


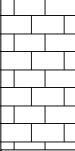
TRIAL PIT LOG

TP32

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 20/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 83.74m AOD **Coordinates** E 456452.00 N 223170.00 **Total Depth** 0.80m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.25		83.44	(0.30)	E	Crops over soft dark brown sandy gravelly CLAY with frequent rootlets and rare roots <5mm. Gravel is fine to medium subrounded of limestone. (TOPSOIL)		
				0.30	VH	Very weak thinly to very thin bedded grey LIMESTONE recovered as orangish brown clayey sandy gravel. Gravel is fine to coarse angular to subrounded of limestone. Occasional subangular cobble of limestone. (CORNBRAASH FORMATION)		
				(0.50)		End of Trial Pit at 0.80m		
			82.94	0.80				

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Stable.

Remarks: Trial pit terminated at 0.80m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.30m
Width:	0.70m
Logged:	ST
Checked:	AP

TRIAL PIT LOG

TP33

Project Howes Lane, Bicester

Project No.

AG2873-18

Client Albion Land Two Ltd

Sheet

1 of 1

Date 14/08/2018

Scale

1:25








Ground Level 83.22m AOD

Coordinates

E 456450.45 N 223099.87

Total Depth

4.20m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.10		82.97	(0.25)	E	Crops over soft dark brown slightly sandy gravelly CLAY. Gravel is fine to coarse subangular to subrounded of limestone. (TOPSOIL)		
				0.25		Very weak thinly bedded grey LIMESTONE recovered as orangish brown clayey sandy gravel. Gravel is fine to coarse angular to subrounded of limestone. (CORNBRAsh FORMATION)		
				(0.85)	H	<i>At 0.80m bgl: becoming very clayey.</i>		
HV	1.20	Cu = 86	82.12	1.10		Stiff friable light brown slightly gravelly sandy CLAY with frequent pockets of light brown mottled orangish brown clay. Gravel is fine to medium angular to subrounded of limestone. (CORNBRAsh FORMATION)		
HV	2.50	Cu = 120		(2.60)	M			
HV B	3.80	Cu = 97	79.52	3.70	M/H	Stiff bluish grey CLAY. (CORNBRAsh FORMATION)		
	3.90		(0.50)	<i>At 4.00m bgl: becoming firm to stiff.</i>				
			79.02	4.20		End of Trial Pit at 4.20m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Stable.

Remarks: Trial pit backfilled with arisings on completion.

Length:	2.70m
Width:	0.80m
Logged:	ST
Checked:	AP


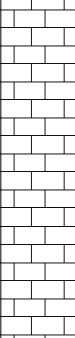
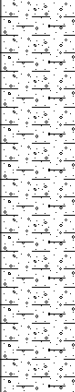
TRIAL PIT LOG

TP34

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 14/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 82.73m AOD **Coordinates** E 456419.00 N 223018.00 **Total Depth** 2.70m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			82.48	(0.25) 0.25	E	Grass over soft dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of limestone. (TOPSOIL)		
				(1.15)	M	Very weak thinly bedded grey LIMESTONE recovered as orangish brown clayey sandy gravel. Gravel is fine to coarse angular to subrounded of limestone. (CORNBRAASH FORMATION)		
HV	1.70	Cu = 72	81.33	1.40		Firm becoming stiff friable yellowish brown slightly gravelly sandy CLAY. Occasional pockets of bluish grey mottled orangish brown clay. Gravel is fine to coarse subangular to subrounded limestone. (CORNBRAASH FORMATION)		
HV	2.40	Cu = 111		(1.30)	H			
			80.03	2.70		End of Trial Pit at 2.70m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Stable.

Remarks: Trial pit terminated at 2.70m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.40m
Width:	0.80m
Logged:	ST
Checked:	AP


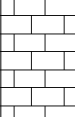
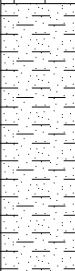

TRIAL PIT LOG

TP35

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 14/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 82.62m AOD **Coordinates** E 456398.00 N 222951.00 **Total Depth** 2.60m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
				(0.30)	E	Grass over soft dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to coarse subangular to subrounded of limestone. (TOPSOIL)		
			82.32	0.30				
				(0.40)	H	Very weak very thin to thin bedded grey mottled bluish grey LIMESTONE recovered as reddish brown and orangish brown slightly sandy clayey gravel. Gravel is fine to coarse subangular to subrounded of limestone. (CORNBASH FORMATION)		
			81.92	0.70				
				(0.90)	M	Soft to firm becoming stiff yellowish brown slightly sandy CLAY. (CORNBASH FORMATION)		
HV	1.30	Cu = 120						
			81.02	1.60				
				(1.00)	H	Stiff light brown mottled light grey CLAY. (CORNBASH FORMATION)		
ES	2.20							
			80.02	2.60		End of Trial Pit at 2.60m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered,

Stability: Stable.

Remarks: Trial pit terminated at 2.60m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.20m
Width:	0.70m
Logged:	ST
Checked:	AP

TRIAL PIT LOG

TP36

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 14/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 82.35m AOD **Coordinates** E 456385.00 N 222913.00 **Total Depth** 2.60m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
				(0.30)	E	Grass over soft dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to medium angular to subangular of limestone. (TOPSOIL)		
			82.05	0.30				
				(0.40)	M	Very weak very thinly bedded light grey LIMESTONE recovered as orangish brown clayey sandy gravel. Gravel is fine to coarse angular to subrounded of limestone. Occasional subangular cobbles of limestone. (CORNBRAASH FORMATION)		
			81.65	0.70				
				(0.90)	M	Firm to stiff yellowish brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded of limestone. (CORNBRAASH FORMATION)		
HV	1.20	Cu = 120		(0.90)	M			
			80.75	1.60				
				(1.00)	H	Stiff friable light brown sandy gravelly CLAY. Gravel is fine to coarse subangular to subrounded of limestone. (CORNBRAASH FORMATION)		
HV	2.40	Cu = 120		(1.00)	H			
			79.75	2.60				
						End of Trial Pit at 2.60m		

Method: Backhoe excavator

Groundwater: Slight seepage from 2.55m bgl.

Stability: Top 0.50m collapsing.

Remarks: Trial pit terminated at 2.60m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.40m
Width:	0.80m
Logged:	ST
Checked:	AP

TRIAL PIT LOG

TP37

Project Howes Lane, Bicester

Project No.

AG2873-18

Client Albion Land Two Ltd

Sheet

1 of 1

Date 14/08/2018

Scale

1:25

Ground Level 82.39m AOD

Coordinates E 456373.00 N 222854.00

Total Depth

2.80m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.25		82.04	(0.35)	E	Grass over soft dark brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is fine to medium subangular to subrounded of limestone. (TOPSOIL)		
			81.69	0.35 (0.35)	M	Very weak very thinly to thinly bedded bluish grey LIMESTONE recovered as orangish brown mottled reddish brown clayey sandy gravel. Gravel is fine to coarse angular to subrounded of limestone. (CORNBRAASH FORMATION)		
				0.70 (0.70)	E	Yellowish brown clayey gravelly fine to coarse SAND with occasional cobbles. Gravel is fine to coarse angular to subrounded of limestone. Cobbles are subangular of limestone. (CORNBRAASH FORMATION)		
			80.99	1.40 (1.40)	M	Soft to firm becoming stiff light brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded of limestone. Rare pockets of bluish grey clay. (CORNBRAASH FORMATION)		
HV	2.30	Cu = 114						
D	2.40							
D	2.60							
			79.59	2.80		End of Trial Pit at 2.80m		

Method: Backhoe excavator

Groundwater: Slight seepage from 2.70m bgl.

Stability: Stable

Remarks: Trial pit terminated at 2.80m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.20m
Width:	0.70m
Logged:	ST
Checked:	AP


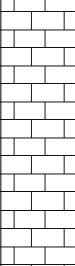
TRIAL PIT LOG

TP38

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 14/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 82.72m AOD **Coordinates** E 456345.00 N 222814.00 **Total Depth** 1.20m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			82.42	(0.30) 0.30	E	Grass over soft dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to medium subangular to subrounded of quartzite and limestone. (TOPSOIL)		
			81.52	(0.90) 1.20	H	Very weak thinly bedded light grey mottled bluish grey LIMESTONE. Recovered as orangish brown and light grey slightly clayey sandy gravel. Gravel is fine to coarse angular to subrounded of limestone. (CORNBRAsh FORMATION)		
						End of Trial Pit at 1.20m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered,

Stability: Stable

Remarks: Trial pit terminated at 1.20m bgl on hard limestone strata. Trial pit backfilled with arising on completion.

Length:	2.20m
Width:	0.75m
Logged:	ST
Checked:	AP


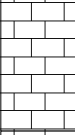

TRIAL PIT LOG

TP39

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 10/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 82.23m AOD **Coordinates** E 456388.00 N 222806.00 **Total Depth** 1.10m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.30		81.78	0.45	E	Grass over soft dark brown slightly silty sandy CLAY with frequent rootlets. (TOPSOIL)		
				0.45	H	Very weak thinly bedded light grey LIMESTONE. Recovered as light grey mottled orangish brown slightly sandy clayey gravel. Gravel is fine to coarse subangular to subrounded of limestone. Frequent angular to subangular cobbles of limestone. (CORNBRAsh FORMATION)		
				0.90	VH	Weak light brownish grey LIMESTONE. (CORNBRAsh FORMATION)		
				1.10		End of Trial Pit at 1.10m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Stable

Remarks: Trial pit terminated at 1.10m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.00m
Width:	0.60m
Logged:	ST
Checked:	AP


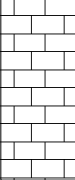
TRIAL PIT LOG

TP40

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 10/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 82.14m AOD **Coordinates** E 456407.00 N 222876.00 **Total Depth** 0.90m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
				(0.30)	E	Grass over soft dark brown silty sandy CLAY with frequent rootlets. (TOPSOIL)		
			81.84	0.30				
				(0.60)	H/VH	Very weak thinly bedded grey mottled light grey LIMESTONE. Recovered as orangish brown clayey sandy gravel. Gravel is fine to coarse angular to subrounded of limestone. (CORNBRAsh FORMATION)		
			81.24	0.90				
						At 0.85m bgl: becoming weak. End of Trial Pit at 0.90m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Stable

Remarks: Trial pit terminated at 0.90m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.00m
Width:	0.60m
Logged:	ST
Checked:	AP

TRIAL PIT LOG

TP41

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 10/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 81.90m AOD **Coordinates** E 456456.00 N 222958.00 **Total Depth** 2.20m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.20		81.60	(0.30)	E	Grass over soft dark brown silty sandy CLAY with frequent rootlets. (TOPSOIL)		
			81.15	(0.45)	H	Very weak thinly bedded grey mottled bluish grey LIMESTONE. Recovered as reddish brown and orangish brown clayey sandy gravel. Gravel is fine to coarse subangular to subrounded of limestone. (CORNBRAASH FORMATION)		
			80.50	(0.65)	M	Soft to firm yellowish brown sandy gravelly CLAY. Gravel is fine to medium subrounded of limestone. (CORNBRAASH FORMATION)		
HV	1.20	Cu = 54						
			79.70	(0.80)	M/H	Firm to stiff grey mottled brownish grey CLAY. (CORNBRAASH FORMATION)		
D HV	2.00 2.00	Cu = 114						
						End of Trial Pit at 2.20m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Stable

Remarks: Trial pit terminated at 2.20m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.10m
Width:	0.60m
Logged:	ST
Checked:	AP


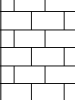
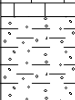

TRIAL PIT LOG

TP42

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 10/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 81.95m AOD **Coordinates** E 456478.77 N 222994.71 **Total Depth** 1.90m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW	
HV	1.55	Cu = 86	81.70	(0.25)	E	Grass over soft dark brown slightly gravelly silty sandy CLAY with frequent rootlets. Gravel is fine to coarse subangular to subrounded of limestone and rare quartzite.			
				0.25			(TOPSOIL)		
				(0.45)	H	Very weak thinly bedded grey LIMESTONE. Recovered as light brown mottled grey and orangish brown sandy clayey gravel of limestone. Gravel is fine to coarse subangular to subrounded of limestone.			
				81.25			(CORNBASH FORMATION)		
				0.70			Firm to stiff yellowish brown mottled grey gravelly CLAY. Gravel is fine to medium subangular to subrounded.		
			(1.00)	M	(CORNBASH FORMATION)				
			80.25	1.70					
			80.05	(0.20)	VH	Weak light grey LIMESTONE.			
				1.90		End of Trial Pit at 1.90m			

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Stable

Remarks: Trial pit terminated at 1.90m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.10m
Width:	0.75m
Logged:	ST
Checked:	AP


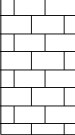

TRIAL PIT LOG

TP43

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 10/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 82.23m AOD **Coordinates** E 456512.00 N 223035.00 **Total Depth** 0.90m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
				(0.30)	E	Grass over soft dark brown sandy CLAY with frequent rootlets. (TOPSOIL)		
ES	0.60		81.93	0.30				
				(0.45)	H	Very weak thinly bedded bluish grey LIMESTONE. Recovered as orangish brown clayey sandy gravel. Gravel is fine to coarse subangular to subrounded of limestone. (CORNBRAASH FORMATION)		
B	0.80		81.48	0.75				
			81.33	(0.15) 0.90	VH	Weak light grey LIMESTONE recovered as medium to coarse angular to subangular gravel. (CORNBRAASH FORMATION)		
						End of Trial Pit at 0.90m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Stable

Remarks: Trial pit terminated at 0.90m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	1.90m
Width:	0.60m
Logged:	ST
Checked:	AP

TRIAL PIT LOG

TP44

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 10/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 82.11m AOD **Coordinates** E 456492.00 N 223052.00 **Total Depth** 2.35m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			81.86	(0.25) 0.25	E	Grass over soft dark brown sandy gravelly CLAY with frequent rootlets. Gravel is fine to coarse angular to subrounded of limestone. (TOPSOIL)		
				(0.85)	M	Very weak very thinly to thinly bedded grey mottled bluish grey LIMESTONE. Recovered as orangish brown clayey sandy gravel. Gravel is fine to coarse subangular to subrounded of limestone. (CORNBRAASH FORMATION)		
HV	1.30	Cu = 120	81.01 80.81	1.10 (0.20) 1.30	H	Weak thinly bedded grey LIMESTONE. Recovered as yellowish brown sandy very clayey gravel. Gravel is fine to coarse subangular to subrounded of limestone. Rare pockets of yellowish brown clay. (CORNBRAASH FORMATION)		
HV	1.90	Cu = 120		(1.05)	M/H	Stiff light grey mottled orangish brown gravelly CLAY. Gravel is fine to coarse subangular to subrounded of limestone. (CORNBRAASH FORMATION)		
			79.76	2.35		End of Trial Pit at 2.35m		

Method: Backhoe excavator
Groundwater: Groundwater not encountered.
Stability: Stable

Remarks: Trial pit terminated at 2.35m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.20m
Width:	0.75m
Logged:	ST
Checked:	AP


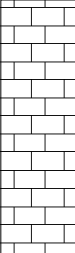
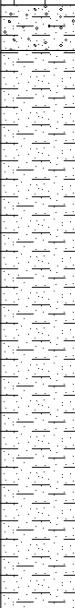


TRIAL PIT LOG

TP45

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 20/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 82.91m AOD **Coordinates** E 456490.54 N 223080.44 **Total Depth** 3.80m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
HV	1.60	Cu = 114	82.46	(0.45)	E	Crops over soft dark brown sandy gravelly CLAY with frequent rootlets and roots (<8mm). Gravel is fine to coarse subangular to subrounded of limestone. (TOPSOIL)		
				0.45	M	Very weak thinly bedded grey LIMESTONE. Recovered as orangish brown clayey sandy gravel. Gravel is fine to coarse angular to subrounded of limestone. Frequent angular to subrounded cobbles of limestone. (CORNBRAASH FORMATION)		
HV	3.40	Cu = 120	81.61 81.46	1.30 (0.15)	E	Soft to firm light brown slightly gravelly sandy CLAY. Gravel is fine to medium subrounded to rounded limestone. (CORNBRAASH FORMATION)		
				1.45	M	Stiff brownish grey slightly sandy CLAY. Occasional pockets of orangish brown clay. (CORNBRAASH FORMATION)		
HV	3.40	Cu = 120	79.61 79.41 79.11	(1.85)	M			
				3.30 (0.20)	H	Stiff light grey CLAY with orangish brown and dark brown mottling. (CORNBRAASH FORMATION)		
				3.50 (0.30)	H	Stiff bluish grey CLAY with occasional pockets of black bioturbated clay. (CORNBRAASH FORMATION)		
						End of Trial Pit at 3.80m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Stable

Remarks: Trial pit terminated at 3.80m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.80m
Width:	0.80m
Logged:	ST
Checked:	AP




TRIAL PIT LOG

TP46

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 22/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 84.53m AOD **Coordinates** E 456426.00 N 223252.00 **Total Depth** 0.70m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
				(0.40)	E	Crops over soft dark brown silty sandy CLAY with frequent rootlets. (TOPSOIL)		
			84.13	0.40	VH	Weak thinly bedded light grey mottled bluish grey LIMESTONE. Recovered as slightly clayey slightly sandy gravel. Gravel is fine to coarse angular to subrounded of limestone. Frequent angular to subangular cobbles of limestone. (CORNBURASH FORMATION)		
			83.83	0.70				
						End of Trial Pit at 0.70m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Stable

Remarks: Trial pit terminated at 0.70m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.40m
Width:	0.70m
Logged:	ST
Checked:	AP


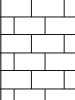
TRIAL PIT LOG

TP47

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 22/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 85.27m AOD **Coordinates** E 456434.00 N 223335.00 **Total Depth** 0.70m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
				(0.35)	E	Crops over soft dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to medium subrounded to rounded limestone. (TOPSOIL)		
			84.92	0.35	H/VH	Weak thinly bedded light grey mottled bluish grey LIMESTONE. Recovered as orangish brown slightly clayey slightly sandy gravel. Gravel is fine to coarse angular to subrounded limestone. Frequent subangular cobbles of limestone. (CORNBRAsh FORMATION)		
			84.57	0.70		End of Trial Pit at 0.70m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Stable

Remarks: Trial pit terminated at 0.70m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.60m
Width:	0.70m
Logged:	ST
Checked:	AP


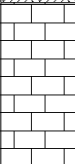
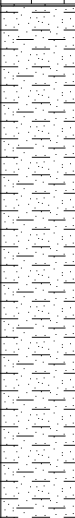
TRIAL PIT LOG

TP48

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 20/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 85.48m AOD **Coordinates** E 456453.87 N 223419.10 **Total Depth** 2.60m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			85.13	(0.35) 0.35	E	Crops over soft dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to medium subrounded of limestone. (TOPSOIL)		
			84.58	(0.55) 0.90	M	Very weak very thinly bedded grey LIMESTONE. Recovered as orangish brown slightly clayey sandy gravel. Gravel is fine to coarse angular to subrounded limestone. Occasional cobbles of limestone. Rare rootlets. (CORNBRAsh FORMATION)		
				(1.70)	M	Soft to firm brownish grey mottled orangish brown sandy CLAY. (CORNBRAsh FORMATION)		
			82.88	2.60		End of Trial Pit at 2.60m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Collapse at 0.60m bgl in northern half of pit.

Remarks: Trial pit terminated at 2.60m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.50m
Width:	0.70m
Logged:	ST
Checked:	AP


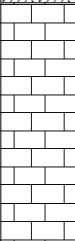
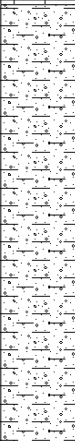
TRIAL PIT LOG

TP49

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 20/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 83.98m AOD **Coordinates** E 456540.40 N 223372.21 **Total Depth** 2.60m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.75		83.63	(0.35)	E	Crops over soft dark brown slightly gravelly sandy CLAY with frequent rootlets. Gravel is fine to medium subrounded of limestone. (TOPSOIL)		
				0.35	M	(0.80)	Very weak thinly to very thinly bedded grey LIMESTONE. Recovered as yellowish brown clayey very sandy gravel. Gravel is fine to coarse angular to subrounded limestone. Occasional subangular cobble of limestone. (CORNBURASH FORMATION)	
D	1.90		82.83	1.15		M	Soft to firm light brown slightly gravelly sandy CLAY. Gravel is fine to medium subangular to subrounded of limestone. (CORNBURASH FORMATION)	
				(1.45)	2.60		End of Trial Pit at 2.60m	

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Stable

Remarks: Trial pit terminated at 2.60m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.40m
Width:	0.80m
Logged:	ST
Checked:	AP


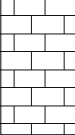
TRIAL PIT LOG

TP50

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 22/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 84.15m AOD **Coordinates** E 456494.00 N 223287.00 **Total Depth** 0.75m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.35		83.85	(0.30)	E	Crops over soft dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine to coarse subrounded to rounded of limestone. (TOPSOIL)		
				(0.45)	H/VH	Weak thinly bedded grey LIMESTONE. Recovered as orangish brown clayey sandy gravel. Gravel is fine to coarse angular to subrounded limestone. Frequent subangular cobbles of limestone. (CORNBURASH FORMATION)		
B	0.75		83.40	0.75		End of Trial Pit at 0.75m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Stable

Remarks: Trial pit terminated at 0.75m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.30m
Width:	0.70m
Logged:	ST
Checked:	AP



TRIAL PIT LOG

TP51

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 22/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 84.20m AOD **Coordinates** E 456463.00 N 223230.00 **Total Depth** 0.55m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.25		84.00	(0.20) 0.20	E	Crops over soft dark brown gravelly silty CLAY with frequent rootlets. Gravel is fine to medium subrounded to rounded limestone. (TOPSOIL)		
B	0.55		83.65	(0.35) 0.55	VH	Weak thinly bedded light grey LIMESTONE. Recovered as orangish brown slightly clayey sandy gravel. Gravel is fine to coarse angular to subrounded limestone. Occasional angular to subangular cobbles of limestone. (CORNBURASH FORMATION)		
						End of Trial Pit at 0.55m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Stable

Remarks: Trial pit terminated at 0.55m bgl on hard limestone strata. Trial pit backfilled with arisings in completion.

Length:	2.20m
Width:	0.70m
Logged:	ST
Checked:	AP


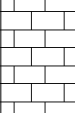
TRIAL PIT LOG

TP52

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 22/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 83.49m AOD **Coordinates** E 456511.00 N 223183.00 **Total Depth** 0.70m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
				(0.30)	E	Crops over soft dark brown slightly sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine to medium subangular to subrounded of limestone. (TOPSOIL)		
			83.19	0.30				
				(0.40)	VH	Weak thinly bedded light grey LIMESTONE. Recovered as orangish brown slightly clayey slightly sandy gravel. Gravel is fine to coarse angular to subrounded of limestone. Frequent angular to subangular cobbles of limestone. (CORNBRAH FORMATION)		
			82.79	0.70				
						End of Trial Pit at 0.70m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered.

Stability: Stable

Remarks: Trial pit terminated at 0.70m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.10m
Width:	0.70m
Logged:	ST
Checked:	AP


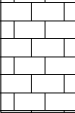
TRIAL PIT LOG

TP53

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 22/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 83.66m AOD **Coordinates** E 456536.00 N 223259.00 **Total Depth** 0.60m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			83.46	(0.20) 0.20	E	Crops over soft dark brown slightly sandy gravelly CLAY with frequent rootlets. Gravel is fine to coarse subangular to subrounded limestone. (TOPSOIL)		
			83.06	(0.40) 0.60	H/VH	Weak light grey thinly bedded LIMESTONE. Recovered as orangish brown slightly clayey slightly sandy gravel. Gravel is fine to coarse angular to subrounded limestone. (CORNBRAsh FORMATION)		
						End of Trial Pit at 0.60m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered

Stability: Stable.

Remarks: Trial pit terminated at 0.60m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.10m
Width:	0.70m
Logged:	ST
Checked:	AP

TRIAL PIT LOG

TP54

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 20/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 83.69m AOD **Coordinates** E 456583.00 N 223364.00 **Total Depth** 2.40m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			83.49	(0.20) 0.20	E	Crops over soft dark brown slightly gravelly silty CLAY with frequent rootlets and rare roots <5mm. Gravel is fine to medium subrounded to rounded limestone. (TOPSOIL)		
			82.89	(0.60) 0.80	M	Very weak thinly bedded grey LIMESTONE. Recovered as orangish brown slightly sandy clayey gravel. Gravel is fine to coarse angular to subrounded limestone. (CORNBRAASH FORMATION)		
			82.19	(0.70) 1.50	M	Firm brown mottled orangish brown slightly gravelly sandy CLAY. Gravel is fine subrounded limestone. (CORNBRAASH FORMATION)		
			81.29	(0.90) 2.40	M/H	Firm to stiff light brown sandy CLAY. (CORNBRAASH FORMATION)		
						End of Trial Pit at 2.40m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered

Stability: Stable.

Remarks: Trial pit terminated at 2.40m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.60m
Width:	0.70m
Logged:	ST
Checked:	AP






TRIAL PIT LOG

TP55

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 20/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 82.82m AOD **Coordinates** E 456612.93 N 223322.96 **Total Depth** 1.90m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW	
ES	0.50		82.57	(0.25)	E	Crops over soft slightly gravelly silty CLAY with frequent rootlets. Gravel is fine to medium subrounded to rounded limestone. (TOPSOIL)			
				0.25			Orangish brown clayey silty SAND. (CORNBRAH FORMATION)		
D	1.50		82.12	(0.45)	E				
				0.70			Soft becoming firm light brown slightly gravelly sandy CLAY. Gravel is fine subrounded to rounded limestone. (CORNBRAH FORMATION)		
				(1.20)	M				
			80.92	1.90		End of Trial Pit at 1.90m			

Method: Backhoe excavator

Groundwater: Groundwater not encountered

Stability: Stable.

Remarks: Trial pit terminated at 1.90m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.20m
Width:	0.70m
Logged:	ST
Checked:	AP


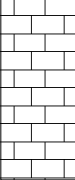
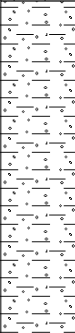
TRIAL PIT LOG

TP56

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 22/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 83.12m AOD **Coordinates** E 456590.04 N 223224.77 **Total Depth** 2.00m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
ES	0.45		82.82	(0.30)	E	Crops over soft dark brown sandy gravelly CLAY with frequent rootlets. Gravel is fine to medium subangular to subrounded limestone. (TOPSOIL)		
				(0.60)	H	Very weak grey thinly laminated LIMESTONE. Recovered as orangish brown slightly clayey sandy gravel. Gravel is fine to coarse angular to subrounded limestone. Occasional angular to subangular cobble of limestone. (CORNBURASH FORMATION)		
D	1.75		81.12	0.90	M	Soft becoming firm greyish brown slightly sandy slightly gravelly CLAY. (CORNBURASH FORMATION)		
				2.00		End of Trial Pit at 2.00m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered

Stability: Stable.

Remarks: Trial pit terminated at 2.00m bgl on hard limestone strata. Bucket scraping at base. Trial pit backfilled with arisings on completion.

Length:	2.40m
Width:	0.80m
Logged:	ST
Checked:	AP

TRIAL PIT LOG

TP57

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 20/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 83.20m AOD **Coordinates** E 456493.57 N 223139.01 **Total Depth** 2.60m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
				(0.30)	E	Crops over soft dark brown slightly sandy slightly gravelly silty CLAY with frequent rootlets and occasional roots <6mm. Gravel is fine to coarse subangular to subrounded limestone.		
			82.90	0.30		(TOPSOIL)		
				(1.10)	H	Very weak thinly bedded grey LIMESTONE. Recovered as orangish brown and yellowish brown slightly sandy silty gravel. Gravel is fine to coarse angular to subrounded limestone. Occasional subangular to subrounded cobbles of limestone.		
ES	1.10					(CORNBRAH FORMATION)		
			81.80	1.40		Firm to stiff brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subrounded limestone.		
				(0.80)	M/H	(CORNBRAH FORMATION)		
HV	1.70	Cu = 112						
D	1.90							
			81.00	2.20		Stiff brownish grey mottled orangish brown sandy slightly gravelly CLAY. Gravel is fine to medium subangular to subrounded limestone.		
				(0.39)	H	(CORNBRAH FORMATION)		
HV	2.40	Cu = 112						
			80.61	2.59	VH	Weak light brown LIMESTONE		
			80.60	(0.01)		(CORNBRAH FORMATION)		
				2.60		End of Trial Pit at 2.60m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered

Stability: Stable.

Remarks: Trial pit terminated at 2.60m bgl on hard limestone strata. Trial pit backfilled with arisings in completion.

Length:	2.60m
Width:	0.70m
Logged:	ST
Checked:	AP

TRIAL PIT LOG

TP58

Project Howes Lane, Bicester

Project No.

AG2873-18

Client Albion Land Two Ltd

Sheet

1 of 1

Date 20/08/2028

Scale

1:25

Ground Level 82.67m AOD

Coordinates

E 456536.00 N 223111.00

Total Depth

4.10m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
			82.47	(0.20) 0.20	E	Crops over soft dark brown silty gravelly CLAY with frequent rootlets and roots <5mm. Gravel is fine to medium subangular to subrounded limestone. (TOPSOIL)		
			82.17	(0.30) 0.50	H	Very weak very thinly to thinly bedded weathered LIMESTONE. Recovered as orangish brown slightly sandy clayey fine to coarse angular to subrounded gravel of limestone with occasional cobbles of subangular limestone. (CORNBRAASH FORMATION)		
				(2.10)	M/H	Soft becoming firm to stiff brownish grey mottled orangish brown slightly gravelly sandy CLAY. Gravel is fine to medium subangular to rounded of limestone. (CORNBRAASH FORMATION)		
HV	2.40	Cu = 112	80.07	2.60		Stiff grey slightly sandy CLAY. (CORNBRAASH FORMATION)		
				(0.60)	H			
HV	3.00	Cu = 112	79.47	3.20		Stiff bluish grey CLAY. (CORNBRAASH FORMATION)		
				(0.90)	H/VH			
			78.57	4.10		End of Trial Pit at 4.10m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered

Stability: Stable.

Remarks: Trial pit backfilled with arisings in completion.

Length:	2.70m
Width:	0.80m
Logged:	ST
Checked:	AP


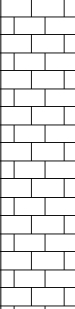
TRIAL PIT LOG

TP59

Project Howes Lane, Bicester
Client Albion Land Two Ltd
Date 20/08/2018

Project No. AG2873-18
Sheet 1 of 1
Scale 1:25

Ground Level 81.92m AOD **Coordinates** E 456663.17 N 223285.98 **Total Depth** 1.40m

Sample / Test Type	Depth (m)	Result	Level (mAoD)	Strata Depth (thickness) (m)	Ease of Dig	Description of Strata	Legend	GW
HV	0.70	Cu = 96	81.57	(0.35)	E	Crops over soft dark brown sandy slightly gravelly CLAY with frequent rootlets. Gravel is fine subangular to rounded limestone. (TOPSOIL)		
				0.35			Stiff light brown mottled orangish brown slightly gravelly sandy CLAY. Gravel is fine to medium subrounded to rounded limestone. (CORNBURASH FORMATION)	
				(1.05)	H			
			80.52	1.40		End of Trial Pit at 1.40m		

Method: Backhoe excavator

Groundwater: Groundwater not encountered

Stability: Stable.

Remarks: Trial pit terminated at 1.4m bgl on hard limestone strata. Trial pit backfilled with arisings on completion.

Length:	2.50m
Width:	0.80m
Logged:	ST
Checked:	AP

APPENDIX D

Groundwater Monitoring Results

Project/Site Name Howes Lane, Bicester
 Project Number AG2873-18

BH No.	Installed Depth (m bgl)	Ground Level (m AOD)	Diameter of installation (mm)	Date of Monitoring		24/08/2018		31/08/2018		10/09/2018		19/09/2018	
				Water level (m bgl)	Water level (m AOD)	Water level (m bgl)	Water level (m AOD)	Water level (m bgl)	Water level (m AOD)	Water level (m bgl)	Water level (m AOD)		
R1	12.00	84.88	50	1.94	82.94	2.30	82.58	2.20	82.68	2.38	82.50		
R2	11.50	84.60	50	1.73	82.87	2.20	82.40	2.22	82.38	2.22	82.38		
R3	11.50	82.35	50	1.67	80.68	1.86	80.49	1.66	80.69	1.70	80.65		
R4	11.50	82.90	50	1.00	81.90	1.09	81.81	0.91	81.99	1.85	81.05		
R5	12.00	83.39	50	1.00	82.39	1.72	81.67	1.60	81.79	1.63	81.76		
R6	6.00	83.92	50	2.20	81.72	2.20	81.72	2.33	81.59	2.60	81.32		

Site Data

Monitoring Personnel	Alex Aitken
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General Notes

APPLIED GEOLOGY

APPENDIX E

SOIL CHEMICAL RESULTS COMPARED AGAINST SCREENING VALUES FOR HUMAN HEALTH

Site: Howes Lane, Bicester
 Job No: AG2873-18
 Land Use: Commercial / Industrial
 Dataset: Commercial Area
 Soil Organic Matter (%): 6.0 %

Exploratory Hole Reference	Units	TP3	TP7	TP8	TP12	TP13	TP15	TP20	TP22	TP24	TP26	TP30	TP31	TP32	TP33	TP37	TP39	TP41	TP43	No. of samples (n)	Commercial / Industrial	Source/Justification
		1.00	0.25	0.70	0.20	0.10	0.50	1.10	0.25	0.70	0.15	0.10	0.25	0.25	10.00	0.25	0.30	0.20	0.60			
Depth (m)		Combrash	Topsoil	Combrash	Topsoil	Topsoil	Topsoil	Combrash	Topsoil	Combrash	Topsoil	Topsoil	Topsoil	Topsoil	Topsoil	Topsoil	Topsoil	Topsoil	Combrash			
Organic Matter (%)	%	14	0.40	4.7	2.8	2.9	4.3	0.81	3.6	3.3	3.1	3.3	4.3	4.7	4.0	3.5	3.8	3.1	1.6	24		
pH		8.2	7.8	8.1	7.8	7.5	7.6	8.2	7.9	8.4	7.7	7.7	7.8	7.5	7.6	7.8	6.2	7.8	8.0			
Arsenic	mg/kg	29	22	16	33	27	19	21	31	22	26	25	23	33	26	25	22	35	42	24	640	LQM/CIEH S4UL (2015)
Cadmium	mg/kg	0.1	0.36	0.18	0.42	0.39	0.35	0.1	0.43	0.1	0.42	0.4	0.39	0.46	0.48	0.43	0.36	0.43	0.31	24	190	LQM/CIEH S4UL (2015)
Chromium	mg/kg	11	41	31	40	44	40	10	35	6	36	33	34	35	37	32	34	36	24	24	8600	LQM/CIEH S4UL (2015)
Copper	mg/kg	6.3	14	10	16	18	18	4.9	18	3.9	18	17	16	16	20	17	17	17	12	24	68000	LQM/CIEH S4UL (2015)
Lead	mg/kg	6.8	31	17	37	56	31	5.8	32	3.7	32	37	37	33	41	32	38	35	20	24	2330	CASL (2014)
Mercury	mg/kg	0.1	0.1	0.1	0.1	0.47	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.17	0.14	24	1100	LQM/CIEH S4UL (2015)
Nickel	mg/kg	13	29	27	44	35	36	13	35	10	37	31	30	38	34	31	32	36	32	24	980	LQM/CIEH S4UL (2015)
Selenium	mg/kg	0.2	1.1	0.22	0.83	0.94	0.91	0.2	0.71	0.2	0.87	0.98	0.86	0.59	1.1	0.68	0.94	0.87	0.25	24	12000	LQM/CIEH S4UL (2015)
Zinc	mg/kg	9	61	52	61	67	74	2.2	60	6.9	66	68	60	58	83	65	68	62	34	24	730000	LQM/CIEH S4UL (2015)
Naphthalene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	1100	LQM/CIEH S4UL (2015)
Acenaphthylene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	100000	LQM/CIEH S4UL (2015)
Acenaphthene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	100000	LQM/CIEH S4UL (2015)
Fluorene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	71000	LQM/CIEH S4UL (2015)
Phenanthrene	mg/kg	0.83	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	23000	LQM/CIEH S4UL (2015)
Anthracene	mg/kg	0.11	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	540000	LQM/CIEH S4UL (2015)
Fluoranthene	mg/kg	1.8	0.1	0.1	0.1	0.1	0.1	0.1	0.34	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	23000	LQM/CIEH S4UL (2015)
Pyrene	mg/kg	1.7	0.1	0.1	0.1	0.1	0.1	0.1	0.21	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.43	0.1	0.1	24	54000	LQM/CIEH S4UL (2015)
Benzo[a]anthracene	mg/kg	0.65	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	180	LQM/CIEH S4UL (2015)
Chrysene	mg/kg	1.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	350	LQM/CIEH S4UL (2015)
Benzo[b]fluoranthene	mg/kg	0.64	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	45	LQM/CIEH S4UL (2015)
Benzo[k]fluoranthene	mg/kg	0.18	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	1200	LQM/CIEH S4UL (2015)
Benzo[a]pyrene	mg/kg	0.58	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	23	36	LQM/CIEH S4UL (2015)
Dibenzo[a,h]anthracene	mg/kg	0.34	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	3.6	LQM/CIEH S4UL (2015)
Indeno[1,2,3-cd]pyrene	mg/kg	0.62	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	510	LQM/CIEH S4UL (2015)
Benzo[g,h,i]perylene	mg/kg	0.69	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	24	4000	LQM/CIEH S4UL (2015)
Total of 16 PAHs	mg/kg	9.5	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00			
Benzene	µg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		9	90	LQM/CIEH S4UL (2015)
Toluene	µg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		9	180000	LQM/CIEH S4UL (2015)
Ethylbenzene	µg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		9	27000	LQM/CIEH S4UL (2015)
m&p Xylene	µg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		9	30000	LQM/CIEH S4UL (2015)
o-Xylene	µg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		9	33000	LQM/CIEH S4UL (2015)
Aliphatic TPH >C5-C6	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		9	12000	LQM/CIEH S4UL (2015)
Aliphatic TPH >C6-C8	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		9	40000	LQM/CIEH S4UL (2015)
Aliphatic TPH >C8-C10	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		9	11000	LQM/CIEH S4UL (2015)
Aliphatic TPH >C10-C12	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		9	47000	LQM/CIEH S4UL (2015)
Aliphatic TPH >C12-C16	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		9	90000	LQM/CIEH S4UL (2015)
Aliphatic TPH >C16-C21	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		9	-	-
Aliphatic TPH >C21-C35	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		9	No Risk	LQM/CIEH S4UL (2015)
Aliphatic TPH >C35-C44	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		9	No Risk	LQM/CIEH S4UL (2015)
Total Aliphatic Hydrocarbons	mg/kg			5.0	5.0		5.0			5.0				5.0		5.0		5.0		9		
Aromatic TPH >C5-C7	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		7	86000	LQM/CIEH S4UL (2015)
Aromatic TPH >C7-C8	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		7	180000	LQM/CIEH S4UL (2015)
Aromatic TPH >C8-C10	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		7	17000	LQM/CIEH S4UL (2015)
Aromatic TPH >C10-C12	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		7	34000	LQM/CIEH S4UL (2015)
Aromatic TPH >C12-C16	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		7	38000	LQM/CIEH S4UL (2015)
Aromatic TPH >C16-C21	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		7	28000	LQM/CIEH S4UL (2015)
Aromatic TPH >C21-C35	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		7	28000	LQM/CIEH S4UL (2015)
Aromatic TPH >C35-C44	mg/kg			1.0	1.0		1.0			1.0				1.0		1.0		1.0		7	28000	LQM/CIEH S4UL (2015)
Total Aromatic Hydrocarbons	mg/kg			5.0	5.0		5.0			5.0				5.0		5.0		5.0		7		
Total Petroleum Hydrocarbons	mg/kg			10.0	10.0		10.0			10.0				10.0		10.0		10.0				

Key - Values in bold are reported at the laboratory limit of detection

LQM/CIEH S4UL Reference No. S4UL3159 (2015)
 Values in bold are reported at the laboratory limit of detection

SOIL CHEMICAL RESULTS COMPARED AGAINST SCREENING VALUES FOR HUMAN HEALTH

Site: **Howes Lane, Bicester**
 Job No: **AG2873-18**

Land Use: **Residential**
 Dataset: **Housing Allocation Site Area**
 Soil Organic Matter (%): **2.5 %**

Exploratory Hole Reference	Depth (m)	TP49	TP50	TP51	TP55	TP56	TP57	No. of samples (n)	Residential with Plant Uptake	Residential without Plant Uptake	Source/Justification
		0.75	0.35	0.25	0.50	0.45	1.10				
Strata		Combrash	Combrash	Combrash	Combrash	Combrash	Combrash				
	Units										
Organic Matter (%)	%	1.1	1.4	3.1	2.9	4.7	0.90	6			
pH		8.3	8.1	7.9	8.1	8.0	8.2				
Arsenic	mg/kg	16	42	30	40	42	41	6	37	40	LQM/CI EH S4UL (2015)
Cadmium	mg/kg	0.1	0.32	0.36	0.24	0.44	0.15	6	11	85	LQM/CI EH S4UL (2015)
Chromium	mg/kg	4.6	26	33	21	32	15	6	910	910	LQM/CI EH S4UL (2015)
Copper	mg/kg	3	11	15	9	15	6.2	6	2400	7100	LQM/CI EH S4UL (2015)
Lead	mg/kg	3	20	26	19	31	11	6	200	310	C4SL (2014)
Mercury	mg/kg	0.1	0.11	0.12	0.1	0.12	0.1	6	40	56	LQM/CI EH S4UL (2015)
Nickel	mg/kg	6.9	36	38	25	42	21	6	130	180	LQM/CI EH S4UL (2015)
Selenium	mg/kg	0.2	0.34	0.62	0.27	0.43	0.2	6	250	430	LQM/CI EH S4UL (2015)
Zinc	mg/kg	5.8	34	53	28	46	17	6	3700	40000	LQM/CI EH S4UL (2015)
Naphthalene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	5.6	5.6	LQM/CI EH S4UL (2015)
Acenaphthylene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	510	4700	LQM/CI EH S4UL (2015)
Acenaphthene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	420	4600	LQM/CI EH S4UL (2015)
Fluorene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	400	3800	LQM/CI EH S4UL (2015)
Phenanthrene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	220	1500	LQM/CI EH S4UL (2015)
Anthracene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	5400	35000	LQM/CI EH S4UL (2015)
Fluoranthene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	560	1600	LQM/CI EH S4UL (2015)
Pyrene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	1200	3800	LQM/CI EH S4UL (2015)
Benzo[a]anthracene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	11	14	LQM/CI EH S4UL (2015)
Chrysene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	22	31	LQM/CI EH S4UL (2015)
Benzo[b]fluoranthene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	3.3	4.0	LQM/CI EH S4UL (2015)
Benzo[k]fluoranthene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	93	110	LQM/CI EH S4UL (2015)
Benzo[a]pyrene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	2.7	3.2	LQM/CI EH S4UL (2015)
Dibenzo[a,h]anthracene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	0.28	0.32	LQM/CI EH S4UL (2015)
Indeno[1,2,3-cd]pyrene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	36	46	LQM/CI EH S4UL (2015)
Benzo[g,h,i]perylene	mg/kg	0.1	0.1	0.1	0.1	0.1	0.1	6	340	360	LQM/CI EH S4UL (2015)
Total of 16 PAHs	mg/kg	2.00	2.00	2.00	2.00	2.00	2.00				
Phenols (Total)	mg/kg							0	200	690	LQM/CI EH S4UL (2015)
Benzene	µg/kg	1.0			1.0			2	0.17	0.7	LQM/CI EH S4UL (2015)
Toluene	µg/kg	1.0			1.0			2	290	1900	LQM/CI EH S4UL (2015)
Ethylbenzene	µg/kg	1.0			1.0			2	110	190	LQM/CI EH S4UL (2015)
m&p Xylene	µg/kg	1.0			1.0			2	130	180	LQM/CI EH S4UL (2015)
o-Xylene	µg/kg	1.0			1.0			2	140	210	LQM/CI EH S4UL (2015)
Aliphatic TPH >C5-C6	mg/kg	1.0			1.0			2	78	78	LQM/CI EH S4UL (2015)
Aliphatic TPH >C6-C8	mg/kg	1.0			1.0			2	230	230	LQM/CI EH S4UL (2015)
Aliphatic TPH >C8-C10	mg/kg	1.0			1.0			2	65	65	LQM/CI EH S4UL (2015)
Aliphatic TPH >C10-C12	mg/kg	1.0			1.0			2	330	330	LQM/CI EH S4UL (2015)
Aliphatic TPH >C12-C16	mg/kg	1.0			1.0			2	2400	2400	LQM/CI EH S4UL (2015)
Aliphatic TPH >C16-C21	mg/kg	1.0			1.0				-	-	
Aliphatic TPH >C21-C35	mg/kg	1.0			1.0			2	92000	92000	LQM/CI EH S4UL (2015)
Aliphatic TPH >C35-C44	mg/kg	1.0			1.0			2	92000	92000	LQM/CI EH S4UL (2015)
Total Aliphatic Hydrocarbons	mg/kg	5.0			5.0			2			
Aromatic TPH >C5-C7	mg/kg	1.0			1.0				140	690	LQM/CI EH S4UL (2015)
Aromatic TPH >C7-C8	mg/kg	1.0			1.0			2	290	1800	LQM/CI EH S4UL (2015)
Aromatic TPH >C8-C10	mg/kg	1.0			1.0			2	83	110	LQM/CI EH S4UL (2015)
Aromatic TPH >C10-C12	mg/kg	1.0			1.0			2	180	590	LQM/CI EH S4UL (2015)
Aromatic TPH >C12-C16	mg/kg	1.0			1.0			2	330	2300	LQM/CI EH S4UL (2015)
Aromatic TPH >C16-C21	mg/kg	1.0			1.0			2	540	1900	LQM/CI EH S4UL (2015)
Aromatic TPH >C21-C35	mg/kg	1.0			1.0			2	1500	1900	LQM/CI EH S4UL (2015)
Aromatic TPH >C35-C44	mg/kg	1.0			1.0			2	1500	1900	LQM/CI EH S4UL (2015)
Total Aromatic Hydrocarbons	mg/kg	5.0			5.0						
Total Petroleum Hydrocarbons	mg/kg	10.0			10.0						

Key -
Value within a sample set exceeds screening value

LQM/CI EH S4UL Reference No. S4UL3159 (2015)
 Values in bold are reported at the laboratory limit of detection

SUMMARY OF GROUNDWATER TEST RESULTS

Site Howes Lane, Bicester
Job Number AG2873-18
Type of Water Groundwater

Determinand	Limit of Detection	Hazardous or Non-Hazardous^	Sample Identity Depth Sampled Date	R4 4.50 31/08/2018	R3 4.50 31/08/2018	R1 4.50 31/08/2018	R6 4.50 31/08/2018	No. of samples (n)	Waters Screening Value	Source & Justification
Hardness		-	mg l ⁻¹	320.00	380.00	370.00	330.00	4	-	-
pH		-	-	7.70	7.80	7.70	7.60	4	-	-
Arsenic		Haz	µg l ⁻¹	1.0	1.0	1.0	1.0	4	10	UK Drinking Water Standards (2010)
Cadmium		Non Haz	µg l ⁻¹	0.08	0.08	0.08	0.08	4	5	UK Drinking Water Standards (2010)
Chromium (Total)		Non Haz	µg l ⁻¹	1.0	1.0	1.0	1.0	4		
Copper		Non Haz	µg l ⁻¹	1.0	1.0	1.0	1.0	4	2000	UK Drinking Water Standards (2010)
Lead		Haz	µg l ⁻¹	1.0	1.0	1.4	1.0	4	10	UK Drinking Water Standards (2010)
Mercury		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4		Detection limit
Nickel		Non Haz	µg l ⁻¹	1.0	1.0	1.0	1.6	4	20	UK Drinking Water Standards (2010)
Selenium		Non Haz	µg l ⁻¹	1.0	1.0	1.0	1.0	4		UK Drinking Water Standards (2010)
Zinc		Non Haz	µg l ⁻¹	3.1	6.3	4.8	1.4	4	8	WFD Environmental Standard, 2010
Boron		Non Haz	µg l ⁻¹	710	990	890	150	4	1000	UK Drinking Water Standards (2010)
Beryllium		Non Haz	µg l ⁻¹	1.0	1.0	1.0	1.0	4	-	Not of health concern at the levels found in drinking water
Vanadium		Non Haz	µg l ⁻¹	1.0	1.0	1.0	1.0	4	60	EQS
Sulphate		Non Haz	mg l ⁻¹	160	310	210	47	4	250	UK Drinking Water Standards (2010)
Phenol		Non Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	7.7	WFD Environmental Standard, 2010
Naphthalene		Non Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Acenaphthylene		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Acenaphthene		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Fluorene		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Phenanthrene		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Anthracene		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Fluoranthene		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Pyrene		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Benzo[a]anthracene		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Chrysene		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Benzo[b]fluoranthene		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Benzo[k]fluoranthene		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Benzo[a]pyrene		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Dibenz(a,h)Anthracene		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Indeno(1,2,3-c,d)Pyrene		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Benzo[g,h,i]perylene		Haz	µg l ⁻¹	0.50	0.50	0.50	0.50	4	0.5	Detection limit
Benzene		Haz	µg l ⁻¹	1.0	1.0	1.0	1.0	4	1	Detection limit
Toluene		Haz	µg l ⁻¹	1.0	1.0	1.0	1.0	4	1	Detection limit
Ethylbenzene		Haz	µg l ⁻¹	1.0	1.0	1.0	1.0	4	1	Detection limit
m & p-Xylene		Haz	µg l ⁻¹	1.0	1.0	1.0	1.0	4	1	Detection limit
o-Xylene		Haz	µg l ⁻¹	1.0	1.0	1.0	1.0	4	1	Detection limit
TPH										
Aliphatic TPH >C5-C6		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit
Aliphatic TPH >C6-C8		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit
Aliphatic TPH >C8-C10		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit
Aliphatic TPH >C10-C12		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit
Aliphatic TPH >C12-C16		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit
Aliphatic TPH >C16-C21		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit
Aliphatic TPH >C21-C35		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit
Aliphatic TPH >C35-C44		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit

SUMMARY OF GROUNDWATER TEST RESULTS

Site Howes Lane, Bicester
 Job Number AG2873-18
 Type of Water Groundwater

Determinand	Limit of Detection	Hazardous or Non-Hazardous ^A	Sample Identity Depth Sampled Date	R4 4.50 31/08/2018	R3 4.50 31/08/2018	R1 4.50 31/08/2018	R6 4.50 31/08/2018	No. of samples (n)	Waters Screening Value	Source & Justification
Total Aliphatic Hydrocarbons		Haz	µg l ⁻¹	5.0	5.0	5.0	5.0	4	-	
Aromatic TPH >C5-C7		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit
Aromatic TPH >C7-C8		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit
Aromatic TPH >C8-C10		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit
Aromatic TPH >C10-C12		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit
Aromatic TPH >C12-C16		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit
Aromatic TPH >C16-C21		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit
Aromatic TPH >C21-C35		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit
Aromatic TPH >C35-C44		Haz	µg l ⁻¹	0.10	0.10	0.10	0.10	4	0.1	Detection limit
Total Aromatic Hydrocarbons		Haz	µg l ⁻¹	5.0	5.0	5.0	5.0	4	-	-
Total Petroleum Hydrocarbons		Haz	µg l ⁻¹	10	10	10	10	4	10	Detection Limit
VOC				All results less than laboratory detection limit						
SVOC				All results less than laboratory detection limit						

Key-

Result exceeds test Detection Limit (for Haz determinands)

Result exceeds Screening Value (for Non Haz determinands)

Values in bold at the limit of detection

^A Note: Hazardous and non-hazardous substances determined by JAGDAG (Jan 2017) and published at <http://www.wfduk.org/sites/default/files/Media/170116%20Substance%20Determinationsfinal.pdf>. These are marked in bold. For substances not assessed by JAGDAG, Applied Geology has assumed a determination based on our understanding of the behaviour of the chemical. These determinations are highlighted in yellow.



Final Report

Report No.: 18-26124-1

Initial Date of Issue: 07-Sep-2018

Client: Applied Geology

Client Address: Unit 23, Abbey Park□
Stareton□
Kenilworth□
Warwickshire□
CV8 2LY

Contact(s): Adam Perks□
Lab Results

Project: AG2873-18 - Howes Lane, Bicester

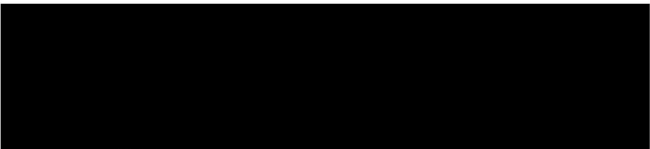
Quotation No.: **Date Received:** 29-Aug-2018

Order No.: 13340 **Date Instructed:** 29-Aug-2018

No. of Samples: 3

Turnaround (Wkdays): 7 **Results Due:** 06-Sep-2018

Date Approved: 07-Sep-2018

Approved By:


Details: Martin Dyer, Laboratory Manager□

Project: AG2873-18 - Howes Lane, Bicester

Chemtest Job No: 18-26124 Chemtest Sample ID: 679754 Sample Ref: Sample ID: Sample Location: T20 Top Depth(m): 1.10 Bottom Depth(m): Sampling Date: 15-Aug-2018							Landfill Waste Acceptance Criteria Limits			
							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	U	%				0.54	3	5	6
Loss On Ignition	2610	U	%				3.1	--	--	10
Total BTEX	2760	U	mg/kg				< 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg				< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg				< 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg				< 2.0	100	--	--
pH	2010	U					8.2	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg				0.18	--	To evaluate	To evaluate
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.5	2	25	
Barium	1450	U	0.0021	0.0014	< 0.50	< 0.50	20	100	300	
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5	
Chromium	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.5	10	70	
Copper	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	2	50	100	
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2	
Molybdenum	1450	U	< 0.0010	0.0010	< 0.050	< 0.050	0.5	10	30	
Nickel	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.4	10	40	
Lead	1450	U	< 0.0010	< 0.0010	< 0.010	< 0.010	0.5	10	50	
Antimony	1450	U	< 0.0010	< 0.0010	< 0.010	< 0.010	0.06	0.7	5	
Selenium	1450	U	< 0.0010	< 0.0010	< 0.010	< 0.010	0.1	0.5	7	
Zinc	1450	U	0.0038	0.0019	< 0.50	< 0.50	4	50	200	
Chloride	1220	U	1.3	1.6	< 10	16	800	15000	25000	
Fluoride	1220	U	0.40	0.40	< 1.0	4.0	10	150	500	
Sulphate	1220	U	6.7	3.3	13	37	1000	20000	50000	
Total Dissolved Solids	1020	N	94	55	190	600	4000	60000	100000	
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	11	7.8	< 50	82	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	12

Leachate Test Information	
Leachant volume 1st extract/l	0.326
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.208

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Project: AG2873-18 - Howes Lane, Bicester

Chemtest Job No: 18-26124							Landfill Waste Acceptance Criteria			
Chemtest Sample ID: 679755							Limits			
Sample Ref:							Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample ID:										
Sample Location: T35										
Top Depth(m): 2.20										
Bottom Depth(m):										
Sampling Date: 14-Aug-2018										
Determinand	SOP	Accred.	Units							
Total Organic Carbon	2625	U	%				< 0.20	3	5	6
Loss On Ignition	2610	U	%				2.4	--	--	10
Total BTEX	2760	U	mg/kg				[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815	U	mg/kg				< 0.10	1	--	--
TPH Total WAC (Mineral Oil)	2670	U	mg/kg				[B] < 10	500	--	--
Total (Of 17) PAH's	2700	N	mg/kg				< 2.0	100	--	--
pH	2010	U					8.2	--	>6	--
Acid Neutralisation Capacity	2015	N	mol/kg				0.11	--	To evaluate	To evaluate
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg			
Arsenic	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.5	2	25	
Barium	1450	U	0.0019	< 0.0010	< 0.50	< 0.50	20	100	300	
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5	
Chromium	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.5	10	70	
Copper	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	2	50	100	
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2	
Molybdenum	1450	U	< 0.0010	0.0012	< 0.050	< 0.050	0.5	10	30	
Nickel	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.4	10	40	
Lead	1450	U	< 0.0010	< 0.0010	< 0.010	< 0.010	0.5	10	50	
Antimony	1450	U	< 0.0010	< 0.0010	< 0.010	< 0.010	0.06	0.7	5	
Selenium	1450	U	< 0.0010	< 0.0010	< 0.010	< 0.010	0.1	0.5	7	
Zinc	1450	U	< 0.0010	< 0.0010	< 0.50	< 0.50	4	50	200	
Chloride	1220	U	2.2	< 1.0	< 10	< 10	800	15000	25000	
Fluoride	1220	U	1.2	1.0	2.4	10	10	150	500	
Sulphate	1220	U	12	3.1	24	39	1000	20000	50000	
Total Dissolved Solids	1020	N	110	57	220	620	4000	60000	100000	
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-	
Dissolved Organic Carbon	1610	U	12	9.7	< 50	99	500	800	1000	

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	14

Leachate Test Information	
Leachant volume 1st extract/l	0.322
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.152

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Project: AG2873-18 - Howes Lane, Bicester

Chemtest Job No: 18-26124							Landfill Waste Acceptance Criteria																																
Chemtest Sample ID: 679756							<table border="1"> <thead> <tr> <th colspan="3">Limits</th> </tr> <tr> <th>Inert Waste Landfill</th> <th>Stable, Non-reactive hazardous waste in non-hazardous Landfill</th> <th>Hazardous Waste Landfill</th> </tr> </thead> <tbody> <tr> <td>1.5</td> <td>3</td> <td>5</td> </tr> <tr> <td>5.4</td> <td>--</td> <td>--</td> </tr> <tr> <td>< 0.010</td> <td>6</td> <td>--</td> </tr> <tr> <td>< 0.10</td> <td>1</td> <td>--</td> </tr> <tr> <td>< 10</td> <td>500</td> <td>--</td> </tr> <tr> <td>< 2.0</td> <td>100</td> <td>--</td> </tr> <tr> <td>8.0</td> <td>--</td> <td>>6</td> </tr> <tr> <td>0.055</td> <td>--</td> <td>To evaluate</td> </tr> </tbody> </table>			Limits			Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	1.5	3	5	5.4	--	--	< 0.010	6	--	< 0.10	1	--	< 10	500	--	< 2.0	100	--	8.0	--	>6	0.055	--	To evaluate
Limits																																							
Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill																																					
1.5	3	5																																					
5.4	--	--																																					
< 0.010	6	--																																					
< 0.10	1	--																																					
< 10	500	--																																					
< 2.0	100	--																																					
8.0	--	>6																																					
0.055	--	To evaluate																																					
Sample Ref:																																							
Sample ID:																																							
Sample Location: T56																																							
Top Depth(m): 0.45																																							
Bottom Depth(m):																																							
Sampling Date: 22-Aug-2018																																							
Determinand	SOP	Accred.	Units																																				
Total Organic Carbon	2625	U	%																																				
Loss On Ignition	2610	U	%																																				
Total BTEX	2760	U	mg/kg																																				
Total PCBs (7 Congeners)	2815	U	mg/kg																																				
TPH Total WAC (Mineral Oil)	2670	U	mg/kg																																				
Total (Of 17) PAH's	2700	N	mg/kg																																				
pH	2010	U																																					
Acid Neutralisation Capacity	2015	N	mol/kg																																				
Eluate Analysis			2:1 mg/l	8:1 mg/l	2:1 mg/kg	Cumulative mg/kg 10:1	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg																																
Arsenic	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.5	2	25																														
Barium	1450	U	0.0075	0.0020	< 0.50	< 0.50	20	100	300																														
Cadmium	1450	U	< 0.00010	< 0.00010	< 0.010	< 0.010	0.04	1	5																														
Chromium	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.5	10	70																														
Copper	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	2	50	100																														
Mercury	1450	U	< 0.00050	< 0.00050	< 0.0010	< 0.0050	0.01	0.2	2																														
Molybdenum	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.5	10	30																														
Nickel	1450	U	< 0.0010	< 0.0010	< 0.050	< 0.050	0.4	10	40																														
Lead	1450	U	< 0.0010	< 0.0010	< 0.010	< 0.010	0.5	10	50																														
Antimony	1450	U	< 0.0010	< 0.0010	< 0.010	< 0.010	0.06	0.7	5																														
Selenium	1450	U	< 0.0010	< 0.0010	< 0.010	< 0.010	0.1	0.5	7																														
Zinc	1450	U	< 0.0010	< 0.0010	< 0.50	< 0.50	4	50	200																														
Chloride	1220	U	5.0	< 1.0	< 10	< 10	800	15000	25000																														
Fluoride	1220	U	0.49	0.47	< 1.0	4.7	10	150	500																														
Sulphate	1220	U	9.0	3.5	18	43	1000	20000	50000																														
Total Dissolved Solids	1020	N	190	100	380	1100	4000	60000	100000																														
Phenol Index	1920	U	< 0.030	< 0.030	< 0.30	< 0.50	1	-	-																														
Dissolved Organic Carbon	1610	U	15	12	< 50	120	500	800	1000																														

Solid Information	
Dry mass of test portion/kg	0.175
Moisture (%)	7.7

Leachate Test Information	
Leachant volume 1st extract/l	0.335
Leachant volume 2nd extract/l	1.400
Eluant recovered from 1st extract/l	0.266

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
679755			T35	14-Aug-2018	B	Amber Glass 250ml
679755			T35	14-Aug-2018	B	Amber Glass 60ml
679755			T35	14-Aug-2018	B	Plastic Tub 500g

SOP	Title	Parameters included	Method summary
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Conductivity Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1450	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.
2010	pH Value of Soils	pH	pH Meter
2015	Acid Neutralisation Capacity	Acid Reserve	Titration
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <37°C.
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID
2700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenz[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS
640	Characterisation of Waste (Leaching)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge

Report Information

Key

- U UKAS accredited
- M MCERTS and UKAS accredited
- N Unaccredited
- S This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
- SN This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
- T This analysis has been subcontracted to an unaccredited laboratory
- I/S Insufficient Sample
- U/S Unsuitable Sample
- N/E not evaluated
- < "less than"
- > "greater than"

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:

customerservices@chemtest.com



Amended Report

Report No.: 18-26118-2

Initial Date of Issue: 05-Sep-2018 **Date of Re-Issue:** 26-Sep-2018

Client: Applied Geology

Client Address: Unit 23, Abbey Park□
Stareton□
Kenilworth□
Warwickshire□
CV8 2LY

Contact(s): Adam Perks□
Lab Results

Project: AG2873-18 - Howes Lane, Bicester

Quotation No.: **Date Received:** 29-Aug-2018

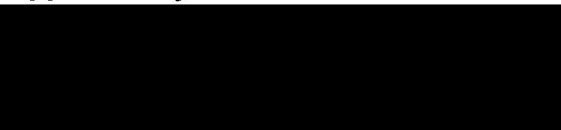
Order No.: 13340 **Date Instructed:** 29-Aug-2018

No. of Samples: 24

Turnaround (Wkdays): 21 **Results Due:** 26-Sep-2018

Date Approved: 26-Sep-2018

Approved By:



Details: Martin Dyer, Laboratory Manager□

Results - Soil

Client: Applied Geology	Chemtest Job No.:				18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118
Quotation No.:	Chemtest Sample ID.:				679678	679679	679680	679681	679682	679683	679684	679685	679685
	Sample Location:				T03	T07	T08	T12	T13	T15	T20	T22	
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):				1.00	0.25	0.70	0.20	0.10	0.50	1.10	0.25	
	Date Sampled:				16-Aug-2018	17-Aug-2018	17-Aug-2018	17-Aug-2018	15-Aug-2018	15-Aug-2018	15-Aug-2018	15-Aug-2018	15-Aug-2018
	Asbestos Lab:					COVENTRY		COVENTRY		COVENTRY		COVENTRY	
Determinand	Accred.	SOP	Units	LOD									
Organic Matter	M	2625	%	0.40	14	< 0.40	4.7	2.6	2.9	4.3	0.81	3.6	
Arsenic	M	2450	mg/kg	1.0	29	22	16	33	27	19	21	31	
Cadmium	M	2450	mg/kg	0.10	< 0.10	0.36	0.18	0.42	0.39	0.35	< 0.10	0.43	
Chromium	M	2450	mg/kg	1.0	11	41	31	40	44	40	10	35	
Copper	M	2450	mg/kg	0.50	6.3	14	10	16	18	18	4.9	18	
Lead	M	2450	mg/kg	0.50	6.8	31	17	37	56	31	5.8	32	
Magnesium (Water Soluble)	N	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	< 0.10	0.10	0.47	< 0.10	< 0.10	< 0.10	
Nickel	M	2450	mg/kg	0.50	13	29	27	44	35	36	13	35	
Selenium	M	2450	mg/kg	0.20	< 0.20	1.1	0.22	0.83	0.94	0.91	< 0.20	0.71	
Zinc	M	2450	mg/kg	0.50	9.0	61	52	61	67	74	22	60	
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Phenanthrene	M	2700	mg/kg	0.10	0.83	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Anthracene	M	2700	mg/kg	0.10	0.11	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Fluoranthene	M	2700	mg/kg	0.10	1.8	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.34	
Pyrene	M	2700	mg/kg	0.10	1.7	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.21	
Benzo[a]anthracene	M	2700	mg/kg	0.10	0.65	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Chrysene	M	2700	mg/kg	0.10	1.4	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	0.64	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	0.18	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[a]pyrene	M	2700	mg/kg	0.10	0.58	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	0.34	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	0.62	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	0.69	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Total Of 16 PAH's	M	2700	mg/kg	2.0	9.5	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
Benzene	M	2760	µg/kg	1.0			< 1.0	< 1.0		< 1.0			
Toluene	M	2760	µg/kg	1.0			< 1.0	< 1.0		< 1.0			
Ethylbenzene	M	2760	µg/kg	1.0			< 1.0	< 1.0		< 1.0			
m & p-Xylene	M	2760	µg/kg	1.0			< 1.0	< 1.0		< 1.0			
o-Xylene	M	2760	µg/kg	1.0			< 1.0	< 1.0		< 1.0			
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			

Results - Soil

Client: Applied Geology	Chemtest Job No.:				18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118
Quotation No.:	Chemtest Sample ID.:				679678	679679	679680	679681	679682	679683	679684	679685	
	Sample Location:				T03	T07	T08	T12	T13	T15	T20	T22	
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Top Depth (m):				1.00	0.25	0.70	0.20	0.10	0.50	1.10	0.25	
	Date Sampled:				16-Aug-2018	17-Aug-2018	17-Aug-2018	17-Aug-2018	15-Aug-2018	15-Aug-2018	15-Aug-2018	15-Aug-2018	
	Asbestos Lab:					COVENTRY		COVENTRY		COVENTRY		COVENTRY	
Determinand	Accred.	SOP	Units	LOD									
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0			< 5.0	< 5.0		< 5.0			
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0			< 1.0	< 1.0		< 1.0			
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0			< 5.0	< 5.0		< 5.0			
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0			< 10	< 10		< 10			
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	
ACM Type	U	2192		N/A		-		-		-		-	
Asbestos Identification	U	2192	%	0.001		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected		No Asbestos Detected	
Moisture	N	2030	%	0.020	9.4	17	12	10	13	19	11	11	
Stones and Removed Materials	N	2030	%	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	
Soil Colour	N	2040		N/A	Brown, Beige	Brown	Black	Brown	Brown	Brown	Brown, Beige	Brown	
Other Material	N	2040		N/A	Stones	Stones	Stones	Stones, Roots 3%	Stones, Roots 3%	Stones	Stones	Stones	
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	
pH	M	2010		N/A	8.2	7.8	8.1	7.8	7.5	7.6	8.2	7.9	
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0			< 1.0	< 1.0		< 1.0			
Demeton-O	N	2820	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20				
Phorate	N	2820	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20				
Demeton-S	N	2820	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20				
Disulfoton	N	2820	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20				
Fenthion	N	2820	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20				
Trichloronate	N	2820	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20				
Prothiofos	N	2820	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20				
Fensulphothion	N	2820	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20				
Sulprofos	N	2820	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20				
Azinphos-Methyl	N	2820	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20				
Coumaphos	N	2820	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20				
Atraton	N	2830	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20				
Prometon	N	2830	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20				

Results - Soil

Client: Applied Geology	Chemtest Job No.:				18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118
Quotation No.:	Chemtest Sample ID.:				679678	679679	679680	679681	679682	679683	679684	679685
	Sample Location:				T03	T07	T08	T12	T13	T15	T20	T22
	Sample Type:				SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):				1.00	0.25	0.70	0.20	0.10	0.50	1.10	0.25
	Date Sampled:				16-Aug-2018	17-Aug-2018	17-Aug-2018	17-Aug-2018	15-Aug-2018	15-Aug-2018	15-Aug-2018	15-Aug-2018
	Asbestos Lab:					COVENTRY		COVENTRY		COVENTRY		COVENTRY
Determinand	Accred.	SOP	Units	LOD								
Simazine	N	2830	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Atrazine	N	2830	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Propazine	N	2830	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Terbuthylazine	N	2830	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Secbumeton	N	2830	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Simetryn	N	2830	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Ametryn	N	2830	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Prometryn	N	2830	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Terbutryn	N	2830	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Alpha-HCH	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Beta-HCH	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Delta-HCH	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Heptachlor	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Aldrin	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Heptachlor Epoxide	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Gamma-Chlordane	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Alpha-Chlordane	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Endosulfan I	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
4,4-DDE	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Dieldrin	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Endrin	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
4,4-DDD	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Endosulfan II	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Endrin Aldehyde	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
4,4-DDT	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Endosulfan Sulphate	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Methoxychlor	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			
Endrin Ketone	N	2840	mg/kg	0.20	< 0.20	< 0.20	< 0.20		< 0.20			

Results - Soil

Client: Applied Geology	Chemtest Job No.:											
Quotation No.:	Chemtest Sample ID.:											
	Sample Location:											
	Sample Type:											
	Top Depth (m):											
	Date Sampled:											
	Asbestos Lab:											
Determinand	Accred.	SOP	Units	LOD	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118
Organic Matter	M	2625	%	0.40	3.3	3.1	3.3	4.3	4.7	4.0	3.5	3.8
Arsenic	M	2450	mg/kg	1.0	22	26	25	23	33	26	25	22
Cadmium	M	2450	mg/kg	0.10	< 0.10	0.42	0.40	0.39	0.46	0.48	0.43	0.36
Chromium	M	2450	mg/kg	1.0	6.0	36	33	34	35	37	32	34
Copper	M	2450	mg/kg	0.50	3.9	18	17	16	16	20	17	17
Lead	M	2450	mg/kg	0.50	3.7	32	37	37	33	41	32	38
Magnesium (Water Soluble)	N	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Mercury	M	2450	mg/kg	0.10	< 0.10	< 0.10	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	M	2450	mg/kg	0.50	10	37	31	30	38	34	31	32
Selenium	M	2450	mg/kg	0.20	< 0.20	0.87	0.98	0.86	0.59	1.1	0.68	0.94
Zinc	M	2450	mg/kg	0.50	6.9	66	68	60	58	83	65	68
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.37
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.43
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	M	2760	µg/kg	1.0	< 1.0				< 1.0		[B] < 1.0	
Toluene	M	2760	µg/kg	1.0	< 1.0				< 1.0		[B] < 1.0	
Ethylbenzene	M	2760	µg/kg	1.0	< 1.0				< 1.0		[B] < 1.0	
m & p-Xylene	M	2760	µg/kg	1.0	< 1.0				< 1.0		[B] < 1.0	
o-Xylene	M	2760	µg/kg	1.0	< 1.0				< 1.0		[B] < 1.0	
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0	
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0	
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0	
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0	
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0	
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0	

Results - Soil

Client: Applied Geology	Chemtest Job No.:					18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118
Quotation No.:	Chemtest Sample ID.:					679686	679687	679688	679689	679690	679691	679692	679693
	Sample Location:					T24	T26	T30	T31	T32	T33	T37	T39
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.70	0.15	0.10	0.25	0.25	0.10	0.25	0.30
	Date Sampled:					15-Aug-2018	14-Aug-2018	20-Aug-2018	22-Aug-2018	20-Aug-2018	14-Aug-2018	14-Aug-2018	10-Aug-2018
	Asbestos Lab:							COVENTRY					
Determinand	Accred.	SOP	Units	LOD									
Aliphatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0		
Aliphatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0		
Total Aliphatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0				< 5.0		[B] < 5.0		
Aromatic TPH >C5-C7	N	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0		
Aromatic TPH >C7-C8	N	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0		
Aromatic TPH >C8-C10	M	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0		
Aromatic TPH >C10-C12	M	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0		
Aromatic TPH >C12-C16	M	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0		
Aromatic TPH >C16-C21	U	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0		
Aromatic TPH >C21-C35	M	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0		
Aromatic TPH >C35-C44	N	2680	mg/kg	1.0	< 1.0				< 1.0		[B] < 1.0		
Total Aromatic Hydrocarbons	N	2680	mg/kg	5.0	< 5.0				< 5.0		[B] < 5.0		
Total Petroleum Hydrocarbons	N	2680	mg/kg	10.0	< 10				< 10		[B] < 10		
Sulphate (2:1 Water Soluble) as SO4	M	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
ACM Type	U	2192		N/A				-					
Asbestos Identification	U	2192	%	0.001				No Asbestos Detected					
Moisture	N	2030	%	0.020	7.7	8.3	14	10	10	11	8.0	8.2	
Stones and Removed Materials	N	2030	%	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Soil Colour	N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material	N	2040		N/A	Stones	Stones, Roots 2%	Stones, Roots 2%	Stones, Roots 3%	Wood 3%	Roots 5%	Stones	Stones, Roots 3%	
Soil Texture	N	2040		N/A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
pH	M	2010		N/A	8.4	7.7	7.7	7.8	7.5	7.6	7.8	6.2	
Methyl Tert-Butyl Ether	M	2760	µg/kg	1.0	< 1.0				< 1.0		[B] < 1.0		
Demeton-O	N	2820	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20			
Phorate	N	2820	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20			
Demeton-S	N	2820	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20			
Disulfoton	N	2820	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20			
Fenthion	N	2820	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20			
Trichloronate	N	2820	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20			
Prothiofos	N	2820	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20			
Fensulphothion	N	2820	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20			
Sulprofos	N	2820	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20			
Azinphos-Methyl	N	2820	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20			
Coumaphos	N	2820	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20			
Atraton	N	2830	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20			
Prometon	N	2830	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20			

Results - Soil

Client: Applied Geology	Chemtest Job No.:		18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118
Quotation No.:	Chemtest Sample ID.:		679686	679687	679688	679689	679690	679691	679692	679693
	Sample Location:		T24	T26	T30	T31	T32	T33	T37	T39
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):		0.70	0.15	0.10	0.25	0.25	0.10	0.25	0.30
	Date Sampled:		15-Aug-2018	14-Aug-2018	20-Aug-2018	22-Aug-2018	20-Aug-2018	14-Aug-2018	14-Aug-2018	10-Aug-2018
	Asbestos Lab:				COVENTRY					
Determinand	Accred.	SOP	Units	LOD						
Simazine	N	2830	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Atrazine	N	2830	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Propazine	N	2830	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Terbuthylazine	N	2830	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Secbumeton	N	2830	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Simetryn	N	2830	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Ametryn	N	2830	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Prometryn	N	2830	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Terbutryn	N	2830	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Alpha-HCH	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Gamma-HCH (Lindane)	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Beta-HCH	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Delta-HCH	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Heptachlor	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Aldrin	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Heptachlor Epoxide	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Gamma-Chlordane	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Alpha-Chlordane	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Endosulfan I	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
4,4-DDE	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Dieldrin	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Endrin	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
4,4-DDD	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Endosulfan II	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Endrin Aldehyde	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
4,4-DDT	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Endosulfan Sulphate	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Methoxychlor	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20
Endrin Ketone	N	2840	mg/kg	0.20	< 0.20	< 0.20		< 0.20	< 0.20	< 0.20

Results - Soil

Client: Applied Geology	Chemtest Job No.:		18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118	18-26118
Quotation No.:	Chemtest Sample ID.:		679694	679695	679696	679697	679698	679699	679700	679701		
	Sample Location:		T41	T43	T49	T50	T51	T55	T56	T57		
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
	Top Depth (m):		0.20	0.60	0.75	0.35	0.25	0.50	0.45	1.10		
	Date Sampled:		10-Aug-2018	10-Aug-2018	20-Aug-2018	22-Aug-2018	22-Aug-2018	20-Aug-2018	22-Aug-2018	20-Aug-2018		
	Asbestos Lab:			COVENTRY			COVENTRY	COVENTRY				
Determinand	Accred.	SOP	Units	LOD								
Organic Matter	M	2625	%	0.40	3.1	1.6	1.1	1.4	3.1	2.9	4.7	0.90
Arsenic	M	2450	mg/kg	1.0	35	42	16	43	30	40	42	41
Cadmium	M	2450	mg/kg	0.10	0.43	0.31	< 0.10	0.32	0.36	0.24	0.44	0.15
Chromium	M	2450	mg/kg	1.0	36	24	4.6	26	33	21	32	15
Copper	M	2450	mg/kg	0.50	17	12	3.0	11	15	9.0	15	6.2
Lead	M	2450	mg/kg	0.50	35	20	3.0	20	26	19	31	11
Magnesium (Water Soluble)	N	2120	g/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Mercury	M	2450	mg/kg	0.10	0.17	0.14	< 0.10	0.11	0.12	0.10	0.12	< 0.10
Nickel	M	2450	mg/kg	0.50	36	32	6.9	36	38	25	42	21
Selenium	M	2450	mg/kg	0.20	0.87	0.25	< 0.20	0.34	0.62	0.27	0.43	< 0.20
Zinc	M	2450	mg/kg	0.50	62	34	5.8	34	53	28	46	17
Naphthalene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	M	2700	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	M	2700	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Benzene	M	2760	µg/kg	1.0	[B] < 1.0		< 1.0		< 1.0			
Toluene	M	2760	µg/kg	1.0	[B] < 1.0		< 1.0		< 1.0			
Ethylbenzene	M	2760	µg/kg	1.0	[B] < 1.0		< 1.0		< 1.0			
m & p-Xylene	M	2760	µg/kg	1.0	[B] < 1.0		< 1.0		< 1.0			
o-Xylene	M	2760	µg/kg	1.0	[B] < 1.0		< 1.0		< 1.0			
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	[B] < 1.0		< 1.0		< 1.0			
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	[B] < 1.0		< 1.0		< 1.0			
Aliphatic TPH >C8-C10	M	2680	mg/kg	1.0	[B] < 1.0		< 1.0		< 1.0			
Aliphatic TPH >C10-C12	M	2680	mg/kg	1.0	[B] < 1.0		< 1.0		< 1.0			
Aliphatic TPH >C12-C16	M	2680	mg/kg	1.0	[B] < 1.0		< 1.0		< 1.0			
Aliphatic TPH >C16-C21	M	2680	mg/kg	1.0	[B] < 1.0		< 1.0		< 1.0			