethylbenzene	0.001	1	0.001	0.001	0	520		0.001														
Xylene, o-	0.001	1	0.001	0.001	0	480		0.001														
Xylene, m- & p-	0.001	1	0.001	0.001	0	580		0.001														
MTBE	0.001	1	0.001	0.001	0	7500		0.001														
Iso-propylbenzene	0.001	1	0.001	0.001	0	390		0.001														
Propylbenzene	0.001	1	0.001	0.001	0	400		0.001														
1,2,4-Trimethylbenzene	0.001	1	0.001	0.001	0	39		0.001														
Bromobenzene	0.001	1	0.001	0.001	0	92		0.001														
Chlorobenzene	0.001	1	0.001	0.001	0	56		0.001														
1,2-Dichlorobenzene	0.001	1	0.001	0.001	0	570		0.001														
1,3-Dichlorobenzene	0.001	1	0.001	0.001	0	30		0.001														
1,4-Dichlorobenzene	0.001	1	0.001	0.001	0	230		0.001														
Hexachlorobenzene	0.0003	1	0.0003	0.0003	0	0.2		0.0003														
1,2,3-trichlorobenzene	0.001	1	0.001	0.001	0	100		0.001														
1,2,4-trichlorobenzene	0.001	1	0.001	0.001	0	220		0.001														

Risk parameter: **Human health - commercial (1%SOM)**
Data set: Cornbrash Formation
Client: IKS Consulting on behalf of Bicester Motion
Site: Bicester Heritage Hotel
Job no.: 22457
Lab. report no(s).: 22 - 42786

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG	MG			
						All values in mg/kg unless otherwise stated Location & Depth	RO102	RO103	TP101	TP102	TP104	TP106	TP108	TP112	TP114	TP13	TP114	TP115			
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**0.20**	**0.20**	**0.30**	**0.15**	**0.30**	**0.20**	**0.25**	**0.10**	**0.10**	**0.30**	**0.50**	**0.10**			
Benzene	0.001	12	0.001	0.001	0	27	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
Toluene	0.001	12	0.001	0.001	0	870	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
Ethylbenzene	0.001	12	0.001	0.001	0	520	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
Xylene, o-	0.001	12	0.001	0.001	0	480	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
Xylene, m- & p-	0.001	12	0.001	0.001	0	580	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
MTBE	0.001	12	0.001	0.001	0	7500	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001			
Iso-propylbenzene	0.001	3	0.001	0.001	0	390										0.001	0.001	0.001			
Propylbenzene	0.001	3	0.001	0.001	0	400										0.001	0.001	0.001			
1,2,4-Trimethylbenzene	0.001	3	0.001	0.001	0	39										0.001	0.001	0.001			
Bromobenzene	0.001	3	0.001	0.001	0	92										0.001	0.001	0.001			
Chlorobenzene	0.001	3	0.001	0.001	0	56										0.001	0.001	0.001			
1,2-Dichlorobenzene	0.001	3	0.001	0.001	0	570										0.001	0.001	0.001			
1,3-Dichlorobenzene	0.001	3	0.001	0.001	0	30										0.001	0.001	0.001			
1,4-Dichlorobenzene	0.001	3	0.001	0.001	0	230										0.001	0.001	0.001			
Hexachlorobenzene	0.0003	3	0.0003	0.0003	0	0.2										0.0003	0.0003	0.0003			
1,2,3-trichlorobenzene	0.001	3	0.001	0.001	0	100										0.001	0.001	0.001			
1,2,4-trichlorobenzene	0.001	3	0.001	0.001	0	220										0.001	0.001	0.001			

Risk parameter: Human health - commercial (1%SOM)
Data set: Made Ground
Client: IKS Consulting on behalf of Bicester Motion
Site: Bicester Heritage Hotel
Job no.: 22457
Lab. report no(s).: 22 - 42786 - 1

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
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NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	CF(VI)																
					All values in mg/kg unless otherwise stated	Location & Depth	TP17																
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**0.70**																
Bromodichloromethane	0.001	1	0.001	0.001	0	2	0.001																
Bromoform	0.001	1	0.001	0.001	0	710	0.001																
Chloroethane	0.001	1	0.001	0.001	0	900	0.001																
Chloroethene (aka vinyl chloride)	0.001	1	0.001	0.001	0	0.059	0.001																
Chloromethane	0.001	1	0.001	0.001	0	0.96	0.001																
1,1-Dichloroethane	0.001	1	1	1	0	260	0.001																
1,2-Dichloroethane	0.001	1	0.001	0.001	0	0.67	0.001																
1,1-Dichloroethene	0.001	1	0.001	0.001	0	24	0.001																
Cis 1,2 Dichloroethene	0.001	1	0.001	0.001	0	14	0.001																
Trans 1,2 Dichloroethene	0.001	1	0.001	0.001	0	21	0.001																
1,2-Dichloropropane	0.001	1	0.001	0.001	0	3.1	0.001																
Hexachloroethane	0.05	1	0.05	0.05	0	8.2	0.05																
Tetrachloroethene	0.001	1	0.001	0.001	0	120	0.001																
1,1,1,2-Tetrachloroethane	0.001	1	0.001	0.001	0	110	0.001																
1,1,2,2-Tetrachloroethane	0.001	1	0.001	0.001	0	280	0.001																
Tetrachloromethane	0.001	1	0.001	0.001	0	2.9	0.001																
Trichloroethene	0.001	1	0.001	0.001	0	11	0.001																
1,1,1-Trichloroethane	0.001	1	0.001	0.001	0	660	0.001																
1,1,2 Trichloroethane	0.001	1	0.001	0.001	0	89	0.001																
Trichloromethane	0.001	1	0.001	0.001	0	100	0.001																

Risk parameter: **Human health - commercial (1%SOM)**
Data set: Cornbrash Formation
Client: IKS Consulting on behalf of Bicester Motion
Site: Bicester Heritage
Job no.: 22457
Lab. report no(s).: 22 - 42786 - 1

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
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MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

						Soil Type	MG	MG	MG																
					All values in mg/kg unless otherwise stated	Location & Depth	TP13	TP114	TP115																
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**	**0.30**	**0.50**	**0.10**																
Bromodichloromethane	0.001	3	0.001	0.001	0	2	0.001	0.001	0.001																
Bromoform	0.001	3	0.001	0.001	0	710	0.001	0.001	0.001																
Chloroethane	0.001	3	0.001	0.001	0	900	0.001	0.001	0.001																
Chloroethene (aka vinyl chloride)	0.001	3	0.001	0.001	0	0.059	0.001	0.001	0.001																
Chloromethane	0.001	3	0.001	0.001	0	0.96	0.001	0.001	0.001																
1,1-Dichloroethane	0.001	3	3	3	0	260	0.001	0.001	0.001																
1,2-Dichloroethane	0.001	3	0.001	0.001	0	0.67	0.001	0.001	0.001																
1,1-Dichloroethene	0.001	3	0.001	0.001	0	24	0.001	0.001	0.001																
Cis 1,2 Dichloroethene	0.001	3	0.001	0.001	0	14	0.001	0.001	0.001																
Trans 1,2 Dichloroethene	0.001	3	0.001	0.001	0	21	0.001	0.001	0.001																
1,2-Dichloropropane	0.001	3	0.001	0.001	0	3.1	0.001	0.001	0.001																
Hexachloroethane	0.05	3	0.05	0.05	0	8.2	0.05	0.05	0.05																
Tetrachloroethene	0.001	3	0.001	0.001	0	120	0.001	0.001	0.001																
1,1,1,2-Tetrachloroethane	0.001	3	0.001	0.001	0	110	0.001	0.001	0.001																
1,1,2,2-Tetrachloroethane	0.001	3	0.001	0.001	0	280	0.001	0.001	0.001																
Tetrachloromethane	0.001	3	0.001	0.001	0	2.9	0.001	0.001	0.001																
Trichloroethene	0.001	3	0.001	0.001	0	11	0.001	0.001	0.001																
1,1,1-Trichloroethane	0.001	3	0.001	0.001	0	660	0.001	0.001	0.001																
1,1,2 Trichloroethane	0.001	3	0.001	0.001	0	89	0.001	0.001	0.001																
Trichloromethane	0.001	3	0.001	0.001	0	100	0.001	0.001	0.001																

Risk parameter: **Human health - commercial (1%SOM)**
Data set: Made Ground
Client: IKS Consulting on behalf of Bicester Motion
Site: Bicester Heritage Hotel
Job no.: 22457
Lab. report no(s).: 22 - 42786 - 1

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
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NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

							Soil Type	CF(VI)
						All values in mg/kg unless otherwise stated	Location & Depth	TP17
Chemical of Potential Concern	**Lab. RL**	**No. Samples**	**Min. Value**	**Max. Value**	**No. Samples > or = GAC**	**GAC**		**0.70**
2-Chlorophenol	0.1	1	0.1	0.1	0	3600		0.1
2,4-Dichlorophenol	0.3	1	0.3	0.3	0	3500		0.3
2,4-Dimethylphenol	0.3	1	0.3	0.3	0	1400		0.3
2-Methylphenol	0.3	1	0.3	0.3	0	160000		0.3
4-Methylphenol	0.2	1	0.2	0.2	0	160000		0.2
2,4,6-Trichlorophenol	0.1	1	0.1	0.1	0	3900		0.1
Butyl benzyl phthalate	0.3	1	0.3	0.3	0	940000		0.3
Diethyl Phthalate	0.2	1	0.2	0.2	0	14		0.2
Di-n-butyl phthalate	0.2	1	0.2	0.2	0	15000		0.2

ADDITIVITY CHECK	**HAZARD QUOTIENTS FOR EACH SUBSTANCE**
2-Chlorophenol	2.78E-05
2,4-Dichlorophenol	8.57E-05
2,4,6-Trichlorophenol	2.56E-05
2-Methylphenol	1.88E-06
4-Methylphenol	1.25E-06
Hazard Index for chlorophenols	**0.000139**
Hazard Index for cresols	**3.13E-06**

Risk parameter: Human health - commercial (1%SOM)
Data set: Cornbrash Formation
Client: IKS Consulting on behalf of Bicester Motion
Site: Bicester Heritage
Job no.: 22457
Lab. report no(s).: 22 - 42786 - 1

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Assessment of Chemicals of Potential Concern to Human Health

Hydrock

							Soil Type	MG	MG	MG
							All values in mg/kg unless otherwise stated Location & Depth	TP13	TP114	TP115
Chemical of Potential Concern	Lab. RL	No. Samples	Min. Value	Max. Value	No. Samples > or = GAC	GAC		0.30	0.50	0.10
2-Chlorophenol	0.1	3	0.1	0.1	0	3600		0.1	0.1	0.1
2,4-Dichlorophenol	0.3	3	0.3	0.3	0	3500		0.3	0.3	0.3
2,4-Dimethylphenol	0.3	3	0.3	0.3	0	1400		0.3	0.3	0.3
2-Methylphenol	0.3	3	0.3	0.3	0	160000		0.3	0.3	0.3
4-Methylphenol	0.2	3	0.2	0.2	0	160000		0.2	0.2	0.2
2,4,6-Trichlorophenol	0.1	3	0.1	0.1	0	3900		0.1	0.1	0.1
Butyl benzyl phthalate	0.3	3	0.3	0.3	0	940000		0.3	0.3	0.3
Diethyl Phthalate	0.2	3	0.2	0.2	0	14		0.2	0.2	0.2
Di-n-butyl phthalate	0.2	3	0.2	0.2	0	15000		0.2	0.2	0.2

ADDITIVITY CHECK	HAZARD QUOTIENTS FOR EACH SUBSTANCE		
2-Chlorophenol	2.78E-05	2.78E-05	2.78E-05
2,4-Dichlorophenol	8.57E-05	8.57E-05	8.57E-05
2,4,6-Trichlorophenol	2.56E-05	2.56E-05	2.56E-05
2-Methylphenol	1.88E-06	1.88E-06	1.88E-06
4-Methylphenol	1.25E-06	1.25E-06	1.25E-06
Hazard Index for chlorophenols	**1.39E-04**	**1.39E-04**	**1.39E-04**
Hazard Index for cresols	**3.13E-06**	**3.13E-06**	**3.13E-06**

Risk parameter: **Human health - commercial (1%SOM)**
Data set: Made Ground
Client: IKS Consulting on behalf of Bicester Motion
Site: Bicester Heritage
Job no.: 22457
Lab. report no(s).: 22 - 42786 - 1

Legend: Values in blue are at or below the laboratory reporting limit (where a single value is indicated) and are considered as being at the detection limit for the purposes of statistical analysis, as a conservative estimate.
Values in red are equal to, or greater than, the generic assessment criterion (GAC).
MG denotes Made Ground
NAT denotes natural ground

Appendix I Waste Assessment

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

XT7QR-A9LBK-ZZJAB

Job name

22-42786_HWOL_Results

Description/Comments

Lab Cert 22-42786

Project

22457

Site

Bicester Motion

Classified by

Name:
Nathan Thompson
Date:
30 Mar 2022 13:52 GMT
Telephone:
07557 345 513

Company:
Hydrock Consultants Ltd
Hawthorn Park
Holdenby Road, Spratton
Northampton
NN6 8LD

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: **CERTIFIED**

Course	Date
Hazardous Waste Classification	22 Apr 2021

Next 3 year Refresher due by Apr 2024

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP13-2-18022022-0.30		Non Hazardous		2
2	TP14-2-18022022-0.50		Non Hazardous		8
3	TP15-1-18022022-0.10		Non Hazardous		14
4	TP17-1-18022022-0.70		Non Hazardous		20

Related documents

#	Name	Description
1	22-42786_HWOL_Results.hwol	.hwol file used to create the Job
2	Hydrock Standard plus Cresol (ammended Lead)	waste stream template used to create this Job

Report

Created by: Nathan Thompson

Created date: 30 Mar 2022 13:52 GMT

Classification of sample: TP13-2-18022022-0.30

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP13-2-18022022-0.30
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002 mg/kg		<0.002 mg/kg	<0.0000002 %		<LOD
2	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
5	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		23 mg/kg	1.32	26.116 mg/kg	0.00261 %	✓	
6	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
7	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.27 mg/kg		0.232 mg/kg	0.0000232 %	✓	
8	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.28 mg/kg		0.241 mg/kg	0.0000241 %	✓	
9	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.26 mg/kg		0.224 mg/kg	0.0000224 %	✓	
10	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.24 mg/kg		0.206 mg/kg	0.0000206 %	✓	
12	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.1 mg/kg	2.775	2.625 mg/kg	0.000263 %	✓	
13	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.4 mg/kg	13.43	4.62 mg/kg	0.000462 %	✓	
14	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
15	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		28 mg/kg	1.462	40.924 mg/kg	0.00409 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
17		chrysene	601-048-00-0	205-923-4	218-01-9		0.22	mg/kg		0.189	mg/kg	0.0000189 %	✓	
18		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14	mg/kg	1.126	13.556	mg/kg	0.00136 %	✓	
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
20		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
22		fluoranthene		205-912-4	206-44-0		0.46	mg/kg		0.396	mg/kg	0.0000396 %	✓	
23		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	28	mg/kg		24.08	mg/kg	0.00241 %	✓	
26		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
27		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.0001	mg/kg		<0.0001	mg/kg	<0.00000001 %		<LOD
28		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		24	mg/kg	1.579	32.601	mg/kg	0.00326 %	✓	
29		pH			PH		8.1	pH		8.1	pH	8.1 pH		
30		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31		phenol	604-001-00-2	203-632-7	108-95-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
32		pyrene		204-927-3	129-00-0		0.4	mg/kg		0.344	mg/kg	0.0000344 %	✓	
33		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
37		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
38		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
39		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		62	mg/kg	1.245	66.368	mg/kg	0.00664 %	✓	
40		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]											
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
42		monohydric phenols											
				P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
43		vanadium { divanadium pentaoxide; vanadium pentoxide }											
		023-001-00-8	215-239-8	1314-62-1		69	mg/kg	1.785	105.933	mg/kg	0.0106 %	✓	
44		1,1,1-trichloroethane; methyl chloroform											
		602-013-00-2	200-756-3	71-55-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
45		1,1,2,2-tetrachloroethane											
		602-015-00-3	201-197-8	79-34-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
46		1,1,2-trichloroethane											
		602-014-00-8	201-166-9	79-00-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
47		1,1-dichloroethylene; vinylidene chloride											
		602-025-00-8	200-864-0	75-35-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
48		1,1-dichloropropene											
		602-031-00-0	209-253-3	563-58-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
49		1,2,3-trichlorobenzene											
			201-757-1	87-61-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
50		1,2,4-trimethylbenzene											
		601-043-00-3	202-436-9	95-63-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
51		1,2-dibromoethane											
		602-010-00-6	203-444-5	106-93-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
52		1,2-dichlorobenzene; o-dichlorobenzene											
		602-034-00-7	202-425-9	95-50-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
53		1,2-dichloropropane; propylene dichloride											
		602-020-00-0	201-152-2	78-87-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
54		1,3-dichlorbenzene											
		602-067-00-7	208-792-1	541-73-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
55		1,3-dichloropropane											
			205-531-3	142-28-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
56		1,4-dichlorobenzene; p-dichlorobenzene											
		602-035-00-2	203-400-5	106-46-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
57		2,2-dichloropropane											
			209-832-0	594-20-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
58		bromodichloromethane											
			200-856-7	75-27-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
59		bromomethane; methylbromide											
		602-002-00-2	200-813-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
60		bromobenzene											
		602-060-00-9	203-623-8	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
61		n-butylbenzene											
			203-209-7	104-51-8		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
62		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]											
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
63		chlorobenzene											
		602-033-00-1	203-628-5	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
64		carbon tetrachloride; tetrachloromethane											
		602-008-00-5	200-262-8	56-23-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
65		chloroethane											
		602-009-00-0	200-830-5	75-00-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
66		chloroform; trichloromethane											
		602-006-00-4	200-663-8	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
67		chloromethane; methyl chloride											
		602-001-00-7	200-817-4	74-87-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
68		dibromochloromethane											
			204-704-0	124-48-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
70		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
71		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
72		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
73		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
74		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
75		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
76		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
77		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
78		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
79		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
80		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
81		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
82		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
83		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
84		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
85		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
86		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
87		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
88		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
89		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
90		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
91		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
92		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
93		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
94		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
95		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									
96		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
97		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
98		2-methyl naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-078-3	91-57-6									
99		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
100		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
101		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
102		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
103		dibenzofuran				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-071-3	132-64-9									
104		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
105		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
106		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
107		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
108		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
109		carbazole				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-696-0	86-74-8									
110		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
111		anthraquinone				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		606-151-00-4	201-549-0	84-65-1									
112		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
113		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
114		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
115		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.0343 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP14-2-18022022-0.50

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP14-2-18022022-0.50
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
2		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
3		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
4		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
5		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		24	mg/kg	1.32	26.301	mg/kg	0.00263 %	✓	
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
8		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
9		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
10		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
11		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
12		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.3	mg/kg	2.775	2.995	mg/kg	0.000299 %	✓	
13		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.6	mg/kg	13.43	6.688	mg/kg	0.000669 %	✓	
14		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
15		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		33	mg/kg	1.462	48.231	mg/kg	0.00482 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
17		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
18		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		13	mg/kg	1.126	12.148	mg/kg	0.00121 %	✓	
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
20		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
22		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
23		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	18	mg/kg		14.94	mg/kg	0.00149 %	✓	
26		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
27		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.0001	mg/kg		<0.0001	mg/kg	<0.00000001 %		<LOD
28		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		26	mg/kg	1.579	34.086	mg/kg	0.00341 %	✓	
29		pH			PH		8.1	pH		8.1	pH	8.1 pH		
30		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31		phenol	604-001-00-2	203-632-7	108-95-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
32		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
33		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
36		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
37		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
38		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<LOD
39		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		47	mg/kg	1.245	48.556	mg/kg	0.00486 %	✓	
40		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]				<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]									
42		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
43		vanadium { divanadium pentaoxide; vanadium pentoxide }				83	mg/kg	1.785	122.981	mg/kg	0.0123 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
44		1,1,1-trichloroethane; methyl chloroform				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-013-00-2	200-756-3	71-55-6									
45		1,1,2,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-015-00-3	201-197-8	79-34-5									
46		1,1,2-trichloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-014-00-8	201-166-9	79-00-5									
47		1,1-dichloroethylene; vinylidene chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-025-00-8	200-864-0	75-35-4									
48		1,1-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-031-00-0	209-253-3	563-58-6									
49		1,2,3-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-757-1	87-61-6									
50		1,2,4-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-043-00-3	202-436-9	95-63-6									
51		1,2-dibromoethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-010-00-6	203-444-5	106-93-4									
52		1,2-dichlorobenzene; o-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-034-00-7	202-425-9	95-50-1									
53		1,2-dichloropropane; propylene dichloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-020-00-0	201-152-2	78-87-5									
54		1,3-dichlorbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-067-00-7	208-792-1	541-73-1									
55		1,3-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-531-3	142-28-9									
56		1,4-dichlorobenzene; p-dichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-035-00-2	203-400-5	106-46-7									
57		2,2-dichloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			209-832-0	594-20-7									
58		bromodichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-856-7	75-27-4									
59		bromomethane; methylbromide				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-002-00-2	200-813-2	74-83-9									
60		bromobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-060-00-9	203-623-8	108-86-1									
61		n-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			203-209-7	104-51-8									
62		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]									
63		chlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-033-00-1	203-628-5	108-90-7									
64		carbon tetrachloride; tetrachloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-008-00-5	200-262-8	56-23-5									
65		chloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-009-00-0	200-830-5	75-00-3									
66		chloroform; trichloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-006-00-4	200-663-8	67-66-3									
67		chloromethane; methyl chloride				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-001-00-7	200-817-4	74-87-3									
68		dibromochloromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			204-704-0	124-48-1									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
70		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
71		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
72		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
73		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
74		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
75		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
76		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
77		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
78		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
79		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
80		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
81		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
82		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
83		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
84		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
85		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
86		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
87		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
88		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
89		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
90		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
91		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
92		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
93		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
94		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
95		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									
96		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
97		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
98		2-methyl naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-078-3	91-57-6									
99		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
100		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
101		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
102		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
103		dibenzofuran				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-071-3	132-64-9									
104		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
105		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
106		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
107		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
108		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
109		carbazole				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-696-0	86-74-8									
110		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
111		anthraquinone				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		606-151-00-4	201-549-0	84-65-1									
112		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
113		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
114		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
115		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.0342 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP15-1-18022022-0.10

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP15-1-18022022-0.10
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
2		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
3		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
4		anthracene		204-371-1	120-12-7		0.67	mg/kg		0.583	mg/kg	0.0000583 %	✓	
5		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		22	mg/kg	1.32	25.271	mg/kg	0.00253 %	✓	
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2	mg/kg		1.74	mg/kg	0.000174 %	✓	
8		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.3	mg/kg		2.001	mg/kg	0.0002 %	✓	
9		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2.1	mg/kg		1.827	mg/kg	0.000183 %	✓	
10		benzo[ghi]perylene		205-883-8	191-24-2		1.4	mg/kg		1.218	mg/kg	0.000122 %	✓	
11		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		1.1	mg/kg		0.957	mg/kg	0.0000957 %	✓	
12		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.7	mg/kg	2.775	1.69	mg/kg	0.000169 %	✓	
13		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.6	mg/kg	13.43	7.01	mg/kg	0.000701 %	✓	
14		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
15		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		16	mg/kg	1.462	23.385	mg/kg	0.00234 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
17		chrysene	601-048-00-0	205-923-4	218-01-9		1.9	mg/kg		1.653	mg/kg	0.000165 %	✓	
18		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15	mg/kg	1.126	14.693	mg/kg	0.00147 %	✓	
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
20		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.32	mg/kg		0.278	mg/kg	0.0000278 %	✓	
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
22		fluoranthene		205-912-4	206-44-0		4.2	mg/kg		3.654	mg/kg	0.000365 %	✓	
23		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
24		indeno[123-cd]pyrene		205-893-2	193-39-5		1.2	mg/kg		1.044	mg/kg	0.000104 %	✓	
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	28	mg/kg		24.36	mg/kg	0.00244 %	✓	
26		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
27		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.0001	mg/kg		<0.0001	mg/kg	<0.00000001 %		<**LOD**
28		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		20	mg/kg	1.579	27.483	mg/kg	0.00275 %	✓	
29		pH			PH		8.2	pH		8.2	pH	8.2 pH		
30		phenanthrene		201-581-5	85-01-8		3.2	mg/kg		2.784	mg/kg	0.000278 %	✓	
31		phenol	604-001-00-2	203-632-7	108-95-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
32		pyrene		204-927-3	129-00-0		3.6	mg/kg		3.132	mg/kg	0.000313 %	✓	
33		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
36		TPH (C6 to C40) petroleum group			TPH		50	mg/kg		43.5	mg/kg	0.00435 %	✓	
37		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
38		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
39		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		60	mg/kg	1.245	64.974	mg/kg	0.0065 %	✓	
40		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]											
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<LOD
42		monohydric phenols											
				P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
43		vanadium { divanadium pentaoxide; vanadium pentoxide }											
		023-001-00-8	215-239-8	1314-62-1		39	mg/kg	1.785	60.571	mg/kg	0.00606 %	✓	
44		1,1,1-trichloroethane; methyl chloroform											
		602-013-00-2	200-756-3	71-55-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
45		1,1,2,2-tetrachloroethane											
		602-015-00-3	201-197-8	79-34-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
46		1,1,2-trichloroethane											
		602-014-00-8	201-166-9	79-00-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
47		1,1-dichloroethylene; vinylidene chloride											
		602-025-00-8	200-864-0	75-35-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
48		1,1-dichloropropene											
		602-031-00-0	209-253-3	563-58-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
49		1,2,3-trichlorobenzene											
			201-757-1	87-61-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
50		1,2,4-trimethylbenzene											
		601-043-00-3	202-436-9	95-63-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
51		1,2-dibromoethane											
		602-010-00-6	203-444-5	106-93-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
52		1,2-dichlorobenzene; o-dichlorobenzene											
		602-034-00-7	202-425-9	95-50-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
53		1,2-dichloropropane; propylene dichloride											
		602-020-00-0	201-152-2	78-87-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
54		1,3-dichlorbenzene											
		602-067-00-7	208-792-1	541-73-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
55		1,3-dichloropropane											
			205-531-3	142-28-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
56		1,4-dichlorobenzene; p-dichlorobenzene											
		602-035-00-2	203-400-5	106-46-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
57		2,2-dichloropropane											
			209-832-0	594-20-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
58		bromodichloromethane											
			200-856-7	75-27-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
59		bromomethane; methylbromide											
		602-002-00-2	200-813-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
60		bromobenzene											
		602-060-00-9	203-623-8	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
61		n-butylbenzene											
			203-209-7	104-51-8		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
62		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]											
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
63		chlorobenzene											
		602-033-00-1	203-628-5	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
64		carbon tetrachloride; tetrachloromethane											
		602-008-00-5	200-262-8	56-23-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
65		chloroethane											
		602-009-00-0	200-830-5	75-00-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
66		chloroform; trichloromethane											
		602-006-00-4	200-663-8	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
67		chloromethane; methyl chloride											
		602-001-00-7	200-817-4	74-87-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
68		dibromochloromethane											
			204-704-0	124-48-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
70		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
71		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
72		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
73		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
74		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
75		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
76		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
77		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
78		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
79		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
80		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
81		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
82		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
83		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
84		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
85		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
86		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
87		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
88		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
89		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
90		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
91		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
92		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
93		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
94		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
95		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									
96		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
97		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
98		2-methyl naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-078-3	91-57-6									
99		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
100		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
101		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
102		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
103		dibenzofuran				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-071-3	132-64-9									
104		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
105		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
106		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
107		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
108		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
109		carbazole				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-696-0	86-74-8									
110		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
111		anthraquinone				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		606-151-00-4	201-549-0	84-65-1									
112		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
113		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
114		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
115		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.0328 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No free product. Samples wet and unlikely to be hazardous

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00435%)

Classification of sample: TP17-1-18022022-0.70

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP17-1-18022022-0.70
Moisture content:
11%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		1,1-dichloroethane and 1,2-dichloroethane (combined)		203-458-1, 200-863-5	107-06-2, 75-34-3		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
2		acenaphthene		201-469-6	83-32-9		0.29	mg/kg		0.258	mg/kg	0.0000258 %	✓	
3		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
4		anthracene		204-371-1	120-12-7		0.75	mg/kg		0.668	mg/kg	0.0000668 %	✓	
5		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		23	mg/kg	1.32	27.027	mg/kg	0.0027 %	✓	
6		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
7		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		2.2	mg/kg		1.958	mg/kg	0.000196 %	✓	
8		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.1	mg/kg		1.869	mg/kg	0.000187 %	✓	
9		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2.2	mg/kg		1.958	mg/kg	0.000196 %	✓	
10		benzo[ghi]perylene		205-883-8	191-24-2		1.3	mg/kg		1.157	mg/kg	0.000116 %	✓	
11		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.96	mg/kg		0.854	mg/kg	0.0000854 %	✓	
12		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.89	mg/kg	2.775	2.198	mg/kg	0.00022 %	✓	
13		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.4	mg/kg	13.43	4.781	mg/kg	0.000478 %	✓	
14		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<**LOD**
15		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22	mg/kg	1.462	32.154	mg/kg	0.00322 %		

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
16		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<**LOD**
17		chrysene	601-048-00-0	205-923-4	218-01-9		1.9	mg/kg		1.691	mg/kg	0.000169 %	✓	
18		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		14	mg/kg	1.126	14.029	mg/kg	0.0014 %	✓	
19		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
20		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.28	mg/kg		0.249	mg/kg	0.0000249 %	✓	
21		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
22		fluoranthene		205-912-4	206-44-0		4.9	mg/kg		4.361	mg/kg	0.000436 %	✓	
23		fluorene		201-695-5	86-73-7		0.24	mg/kg		0.214	mg/kg	0.0000214 %	✓	
24		indeno[123-cd]pyrene		205-893-2	193-39-5		1.1	mg/kg		0.979	mg/kg	0.0000979 %	✓	
25		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	32	mg/kg		28.48	mg/kg	0.00285 %	✓	
26		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
27		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.0001	mg/kg		<0.0001	mg/kg	<0.00000001 %		<**LOD**
28		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		22	mg/kg	1.579	30.927	mg/kg	0.00309 %	✓	
29		pH			PH		8.3	pH		8.3	pH	8.3 pH		
30		phenanthrene		201-581-5	85-01-8		2.8	mg/kg		2.492	mg/kg	0.000249 %	✓	
31		phenol	604-001-00-2	203-632-7	108-95-2		<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<**LOD**
32		pyrene		204-927-3	129-00-0		4.1	mg/kg		3.649	mg/kg	0.000365 %	✓	
33		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
34		tetrachloroethylene	602-028-00-4	204-825-9	127-18-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
35		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
36		TPH (C6 to C40) petroleum group			TPH		52	mg/kg		46.28	mg/kg	0.00463 %	✓	
37		trichloroethylene; trichloroethene	602-027-00-9	201-167-4	79-01-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
38		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.004	mg/kg		<0.004	mg/kg	<0.0000004 %		<**LOD**
39		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		59	mg/kg	1.245	65.36	mg/kg	0.00654 %	✓	
40		hexachlorobenzene	602-065-00-6	204-273-9	118-74-1		<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
41		m-cresol; [1] o-cresol; [2] p-cresol; [3] mix-cresol [4]											
		604-004-00-9	203-577-9 [1] 202-423-8 [2] 203-398-6 [3] 215-293-2 [4]	108-39-4 [1] 95-48-7 [2] 106-44-5 [3] 1319-77-3 [4]		<0.5	mg/kg		<0.5	mg/kg	<0.00005 %		<**LOD**
42		monohydric phenols											
				P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
43		vanadium { divanadium pentaoxide; vanadium pentoxide }											
		023-001-00-8	215-239-8	1314-62-1		56	mg/kg	1.785	88.974	mg/kg	0.0089 %	✓	
44		1,1,1-trichloroethane; methyl chloroform											
		602-013-00-2	200-756-3	71-55-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
45		1,1,2,2-tetrachloroethane											
		602-015-00-3	201-197-8	79-34-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
46		1,1,2-trichloroethane											
		602-014-00-8	201-166-9	79-00-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
47		1,1-dichloroethylene; vinylidene chloride											
		602-025-00-8	200-864-0	75-35-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
48		1,1-dichloropropene											
		602-031-00-0	209-253-3	563-58-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
49		1,2,3-trichlorobenzene											
			201-757-1	87-61-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
50		1,2,4-trimethylbenzene											
		601-043-00-3	202-436-9	95-63-6		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
51		1,2-dibromoethane											
		602-010-00-6	203-444-5	106-93-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
52		1,2-dichlorobenzene; o-dichlorobenzene											
		602-034-00-7	202-425-9	95-50-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
53		1,2-dichloropropane; propylene dichloride											
		602-020-00-0	201-152-2	78-87-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
54		1,3-dichlorbenzene											
		602-067-00-7	208-792-1	541-73-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
55		1,3-dichloropropane											
			205-531-3	142-28-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
56		1,4-dichlorobenzene; p-dichlorobenzene											
		602-035-00-2	203-400-5	106-46-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
57		2,2-dichloropropane											
			209-832-0	594-20-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
58		bromodichloromethane											
			200-856-7	75-27-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
59		bromomethane; methylbromide											
		602-002-00-2	200-813-2	74-83-9		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
60		bromobenzene											
		602-060-00-9	203-623-8	108-86-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
61		n-butylbenzene											
			203-209-7	104-51-8		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
62		1,3-dichloropropene; [1] (Z)-1,3-dichloropropene [2]											
		602-030-00-5	208-826-5 [1] 233-195-8 [2]	542-75-6 [1] 10061-01-5 [2]		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
63		chlorobenzene											
		602-033-00-1	203-628-5	108-90-7		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
64		carbon tetrachloride; tetrachloromethane											
		602-008-00-5	200-262-8	56-23-5		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
65		chloroethane											
		602-009-00-0	200-830-5	75-00-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
66		chloroform; trichloromethane											
		602-006-00-4	200-663-8	67-66-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
67		chloromethane; methyl chloride											
		602-001-00-7	200-817-4	74-87-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
68		dibromochloromethane											
			204-704-0	124-48-1		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
69		1,2-dibromo-3-chloropropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-021-00-6	202-479-3	96-12-8									
70		dibromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-003-00-8	200-824-2	74-95-3									
71		hexachlorobutadiene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			201-765-5	87-68-3									
72		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
73		4-isopropyltoluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-796-7	99-87-6									
74		sec-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			205-227-0	135-98-8									
75		styrene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-026-00-0	202-851-5	100-42-5									
76		trans-1,3-dichloropropene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			431-460-4	10061-02-6									
77		tert-butylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			202-632-4	98-06-6									
78		bromoform; tribromomethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-007-00-X	200-854-6	75-25-2									
79		1,2,4-trichlorobenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-087-00-6	204-428-0	120-82-1									
80		1,1,1,2-tetrachloroethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			211-135-1	630-20-6									
81		trichlorofluoromethane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
			200-892-3	75-69-4									
82		mesitylene; 1,3,5-trimethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-025-00-5	203-604-4	108-67-8									
83		vinyl chloride; chloroethylene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		602-023-00-7	200-831-0	75-01-4									
84		aniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-008-00-7	200-539-3	62-53-3									
85		2-chlorophenol; [1] 4-chlorophenol; [2] 3-chlorophenol; [3] chlorophenol [4]				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-008-00-0	202-433-2 [1] 203-402-6 [2] 203-582-6 [3] 246-691-4 [4]	95-57-8 [1] 106-48-9 [2] 108-43-0 [3] 25167-80-0 [4]									
86		bis(2-chloroethyl) ether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		603-029-00-2	203-870-1	111-44-4									
87		hexachloroethane				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			200-666-4	67-72-1									
88		nitrobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		609-003-00-7	202-716-0	98-95-3									
89		3,5,5-trimethylcyclohex-2-enone; isophorone				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		606-012-00-8	201-126-0	78-59-1									
90		2-nitrophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-857-5	88-75-5									
91		3,4-xylenol; [1] 2,5-xylenol; [2] 2,4-xylenol; [3] 2,3-xylenol; [4] 2,6-xylenol; [5] xylenol; [6] 2,4(or 2,5)-xylenol [7]				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-006-00-X	202-439-5 [1] 202-461-5 [2] 203-321-6 [3] 208-395-3 [4] 209-400-1 [5] 215-089-3 [6] 276-245-4 [7]	95-65-8 [1] 95-87-4 [2] 105-67-9 [3] 526-75-0 [4] 576-26-1 [5] 1300-71-6 [6] 71975-58-1 [7]									
92		bis(2-chloroethoxy)methane				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			203-920-2	111-91-1									
93		2,4-dichlorophenol				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		604-011-00-7	204-429-6	120-83-2									

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
94		4-chloroaniline				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		612-137-00-9	203-401-0	106-47-8									
95		chlorocresol; 4-chloro-m-cresol; 4-chloro-3-methylphenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-014-00-3	200-431-6	59-50-7									
96		2,4,6-trichlorophenol				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		604-018-00-5	201-795-9	88-06-2									
97		2,4,5-trichlorophenol				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		604-017-00-X	202-467-8	95-95-4									
98		2-methyl naphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-078-3	91-57-6									
99		2-chloronaphthalene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			202-079-9	91-58-7									
100		dimethyl phthalate				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
			205-011-6	131-11-3									
101		2,6-dinitrotoluene				<0.1	mg/kg		<0.1	mg/kg	<0.00001 %		<LOD
		609-049-00-8	210-106-0	606-20-2									
102		2,4-dinitrotoluene; [1] dinitrotoluene [2]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		609-007-00-9	204-450-0 [1] 246-836-1 [2]	121-14-2 [1] 25321-14-6 [2]									
103		dibenzofuran				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			205-071-3	132-64-9									
104		4-chlorophenylphenylether				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			230-281-7	7005-72-3									
105		diethyl phthalate				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			201-550-6	84-66-2									
106		o-nitroaniline; [1] m-nitroaniline; [2] p-nitroaniline [3]				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		612-012-00-9	201-855-4 [1] 202-729-1 [2] 202-810-1 [3]	88-74-4 [1] 99-09-2 [2] 100-01-6 [3]									
107		azobenzene				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		611-001-00-6	203-102-5	103-33-3									
108		4-bromophenylphenylether				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
			202-952-4	101-55-3									
109		carbazole				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
			201-696-0	86-74-8									
110		dibutyl phthalate; DBP				<0.2	mg/kg		<0.2	mg/kg	<0.00002 %		<LOD
		607-318-00-4	201-557-4	84-74-2									
111		anthraquinone				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		606-151-00-4	201-549-0	84-65-1									
112		BBP; benzyl butyl phthalate				<0.3	mg/kg		<0.3	mg/kg	<0.00003 %		<LOD
		607-430-00-3	201-622-7	85-68-7									
113		2-chlorotoluene; [1] 3-chlorotoluene; [2] 4-chlorotoluene; [3] chlorotoluene [4]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-040-00-X	202-424-3 [1] 203-580-5 [2] 203-397-0 [3] 246-698-2 [4]	95-49-8 [1] 108-41-8 [2] 106-43-4 [3] 25168-05-2 [4]									
114		1,2-dichloroethylene; [1] cis-dichloroethylene; [2] trans-dichloroethylene [3]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		602-026-00-3	208-750-2 [1] 205-859-7 [2] 205-860-2 [3]	540-59-0 [1] 156-59-2 [2] 156-60-5 [3]									
115		cumene; [1] propylbenzene [2]				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-024-00-X	202-704-5 [1] 203-132-9 [2]	98-82-8 [1] 103-65-1 [2]									
										Total:	0.0377 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No free product. Samples wet and unlikely to be hazardous

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00463%)

Appendix A: Classifier defined and non GB MCL determinands

- **1,1-dichloroethane and 1,2-dichloroethane (combined)** (EC Number: 203-458-1, 200-863-5, CAS Number: 107-06-2, 75-34-3)

Description/Comments: Combines the hazard statements and risk phrases for 1,1-dichloroethane and 1,2-dichloroethane
Data source: N/a
Data source date: 14 Oct 2016
Hazard Statements: Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 1B; H350 , Aquatic Chronic 3; H412

- **acenaphthene** (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

- **acenaphthylene** (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

- **anthracene** (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **benzo[ghi]perylene** (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **boron tribromide/trichloride/trifluoride (combined)** (CAS Number: 10294-33-4, 10294-34-5, 7637-07-2)

Description/Comments: Combines the hazard statements and the average of the conversion factors for boron tribromide, boron trichloride and boron trifluoride
Data source: N/A
Data source date: 06 Aug 2015
Hazard Statements: EUH014 , Acute Tox. 2; H330 , Acute Tox. 2; H300 , Skin Corr. 1A; H314 , Skin Corr. 1B; H314

- **chromium(III) oxide (worst case)** (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex**

GB MCL index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

- **ethylbenzene** (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

- **fluoranthene** (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

lead compounds with the exception of those specified elsewhere in this Annex

GB MCL index number: 082-001-00-6
Description/Comments: Least-worst case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers many simple lead compounds to be Carcinogenic category 2
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html. Review date 29/09/2015

pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

monohydric phenols (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)
Data source: CLP combined data
Data source date: 26 Mar 2019
Hazard Statements: Muta. 2; H341 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301 , STOT RE 2; H373 , Skin Corr. 1B; H314 , Skin Corr. 1B; H314 >= 3 % , Skin Irrit. 2; H315 1 £ conc. < 3 % , Eye Irrit. 2; H319 1 £ conc. < 3 % , Aquatic Chronic 2; H411

divanadium pentaoxide; vanadium pentoxide (EC Number: 215-239-8, CAS Number: 1314-62-1)

EU CLP index number: 023-001-00-8
Description/Comments:
Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)
Hazard Statements: Muta. 2; H341 , Repr. 2; H361d , STOT RE 1; H372 , Acute Tox. 4; H332 , Acute Tox. 4; H302 , STOT SE 3; H335 , Aquatic Chronic 2; H411

1,2,3-trichlorobenzene (EC Number: 201-757-1, CAS Number: 87-61-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 3; H410

- **1,3-dichloropropane** (EC Number: 205-531-3, CAS Number: 142-28-9)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335

- **2,2-dichloropropane** (EC Number: 209-832-0, CAS Number: 594-20-7)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H332 , Flam. Liq. 2; H225 , Acute Tox. 4; H302 , Acute Tox. 4; H312 , Eye Irrit. 2; H319

- **bromodichloromethane** (EC Number: 200-856-7, CAS Number: 75-27-4)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 1A; H360

- **n-butylbenzene** (EC Number: 203-209-7, CAS Number: 104-51-8)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **dibromochloromethane** (EC Number: 204-704-0, CAS Number: 124-48-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT SE 3; H336 , Muta. 2; H341 , Aquatic Chronic 2; H411

- **hexachlorobutadiene** (EC Number: 201-765-5, CAS Number: 87-68-3)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 3;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 2; H310 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 2; H330 , Carc. 2; H351 , Repr. 2; H361 , STOT SE 2; H371 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

- **4-isopropyltoluene** (EC Number: 202-796-7, CAS Number: 99-87-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Chronic 2; H411

- **sec-butylbenzene** (EC Number: 205-227-0, CAS Number: 135-98-8)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Aquatic Chronic 2; H411

- **trans-1,3-dichloropropene** (EC Number: 431-460-4, CAS Number: 10061-02-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Acute Tox. 3; H301 , Asp. Tox. 1; H304 , Acute Tox. 3; H311 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , Aquatic Chronic 1; H410

- **tert-butylbenzene** (EC Number: 202-632-4, CAS Number: 98-06-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Flam. Liq. 3; H226 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Acute Tox. 4; H332 , STOT SE 3; H335 , Asp. Tox. 1; H304 , Aquatic Chronic 2; H411

1,1,1,2-tetrachloroethane (EC Number: 211-135-1, CAS Number: 630-20-6)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , Eye Dam. 1; H318 , Acute Tox. 4; H332 , Carc. 2; H351 , Acute Tox. 4; H312 , Aquatic Chronic 3; H412 , Skin Irrit. 2; H315

trichlorofluoromethane (EC Number: 200-892-3, CAS Number: 75-69-4)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H312 , Ozone 1; H420

hexachloroethane (EC Number: 200-666-4, CAS Number: 67-72-1)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , STOT RE 2; H373

2-nitrophenol (EC Number: 201-857-5, CAS Number: 88-75-5)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 4; H332 , STOT SE 3; H335 , STOT RE 2; H373 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

bis(2-chloroethoxy)methane (EC Number: 203-920-2, CAS Number: 111-91-1)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 3; H301 , Acute Tox. 4; H312 , Acute Tox. 1; H330 , Acute Tox. 2; H330 , STOT SE 1; H370 , STOT RE 2; H373

2-methyl naphthalene (EC Number: 202-078-3, CAS Number: 91-57-6)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , STOT SE 3; H336 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

2-chloronaphthalene (EC Number: 202-079-9, CAS Number: 91-58-7)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

dimethyl phthalate (EC Number: 205-011-6, CAS Number: 131-11-3)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , Acute Tox. 3; H331 , STOT SE 3; H335 , STOT SE 3; H336 , Repr. 2; H361 , Aquatic Chronic 3; H412

dibenzofuran (EC Number: 205-071-3, CAS Number: 132-64-9)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 4; H312 , Acute Tox. 4; H332 , Aquatic Chronic 2; H411

4-chlorophenylphenylether (EC Number: 230-281-7, CAS Number: 7005-72-3)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

diethyl phthalate (EC Number: 201-550-6, CAS Number: 84-66-2)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Skin Irrit. 2; H315 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , STOT SE 3; H335 , STOT RE 2; H373 , Repr. 2; H361 , Acute Tox. 4; H302 , STOT SE 3; H336 , Skin Sens. 1; H317 , Aquatic Chronic 1; H410

4-bromophenylphenylether (EC Number: 202-952-4, CAS Number: 101-55-3)

Description/Comments: VOC; Data from C&L Inventory Database
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Eye Dam. 1; H318 , Eye Irrit. 2; H319 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

carbazole (EC Number: 201-696-0, CAS Number: 86-74-8)

Description/Comments: VOC; Data from C&L Inventory Database; IARC considers substance Group 2B;
Data source: https://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 02 Mar 2017
Hazard Statements: Acute Tox. 4; H302 , Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Muta. 2; H341 , Carc. 2; H351 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species based on hazard statements

beryllium {beryllium oxide}

Worst case species based on hazard statements

boron {boron tribromide/trichloride/trifluoride (combined)}

Worst case species based on hazard statements

cadmium {cadmium sulfide}

Worst case species based on hazard statements

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Worst case species based on hazard statements

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case species based on hazard statements

copper {dicopper oxide; copper (I) oxide}

Most likely common species

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Worst case species

lead {lead compounds with the exception of those specified elsewhere in this Annex}

Worst case species based on hazard statements

mercury {mercury dichloride}

Worst case species based on hazard statements

nickel {nickel dihydroxide}

Worst case species based on hazard statements

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Worst case species based on hazard statements

zinc {zinc oxide}

Worst case species based on hazard statements

vanadium {divanadium pentaoxide; vanadium pentoxide}

Worst case species based on hazard statements.

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2017.202.300.300 (23 Mar 2022)
HazWasteOnline Database: 2022.81.5064.9565 (22 Mar 2022)

This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021

Waste Classification Report

HazWasteOnline™ classifies waste as either **hazardous** or **non-hazardous** based on its chemical composition, related legislation and the rules and data defined in the current UK or EU technical guidance (Appendix C) (note that HP 9 Infectious is not assessed). It is the responsibility of the classifier named below to:

a) understand the origin of the waste
b) select the correct List of Waste code(s)
c) confirm that the list of determinands, results and sampling plan are fit for purpose
d) select and justify the chosen metal species (Appendix B)
e) correctly apply moisture correction and other available corrections
f) add the meta data for their user-defined substances (Appendix A)
g) check that the classification engine is suitable with respect to the national destination of the waste (Appendix C)

To aid the reviewer, the laboratory results, assumptions and justifications managed by the classifier are highlighted in pale yellow.

4Q3TY-F1Y17-T8HU3

Job name

22-44538_HWOL_Results

Description/Comments

Lab Cert 22-44538

Project

22-44538

Site

Bicester Motion

Classified by

Name:
Nathan Thompson
Date:
23 Mar 2022 09:13 GMT
Telephone:
07557 345 513

Company:
Hydrock Consultants Ltd
Hawthorn Park
Holdenby Road, Spratton
Northampton
NN6 8LD

HazWasteOnline™ provides a two day, hazardous waste classification course that covers the use of the software and both basic and advanced waste classification techniques. Certification has to be renewed every 3 years.

HazWasteOnline™ Certification: **CERTIFIED**

Course	Date
Hazardous Waste Classification	22 Apr 2021

Next 3 year Refresher due by Apr 2024

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	RO102--14022022-0.20		Non Hazardous		2
2	RO103--14022022-0.20		Non Hazardous		5
3	TP101--15022022-0.30		Non Hazardous		8
4	TP102--17022022-0.15		Non Hazardous		11
5	TP104--17022022-0.30		Non Hazardous		14
6	TP106--17022022-0.20		Non Hazardous		17
7	TP108--15022022-0.25		Non Hazardous		20
8	TP112--15022022-0.10		Non Hazardous		23
9	TP114--18022022-0.10		Non Hazardous		26

Related documents

#	Name	Description
1	22-44538_HWOL_Results.hwol	.hwol file used to create the Job
2	Hydrock Standard plus Cresol (ammended Lead)	waste stream template used to create this Job

Report

Created by: Nathan Thompson

Created date: 23 Mar 2022 09:13 GMT

Classification of sample: RO102--14022022-0.20

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
RO102--14022022-0.20
Moisture content:
11%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 11% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19 mg/kg	1.32	22.327 mg/kg	0.00223 %	✓	
5	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.95 mg/kg	2.775	2.347 mg/kg	0.000235 %	✓	
12	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.1 mg/kg	13.43	13.148 mg/kg	0.00131 %	✓	
13	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22 mg/kg	1.462	32.154 mg/kg	0.00322 %		
15	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
16	chrysene	601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
17		copper { dicopper oxide; copper (I) oxide }				18	mg/kg	1.126	18.037	mg/kg	0.0018 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
20		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
21		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
22		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
23		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	41	mg/kg		36.49	mg/kg	0.00365 %	✓	
		082-001-00-6											
25		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
26		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
27		nickel { nickel dihydroxide }				23	mg/kg	1.579	32.332	mg/kg	0.00323 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
28		pH				8.9	pH		8.9	pH	8.9 pH		
				PH									
29		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
30		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
		034-002-00-8											
32		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
33		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
34		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
35		zinc { zinc oxide }				62	mg/kg	1.245	68.683	mg/kg	0.00687 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
36		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				53	mg/kg	1.785	84.207	mg/kg	0.00842 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
										Total:	0.0328 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: RO103--14022022-0.20

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
RO103--14022022-0.20
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2		acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3		anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	19.079 mg/kg	0.00191 %	✓	
5		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.2 mg/kg		1.02 mg/kg	0.000102 %	✓	
7		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		2.4 mg/kg		2.04 mg/kg	0.000204 %	✓	
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2.2 mg/kg		1.87 mg/kg	0.000187 %	✓	
9		benzo[ghi]perylene		205-883-8	191-24-2		1.7 mg/kg		1.445 mg/kg	0.000145 %	✓	
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.73 mg/kg		0.62 mg/kg	0.000062 %	✓	
11		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.4 mg/kg	2.775	3.303 mg/kg	0.00033 %	✓	
12		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.8 mg/kg	13.43	20.548 mg/kg	0.00205 %	✓	
13		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	1.4 mg/kg	1.285	1.529 mg/kg	0.000119 %	✓	
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		18 mg/kg	1.462	26.308 mg/kg	0.00263 %		
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
16		chrysene	601-048-00-0	205-923-4	218-01-9		1.1 mg/kg		0.935 mg/kg	0.0000935 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
17		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		32	mg/kg	1.126	30.624	mg/kg	0.00306 %	✓	
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
19		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.35	mg/kg		0.298	mg/kg	0.0000298 %	✓	
20		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
21		fluoranthene		205-912-4	206-44-0		1.5	mg/kg		1.275	mg/kg	0.000127 %	✓	
22		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
23		indeno[123-cd]pyrene		205-893-2	193-39-5		1.4	mg/kg		1.19	mg/kg	0.000119 %	✓	
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	41	mg/kg		34.85	mg/kg	0.00349 %	✓	
25		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
26		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
27		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		24	mg/kg	1.579	32.222	mg/kg	0.00322 %	✓	
28		pH			PH		8.2	pH		8.2	pH	8.2 pH		
29		phenanthrene		201-581-5	85-01-8		0.57	mg/kg		0.484	mg/kg	0.0000484 %	✓	
30		pyrene		204-927-3	129-00-0		1.5	mg/kg		1.275	mg/kg	0.000127 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
32		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
33		TPH (C6 to C40) petroleum group			TPH		21	mg/kg		17.85	mg/kg	0.00179 %	✓	
34		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
35		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		42	mg/kg	1.245	44.436	mg/kg	0.00444 %	✓	
36		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		50	mg/kg	1.785	75.87	mg/kg	0.00759 %	✓	
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
											Total:	0.0326 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No free product. Samples are wet.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00179%)

Classification of sample: TP101--15022022-0.30

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP101--15022022-0.30
Moisture content:
13%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 13% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		19 mg/kg	1.32	21.825 mg/kg	0.00218 %	✓	
5	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.84 mg/kg	2.775	2.028 mg/kg	0.000203 %	✓	
12	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.3 mg/kg	13.43	3.505 mg/kg	0.000351 %	✓	
13	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		21 mg/kg	1.462	30.693 mg/kg	0.00307 %		
15	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
16	chrysene	601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
17		copper { dicopper oxide; copper (I) oxide }				10	mg/kg	1.126	9.795	mg/kg	0.00098 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
20		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
21		fluoranthene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-912-4	206-44-0									
22		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
23		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	13	mg/kg		11.31	mg/kg	0.00113 %	✓	
		082-001-00-6											
25		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
26		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
27		nickel { nickel dihydroxide }				19	mg/kg	1.579	26.109	mg/kg	0.00261 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
28		pH				8.3	pH		8.3	pH	8.3 pH		
				PH									
29		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
30		pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			204-927-3	129-00-0									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
		034-002-00-8											
32		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
33		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
34		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
35		zinc { zinc oxide }				29	mg/kg	1.245	31.404	mg/kg	0.00314 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
36		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				53	mg/kg	1.785	82.315	mg/kg	0.00823 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
										Total:	0.0237 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP102--17022022-0.15

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP102--17022022-0.15
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
2		acenaphthylene		205-917-1	208-96-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
3		anthracene		204-371-1	120-12-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		21	mg/kg	1.32	23.845	mg/kg	0.00238 %	✓	
5		benzene	601-020-00-8	200-753-7	71-43-2		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
7		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
9		benzo[ghi]perylene		205-883-8	191-24-2		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
11		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1	mg/kg	2.775	2.387	mg/kg	0.000239 %	✓	
12		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.5	mg/kg	13.43	5.775	mg/kg	0.000577 %	✓	
13		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2	mg/kg	1.285	<0.257	mg/kg	<0.00002 %		<LOD
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		26	mg/kg	1.462	38	mg/kg	0.0038 %		
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2	mg/kg	1.923	<2.308	mg/kg	<0.000231 %		<LOD
16		chrysene	601-048-00-0	205-923-4	218-01-9		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
17		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		15	mg/kg	1.126	14.524	mg/kg	0.00145 %	✓	
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
19		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
20		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
21		fluoranthene		205-912-4	206-44-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
22		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
23		indeno[123-cd]pyrene		205-893-2	193-39-5		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	23	mg/kg		19.78	mg/kg	0.00198 %	✓	
25		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
26		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		21	mg/kg	1.579	28.526	mg/kg	0.00285 %	✓	
28		pH			PH		8.2	pH		8.2	pH	8.2 pH		
29		phenanthrene		201-581-5	85-01-8		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
30		pyrene		204-927-3	129-00-0		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
32		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
33		TPH (C6 to C40) petroleum group			TPH		<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
34		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		42	mg/kg	1.245	44.959	mg/kg	0.0045 %	✓	
36		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		63	mg/kg	1.785	96.721	mg/kg	0.00967 %	✓	
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
											Total:	0.0293 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP104--17022022-0.30

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP104--17022022-0.30
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		24 mg/kg	1.32	27.252 mg/kg	0.00273 %	✓	
5	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.4 mg/kg		0.344 mg/kg	0.0000344 %	✓	
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.43 mg/kg		0.37 mg/kg	0.000037 %	✓	
8	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.47 mg/kg		0.404 mg/kg	0.0000404 %	✓	
9	benzo[ghi]perylene		205-883-8	191-24-2		0.28 mg/kg		0.241 mg/kg	0.0000241 %	✓	
10	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.23 mg/kg		0.198 mg/kg	0.0000198 %	✓	
11	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.2 mg/kg	2.775	2.864 mg/kg	0.000286 %	✓	
12	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.7 mg/kg	13.43	8.085 mg/kg	0.000808 %	✓	
13	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		30 mg/kg	1.462	43.847 mg/kg	0.00438 %		
15	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
16	chrysene	601-048-00-0	205-923-4	218-01-9		0.34 mg/kg		0.292 mg/kg	0.0000292 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
17		copper { dicopper oxide; copper (I) oxide }				13	mg/kg	1.126	12.587	mg/kg	0.00126 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
20		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
21		fluoranthene				0.67	mg/kg		0.576	mg/kg	0.0000576 %	✓	
			205-912-4	206-44-0									
22		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
23		indeno[123-cd]pyrene				0.25	mg/kg		0.215	mg/kg	0.0000215 %	✓	
			205-893-2	193-39-5									
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	27	mg/kg		23.22	mg/kg	0.00232 %	✓	
		082-001-00-6											
25		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
26		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
27		nickel { nickel dihydroxide }				24	mg/kg	1.579	32.601	mg/kg	0.00326 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
28		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
29		phenanthrene				0.24	mg/kg		0.206	mg/kg	0.0000206 %	✓	
			201-581-5	85-01-8									
30		pyrene				0.62	mg/kg		0.533	mg/kg	0.0000533 %	✓	
			204-927-3	129-00-0									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
		034-002-00-8											
32		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
33		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
34		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
35		zinc { zinc oxide }				46	mg/kg	1.245	49.241	mg/kg	0.00492 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
36		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				73	mg/kg	1.785	112.074	mg/kg	0.0112 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
										Total:	0.0333 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP106--17022022-0.20

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP106--17022022-0.20
Moisture content:
15%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 15% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		0.34 mg/kg		0.289 mg/kg	0.0000289 %	✓	
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		25 mg/kg	1.32	28.057 mg/kg	0.00281 %	✓	
5	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.1 mg/kg		0.935 mg/kg	0.0000935 %	✓	
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.9 mg/kg		1.615 mg/kg	0.000162 %	✓	
8	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		2 mg/kg		1.7 mg/kg	0.00017 %	✓	
9	benzo[ghi]perylene		205-883-8	191-24-2		1.4 mg/kg		1.19 mg/kg	0.000119 %	✓	
10	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.72 mg/kg		0.612 mg/kg	0.0000612 %	✓	
11	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.4 mg/kg	2.775	3.303 mg/kg	0.00033 %	✓	
12	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.1 mg/kg	13.43	12.557 mg/kg	0.00126 %	✓	
13	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		31 mg/kg	1.462	45.308 mg/kg	0.00453 %		
15	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
16	chrysene	601-048-00-0	205-923-4	218-01-9		1.1 mg/kg		0.935 mg/kg	0.0000935 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
17		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		36	mg/kg	1.126	34.452	mg/kg	0.00345 %	✓	
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<**LOD**
19		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		0.27	mg/kg		0.23	mg/kg	0.000023 %	✓	
20		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
21		fluoranthene		205-912-4	206-44-0		2	mg/kg		1.7	mg/kg	0.00017 %	✓	
22		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
23		indeno[123-cd]pyrene		205-893-2	193-39-5		1.1	mg/kg		0.935	mg/kg	0.0000935 %	✓	
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	48	mg/kg		40.8	mg/kg	0.00408 %	✓	
25		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<**LOD**
26		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<**LOD**
27		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		29	mg/kg	1.579	38.935	mg/kg	0.00389 %	✓	
28		pH			PH		8.2	pH		8.2	pH	8.2 pH		
29		phenanthrene		201-581-5	85-01-8		1.3	mg/kg		1.105	mg/kg	0.000111 %	✓	
30		pyrene		204-927-3	129-00-0		2.1	mg/kg		1.785	mg/kg	0.000179 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<**LOD**
32		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
33		TPH (C6 to C40) petroleum group			TPH		22	mg/kg		18.7	mg/kg	0.00187 %	✓	
34		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<**LOD**
35		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		67	mg/kg	1.245	70.886	mg/kg	0.00709 %	✓	
36		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<**LOD**
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		73	mg/kg	1.785	110.771	mg/kg	0.0111 %	✓	
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<**LOD**
											Total:	0.0424 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No free product. Samples are wet.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00187%)

Classification of sample: TP108--15022022-0.25

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP108--15022022-0.25
Moisture content:
17%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 17% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		23 mg/kg	1.32	25.205 mg/kg	0.00252 %	✓	
5	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
8	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
9	benzo[ghi]perylene		205-883-8	191-24-2		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
10	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
11	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.2 mg/kg	2.775	2.764 mg/kg	0.000276 %	✓	
12	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1.5 mg/kg	13.43	16.72 mg/kg	0.00167 %	✓	
13	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		29 mg/kg	1.462	42.385 mg/kg	0.00424 %		
15	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
16	chrysene	601-048-00-0	205-923-4	218-01-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
17		copper { dicopper oxide; copper (I) oxide }				17	mg/kg	1.126	15.886	mg/kg	0.00159 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
20		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
21		fluoranthene				0.33	mg/kg		0.274	mg/kg	0.0000274 %	✓	
			205-912-4	206-44-0									
22		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
23		indeno[123-cd]pyrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			205-893-2	193-39-5									
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	40	mg/kg		33.2	mg/kg	0.00332 %	✓	
		082-001-00-6											
25		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
26		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
27		nickel { nickel dihydroxide }				25	mg/kg	1.579	32.775	mg/kg	0.00328 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
28		pH				8.2	pH		8.2	pH	8.2 pH		
				PH									
29		phenanthrene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-581-5	85-01-8									
30		pyrene				0.3	mg/kg		0.249	mg/kg	0.0000249 %	✓	
			204-927-3	129-00-0									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
		034-002-00-8											
32		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
33		TPH (C6 to C40) petroleum group				<10	mg/kg		<10	mg/kg	<0.001 %		<LOD
				TPH									
34		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
35		zinc { zinc oxide }				55	mg/kg	1.245	56.821	mg/kg	0.00568 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
36		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				73	mg/kg	1.785	108.164	mg/kg	0.0108 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
										Total:	0.0352 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Classification of sample: TP112--15022022-0.10

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP112--15022022-0.10
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1		acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2		acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3		anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4		arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		18 mg/kg	1.32	20.439 mg/kg	0.00204 %	✓	
5		benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
6		benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		0.87 mg/kg		0.748 mg/kg	0.0000748 %	✓	
7		benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		0.89 mg/kg		0.765 mg/kg	0.0000765 %	✓	
8		benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		0.98 mg/kg		0.843 mg/kg	0.0000843 %	✓	
9		benzo[ghi]perylene		205-883-8	191-24-2		0.58 mg/kg		0.499 mg/kg	0.0000499 %	✓	
10		benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.49 mg/kg		0.421 mg/kg	0.0000421 %	✓	
11		beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		1.2 mg/kg	2.775	2.864 mg/kg	0.000286 %	✓	
12		boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		1 mg/kg	13.43	11.55 mg/kg	0.00115 %	✓	
13		cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
14		chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		22 mg/kg	1.462	32.154 mg/kg	0.00322 %		
15		chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
16		chrysene	601-048-00-0	205-923-4	218-01-9		0.64 mg/kg		0.55 mg/kg	0.000055 %	✓	

#		Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
17		copper { dicopper oxide; copper (I) oxide }	029-002-00-X	215-270-7	1317-39-1		30	mg/kg	1.126	29.048	mg/kg	0.0029 %	✓	
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }	006-007-00-5				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
19		dibenz[a,h]anthracene	601-041-00-2	200-181-8	53-70-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
20		ethylbenzene	601-023-00-4	202-849-4	100-41-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
21		fluoranthene		205-912-4	206-44-0		1.6	mg/kg		1.376	mg/kg	0.000138 %	✓	
22		fluorene		201-695-5	86-73-7		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
23		indeno[123-cd]pyrene		205-893-2	193-39-5		0.45	mg/kg		0.387	mg/kg	0.0000387 %	✓	
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }	082-001-00-6			1	1400	mg/kg		1204	mg/kg	0.12 %	✓	
25		mercury { mercury dichloride }	080-010-00-X	231-299-8	7487-94-7		<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
26		naphthalene	601-052-00-2	202-049-5	91-20-3		<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
27		nickel { nickel dihydroxide }	028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]		23	mg/kg	1.579	31.243	mg/kg	0.00312 %	✓	
28		pH			PH		8	pH		8	pH	8pH		
29		phenanthrene		201-581-5	85-01-8		0.45	mg/kg		0.387	mg/kg	0.0000387 %	✓	
30		pyrene		204-927-3	129-00-0		1.5	mg/kg		1.29	mg/kg	0.000129 %	✓	
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }	034-002-00-8				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
32		toluene	601-021-00-3	203-625-9	108-88-3		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
33		TPH (C6 to C40) petroleum group			TPH		11	mg/kg		9.46	mg/kg	0.000946 %	✓	
34		xylene	601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
35		zinc { zinc oxide }	030-013-00-7	215-222-5	1314-13-2		66	mg/kg	1.245	70.65	mg/kg	0.00706 %	✓	
36		monohydric phenols			P1186		<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
37		vanadium { divanadium pentaoxide; vanadium pentoxide }	023-001-00-8	215-239-8	1314-62-1		55	mg/kg	1.785	84.439	mg/kg	0.00844 %	✓	
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane	603-181-00-X	216-653-1	1634-04-4		<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
											Total:	0.151 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No free product. Samples are wet.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00094%)

Classification of sample: TP114--18022022-0.10

Non Hazardous Waste
Classified as **17 05 04**
in the List of Waste

Sample details

Sample name:
TP114--18022022-0.10
Moisture content:
14%
(wet weight correction)

LoW Code:
Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)

Hazard properties

None identified

Determinands

Moisture content: 14% Wet Weight Moisture Correction applied (MC)

#	Determinand	EU CLP index number	EC Number	CAS Number	CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
1	acenaphthene		201-469-6	83-32-9		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
2	acenaphthylene		205-917-1	208-96-8		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
3	anthracene		204-371-1	120-12-7		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
4	arsenic { arsenic trioxide }	033-003-00-0	215-481-4	1327-53-3		17 mg/kg	1.32	19.303 mg/kg	0.00193 %	✓	
5	benzene	601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
6	benzo[a]anthracene	601-033-00-9	200-280-6	56-55-3		1.3 mg/kg		1.118 mg/kg	0.000112 %	✓	
7	benzo[a]pyrene; benzo[def]chrysene	601-032-00-3	200-028-5	50-32-8		1.5 mg/kg		1.29 mg/kg	0.000129 %	✓	
8	benzo[b]fluoranthene	601-034-00-4	205-911-9	205-99-2		1.7 mg/kg		1.462 mg/kg	0.000146 %	✓	
9	benzo[ghi]perylene		205-883-8	191-24-2		1 mg/kg		0.86 mg/kg	0.000086 %	✓	
10	benzo[k]fluoranthene	601-036-00-5	205-916-6	207-08-9		0.78 mg/kg		0.671 mg/kg	0.0000671 %	✓	
11	beryllium { beryllium oxide }	004-003-00-8	215-133-1	1304-56-9		0.79 mg/kg	2.775	1.886 mg/kg	0.000189 %	✓	
12	boron { boron tribromide/trichloride/trifluoride (combined) }			10294-33-4, 10294-34-5, 7637-07-2		0.6 mg/kg	13.43	6.93 mg/kg	0.000693 %	✓	
13	cadmium { cadmium sulfide }	048-010-00-4	215-147-8	1306-23-6	1	<0.2 mg/kg	1.285	<0.257 mg/kg	<0.00002 %		<LOD
14	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }		215-160-9	1308-38-9		20 mg/kg	1.462	29.231 mg/kg	0.00292 %		
15	chromium in chromium(VI) compounds { chromium(VI) oxide }	024-001-00-0	215-607-8	1333-82-0		<1.2 mg/kg	1.923	<2.308 mg/kg	<0.000231 %		<LOD
16	chrysene	601-048-00-0	205-923-4	218-01-9		1.2 mg/kg		1.032 mg/kg	0.000103 %	✓	

#		Determinand			CLP Note	User entered data		Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
		EU CLP index number	EC Number	CAS Number									
17		copper { dicopper oxide; copper (I) oxide }				31	mg/kg	1.126	30.016	mg/kg	0.003 %	✓	
		029-002-00-X	215-270-7	1317-39-1									
18		cyanides { salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex }				<1	mg/kg	1.884	<1.884	mg/kg	<0.000188 %		<LOD
		006-007-00-5											
19		dibenz[a,h]anthracene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-041-00-2	200-181-8	53-70-3									
20		ethylbenzene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-023-00-4	202-849-4	100-41-4									
21		fluoranthene				2.5	mg/kg		2.15	mg/kg	0.000215 %	✓	
			205-912-4	206-44-0									
22		fluorene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
			201-695-5	86-73-7									
23		indeno[123-cd]pyrene				0.85	mg/kg		0.731	mg/kg	0.0000731 %	✓	
			205-893-2	193-39-5									
24		lead { lead compounds with the exception of those specified elsewhere in this Annex }			1	85	mg/kg		73.1	mg/kg	0.00731 %	✓	
		082-001-00-6											
25		mercury { mercury dichloride }				<0.3	mg/kg	1.353	<0.406	mg/kg	<0.0000406 %		<LOD
		080-010-00-X	231-299-8	7487-94-7									
26		naphthalene				<0.05	mg/kg		<0.05	mg/kg	<0.000005 %		<LOD
		601-052-00-2	202-049-5	91-20-3									
27		nickel { nickel dihydroxide }				18	mg/kg	1.579	24.451	mg/kg	0.00245 %	✓	
		028-008-00-X	235-008-5 [1] 234-348-1 [2]	12054-48-7 [1] 11113-74-9 [2]									
28		pH				8.1	pH		8.1	pH	8.1 pH		
				PH									
29		phenanthrene				1.1	mg/kg		0.946	mg/kg	0.0000946 %	✓	
			201-581-5	85-01-8									
30		pyrene				2.2	mg/kg		1.892	mg/kg	0.000189 %	✓	
			204-927-3	129-00-0									
31		selenium { selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex }				<1	mg/kg	1.405	<1.405	mg/kg	<0.000141 %		<LOD
		034-002-00-8											
32		toluene				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		601-021-00-3	203-625-9	108-88-3									
33		TPH (C6 to C40) petroleum group				26	mg/kg		22.36	mg/kg	0.00224 %	✓	
				TPH									
34		xylene				<0.002	mg/kg		<0.002	mg/kg	<0.0000002 %		<LOD
		601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]									
35		zinc { zinc oxide }				77	mg/kg	1.245	82.425	mg/kg	0.00824 %	✓	
		030-013-00-7	215-222-5	1314-13-2									
36		monohydric phenols				<1	mg/kg		<1	mg/kg	<0.0001 %		<LOD
				P1186									
37		vanadium { divanadium pentaoxide; vanadium pentoxide }				48	mg/kg	1.785	73.692	mg/kg	0.00737 %	✓	
		023-001-00-8	215-239-8	1314-62-1									
38		tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001	mg/kg		<0.001	mg/kg	<0.0000001 %		<LOD
		603-181-00-X	216-653-1	1634-04-4									
										Total:	0.0383 %		

Key	
	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated Deteminand - Unless the Determinand is Note 1, the Conversion Factor is used to calculate the compound concentration
	This determinand is defined in the EU CLP Table 3
<LOD	Below limit of detection
ND	Not detected
CLP: Note 1	Only the metal concentration has been used for classification

Supplementary Hazardous Property Information

HP 3(i): Flammable "flammable liquid waste: liquid waste having a flash point below 60°C or waste gas oil, diesel and light heating oils having a flash point > 55°C and <= 75°C"

Force this Hazardous property to non hazardous because No free product. Samples are wet.

Hazard Statements hit:

Flam. Liq. 3; H226 "Flammable liquid and vapour."

Because of determinand:

TPH (C6 to C40) petroleum group: (conc.: 0.00224%)

Appendix A: Classifier defined and non GB MCL determinands

acenaphthene (EC Number: 201-469-6, CAS Number: 83-32-9)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Aquatic Chronic 2; H411

acenaphthylene (EC Number: 205-917-1, CAS Number: 208-96-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H302 , Acute Tox. 1; H330 , Acute Tox. 1; H310 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315

anthracene (EC Number: 204-371-1, CAS Number: 120-12-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 17 Jul 2015
Hazard Statements: Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

benzo[ghi]perylene (EC Number: 205-883-8, CAS Number: 191-24-2)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 28/02/2015
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 23 Jul 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

boron tribromide/trichloride/trifluoride (combined) (CAS Number: 10294-33-4, 10294-34-5, 7637-07-2)

Description/Comments: Combines the hazard statements and the average of the conversion factors for boron tribromide, boron trichloride and boron trifluoride
Data source: N/A
Data source date: 06 Aug 2015
Hazard Statements: EUH014 , Acute Tox. 2; H330 , Acute Tox. 2; H300 , Skin Corr. 1A; H314 , Skin Corr. 1B; H314

chromium(III) oxide (worst case) (EC Number: 215-160-9, CAS Number: 1308-38-9)

Description/Comments: Data from C&L Inventory Database
Data source: https://echa.europa.eu/information-on-chemicals/cl-inventory-database/-/discli/details/33806
Data source date: 17 Jul 2015
Hazard Statements: Acute Tox. 4; H332 , Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Skin Irrit. 2; H315 , Resp. Sens. 1; H334 , Skin Sens. 1; H317 , Repr. 1B; H360FD , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex

GB MCL index number: 006-007-00-5
Description/Comments: Conversion factor based on a worst case compound: sodium cyanide
Additional Hazard Statement(s): EUH032 >= 0.2 %
Reason for additional Hazards Statement(s):
20 Nov 2021 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

ethylbenzene (EC Number: 202-849-4, CAS Number: 100-41-4)

GB MCL index number: 601-023-00-4
Description/Comments:
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

fluoranthene (EC Number: 205-912-4, CAS Number: 206-44-0)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

fluorene (EC Number: 201-695-5, CAS Number: 86-73-7)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

indeno[123-cd]pyrene (EC Number: 205-893-2, CAS Number: 193-39-5)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Carc. 2; H351

lead compounds with the exception of those specified elsewhere in this Annex

GB MCL index number: 082-001-00-6
Description/Comments: Least-worst case: IARC considers lead compounds Group 2A; Probably carcinogenic to humans; Lead REACH Consortium, following MCL protocols, considers many simple lead compounds to be Carcinogenic category 2
Additional Hazard Statement(s): Carc. 2; H351
Reason for additional Hazards Statement(s):
20 Nov 2021 - Carc. 2; H351 hazard statement sourced from: IARC Group 2A (Sup 7, 87) 2006; Lead REACH Consortium www.reach-lead.eu/substanceinformation.html. Review date 29/09/2015

pH (CAS Number: PH)

Description/Comments: Appendix C4
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: None.

phenanthrene (EC Number: 201-581-5, CAS Number: 85-01-8)

Description/Comments: Data from C&L Inventory Database
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 06 Aug 2015
Hazard Statements: Acute Tox. 4; H302 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Carc. 2; H351 , Skin Sens. 1; H317 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410 , Skin Irrit. 2; H315

pyrene (EC Number: 204-927-3, CAS Number: 129-00-0)

Description/Comments: Data from C&L Inventory Database; SDS Sigma Aldrich 2014
Data source: http://echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database
Data source date: 21 Aug 2015
Hazard Statements: Skin Irrit. 2; H315 , Eye Irrit. 2; H319 , STOT SE 3; H335 , Aquatic Acute 1; H400 , Aquatic Chronic 1; H410

TPH (C6 to C40) petroleum group (CAS Number: TPH)

Description/Comments: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013
Data source: WM3 1st Edition 2015
Data source date: 25 May 2015
Hazard Statements: Flam. Liq. 3; H226 , Asp. Tox. 1; H304 , STOT RE 2; H373 , Muta. 1B; H340 , Carc. 1B; H350 , Repr. 2; H361d , Aquatic Chronic 2; H411

monohydric phenols (CAS Number: P1186)

Description/Comments: Combined hazards statements from harmonised entries in CLP for phenol, cresols and xylenols (604-001-00-2, 604-004-00-9, 604-006-00-X)
Data source: CLP combined data
Data source date: 26 Mar 2019
Hazard Statements: Muta. 2; H341 , Acute Tox. 3; H331 , Acute Tox. 3; H311 , Acute Tox. 3; H301 , STOT RE 2; H373 , Skin Corr. 1B; H314 , Skin Corr. 1B; H314 >= 3 % , Skin Irrit. 2; H315 1 £ conc. < 3 % , Eye Irrit. 2; H319 1 £ conc. < 3 % , Aquatic Chronic 2; H411

divanadium pentaoxide; vanadium pentoxide (EC Number: 215-239-8, CAS Number: 1314-62-1)

EU CLP index number: 023-001-00-8
Description/Comments:
Data source: Regulation 1272/2008/EC - Classification, labelling and packaging of substances and mixtures. (CLP)
Hazard Statements: Muta. 2; H341 , Repr. 2; H361d , STOT RE 1; H372 , Acute Tox. 4; H332 , Acute Tox. 4; H302 , STOT SE 3; H335 , Aquatic Chronic 2; H411

Appendix B: Rationale for selection of metal species

arsenic {arsenic trioxide}

Worst case species based on hazard statements

beryllium {beryllium oxide}

Worst case species based on hazard statements

boron {boron tribromide/trichloride/trifluoride (combined)}

Worst case species based on hazard statements

cadmium {cadmium sulfide}

Worst case species based on hazard statements

chromium in chromium(III) compounds {chromium(III) oxide (worst case)}

Worst case species based on hazard statements

chromium in chromium(VI) compounds {chromium(VI) oxide}

Worst case species based on hazard statements

copper {dicopper oxide; copper (I) oxide}

Most likely common species

cyanides {salts of hydrogen cyanide with the exception of complex cyanides such as ferrocyanides, ferricyanides and mercuric oxycyanide and those specified elsewhere in this Annex}

Worst case species

lead {lead compounds with the exception of those specified elsewhere in this Annex}

Worst case species based on hazard statements

mercury {mercury dichloride}

Worst case species based on hazard statements

nickel {nickel dihydroxide}

Worst case species based on hazard statements

selenium {selenium compounds with the exception of cadmium sulphoselenide and those specified elsewhere in this Annex}

Worst case species based on hazard statements

zinc {zinc oxide}

Worst case species based on hazard statements

vanadium {divanadium pentaoxide; vanadium pentoxide}

Worst case species based on hazard statements.

Appendix C: Version

HazWasteOnline Classification Engine: WM3 1st Edition v1.2.GB - Oct 2021
HazWasteOnline Classification Engine Version: 2022.81.5064.9565 (22 Mar 2022)
HazWasteOnline Database: 2022.81.5064.9565 (22 Mar 2022)

This classification utilises the following guidance and legislation:
WM3 v1.2.GB - Waste Classification - 1st Edition v1.2.GB - Oct 2021
CLP Regulation - Regulation 1272/2008/EC of 16 December 2008
1st ATP - Regulation 790/2009/EC of 10 August 2009
2nd ATP - Regulation 286/2011/EC of 10 March 2011
3rd ATP - Regulation 618/2012/EU of 10 July 2012
4th ATP - Regulation 487/2013/EU of 8 May 2013
Correction to 1st ATP - Regulation 758/2013/EU of 7 August 2013
5th ATP - Regulation 944/2013/EU of 2 October 2013
6th ATP - Regulation 605/2014/EU of 5 June 2014
WFD Annex III replacement - Regulation 1357/2014/EU of 18 December 2014
Revised List of Waste 2014 - Decision 2014/955/EU of 18 December 2014
7th ATP - Regulation 2015/1221/EU of 24 July 2015
8th ATP - Regulation (EU) 2016/918 of 19 May 2016
9th ATP - Regulation (EU) 2016/1179 of 19 July 2016
10th ATP - Regulation (EU) 2017/776 of 4 May 2017
HP14 amendment - Regulation (EU) 2017/997 of 8 June 2017
13th ATP - Regulation (EU) 2018/1480 of 4 October 2018
14th ATP - Regulation (EU) 2020/217 of 4 October 2019
15th ATP - Regulation (EU) 2020/1182 of 19 May 2020
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use)(Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1567 of 16th December 2020
The Waste and Environmental Permitting etc. (Legislative Functions and Amendment etc.) (EU Exit) Regulations 2020 - UK: 2020 No. 1540 of 16th December 2020
GB MCL List - version 1.1 of 09 June 2021

Appendix J Preliminary Geotechnical Risk Register

Geotechnical Hazard Identification – Desk Study Stage

Potential geotechnical hazards have been assessed in accordance with the general requirements of ICE/DETR Document 'Managing Geotechnical Risk' and the HE documents HD 41/15 and CD 622. The following pages set out the identified geotechnical risks and hazards which are associated with the proposed development and establish the approach which is to be taken to manage the risks including the geotechnical input and analysis.

Table J.1 is a preliminary assessment of possible geotechnical hazards at the site at Desk Study stage. This information is used to assist with ground investigation design.

Table J.1: Possible geotechnical hazards

Hazard	Comment	Hazard status based on desk study	
		Could be present and / or affect site (i.e. Plausible)	Unlikely to be present and/or affect site
Uncontrolled Made Ground (variable strength and compressibility).		✔	-
Soft / loose compressible ground (low strength and high settlement potential).		✔	-
Shrink swell of the clay fraction of soils under the influence of vegetation.		✔	-
Variable lateral and vertical changes in ground conditions.		✔	-
High sulfates present in the soils.		-	✔
Adverse chemical ground conditions, (e.g. expansive slag).		✔	-
Obstructions.		✔	-
Existing below ground structures to remain (former underground services, foundations, Made Ground).		✔	-
Shallow groundwater.		✔	-
Changing groundwater conditions.		✔	-
Risk from erosion.		-	✔
Risk from flooding.		-	✔
Running sands and / or loose Made Ground, leading to difficulty with excavation and collapse of side walls.		✔	-
Slope stability issues – general slopes.		-	✔
Slope stability issues – retaining walls.		-	✔
Earthworks – settlement (due to placement of fill on soft / loose ground).		✔	-
Earthworks – poor bearing capacity of new fill.		✔	-

Hazard	Comment	Hazard status based on desk study	
		Could be present and / or affect site (i.e. Plausible)	Unlikely to be present and/or affect site
Earthworks – unsuitability of site won material to be reused as fill.		✔	-
Solution features in soluble rock.		✔	-
Cavities in the Superficial Deposits due to solution features.		-	✔
Dissolution (associated with “wet rock head”).		-	✔
Brine extraction.		-	✔
Mining.		✔	-
Cambered ground with gulls possibly present.		-	✔
Relict Slip Surfaces.		-	✔
Solifluction.		-	✔
Problematic soils (silts and rewetting etc.).		-	✔

Geotechnical Hazard Identification – Following Ground Investigation

The preliminary Geotechnical Risk Register following Ground Investigation is set out in Table J.3.

The probability and impact of a hazard have been judged on a qualitative scale as set out in Table J.2. The degree of risk (R) is determined by combining tan assessment of the probability (P) of the hazard occurring with an assessment of the impact (I) of the hazard and associated mitigation it will require if it occurs (R = P x I).

Table J.2: Qualitative assessment of hazards and risks

P = Probability			I = Impact			R = Risk Rating (P x I)	
1	Very unlikely (VU)		1	Very Low		1 – 4	None / negligible
2	Unlikely (U)		2	Low		5 – 9	Minor
3	Plausible(P)		3	Medium		10 – 14	Moderate
4	Likely (Lk)		4	High		15 – 19	Substantial
5	Very Likely (VLk)		5	Very High		20 - 25	Severe

Hazard	Comments	What is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Uncontrolled Made Ground (variable strength and compressibility).	Made Ground has been encountered in thicknesses locally exceeding 0.90m.	Proposed Hotel	Bearing capacity failure, settlement (total and differential).	4	4	16	Design foundations to found below Made Ground.
			Floor slab failure.	4	4	16	Ensure sub-grade below ground bearing floor slab is adequately compacted.
		Roads and Pavements.	Settlement (total and differential) of roads and pavements.	3	2	6	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate.
		Services.	Settlement (differential), causing damage to services.	2	2	4	Observational inspections for deeper Made Ground required.
		Landscaped areas/open space	Settlement (differential), in landscape areas and open space.	1	2	2	It is unlikely that settlements will be significant with regard to landscape areas and open space.
		Construction staff,	Trafficking of the site in temporary conditions.	3	3	9	Where soft spots encountered, over-excavation and replacement with suitable fill.

Hazard	Comments	What is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
		vehicles and plant operators.	Overturning of plant during construction.				Outline design of working platform to include geo-grid. Site inspection and watching brief by Contractor to review working platform frequently and regularly.
Loose ground (Residual soil).	The weathered Cornbrash Formation (residual soil) may have a low relative density.	Proposed Hotel	Foundation bearing capacity failure, settlement (total and differential).	4	4	16	Design foundations to found below any loose relative density sand and gravel or soft clay, or improve the River Terrace Deposits prior to founding.
			Floor slab failure.	4	4	16	Ensure sub-grade below ground bearing floor slab is adequately compacted.
		Roads and Pavements.	Settlement (total and differential), of roads and pavements.	3	2	6	Design roads and pavements using suitable geotechnical parameters and increase the sub-base and use geo-grids as appropriate. If anticipated settlements are significant, and cannot be mitigated by design, over-excavate and replace soft soils.
		Services.	Settlement (differential), causing damage to services.	2	2	4	Observational inspections for deeper Made Ground required.
		Landscaped areas/open space	Settlement (differential), in landscaped areas/open space	1	2	2	It is unlikely that settlements will be significant with regard to landscape areas and open space.
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	3	3	9	Where soft spots encountered, over-excavate and replace with suitable fill. Design working platform to suit the ground conditions. Site inspection and watching brief by Contractor to review working platform frequently and regularly.
Variable lateral and vertical changes in ground conditions.	Foundations may be supported by variable materials ranging from very strong limestone to residual soil of the Cornbrash Formation which varies vertically and laterally.	Shallow Foundations	Settlement (total and differential).	4	3	12	Design foundations to found below Made Ground. Limit applied bearing pressure to that suitable for the residual soil. Any loose material at the base of foundation excavations to be excavated and removed and replaced with well compacted suitable granular material or lean mix concrete.

Hazard	Comments	What is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Sulfates present in the soils.	The ground investigation has proven DS-1 / AC-1 conditions.	Attack of buried concrete.	Damage to concrete and reduction in strength.	1	4	4	Classify concrete in accordance with BRE SD1 and design concrete accordingly.
Obstructions.	Investigations have proven obstructions including; buried fuel pipes, probable historical foundations, manholes and strong / very strong limestone at depths shallower than proposed excavations. Potential undetected obstructions include; underground tanks, unrecorded services and UXO.	Construction staff, vehicles and plant operators.	Risk of collapse of excavation as obstructions are pulled out.	4	3	12	Undertake Enablement Works and remove all obstructions. UXO supervision during obstruction removal is required.
		Roads and Pavements.	Hard spots in externals and roads / pavements.	4	2	8	
		Proposed Hotel	Impact on spread foundations, resulting in additional foundation re-design.	3	3	9	
Shallow groundwater.	Monitoring during the ground investigations has proven a shallow groundwater table (at approximately 1.5m – 1.8m bgl), with slow inflows of water seen during the ground investigation.	Excavations, foundations, services, remediation works.	Difficulty with excavation. Limit state failure, excessive deformation, trafficking of site plant, inability to place and compact fill.	5	2	10	Temporary Works Designer to consider requirements for de-watering of excavations. Sump pumping may not be suitable – additional precautions may be required such as well-pointing. Groundwater may be contaminated due to leakage from fuel pipes, tanks etc. Any water that collects at the base of excavations to be removed as soon as practicable.
		Slopes and Retaining.	Serviceability issues.	3	2	6	Temporary Works Designer to consider requirements for de-watering of excavations. Sump pumping may not be suitable – additional precautions may be required such as well-pointing. Groundwater may be contaminated due to leakage from fuel pipes, tanks etc. The shallow groundwater is to be taken into account during geotechnical design of the permanent works.

Hazard	Comments	What is at Risk	Consequence	Risk Before Mitigation			Actions Required	
				P	I	R		
Changing groundwater conditions.	Monitoring during the ground investigations has proven that the groundwater table is variable (between 1.5m bgl and 1.8m bgl).	Construction staff, vehicles and plant operators.	Difficulty with excavation. Limit state failure, excessive deformation, trafficking of site plant, inability to place and compact fill.	4	2	8	Temporary Works Designer to consider requirements for de-watering of excavations. Sump pumping may not be suitable – additional precautions may be required such as well-pointing. Groundwater may be contaminated due to leakage from fuel pipes, tanks etc. Temporary Works Designer to consider in their analysis the impact of a variable water table.	
		Slopes and Retaining.	Serviceability issues.	3	2	6	Temporary Works Designer to consider requirements for de-watering of excavations. Sump pumping may not be suitable – additional precautions may be required such as well-pointing. Groundwater may be contaminated due to leakage from fuel pipes, tanks etc. Design drainage for retaining walls to account for fluctuating groundwater levels. The shallow groundwater is to be taken into account during geotechnical design of the permanent works.	
Slope stability issues – General Slopes / retaining walls.	The site is on uneven ground and the proposed development may require slopes and / or retaining walls to be formed between areas of different levels.	Areas of different levels	Serviceability issues.	4	3	12	Depends on final design levels for different areas of the site e.g between floor levels and external levels. Safe slope angles to be assessed during design. Engineered fill requirements to be defined at outline design stage. Drainage requirements to be assessed during design. Slopes to be constructed at a safe angle.	
Solution features in the soluble rock.	The site is in an area where solution features are possible and there is a risk of sinkholes from collapse of natural dissolution voids in the Limestone. However, there is no	Proposed Hotel	Reduction of lateral support potentially affecting stability of the structure.	2	4	8	Watching brief during construction to inspect for evidence of dissolution features in foundations and elsewhere. If evidence of solution features are discovered during	Structures to be supported from piled foundations or on shallow foundations following treatment of solution features and voided ground.
			Floor slab failure.	2	4	8		Ensure sub-grade below ground bearing floor slab is adequately compacted.
		Roads and Pavements	Serviceability affected.	2	3	6		-

Hazard	Comments	What is at Risk	Consequence	Risk Before Mitigation			Actions Required	
				P	I	R		
	evidence of their existence at the site.	Services.	Damage to services. Leaking drainage causing inundation and further collapse.	2	3	6	excavations, Hydrock is to be contacted.	No soakaway drainage within influencing distance of structures and roads. Infiltration if used is to be installed in open spaces. Use rocker boxes and flexible couplings.
		Landscaped areas/open space	Depression or void forming at the surface.	2	3	6		-
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	2	3	6		Where soft spots encountered, over-excavate and replacement with suitable fill. Site inspection and watching brief by Contractor to review working platform frequently and regularly.
Cavities in the Made Ground/ Residual soils of the Cornbrash Formation, due to solution features.	Where Made Ground/ Residual soils of the Cornbrash Formation overlies sinkholes. The presence of dense or cemented materials or cohesive layers are preventing or restricting the void reaching the surface. The collapse of materials into voids can cause either voids, or loosened material which can extend in a zone surrounding the central core of the collapsed material.	Proposed Hotel.	Reduction of lateral support potentially affecting stability of the structure.	2	5	5	Watching brief during construction to inspect for evidence of cavities in foundations and elsewhere. If cavities are detected in the Made Ground or residual soils of the Cornbrash Formation, Hydrock is to be contacted.	Structures to be supported from piled foundations or on shallow foundations following treatment of voided ground.
			Floor slab failure.	2	5	5		Ensure sub-grade below ground bearing floor slab is adequately compacted.
		Roads and Pavements.	Serviceability affected.	2	3	6		-
		Services.	Damage to services. Leaking drainage causing inundation and further collapse.	2	3	6		No soakaway drainage within influencing distance of structures and roads. Infiltration if used is to be installed in open space. Use rocker boxes and flexible couplings.
		Landscaped areas/open space	Depression or void forming at the surface.	2	3	6		-
		Construction staff, vehicles and plant operators.	Trafficking of the site in temporary conditions. Overturning of plant during construction.	2	3	6		Where soft spots encountered, over-excavation and replace with suitable fill. Site inspection and watching brief by Contractor to review working platform frequently and regularly.

Hazard	Comments	What is at Risk	Consequence	Risk Before Mitigation			Actions Required
				P	I	R	
Unforeseen ground conditions - risk associated with limited data.	Ground investigation has been undertaken. However, additional information will be obtained during construction. Ground conditions are only defined at exploratory hole locations.	All aspects of the development		3	4	12	Designers to be contacted if conditions encountered are different to those identified during investigation. Regular inspections of excavations and earthworks for evidence of stability. Adequate investigation required to characterise the site and understand the potential risks.

Whilst the probability and impact of the hazard occurring can be reduced to a minimum by geotechnical design, the impact cannot be reduced below very low. The risk register will need to be up-dated, as necessary, to reflect design, additional information, data and experience as it is gained through the construction process.

Impacts of the design with regard to health and Safety considerations will need to be included by the designer at design stage.

Appendix K Plausible Source-Pathway-Receptor Contaminant Linkages

Summary of Potential Contaminant Linkages

Table K.2 lists the plausible contaminant linkages which have been identified. These are considered as potentially unacceptable risks in line with guidelines published in LCRM (2019) and additional risk assessment is required.

Source – Pathway – Receptor Linkages have been assessed in general accordance with guidance in CIRIA Report C552 (Rudland et al 2001) but modified to add a 'no linkage' category and to remove low/moderate risk (See Table K.1). Further information is given in the relevant Hydrock methodology, referenced in Appendix L, including descriptions of typical examples of probability and consequences.

It should be noted that whilst the risk assessment process undertaken in this report may identify potential risks to site demolition and redevelopment workers, consideration of occupational health and safety issues is beyond the scope of this report and need to be considered separately in the Construction Phase Health and Safety Plan.

Table K.1: Consequence versus probability assessment.

		Consequence			
Probability		Severe	Medium	Mild	Minor
	High Likelihood	Very high risk	High risk	Moderate risk	Low risk
	Likely	High risk	Moderate risk	Low risk	Very low risk
	Low Likelihood	Moderate risk	Low risk	Low risk	Very low risk
	Unlikely	Low risk	Very low risk	Very low risk	Very low risk
	No Linkage	No risk			

Table K.2: Exposure model – final source-pathway-receptor contaminant linkages

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Elevated metals, metalloids and PAHs in the Made Ground and Cornbrash Formation.	Ingestion, inhalation or direct contact.	End users of the site.	Low likelihood	Medium	Low	No elevated concentrations of metals, metalloids and PAH in soil samples, when compared to the GAC. No mitigation measures required.
	Inhalation of fugitive dust.	Neighbours.	Low likelihood	Medium	Low	
	Leaching through unsaturated zone.	Groundwater and possible abstractors.	Low likelihood	Medium	Low	
	Surface run-off.	Aquatic ecosystems. Surface water and possible abstractors.	Low likelihood	Medium	Low	Whilst there are exceedances of the water quality targets, these exceedances are considered not to represent a significant risk of pollution of Controlled Waters from an on-site source as there is no evidence of artificial accumulations of these substances on the site. It would be technically challenging and probably disproportionately costly to remove these natural contaminants from the water or to prevent further infiltration. Hydrock believes that the risks to Controlled Waters do not need further consideration.
	Base flow from contaminated groundwater.		Low likelihood	Medium	Low	
Elevated metals, metalloids and PAHs in the Made Ground and Cornbrash Formation.	Root uptake.	Landscape planting	Likely	Minor	Very Low	No elevated concentrations of metals, metalloids and PAH in soil samples, when compared to the GAC. Laboratory testing of groundwater testing has recorded exceedances of the water quality targets, however, Hydrock believes that the risks to Controlled Waters do not need further consideration. No mitigation measures required.

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Asbestos fibres and ACM in the Made Ground.	Fugitive dust.	End users of the site.	Unlikely	Severe	Low	No clearly identifiable ACM has been seen during the reconnaissance or during the ground investigation and no fibres have been detected in soil samples analysed by laboratory testing. Due to historical demolition of former airfield buildings, Hydrock consider it plausible for asbestos to be present in any of the Made Ground soils however overall, the risk associated with the potential presence of asbestos is considered to be low.
Petroleum hydrocarbons, VOC and SVOC associated with former fuel line and potential UST.	Ingestion, inhalation or direct contact.	End users of the site.	Low likelihood	Medium	Low	No visual evidence of contamination was observed during investigations and no concentrations of petroleum hydrocarbons, VOC and SVOC in soil and groundwater samples were detected, by laboratory testing, to be in exceedance of the GAC/DWS/EQS. Investigations were undertaken as close as was practicable around the perimeter of the aviation fuel line inspection chambers. These investigations concluded that a hollow structure (possibly associated with the aviation fuel line) may be present beneath the inspection chambers however, its lateral extent appears limited. Any unrecorded UST's and associated pipework, whilst considered unlikely based on the evidence of the ground investigation and review of historical maps, may be present and could be located during excavation works for the proposed development. Therefore, if recorded, a discovery strategy may be prudent to be in place to manage the works. Although there is the potential for unrecorded UST's to be present on site, the overall risk from petroleum hydrocarbons, VOC and SVOC is considered to be low.
	Vapours.	End users of the site. Neighbours.		Medium	Low	
	Inhalation of fugitive dust.	End users of the site. Neighbours.	Low likelihood	Medium	Low	
	Leaching through unsaturated zone.	Groundwater and possible abstractors.	Low likelihood	Medium	Low	
	Direct contact	Water supply pipes.		Medium	Low	

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
Petroleum hydrocarbons, VOC and SVOC associated with former AST and UST located off site.	Inhalation of fugitive dust.	End users of the site.	Low likelihood	Medium	Low	No visual evidence of contamination was observed during investigations and no concentrations of petroleum hydrocarbons, VOC and SVOC in soil and groundwater samples were detected, by laboratory testing, to be in exceedance of the GAC/DWS/EQS. No mitigation measures required.
	Vapours.	End users of the site. Neighbours	Low likelihood	Medium	Low	
	Leaching through unsaturated zone and migration onto site.	Groundwater and possible abstractors.	Low likelihood	Medium	Low	
Coal tar, potentially present in the bituminous bound pavements present in the former taxi-ways.	Ingestion, inhalation or direct contact.	End users of the site.	Low likelihood	Medium	Low	The presence of coal tar was not tested for as part of the investigation. However, the extent of contamination, if present, is considered to be limited laterally and vertically as it is likely to be concentrated around the former taxi-ways. If the former taxi-ways are to be excavated as part of the proposed development, the material must be stockpiled separately and chemically tested before re-use/disposal.
	Vapours.	End users of the site. Neighbours	Low likelihood	Medium	Low	
	Inhalation of fugitive dust.	End users of the site. Neighbours.	Low likelihood	Medium	Low	
	Leaching through unsaturated zone.	Groundwater and possible abstractors.	Low likelihood	Medium	Low	
	Direct contact	Water supply pipes.	Low likelihood	Medium	Low	
PCBs and oils from transformers in the electricity sub-station on site.	Ingestion, inhalation or direct contact.	End users of the site.	Low likelihood	Medium	Low	No concentrations of PCB's in groundwater samples were detected, by laboratory testing, to be in exceedance of the DWS/EQS. Therefore, Hydrock considers the overall risk posed by PCBs and oils to be low.
	Vapours.	End users of the site. Neighbours.	Low likelihood	Medium	Low	

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
	Inhalation of fugitive dust.	End users of the site. Neighbours.	Low likelihood	Medium	Low	
	Leaching through unsaturated zone.	Groundwater and possible abstractors.	Low likelihood	Medium	Low	
	Direct contact	Water supply pipes.	Low likelihood	Medium	Low	
(PFOS / PFOA) from use of fire retardants for example	Ingestion, inhalation or direct contact.	End users of the site.	Low likelihood	Medium	Low	No concentrations of PFOS/PFOA in groundwater samples were detected, by laboratory testing, to be in exceedance of the DWS/EQS. No mitigation measures required.
	Vapours.	End users of the site. Neighbours.	Low likelihood	Medium	Low	
	Inhalation of fugitive dust.	Neighbours.	Low likelihood	Medium	Low	
	Leaching through unsaturated zone.	End users of the site.	Low likelihood	Medium	Low	
	Direct contact	Neighbours.	Low likelihood	Medium	Low	
Ground gases (carbon dioxide) from organic materials in the Cornbrash Formation.	Migration, build up and asphyxiation.	End users of the site.	Unlikely	Medium to Severe	Very low to Low	Ground gas monitoring has indicated no concentrations of carbon dioxide above the detection limits of the analytical apparatus. CS1 conditions and no mitigation required for carbon dioxide.
Ground gases (methane) from organic materials in	Migration, build up and explosion.	End users of the site. Buildings on site.	Unlikely	Medium to Severe	Very low to Low	Ground gas monitoring has indicated no concentrations of methane above the detection limits of the analytical apparatus. CS1 conditions and no mitigation required for methane.

Sources	Possible Pathways	Receptors	Probability	Consequence	Risk Level	Comments
the Cornbrash Formation.		Buildings on adjacent sites.				
Ground gases (carbon monoxide) in the soils beneath the site.	Migration, build up and poisoning	End users of the site.	Low likelihood	Severe	Medium	Elevated concentrations of carbon monoxide were recorded. CS2 conditions and ground gas protection measures apply.
Radon	Inhalation.	Site users.	No Linkage			BR211 indicates the site is in a low radon area and no radon protection is required.

Appendix L Hydrock Methodologies

Hydrock Methodologies are available on request.