



BOREHOLE RECORD

BH02
Sheet 1 of 1

Site: Leadenham Landfill, Lincolnshire	Contract No: C8756
Client: FCC Environment	Date(s): 29/05/2020
Method: Cable percussion drilling rig with 150mm diameter tools and casing.	Scale: 1:50

SAMPLE DETAILS

STRATA RECORD

Logged By: AL Checked By: AMG
Driller: RP Drilling

Type	Depth From - To(m)	SPT (N), (ppm), (Cu Peak), Vane Result (kN/m ²)	Ground -water	Description	Depth (m)	Level (m AOD)	Legend	Well
D	1.00			MADE GROUND: Light brown clayey very sandy GRAVEL. Gravel is fine to coarse, angular to sub-angular, of sandstone, ironstone, limestone, mudstone and brick. [TRIAL PIT BACKFILL] MADE GROUND: Stiff reddish-brown sandy very gravelly CLAY. Low plasticity (field description). Gravel is fine to coarse, sub-angular to sub-rounded, of ironstone with some mudstone and limestone.	0.45			
D	2.00			<i>Extremely rapid progress with few returns from 2m to 4m bgl.</i>				
D	3.00							
D	4.00			<i>Becoming firm from c. 4m bgl.</i>				
D	5.00							
D	6.00							
D	7.00			<i>Becoming stiff from c. 7m bgl.</i>				
D	8.00							
D	9.00							
D	10.00			End of Borehole at 10.00m	10.00			

Remarks and Groundwater Observations:
 1. Borehole drilled through backfill of TP02. 2. Terminated at scheduled depth. 3. Borehole remained open and dry on completion. 4. Backfilled with arisings and sealed with bentonite.

GL (mAOD)
Easting: 496358.00
Northing: 352565.00

Fig No.
BH02



BOREHOLE RECORD

BH03
Sheet 1 of 1

Site: Leadenham Landfill, Lincolnshire	Contract No: C8756
Client: FCC Environment	Date(s): 29/05/2020
Method: Cable percussion drilling rig with 150mm diameter tools and casing.	Scale: 1:50

SAMPLE DETAILS

STRATA RECORD

Logged By: AL Checked By: AMG
Driller: RP Drilling

Type	Depth From - To(m)	SPT (N), (ppm), (Cu Peak), Vane Result (kN/m ²)	Ground -water	Description	Depth (m)	Level (m AOD)	Legend	Well
D	1.00			MADE GROUND: Reddish-brown clayey sandy GRAVEL. Gravel is fine to coarse, sub-angular to angular, of ironstone with occasional mudstone and limestone. [TRIAL PIT BACKFILL]	0.70			
D	2.00			MADE GROUND: Stiff orangish-brown very sandy very gravelly CLAY. Low plasticity (field description). Gravel is fine to coarse, sub-angular to sub-rounded, of ironstone and occasional sandstone and limestone.				
D	3.00			<i>From c. 2.7m bgl becoming light brown with a higher proportion of limestone gravel.</i>				
D	4.00			<i>From c. 4m bgl becoming soft.</i>				
D	5.00			<i>From c. 5m bgl becoming very soft.</i>				
D	6.00							
D	7.00			<i>At 6.5m bgl, cobble-sized inclusion of blue-grey weathered mudstone.</i>				
D	8.00							
D	9.00							
D	10.00			End of Borehole at 10.00m	10.00			

Remarks and Groundwater Observations:
 1. Borehole drilled through backfill of TP03. 2. Terminated at scheduled depth. 3. Borehole remained open and dry on completion. 4. Backfilled with arisings and sealed with bentonite.

GL (mAOD)
Easting: 496398.00
Northing: 352582.00

Fig No.
BH03



BOREHOLE RECORD

BH04
Sheet 1 of 1

Site: Leadenham Landfill, Lincolnshire

Contract No: C8756

Client: FCC Environment

Date(s):
28/05/2020

Method: Cable percussion drilling rig with 150mm diameter tools and casing.

Scale: 1:50

SAMPLE DETAILS

STRATA RECORD

Logged By: AL Checked By: AMG

Driller: RP Drilling

Type	Depth From - To(m)	SPT (N), (ppm), (Cu Peak), Vane Result (kN/m ²)	Ground -water	Description	Depth (m)	Level (m AOD)	Legend	Well
D	1.00			MADE GROUND: Light brown clayey sandy GRAVEL. Gravel is fine to coarse, angular to sub-angular, of sandstone, ironstone, mudstone and limestone. [TRIAL PIT BACKFILL]	0.55			
D	2.00			MADE GROUND: Stiff light brown very sandy very gravelly CLAY. Low plasticity (field description). Gravel is fine to coarse, sub-angular to sub-rounded, of ironstone, with occasional sandstone, mudstone and limestone.				
D	3.00			<i>From c. 2m bgl becoming firm.</i>				
D	4.00							
D	5.00							
D	6.00							
D	7.00							
D	8.00							
D	9.00							
D	10.00			End of Borehole at 10.00m	10.00			

Remarks and Groundwater Observations:

1. Borehole drilled through backfill of TP04. 2. Terminated at scheduled depth. 3. Borehole remained open and dry on completion. 4. Backfilled with arisings and sealed with bentonite.

GL (mAOD)

Easting:
496443.00

Northing:
352617.00

Fig No.

BH04



BOREHOLE RECORD

BH No. BH05
Sheet 1 of 2

Site: Leadenham Landfill, Lincolnshire

Contract No: C8756

Client: FCC Environment

Date(s): 28/05/2020

Method: Cable percussion drilling rig with 150mm diameter tools and casing.

Scale: 1:50

SAMPLE DETAILS

STRATA RECORD

Logged By: AL Checked By: AMG

Driller: RP Drilling

Type	Depth From - To(m)	SPT (N), (ppm), (Cu Peak), Vane Result (kN/m ²)	Ground -water	Description	Depth (m)	Level (m AOD)	Legend	Well
D	1.00			MADE GROUND: Orangish-brown clayey sandy GRAVEL. Gravel is fine to coarse, angular to sub-angular, of sandstone, ironstone, mudstone, limestone and brick. [TRIAL PIT BACKFILL]	0.50			
D	2.00			MADE GROUND: Orangish-brown clayey sandy GRAVEL. Gravel is fine to coarse, angular to sub-angular, of sandstone, ironstone, mudstone, limestone and brick.	1.00			
D	3.00			MADE GROUND: Stiff orangish-brown sandy very gravelly CLAY. Low plasticity (field description). Gravel is fine to coarse, angular to sub-angular, of sandstone and ironstone with occasional mudstone and limestone and rare brick and ash.				
D	4.00			<i>From c. 2m bgl becoming firm.</i>				
D	5.00							
D	6.00							
D	7.00							
D	8.00							
D	9.00			<i>At 9.0m bgl with cobble-sized inclusion of black clay with roots.</i>				
D	10.00			<i>Cobble of ironstone at 10m bgl.</i>				
				Continued next sheet				

Remarks and Groundwater Observations:
 1. Borehole drilled through backfill of TP05. 2. Terminated at scheduled depth. 3. Borehole remained open and dry on completion. 4. Backfilled with arisings and sealed with bentonite.

GL (mAOD)
Easting: 496492.00
Northing: 352630.00

Fig No.
BH05



BOREHOLE RECORD

BH05
Sheet 2 of 2

Site: Leadenham Landfill, Lincolnshire

Contract No: C8756

Client: FCC Environment

Date(s):
28/05/2020

Method: Cable percussion drilling rig with 150mm diameter tools and casing.

Scale: 1:50

SAMPLE DETAILS

STRATA RECORD

Logged By: AL Checked By: AMG

Driller: RP Drilling

Type	Depth From - To(m)	SPT (N), (ppm), (Cu Peak), Vane Result (kN/m ²)	Ground -water	Description	Depth (m)	Level (m AOD)	Legend	Well
D	11.00		11					
U	11.40			Soft light brown very sandy gravelly CLAY. Low plasticity (field description). Gravel is fine to coarse, sub-angular, of limestone. [RESIDUAL LIMESTONE]	11.20			
D	12.00		12	End of Borehole at 12.00m	12.00			
			13					
			14					
			15					
			16					
			17					
			18					
			19					
			20					

Remarks and Groundwater Observations:

1. Borehole drilled through backfill of TP05. 2. Terminated at scheduled depth. 3. Borehole remained open and dry on completion. 4. Backfilled with arisings and sealed with bentonite.

GL (mAOD)

Easting:
496492.00

Northing:
352630.00

Fig No.

BH05



TRIAL PIT RECORD

TP No. **TP01A**
Sheet 1 of 1

Site: Leadenham Landfill, Lincolnshire

Contract No: C8756

Client: FCC Environment

Date: 26/05/2020

Method: JCB 3CX with 0.6m toothless bucket.

Scale: 1:25

SAMPLE DETAILS

STRATA RECORD

Logged By: AL Checked By: AMG

Type	Depth From - To(m)	Vane Results (kN/m ²) (ppm)	Ground -water	Description	Depth (m)	Level (m AOD)	Legend	Backfill
				MADE GROUND: Grass over reddish-brown clayey sandy GRAVEL with medium cobble content. Gravel is fine to coarse, sub-angular to angular, of red siltstone, ironstone, pale cream limestone and dark grey mudstone. Cobbles are sub-angular, of ironstone.				
				MADE GROUND: Soft dark grey sandy very gravelly CLAY. Medium plasticity (field description). Gravel is fine to coarse, sub-angular, of ironstone, mudstone and limestone.	1.30			
				<i>From c. 2.5m bgl becoming lighter in colour, with higher proportion of limestone gravel.</i>				
				End of trial pit at 4.05m	4.05			

Remarks and Groundwater Observations

1. Trial pit remained dry and stable throughout excavation. 2. Terminated at effective reach of excavator. 3. Backfilled with arisings.

GL (m AOD)

Easting:
496320.00
Northing:
352525.00

Fig No.

TP01A



TRIAL PIT RECORD

TP No. **TP02**
Sheet 1 of 1

Site: Leadenham Landfill, Lincolnshire

Contract No: C8756

Client: FCC Environment

Date: 26/05/2020

Method: JCB 3CX with 1.8m ditching bucket.

Scale: 1:25

SAMPLE DETAILS

STRATA RECORD

Logged By: AL Checked By: AMG

Type	Depth From - To(m)	Vane Results (kN/m ²) (ppm)	Ground -water	Description	Depth (m)	Level (m AOD)	Legend	Backfill
				<p>MADE GROUND: Light brown clayey very sandy GRAVEL with medium cobble content. Gravel is fine to coarse, angular to sub-angular, of sandstone, ironstone, limestone, mudstone and brick. Cobbles are of limestone and occasional whole bricks. With occasional boulders of limestone (max. 0.35 x 0.2 x 0.1m). 1 no. fragment of earthenware pot.</p> <p><i>From c. 0.2m bgl becoming reddish-brown with higher proportion of ironstone gravel.</i></p> <p>End of trial pit at 0.45m</p>	0.45			
			1					
			2					
			3					
			4					
			5					

Remarks and Groundwater Observations
 1. Trial pit remained dry and stable throughout excavation. 2. Terminated at scheduled depth. 3. Backfilled with arisings.

GL (m AOD)

Easting:
496358.00
Northing:
352565.00

Fig No.

TP02



TRIAL PIT RECORD

TP No. **TP03**
Sheet 1 of 1

Site: Leadenham Landfill, Lincolnshire

Contract No: C8756

Client: FCC Environment

Date:
26/05/2020

Method: JCB 3CX with 1.8m ditching bucket.

Scale: 1:25

SAMPLE DETAILS

STRATA RECORD

Logged By: AL Checked By: AMG

Type	Depth From - To(m)	Vane Results (kN/m ²) {ppm}	Ground -water	Description	Depth (m)	Level (m AOD)	Legend	Backfill
				<p>MADE GROUND: Grass over reddish-brown clayey sandy GRAVEL with low boulder content. Gravel is fine to coarse, sub-angular to angular, of ironstone with occasional mudstone and limestone. Boulders are of ironstone (max. 0.4 x 0.3 x 0.2m).</p>	0.70			
				End of trial pit at 0.70m				
			1					
			2					
			3					
			4					
			5					

Remarks and Groundwater Observations
 1. Trial pit remained dry and stable throughout excavation. 2. Terminated at scheduled depth. 3. Backfilled with arisings.

GL (m AOD)

Easting:
496398.00
Northing:
352582.00

Fig No.

TP03



TRIAL PIT RECORD

TP No. **TP04**
Sheet 1 of 1

Site: Leadenham Landfill, Lincolnshire

Contract No: C8756

Client: FCC Environment

Date:
26/05/2020

Method: JCB 3CX with 1.8m ditching bucket.

Scale: 1:25

SAMPLE DETAILS

STRATA RECORD

Logged By: AL Checked By: AMG

Type	Depth From - To(m)	Vane Results (kN/m ²) {ppm}	Ground -water	Description	Depth (m)	Level (m AOD)	Legend	Backfill
				<p>MADE GROUND: Grass over light brown clayey sandy GRAVEL with medium cobble content. Gravel is fine to coarse, angular to sub-angular, of sandstone, ironstone, mudstone, limestone and brick, with rare rounded medium gravel of red sandstone. Cobbles are sub-angular, of limestone. With 1 no. length of hose pipe.</p> <p style="text-align: center;">End of trial pit at 0.55m</p>	0.55			
			1					
			2					
			3					
			4					
			5					

Remarks and Groundwater Observations
 1. Trial pit remained dry and stable throughout excavation. 2. Terminated at scheduled depth. 3. Backfilled with arisings.

GL (m AOD)
Easting:
496443.00
Northing:
352617.00

Fig No.

TP04



TRIAL PIT RECORD

TP No. **TP05**
Sheet 1 of 1

Site: Leadenham Landfill, Lincolnshire

Contract No: C8756

Client: FCC Environment

Date:
26/05/2020

Method: JCB 3CX with 1.8m ditching bucket.

Scale: 1:25

SAMPLE DETAILS

STRATA RECORD

Logged By: AL Checked By: AMG

Type	Depth From - To(m)	Vane Results (kN/m ²) (ppm)	Ground -water	Description	Depth (m)	Level (m AOD)	Legend	Backfill
				<p>MADE GROUND: Light brown sandy gravelly TOPSOIL. Gravel is fine to coarse, angular to sub-angular, of ironstone and limestone.</p> <p>MADE GROUND: Grass over orangish-brown clayey sandy GRAVEL with medium cobble content. Gravel is fine to coarse, angular to sub-angular, of sandstone, ironstone, mudstone, limestone and brick. Cobbles are of limestone and brick. With 1 no. boulder of concrete (0.45 x 0.4 x 0.12m). With 1 no. metal file.</p> <p style="text-align: center;">End of trial pit at 0.50m</p>	0.05			
			1					
			2					
			3					
			4					
			5					

Remarks and Groundwater Observations
 1. Trial pit remained dry and stable throughout excavation. 2. Terminated at scheduled depth. 3. Backfilled with arisings.

GL (m AOD)

Eastings:
496492.00
Northing:
352630.00

Fig No.

TP05