



APPENDIX 8-1

TRIAL PIT LOGS



Project No: P1619-0
Site: Borrisbeg WF, CO. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP01
Easting: 213479
Northing: 176691
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil			
		-0.15	Light brown gravelly sandy clayey SILT			
		0.15				
		-0.50				
		0.50	Brown gravelly silty SAND with cobbles (non-cohesive fluvial deposits)			
1.00						
2.00						Large groundwater inflows at 2mbgl from the sand and gravel
		-2.10				
		2.10				



Remarks:

Trial pit done at turbine T1 location

Contractor:

Excavator type:

Logged by: DB

Scale as shown

Sheet: 1 of 1



Project No: P1619-0
Site: Borrisbeg WF, Co. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP02
Easting: 213091
Northing: 176777
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil			
		-0.10 0.10	Firm brown slightly gravelly sandy SILT/CLAY			
		-0.80 0.80	Refusal on rock (bedrock presumed)			



Remarks:

Trial pit done at potential borrow pit location (northern portion)

Contractor:

Excavator type:

Logged by: DB

Scale as shown

Sheet: 1 of 1



Project No: P1619-0
Site: Borrisbeg WF, Co. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP03
Easting: 213073
Northing: 176672
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil			
		-0.10 0.10	Firm brown slightly gravelly sandy SILT/CLAY			
		-0.70 0.70	Refusal on competent limestone rock (bedrock presumed)			



Remarks:

Trial pit done at potential borrow pit location (southern portion)

Contractor:

Excavator type:

Logged by: DB

Scale as shown

Sheet: 1 of 1



Project No: P1619-0
Site: Borrisbeg WF, Co. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP04
Easting: 213166
Northing: 176201
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil			
			Very firm to stiff brown SILT			
		-0.60				
		0.60	Soft dark brown PEAT			
		-0.80				
		0.80	Soft grey CLAY (Marl)			
1.00			Brown slightly silty gravelly SAND with cobbles (non-cohesive fluvial deposits)			
2.00						
		-2.40				
		2.40				Large groundwater inflows at 2.4mbgl from the sand & gravel



Remarks:

Trial pit done at turbine T2 location

Contractor:

Excavator type:

Logged by: DB

Scale as shown

Sheet: 1 of 1




Project No: P1619-0
Site: Borrisbeg WF, Co. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP05
Easting: 212759
Northing: 176304
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil / Thin Subsoils			
		-0.20 0.20	Refusal on competent limestone rock (bedrock presumed)			



Remarks:

Trial pit done at temporary construction compound

Contractor:

Excavator type:

Logged by: DB

Scale as shown

Sheet: 1 of 1



Project No: P1619-0
Site: Borrisbeg WF, Co. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP06
Easting: 212794
Northing: 176421
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil			
		-0.10	Firm light brown SILT/CLAY			
		0.10				
1.00		-1.05				
		1.05				



Remarks:

Trial pit done on access road leading to temporary construction compound

Contractor:

Excavator type:

Logged by: DB

Scale as shown

Sheet: 1 of 1



Project No: P1619-0
Site: Borrisbeg WF, CO. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP07
Easting: 213329
Northing: 175589
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil			
		-0.50	Firm brown SILT/CLAY			
		0.50	Grey silty SAND with silt layers (sand is non-cohesive and flowing)			
1.00						
2.00						
		-2.70				
		2.70				



Remarks:

Trial pit done at turbine T3 location

Contractor:

Excavator type:

Logged by: DB

Scale as shown

Sheet: 1 of 1



Project No: P1619-0
Site: Borrisbeg WF, Co. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP08
Easting: 213164
Northing: 175079
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil			
		-0.20				
		0.20	Soft brown PEAT			
		-0.50				
		0.50	Firm brown silty SAND (cohesive)			
1.00						
		-2.10				
		2.10	Very firm purple CLAY			Small groundwater inflows from base of sand layer
2.00		-2.30				
		2.30	Refusal on competent limestone rock (bedrock presumed)			



Remarks:

Trial pit done at turbine T4 location

Contractor:

Excavator type:

Logged by: DB

Scale as shown

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Project No: P1619-0
Site: Borrisbeg WF, Co. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP09
Easting: 213205
Northing: 175422
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil			
		-0.10 0.10	Firm brown SILT/CLAY			
		-0.70 0.70				



Remarks:

Trial pit done along access road

Contractor:

Excavator type:

Logged by: DB

Scale as shown

Sheet: 1 of 1



Project No: P1619-0
Site: Borrisbeg WF, Co. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP10
Easting: 213200
Northing: 175746
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil			
		-0.10 0.10	Firm brown SILT/CLAY			
		-0.60 0.60				



Remarks:

Trial pit done along access road

Contractor:

Excavator type:

Logged by: DB

Scale as shown

Sheet: 1 of 1



Project No: P1619-0
Site: Borrisbeg WF, Co. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP11
Easting: 212485
Northing: 174237
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil			
		-0.10				
		0.10	Very firm brown SILT/CLAY			
		-0.60				
		0.60	Very firm grey slightly sandy SILT			
1.00		-1.10				
		1.10	Refusal on slightly weathered limestone bedrock			



Remarks:

Trial pit done at turbine T6

Contractor:

Excavator type:

Logged by: DB

Scale as shown

Sheet: 1 of 1



Project No: P1619-0
Site: Borrisbeg WF, Co. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP12
Easting: 212671
Northing: 173893
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil			
		-0.20				
		0.20	Firm brown silty SAND (fine sand)			
		-0.90				
1.00		0.90	Very firm brown sandy gravelly CLAY (Boulder Clay)			
		-1.80				
		1.80	Refusal on boulders /possible bedrock			



Remarks:

Trial pit done at Turbine T7

Contractor:

Excavator type:

Logged by: DB

Scale as shown

Sheet: 1 of 1



Project No: P1619-0
Site: Borrisbeg WF, Co. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP13
Easting: 213499
Northing: 174204
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil			
		-0.20				
		0.20	Grey silty SAND			
		-0.90				
1.00		0.90	Gravelly silty SAND (fine sand) with cobbles and boulders			
		-1.80				
		1.80	Refusal on boulders /possible bedrock			



Remarks:

Trial pit done at Turbine T8

Contractor:

Excavator type:

Logged by: DB

Scale as shown

Sheet: 1 of 1



Project No: P1619-0
Site: Borrisbeg WF, Co. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP14
Easting: 213193
Northing: 174616
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil			
		-0.10				
		0.10	Brown silty SAND (non-cohesive)			
			Brown gravelly silty SAND			
1.00						
		-1.40				
		1.40	Refusal on competent limestone bedrock			



Remarks:

Trial pit done approximately 30m from Turbine T5 (not accessible due to silage)

Contractor:

Excavator type:

Logged by: DB

Scale as shown

Sheet: 1 of 1



Project No: P1619-0
Site: Borrisbeg WF, Co. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP15
Easting: 213332
Northing: 174307
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil			
		-0.10 0.10	Firm brown SILT/CLAY			
		-0.40 0.40	Firm grey CLAY			
		-0.80 0.80				



Remarks:

Trial pit done along access road

Contractor:

Excavator type:

Logged by: DB

Scale as shown

Sheet: 1 of 1



Project No: P1619-0
Site: Borrisbeg WF, Co. Tipperary
Client: MKO

Trial Pit Log

Date started: 05/07/2023
Date finished: 05/07/2023

Trial Pit No: TP16
Easting: 214174
Northing: 174467
Elevation: .

SUBSURFACE PROFILE

Depth	Symbol	Depth/Elev.	Description	Water Strikes	Sample Type	Comments
0.00		0.00	Ground Surface			
		0.00	Topsoil			
		-0.10 0.10	Firm brown SILT/CLAY			
		-0.40 0.40	Firm sandy, gravelly SILT/CLAY with cobbles and boulders			
		-0.80 0.80				



Remarks:

Trial pit done approximately 100m east of substation (not accessible due to silage)

Contractor:

Excavator type:

Logged by: DB

Scale as shown

Sheet: 1 of 1