

Borrow Pit Assessment - Trial Pits			
Project title	Derryadd Wind Farm	Job number	10325
Client	Bord na Mona	File reference	TP/BP Dec 2017
Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
IMT			
Site Location:	Derryadd		
Trial Pit No:	BP1		
Date & Time:	4 th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.2 m: Shallow Black fibrous with rootlets		
	0.2 – 0.50 m: Light grey, soft, slightly sandy, gravelly CLAY		
	0.5m – 0.8 m: Light grey very soft slightly sandy silty CLAY with significant amount of gravel, cobbles and boulders.		
	Trial pit terminated at 0.7 m due to abundance of large angular boulders.		
Observations & recommendations:	No water present		
	· Relatively firm surface.		
	· Walls of trial pit stable		

- PEAT
- MARL
- TILL
- BEDROCK
- Possible BEDROCK
- Archaeology



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Client	Bord na Mona	File reference	TP/BP Dec 2017
Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP2		
Date & Time:	4 th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.5 m: Shallow Black/brown fibrous with rootlets		
	0.5 – 2.5 m: Light grey, soft, slighty sandy, gravelly CLAY		
	2.5 m: Significant amount of gravel, cobbles and boulders. Boulders change from SR to Angular. Spring inflow from TP base, possible bedrock		
	Trial pit terminated at 2.5m due to abundance of large angular boulders and Bedrock		
Observations & recommendations:	Spring water inflow from TP base, possible bedrock		
	· Relatively firm surface.		
	· Walls of trial pit stable		

	PEAT
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	Possible
	Archaeol



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Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP3		
Date & Time:	4 th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.5 m: Shallow Black/brown fibrous with rootlets		
	0.5 – 2.5 m: Light grey, soft, slighty sandy, gravelly CLAY		
	2.5 m: Significant amount of gravel, cobbles and boulders. Boulders change from SR to Angular. Spring inflow from TP base, possible bedrock		
	Trial pit terminated at 2.5 m due to abundance of large angular boulders.		
Observations & recommendations:	Spring water inflow from TP base, possible bedrock		
	· Relatively firm surface.		
	· Walls of trial pit stable		

- PEAT
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Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP4		
Date & Time:	4 th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.2 m: Shallow Black fibrous with rootlets		
	TP terminated at possibel ARCHAEOLOGY feature.		
Observations & recommendations:	Possible Archacology		


- PEAT
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Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP5		
Date & Time:	4 th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.15 m: Shallow Black fibrous with rootlets		
	0.15 – 1.2 m: Light grey, soft, slighty sandy, gravelly SILT/CLAY		
	1.2m: Significant amount of gravel, cobbles and boulders. Boulders change from SR to Angular. Spring inflow from TP base, bedrock evident		
Observations & recommendations:	Large inflow at the base of the trail pit. Inflow is from the bedrock		
	· Relatively firm surface.		
	· Walls of trial pit stable		

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Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP6		
Date & Time:	4 th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 1.2 m: Shallow Black fibrous with rootlets		
	1.2 – 2.80 m: Light gre, soft, slighty sandy, gravelly CLAY. Cobbles SR becoming		
	nated at 2.8 m due to abundance of large angular boulders and water inflows. Po		
Observations & recommendations:	Possible Archaeology on the southern face of the trial pit		
	<ul style="list-style-type: none"> · Relatively firm surface. · Walls of trial pit stable 		
			


- PEAT
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Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP6		
Date & Time:	4 th Dec 2017		
BP Testing details:	The following layers were observed in this Trial Pit:		
	0.00 – 1.0 m: Shallow Black/brown peat with rootlets		
	1.0 – 1.4 m: Light grey/olive, soft, organic silts and shelly marl.		
	1.4 – 2.70 m: Light grey, soft, slightly sandy, gravelly CLAY. Cobbles SR . Obstruction at the base		
Observations & recommendations:	Trial pit terminated at 2.7 m due to a large boulders. Possible bedrock however not major water inflows suggesting bedrock maybe deeper at this location		
	· Relatively firm surface.		
	· Walls of trial pit stable		
			


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Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP6		
Date & Time:	4 th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 1.2 m: Shallow Black fibrous with rootlets		
	1.2 – 2.80 m: Light gre, soft, slighty sandy, gravelly CLAY. Cobbles SR becoming		
	nated at 2.8 m due to abundance of large angular boulders and water inflows. Po		
Observations & recommendations:			
	· Relatively firm surface.		
	· Walls of trial pit stable		
			

- PEAT
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- Archaeolo

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Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Deryadd		
Trial Pit No:	BP6		
Date & Time:	4 th Dec 2017		
BP Testing details:	The following layers were observed in this Trial Pit:		
	0.00 – 1.2 m: Black fibrous overlying reddish brown peat with rootlets and timber		
	1.2 – 1.4 m: Light grey/olive, soft, organic silts and shelly marl. Cobbles SR becoming angular at base		
	1.4 – 2.70 m: Light grey, soft, slightly sandy, gravelly CLAY. Cobbles SR . Obstruction at the base		
Observations & recommendations:	2.8 m due to obstruction. Possible bedrock however cobbles remained subround		
	· Relatively firm surface.		
	· Walls of trial pit stable		
	No Water inflows		
			

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Client	Bord na Mona	File reference	TP/BP Dec 2017
Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
Site Location:	Derryadd		
Trial Pit No:	BP8		
Date & Time:	4 th Dec 2017		
BP Testing details:	The following layers were observed in this Trial Pit:		
	0.00 – 0.20 m: Interbedded black and brown organic peat		
	0.2 – 2.5 m: Sandy very silty/clayey GRAVEL with numerous cobbles and boulders. Moist and moderately dense. Mottled light brown, olive, grey in top 1.4 m		
	Trial pit terminated at 2.5 m due to abundance of large boulders.		
Observations & recommendations:	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		
	No Water inflows		
			

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Client	Bord na Mona	File reference	TP/BP Dec 2017
Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP9		
Date & Time:	4 th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.20 m: Interbedded black and brown organic peat		
	0.2 – 2.5 m: Sandy very silty/clayey GRAVEL with numerous cobbles and boulders. Moist and moderately dense. Mottled light brown, olive, grey in top 1.2 m		
Observations & recommendations:	no major water inflows		
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		


	PEAT
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	TILL
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Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP10		
Date & Time:	4 th Dec 2017		
BP Testing details:			
	0.00 – 0.20 m: Interbedded black and brown organic peat		
	0.2 – 2.5 m: Sandy very silty/clayey GRAVEL with numerous cobbles and boulders.		
	Moist and moderately dense. Mottled light brown, olive, grey in top 1.4 m		
	Trial pit terminated at 2.5 m due to abundance of large angular boulders.		
Observations & recommendations:	No major water inflows		
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		

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Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP11		
Date & Time:	4 th Dec 2017		
BP Testing details:			
	0.00 – 0.20 m: Interbedded black and brown organic peat		
	0.2 – 2.4m: Sandy very silty/clayey GRAVEL with numerous cobbles and boulders.		
	Moist and moderately dense. Mottled light brown, olive, grey in top 1.6 m		
	Trial pit terminated at 2.4m due to abundance of large angular boulders.		
Observations & recommendations:			
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		
	No major water inflows		
			

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Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP12		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.20 m: black organic peat		
	0.2 – 0.50 m: Weathered bedrock with regular angular blocks of pale grey,		
Observations & recommendations:	Water inflows at the bedrock		
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		
			

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Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP13		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.20 m: black organic peat		
	0.2 – 0.50 m: Weathered bedrock with regular angular blocks of pale grey,		
Observations & recommendations:	Water inflows at the bedrock surface		

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Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP14		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.10 m: black organic peat		
	0.1– 2.3 m: Light grey/olive, soft, slightly sandy, gravelly CLAY. Cobbles SR .		
Observations & recommendations:	No water inflow. Not certain that bedrock is present however angular blocks of limestone are present		
	Possible Bedrock or Obstruction at 2.3m		
			







- PEAT
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Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP15		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.30 m: black organic peat		
	0.3– 2.5 m: Light grey/olive, soft, slightly sandy, gravelly CLAY. Cobbles SR .		
Observations & recommendations:	No significant water inflows		

- PEAT
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Project title	Derryadd Wind Farm	Job number	10325
Client	Bord na Mona	File reference	TP/BP Dec 2017
Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP16		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.30 m: black organic peat		
	0.3– 2.2 m: Light grey/olive, soft, slightly sandy, gravelly CLAY. Cobbles SR .		
Observations & recommendations:	Water inflows at the bedrock		
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		
	Possible Bedrock or Obstruction at 2.2m		

	PEAT
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Client	Bord na Mona	File reference	TP/BP Dec 2017
Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP17		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.30 m: black organic peat		
	0.3– 2.1 m: Light grey/olive, soft, slightly sandy, gravelly CLAY. Cobbles SR .		
	Obstruction at 2.1m		
Observations & recommendations:	No significant water inflows		
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		

- PEAT
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Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP18		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.30 m: black organic peat		
	0.3– 3 m: Light grey/olive, soft, slightly sandy, gravelly CLAY. Cobbles SR .		
	Possible Bedrock or Obstruction at 3m		
Observations & recommendations:	Water inflows at the bedrock surface		
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		

	PEAT
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	TILL
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Client	Bord na Mona	File reference	TP/BP Dec 2017
Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP19		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.20 m: black organic peat		
	0.2– 2 m: Light grey/olive, soft, slightly sandy, gravelly CLAY. Cobbles SR .		
	Obstruction at 2m		
Observations & recommendations:	No significant water inflows		
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		

- PEAT
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Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP20		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.30 m: black organic peat		
	0.3– 2.5 m: Light grey/olive, soft, slightly sandy, gravelly CLAY. Cobbles SR . Obstruction at		
	Possible Bedrock or Obstruction at 2.5m		
Observations & recommendations:	Water inflow at base of peat and in the base of trial pit		
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		

- PEAT
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Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP21		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.10 m: Black organic peat		
	0.1 – 0.80 m: Light grey/olive, very soft, slightly sandy, gravelly SILT/CLAY.		
	Trial pit terminated at 0.8 due to bedrock		
Observations & recommendations:	Trial pit collapsing - water inflows from the base of trial pit		
	· Relatively firm surface.		
	· Walls of trial pit slightly unstable and crumbling		

	PEAT
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	TILL
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Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP12		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.20 m: black organic peat		
	0.2 – 0.50 m: Weathered bedrock with regular angular blocks of pale grey,		
Observations & recommendations:	Dry - no major inflows		
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		

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Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP22		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.3 m: Interbedded black and brown/red organic peat.		
	0.3 – 1.2 m: Very soft running sands and sandy gravelly silt/CLAY		
	1.2m - Bedrock and large water inflows		
	Trial pit terminated at 1.2 m due to abundance of large angular boulders & bedrock.		
Observations & recommendations:	Large water inflows		
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		


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Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP23		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.3 m: Interbedded black and brown/red organic peat.		
	0.3 – 1.2 m: Very soft running sands and sandy gravelly silt/CLAY		
	1.2m - Bedrock and large water inflows		
	Trial pit terminated at 1.2 m due to abundance of large angular boulders & bedrock.		
Observations & recommendations:	Water inflows in the base of trial pit		
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		







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Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP24		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 1.1 m: Interbedded black and brown/red organic peat.		
	1.1 – 2.3 m: Very soft running sands and sandy gravelly silt/CLAY		
	2.2m - Bedrock and large water inflows		
	Trial pit terminated at 2.3 m due to abundance of large angular boulders & bedrock.		
Observations & recommendations:			
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		
			

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Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP25		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.3 m: Interbedded black and brown/red organic peat.		
	0.3 – 2.1 m: Light grey/ mid grey silty sandy GRAVEL - TP at this location		
	No Bedrock encountered - Obstruction at 2.1m		
	Trial pit terminated at 2.1 m due to large boulders		
Observations & recommendations:			
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		

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Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP26		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.4 m: Interbedded black and brown/red organic peat.		
	0.4-2 m: Light grey/ mid grey silty sandy GRAVEL - TP at this location		
	2 m- obstruction at 2m		
	Trial pit terminated at 2 m due to abundance of large angular boulders & bedrock.		
Observations & recommendations:			
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		
			

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Borrow Pit Assessment - Trial Pits			
Project title	Derryadd Wind Farm	Job number	10325
Client	Bord na Mona	File reference	TP/BP Dec 2017
Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP27		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.6 m: Interbedded black and brown/red organic peat.		
	0.6– 1.7 m: Very soft running sands and sandy gravelly silt/CLAY		
	1.7m - Bedrock and large water inflows		
	Trial pit terminated at 1.7 m due to abundance of large angular boulders & bedrock.		
Observations & recommendations:	Large inflow at 1.7m		
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		


	PEAT
	MARL
	TILL
	BEDROCK
	Possible BEDROCK
	Archaeology



Borrow Pit Assessment - Trial Pits			
Project title	Derryadd Wind Farm	Job number	10325
Client	Bord na Mona	File reference	TP/BP Dec 2017
Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP28		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.8 m: Interbedded black and brown/red organic peat.		
	0.8– 2.3m: Very soft sandy gravelly silt/CLAY		
	2.3m - Large cobbles and angular bedrock at 2.3m. Possible bedrock		
	Trial pit terminated at 2.3 m due to abundance of large angular boulders & bedrock.		
Observations & recommendations:	Minor inflow at base of trial pit		
	Relatively firm surface.		
	Walls of trial pit slightly unstable and crumbling		

- PEAT
- MARL
- TILL
- BEDROCK
- Possible BEDROCK
- Archaeology




Borrow Pit Assessment - Trial Pits			
Project title	Derryadd Wind Farm	Job number	10325
Client	Bord na Mona	File reference	TP/BP Dec 2017
Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP29		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.2 m: Interbedded black and brown/red organic peat.		
	0.2m - Large Bedrock outcrop and exposure at this location		
Observations & recommendations:	Rock at surface		
	Minor inflows at the base of trial pit		
			

- PEAT
- MARL
- TILL
- BEDROCK
- Possible BEDROCK
- Archaeology

Borrow Pit Assessment - Trial Pits			
Project title	Derryadd Wind Farm	Job number	10325
Client	Bord na Mona	File reference	TP/BP Dec 2017
Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP30		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.2 m: Interbedded black and brown/red organic peat.		
	0.2m - Large Bedrock outcrop and exposure at this location		
Observations & recommendations:	Rock at surface		
	No inflows		

- PEAT
- MARL
- TILL
- BEDROCK
- Possible BEDROCK
- Archaeology



Borrow Pit Assessment - Trial Pits			
Project title	Derryadd Wind Farm	Job number	10325
Client	Bord na Mona	File reference	TP/BP Dec 2017
Prepared by	John Dillon	Date	13th March 2018
Subject	Ground investigation (Trial Pits)		
	IMT		
Site Location:	Derryadd		
Trial Pit No:	BP31		
Date & Time:	5th Dec 2017		
BP Testing details:			
	The following layers were observed in this Trial Pit:		
	0.00 – 0.2 m: Interbedded black and brown/red organic peat.		
	0.2m - Large Bedrock outcrop and exposure at this location		
Observations & recommendations:	Rock at surface		
	No inflows		
			

- PEAT
- MARL
- TILL
- BEDROCK
- Possible BEDROCK
- Archaeology