APPENDIX 8-1

Trial Pit Logs

GDG GAVIN & DOHERTY GEOSOLUTIONS

Trial Pit Log

TrialPit No: TP01
Sheet 1 of 1

Project Name: Killoshulan Wind Farm	Project No. 22064	Co-ords: 635759.00 - 664854.00 Level: 204.00	Date 16/11/2022
Location: Killoshulan, Co. Kilkenny		Dimensions (m):	Scale 1:25
Client: McCarthy Keville O'Sullivan Ltd. (MKO)		Depth 0.70	Logged IPP

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							Dark brown organic CLAY with root content [Topsoil]
				0.20	203.80		Grey very gravelly medium to coarse SAND with high cobble and boulder content (>20%). Sand is subangular to subrounded. Gravel is fine to coarse, angular to subangular.
				0.60	203.40		Bedrock [Limestone]
				0.70	203.30		End of Pit at 0.70m

1
2
3
4
5

Remarks: No groundwater encountered

Stability: Stable

AGS

GDG GAVIN & DOHERTY GEOSOLUTIONS

Trial Pit Log

TrialPit No: TP02
Sheet 1 of 1

Project Name: Killoshulan Wind Farm	Project No. 22064	Co-ords: 635776.00 - 665213.00 Level: 215.83	Date 16/11/2022
Location: Killoshulan, Co. Kilkenny		Dimensions (m):	Scale 1:25
Client: McCarthy Keville O'Sullivan Ltd. (MKO)		Depth 0.60	Logged IPP

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							Brown CLAY [Topsoil]
				0.30	215.53		Grey sandy GRAVEL with high cobble and boulder content (>40%). Sand is fine to coarse, subangular to subrounded. Gravel is fine to coarse, subangular to subrounded.
				0.50	215.33		Limestone with lenses of chert.
				0.60	215.23		End of Pit at 0.60m

Remarks: No groundwater encountered

Stability: Stable

AGS

GDG GAVIN & DOHERTY GEOSOLUTIONS

Trial Pit Log

TrialPit No: TP03
Sheet 1 of 1

Project Name: Killoshulan Wind Farm	Project No. 22064	Co-ords: 635873.00 - 665432.00 Level: 192.50	Date 16/11/2022
Location: Killoshulan, Co. Kilkenny		Dimensions (m):	Scale 1:25
Client: McCarthy Keville O'Sullivan Ltd. (MKO)		Depth 2.10	Logged IPP

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							Brown CLAY with roots [Topsoil]
				0.40	192.10		Soft to firm yellowish brown slightly sandy slightly gravelly CLAY. Sand is medium to coarse, subangular to subrounded. Gravel is fine to coarse, subangular to subrounded. Pockets of loose yellow sand.
▼				2.00	190.50		Bedrock [Limestone]
				2.10	190.40		End of Pit at 2.10m

1 2 3 4 5

Remarks: Water strike at 2m below ground level

Stability: Poor stability

AGS

GDG GAVIN & DOHERTY GEOSOLUTIONS

Trial Pit Log

TrialPit No: TP04
Sheet 1 of 1

Project Name: Killoshulan Wind Farm	Project No. 22064	Co-ords: 635521.00 - 665828.00 Level: 243.20	Date 16/11/2022
Location: Killoshulan, Co. Kilkenny		Dimensions (m):	Scale 1:25
Client: McCarthy Keville O'Sullivan Ltd. (MKO)		Depth 0.90	Logged IPP

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10	243.10		Brown CLAY [Topsoil]
							Soft brownish grey slightly sandy SILT with low cobble (<10%) content of mixed lithologies. Sand is fine to medium, angular to subrounded.
				0.80	242.40		Bedrock [Limestone]
				0.90	242.30		End of Pit at 0.90m

Remarks: No groundwater encountered

Stability: Stable

AGS

GDG
GAVIN & DOHERTY
GEOSOLUTIONS

Trial Pit Log

TrialPit No
TP05
Sheet 1 of 1

Project Name: Killoshulan Wind Farm	Project No. 22064	Co-ords: 635097.00 - 666030.00 Level: 266.36	Date 15/11/2022
Location: Killoshulan, Co. Kilkenny		Dimensions (m):	Scale 1:25
Client: McCarthy Keville O'Sullivan Ltd. (MKO)		Depth 2.30	Logged IPP

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10	266.26		Soft brownish slightly gravelly CLAY. Gravel is fine to coarse, angular to subrounded [Topsoil]
							Firm yellowish brown slightly sandy CLAY. Sand is medium to coarse, angular to subangular.
				1.00	265.36		Soft to firm brownish grey slightly gravelly CLAY. Gravel is fine to coarse, subrounded to subangular.
				2.20	264.16		Bedrock [Limestone]
				2.30	264.06		End of Pit at 2.30m

1
2
3
4
5

Remarks: No groundwater encountered

Stability: Stable

AGS

GDG GAVIN & DOHERTY GEOSOLUTIONS

Trial Pit Log

TrialPit No: TP06
Sheet 1 of 1

Project Name: Killoshulan Wind Farm	Project No. 22064	Co-ords: 634658.00 - 666155.00 Level: 290.50	Date 15/11/2022
Location: Killoshulan, Co. Kilkenny		Dimensions (m):	Scale 1:25
Client: McCarthy Keville O'Sullivan Ltd. (MKO)		Depth 2.80	Logged IPP

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10	290.40		Brown CLAY with high root content [Topsoil]
							Soft to firm yellowish brown slightly sandy CLAY. Sand is medium to coarse, angular to subangular.
				1.00	289.50		Dark thinly laminated weathered MUDSTONE. Presence of oxidation on fracture surfaces.
▼				2.70	287.80		Obstruction [weathered bedrock]
				2.80	287.70		End of Pit at 2.80m

1
2
3
4
5

Remarks: Water strike at 2.7m below ground level

Stability: Poor stability

AGS

GDG GAVIN & DOHERTY GEOSOLUTIONS

Trial Pit Log

TrialPit No: TP07
Sheet 1 of 1

Project Name: Killoshulan Wind Farm	Project No. 22064	Co-ords: 634021.00 - 665164.00 Level: 235.00	Date 15/11/2022
Location: Killoshulan, Co. Kilkenny		Dimensions (m):	Scale 1:25
Client: McCarthy Keville O'Sullivan Ltd. (MKO)		Depth 0.80	Logged IPP

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.10	234.90		Brown CLAY [Topsoil]
							Large angular to subangular boulders 80-90cm [assumed lithology: limestone]
				0.60	234.40		Very soft light brown CLAY
				0.70	234.30		Bedrock [Limestone]
				0.80	234.20		End of Pit at 0.80m

Remarks: No groundwater encountered

Stability: Stable

AGS

GDG GAVIN & DOHERTY GEOSOLUTIONS

Trial Pit Log

TrialPit No: TP07A
Sheet 1 of 1

Project Name: Killoshulan Wind Farm	Project No. 22064	Co-ords: 634092.76 - 665078.06 Level: 218.00	Date 15/11/2022
Location: Killoshulan, Co. Kilkenny		Dimensions (m):	Scale 1:25
Client: McCarthy Keville O'Sullivan Ltd. (MKO)		Depth 2.40	Logged IPP

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							Brown slightly sandy CLAY with low cobble content. Sand is coarse, subangular to subrounded.
				0.50	217.50		Brown very gravelly CLAY with high boulder content. Gravel is medium to coarse, angular to subangular. Boulders are subangular to subrounded.
				2.30	215.70		Bedrock [Limestone]
				2.40	215.60		End of Pit at 2.40m

1
2
3
4
5

Remarks: No groundwater encountered

Stability: Stable

AGS

GDG
GAVIN & DOHERTY
GEOSOLUTIONS

Trial Pit Log

TrialPit No
TP08
Sheet 1 of 1

Project Name: Killoshulan Wind Farm	Project No. 22064	Co-ords: 633892.00 - 665583.00 Level: 264.00	Date 15/11/2022
Location: Killoshulan, Co. Kilkenny		Dimensions (m):	Scale 1:25
Client: McCarthy Keville O'Sullivan Ltd. (MKO)		Depth 2.60	Logged IPP

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							Brown slightly gravelly CLAY with low cobble content [topsoil]. Gravel is fine, rounded to subrounded. Cobbles are angular to subrounded. Large boulders at the bottom which ranges between 50 to 80cm, with an average size of 60cm.
				0.60	263.40		Firm yellowish brown mottled orange slightly gravelly sandy SILT. Sand is fine to coarse, angular to subangular. Gravel is fine, angular to subangular.
				1.70	262.30		Soft dark brown slightly sandy CLAY with pockets of black organic material. Sand is fine to medium, angular to subangular.
				2.50	261.50		Bedrock [Limestone]
				2.60	261.40		End of Pit at 2.60m

1
2
3
4
5

Remarks: No groundwater encountered

Stability: Stable

AGS

GDG
GAVIN & DOHERTY
GEOSOLUTIONS

Trial Pit Log

TrialPit No
TP11
Sheet 1 of 1

Project Name: Killoshulan Wind Farm	Project No. 22064	Co-ords: 633541.00 - 666832.00 Level: 297.50	Date 16/11/2022
Location: Killoshulan, Co. Kilkenny		Dimensions (m):	Scale 1:25
Client: McCarthy Keville O'Sullivan Ltd. (MKO)		Depth 0.80	Logged IPP

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							Brown CLAY with high presence of wood and roots [Topsoil].
				0.30	297.20		Soft yellowish brown slightly gravelly CLAY. Gravel is fine, angular to subangular.
				0.45	297.05		Slightly clayey very sandy GRAVEL. Gravel is fine to coarse, angular to subangular [weathered bedrock].
				0.70	296.80		Bedrock [Limestone]
				0.80	296.70		End of Pit at 0.80m

1
2
3
4
5

Remarks: No groundwater encountered

Stability: Stable

AGS

GDG GAVIN & DOHERTY GEOSOLUTIONS

Trial Pit Log

TrialPit No: TP12
Sheet 1 of 1

Project Name: Killoshulan Wind Farm	Project No. 22064	Co-ords: 633623.00 - 667046.00 Level: 287.73	Date 17/11/2022
Location: Killoshulan, Co. Kilkenny		Dimensions (m):	Scale 1:25
Client: McCarthy Keville O'Sullivan Ltd. (MKO)		Depth 0.85	Logged IPP

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
				0.20	287.53		Brown CLAY with high presence of wood and roots [Topsoil]. Large angular boulders likely from nearby field boundary wall.
							Grey angular fine to coarse GRAVEL [weathered bedrock]
				0.75	286.98		Bedrock [Limestone]
				0.85	286.88		End of Pit at 0.85m

1
2
3
4
5

Remarks: No groundwater encountered

Stability: Stable

AGS

GDG GAVIN & DOHERTY GEOSOLUTIONS

Trial Pit Log

TrialPit No: TP13
Sheet 1 of 1

Project Name: Killoshulan Wind Farm	Project No. 22064	Co-ords: 635266.00 - 667223.00 Level: 209.24	Date 17/11/2022
Location: Killoshulan, Co. Kilkenny		Dimensions (m):	Scale 1:25
Client: McCarthy Keville O'Sullivan Ltd. (MKO)		Depth 2.30	Logged IPP

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							Brown CLAY [Topsoil]
				0.30	208.94		Soft yellowish brown slightly sandy CLAY with pockets of loose sand. Sand is fine to medium, subangular to subrounded.
				0.75	208.49		Firm grey slightly sandy gravelly CLAY with high boulder content (>20%). Sand is medium to coarse, angular to subangular.
▼				2.20	207.04		Obstruction [weathered bedrock]
				2.30	206.94		End of Pit at 2.30m

1 2 3 4 5

Remarks: Water strike at 1.5m below ground level

Stability: Poor stability

AGS

GDG GAVIN & DOHERTY GEOSOLUTIONS

Trial Pit Log

TrialPit No: TP16
Sheet 1 of 1

Project Name: Killoshulan Wind Farm	Project No. 22064	Co-ords: 634697.00 - 667123.00 Level: 229.50	Date 17/11/2022
Location: Killoshulan, Co. Kilkenny		Dimensions (m):	Scale 1:25
Client: McCarthy Keville O'Sullivan Ltd. (MKO)		Depth 2.90	Logged IPP

Water Strike	Samples & In Situ Testing: Depth	Type	Results	Depth (m)	Level (m)	Legend	Stratum Description
							Brown CLAY [Topsoil]
				0.30	229.20		Soft yellowish brown slightly sandy CLAY with pockets of loose medium sand. Sand is fine to medium, subangular to subrounded.
				1.10	228.40		Soft yellowish brown gravelly CLAY with pockets of black organic material. Gravel is medium to coarse, angular to subangular. Presence of large angular boulders (<20%).
▼				2.80	226.70		Obstruction [weathered bedrock]
				2.90	226.60		End of Pit at 2.90m

Remarks: Water strike at 2.6m below ground level

Stability: Poor stability

AGS