



John Barnett and Associates Ltd.

Unit 7, Dundrum Business Pk.,
Windy Arbour, Dublin 14, Ireland.
Tel: +353 1 2964667 Fax: +353 1 2964676 www.jba.ie

Trialpit No

TP1

Sheet 1 of 1

Date

12/11/2007

Project Name: Waste Licence Application for Blackhall

Dimensions: -

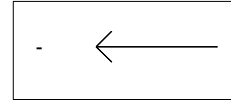
Scale

1:25

Location: Blackhall, Punchestown, Naas, Co. Kildare

Depth

4.40m



Logged By

TM

Client: Behans Restoration

JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
				0.90	1		MADE GROUND - Brown sandy gravelly clay with minor hardfill inclusions (<10%) (MADE GROUND)
				1.60	2		MADE GROUND - Grey gravelly clay with concrete inclusions (25%), minor plastic and pipe inclusions (<1%) (MADE GROUND)
1.80	D			3.40	4		Brown medium to coarse slightly gravelly SAND (SANDS & GRAVELS)
				4.40			Trialpit Complete at 4.40 m

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Remarks:

Groundwater:
No groundwater encountered

Stability:
Stable throughout excavation

Shoring:

TP1



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Trialpit No

TP2

Sheet 1 of 1

Co-ords: 293508E - 215819N
Level: 163.50 m AOD

Date
12/11/2007

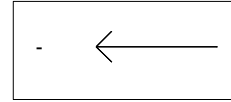
Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, PuncHESTOWN, Naas, Co. Kildare

Depth
4.50m



Logged By
TM

Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
0.30	D			0.30	163.20		MADE GROUND - Brown / orange sandy clay with occasional roots (MADE GROUND)
0.90	D			0.90			MADE GROUND - Dark brown gravelly clay with many cobbles, minor timber, electrical cable and concrete block inclusions (<5%) (MADE GROUND)
3.30	D			3.30			
				4.50	159.00		Trialpit Complete at 4.50 m

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Remarks:

Groundwater:
No groundwater encountered

Stability:
Stable throughout excavation

Shoring:

TP2



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Trialpit No
TP3
Sheet 1 of 1

Co-ords: 293494E - 215936N
Level: 163.00 m AOD

Date
12/11/2007

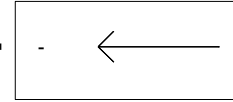
Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, Punchestown, Naas, Co. Kildare

Depth
4.30m



Logged By
TM

Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
0.20				162.80			MADE GROUND - Brown sandy gravelly clay (MADE GROUND)
1.60	D						MADE GROUND - Dark brown sandy gravelly clay with minor concrete inclusions, minor plastic, ceramics and brick (<5%) (MADE GROUND)
3.20	D						
4.30				158.70			Trialpit Complete at 4.30 m

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Remarks:

Groundwater:
No groundwater encountered

Stability:
Stable throughout excavation

Shoring:

TP3



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Trialpit No

TP4

Sheet 1 of 1

Co-ords: 293572E - 215921N
Level: 164.10 m AOD

Date
12/11/2007

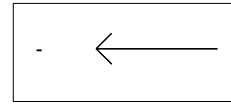
Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, Punchestown, Naas, Co. Kildare

Depth
4.60m



Logged By
TM

Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
0.30				163.80			MADE GROUND - Dark brown sandy gravelly clay (MADE GROUND)
1				1			MADE GROUND - Concrete and re-bar with gravelly clay matrix (75%), brick and electrical cables (2-5%) (MADE GROUND)
2				2			
2.60	D			2.60	161.50		MADE GROUND - Brown sandy gravelly clay with occasional concrete fragments (215%) (MADE GROUND)
3				3			
3.60	D			4			
4				4			
				4.60	159.50		Trialpit Complete at 4.60 m

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Remarks:

Groundwater:
No groundwater encountered

Stability:
Trial pit unstable from 0.3m

Shoring:

TP4



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Trialpit No
TP5
Sheet 1 of 1

Co-ords: 293639E - 215853N
Level: 164.30 m AOD

Date
12/11/2007

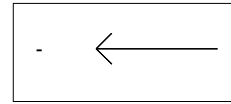
Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, Punchestown, Naas, Co. Kildare

Depth
4.60m



Logged By
TM

Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
				0.30	164.00		MADE GROUND - Brown / orange sandy clay (MADE GROUND)
				0.80	163.50		MADE GROUND - Grey gravelly clay with concrete inclusions (20%) (MADE GROUND)
1				1			MADE GROUND - Dark brown gravelly clay with minor concrete blocks (<10%) and minor timber, plastic and steel block bandings (2-5%) (MADE GROUND)
1.70	D						
2				2			
3				3			
4				4			
				4.60	159.70		Trialpit Complete at 4.60 m

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Remarks:

Groundwater:
Water seepage at 0.8m

Stability:
Stable throughout excavation

Shoring:

TP5



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Trialpit No
TP6
Sheet 1 of 1

Co-ords: 293678E - 215950N
Level: 166.80 m AOD

Date
12/11/2007

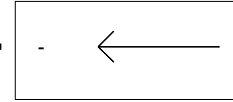
Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, Punchestown, Naas, Co. Kildare

Depth
4.60m



Logged By
TM

Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
				0.70	166.10		MADE GROUND - Brown sandy gravelly clay with minor concrete inclusions (MADE GROUND)
1.80	D			2.50	164.30		MADE GROUND - Black (stained) sandy gravelly clay with timber, chipboard, concrete, brick and plastic inclusions (odourous). Not continuous across the trial pit, confined to the northern section (MADE GROUND)
3.30	D			4.60	162.20		MADE GROUND - Brown sandy gravelly clay with minor concrete inclusions (<2%) (MADE GROUND)
Trialpit Complete at 4.60 m							

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Remarks:

Groundwater:
No groundwater encountered

Stability:
Unstable from 0.7m to 2.5m

Shoring:

TP6



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Trialpit No
TP7
Sheet 1 of 1

Co-ords: 293625E - 215995N
Level: 165.50 m AOD

Date
12/11/2007

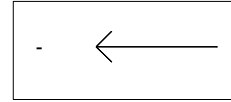
Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, Punchestown, Naas, Co. Kildare

Depth
4.40m



Logged By
TM

Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
1.50	D			1	161.10		MADE GROUND - Brown gravelly clay with concrete, brick and re-bar inclusions (15%), minor plastic inclusions (<2%), two aluminium cans visible (MADE GROUND)
				2			
				3			
				4			
3.60	D			4.40	161.10		Trialpit Complete at 4.40 m

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Remarks:

Groundwater:
No groundwater encountered

Stability:
Stable throughout excavation

Shoring:

TP7



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Trialpit No

TP8

Sheet 1 of 1

Date

12/11/2007

Project Name: Waste Licence Application for Blackhall

Co-ords: 293592E - 216043N
Level: 164.30 m AOD

Dimensions: -

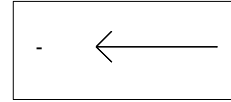
Scale

1:25

Location: Blackhall, Punchestown, Naas, Co. Kildare

Depth

4.80m



Logged By
TM

Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
1.70	D			1.80	162.50		MADE GROUND - Brown very gravelly clay with concrete blocks up to 1.0m in diameter, minor rebar, roots and plastic (<1%) (MADE GROUND)
				4.80	159.50		MADE GROUND - Brown slightly gravelly clay with minor concrete inclusions (MADE GROUND)

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Trialpit Complete at 4.80 m

Remarks:

Groundwater:
Slow water flow from 1.5m

Stability:
Stable throughout excavation

Shoring:

TP8



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Trialpit No

TP9

Sheet 1 of 1

Co-ords: 293764E - 215980N
Level: 168.90 m AOD

Date
12/11/2007

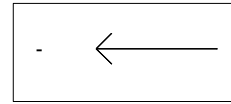
Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, Punchestown, Naas, Co. Kildare

Depth
5.00m



Logged By
TM

Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
				0.70	168.20		MADE GROUND - Brown moderate to very plastic slightly gravelly clay with minor concrete cobbles (<10%) (MADE GROUND)
1				1.50	167.40		MADE GROUND - Concrete and gravel fill, with concrete blocks up to 1.0m in diameter (75%) (MADE GROUND)
2				2.50			MADE GROUND - Dark brown very plastic sandy gravelly clay with occasional concrete and brick fragments (<10%) and occasional cables and steel (<5%) (MADE GROUND)
3	D						
4				4.50	164.40		MADE GROUND - Brown sandy clay with minor gravel inclusions (MADE GROUND)
4.50	D						

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Trialpit Complete at 5.00 m

Remarks:

Groundwater:
No groundwater encountered

Stability:
Stable throughout excavation

Shoring:

TP9



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Trialpit No
TP10
Sheet 1 of 1

Co-ords: 293691E - 216048N
Level: 168.30 m AOD

Date
12/11/2007

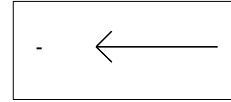
Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, Punchestown, Naas, Co. Kildare

Depth
4.50m



Logged By
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Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
1.20	D			1	168.30		MADE GROUND - Brown sandy gravelly clay with minor plastic, pipe and electrical cables (<2%) and minor concrete inclusions, slight black staining to 1.5m (MADE GROUND)
				2			
3.40	D			3			
				4			
				4.50	163.80		Trialpit Complete at 4.50 m

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Remarks:

Groundwater:
No groundwater encountered

Stability:
Stable throughout excavation

Shoring:

TP10



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Trialpit No
TP11
Sheet 1 of 1

Co-ords: 293627E - 216097N
Level: 167.40 m AOD

Date
12/11/2007

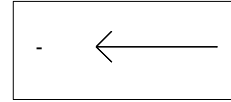
Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, Punchestown, Naas, Co. Kildare

Depth
4.60m



Logged By
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Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
1.30	D			1	167.40		MADE GROUND - Brown sandy gravelly clay with minor concrete and brick inclusions, minor steel block bands (<1%) and minor timber fragments (<1%) (MADE GROUND)
2				2			
3.20	D			3			
4				4			
				4.60	162.80		Trialpit Complete at 4.60 m

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Remarks:

Groundwater:
No groundwater encountered

Stability:
Stable throughout excavation

Shoring:

TP11



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Trialpit No
TP12
Sheet 1 of 1

Co-ords: 293783E - 215973N
Level: 0.00 m AOD

Date
13/11/2007

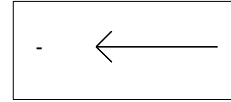
Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, Punchestown, Naas, Co. Kildare

Depth
3.50m



Logged By
TM

Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
1.50	D			1.80	-1.80		MADE GROUND - Dark brown / brown sandy gravelly clay with root and grass inclusions (30%), minor plastic and steel inclusions (<1%), red / orange iron staining at 1.7m (MADE GROUND)
				2.00	-2.00		Brown slightly clayey sandy fine subrounded GRAVEL with occasional sub-rounded to sub-angular cobbles and boulders (SANDS & GRAVELS)
				3.50	-3.50		Trialpit Complete at 3.50 m

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Remarks:

Groundwater:
No groundwater encountered

Stability:
Trial pit unstable between 0 and 1.8m

Shoring:

TP12



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Trialpit No
TP13
Sheet 1 of 1

Co-ords: -
Level: -

Date
13/11/2007

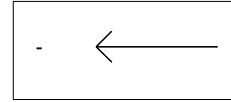
Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, PuncHESTOWN, Naas, Co. Kildare

Depth
4.30m



Logged By
TM

Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
1				1			MADE GROUND ?? - Light brown slightly sandy slightly gravelly clay with occasional cobbles (MADE GROUND?)
1.70	D			1.40			MADE GROUND ?? - Brown sandy gravelly clay with occasional fine to medium gravel pockets (MADE GROUND?)
2				2			
3				3			
4				4			
				4.30			Trialpit Complete at 4.30 m

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Remarks:

Groundwater:
No groundwater encountered

Stability:
Slightly unstable from 1.4m

Shoring:

TP13



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Trialpit No
TP14
Sheet 1 of 1

Co-ords: 293702E - 216414N
Level: 151.20 m AOD

Date
13/11/2007

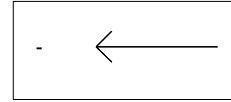
Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, PuncHESTOWN, Naas, Co. Kildare

Depth
2.00m



Logged By
TM

Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
0.80	D			1	1		MADE GROUND ?? - Brown very coarse gravelly slightly sandy clay with moderate sub-angular to sub-rounded cobbles (MADE GROUND?)
				2	2.00		
				3			
				4			

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Trialpit Complete at 2.00 m

Remarks:

Groundwater:
Water table at 2.0m

Stability:
Continual collapsing from 2.0m

Shoring:

TP14



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Trialpit No
TP15
Sheet 1 of 1

Co-ords: 293552E - 216260N
Level: 156.30 m AOD

Date
13/11/2007

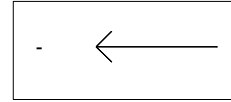
Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, Punchestown, Naas, Co. Kildare

Depth
4.40m



Logged By
TM

Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
0.30				156.00		MADE GROUND ?? - Dark brown gravelly clay (MADE GROUND?)	
1.50	D					MADE GROUND ?? - brown gravelly SILT with occasional sub-angular to sub-rounded cobbles (MADE GROUND?)	
4.40				151.90		Trialpit Complete at 4.40 m	

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Remarks:

Groundwater:
No groundwater encountered

Stability:
Slightly unstable from 1.5m

Shoring:

TP15



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Trialpit No
TP16
Sheet 1 of 1

Co-ords: 293482E - 216128N
Level: 154.70 m AOD

Date
13/11/2007

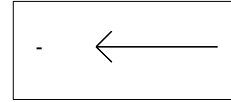
Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, Punchestown, Naas, Co. Kildare

Depth
3.00m



Logged By
TM

Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
				0.30	154.40		TOPSOIL - Grass over brown slightly sandy clay (TOPSOIL)
				0.60	154.10		MADE GROUND ?? - Brown / grey gravelly clay (MADE GROUND?)
							MADE GROUND ?? - Brown gravelly clay with moderate sub-rounded cobbles and occasional boulders (MADE GROUND?)
1.50	D						
				3.00	151.70		Trialpit Complete at 3.00 m

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Remarks:

Groundwater:
Groundwater seepage between 0.3m and 0.6m

Stability:
Stable throughout excavation

Shoring:

TP16



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Trialpit No
TP17
Sheet 1 of 1

Co-ords: 293356E - 216107N
Level: 151.20 m AOD

Date
13/11/2007

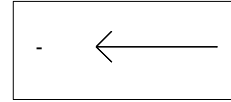
Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, Punchestown, Naas, Co. Kildare

Depth
3.50m



Logged By
TM

Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
0.30	D			0.30	150.90		TOPSOIL - Grass over brown sandy clay (TOPSOIL)
	1			1			MADE GROUND ?? - Brown sandy gravelly CLAY with occasional cobbles (MADE GROUND?)
	2			2			
	3			2.40	148.80		MADE GROUND ?? - Brown / grey clayey sand / very sandy clay with occasional cobbles (MADE GROUND?)
	4			3.50	147.70		Trialpit Complete at 3.50 m

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Remarks:

Groundwater:
No groundwater encountered

Stability:
Stable throughout excavation

Shoring:

TP17



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Trialpit No
TP18
Sheet 1 of 1

Co-ords: 293228E - 216107N
Level: 151.20 m AOD

Date
13/11/2007

Project Name: Waste Licence Application for Blackhall

Dimensions: -

Scale
1:25

Location: Blackhall, Punchestown, Naas, Co. Kildare



Logged By
TM

Client: Behans Restoration JBA Project No. 3746

Samples & In Situ Testing				Depth (m)	Level (m AOD)	Legend	Stratum Description
Depth (m)	Type	Waterstrike	Results				
0.20				151.00			TOPSOIL - Brown sandy clay (TOPSOIL)
0.40				150.80			MADE GROUND ?? - Grey / brown gravelly clay (MADE GROUND?)
0.90	D						MADE GROUND ?? - Brown very sandy slightly gravelly clay with occasional fine to medium silty sand pockets (MADE GROUND?)
	1						
	2						
	3						
	4						
				3.50	147.70		Trialpit Complete at 3.50 m

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Remarks:

Groundwater:
No groundwater encountered

Stability:
Stable throughout excavation

Shoring:

TP18