

INSPECTION DETAILS	
Site Location:	Derryadd Wind Farm Area 1
Trial Pit No:	101
Turbine No:	T22
Coordinates:	E207835.669044 N264626.489012
Date & Time:	11 th January 2017
Testing details:	Trial pit
Observations & recommendations:	<p>The following layers were observed in this Trial Pit:</p> <p>0.00 – 0.90 m: Black peat with very little discernible fibres and roots 0.90 – 3.10 m: Light grey soft slightly sandy gravelly CLAY with significant amount of cobbles and boulders and occasional minor lenses of yellow fine to medium sand.</p> <p>TP terminated at 3.10 m due to abundance of large angular boulders.</p> <p>Shear Vane Tests: 0.25 m (in-situ soil): 7, 34, 22, 17, 33 (likely interfered with existing vegetation roots) 2.20 m (excavated soil): 9, 10, 10 (on softer parts with less gravel)</p> <p>Samples: [0.50 m] / [2.20 m]</p> <p>Remarks:</p> <ul style="list-style-type: none"> • Difficult access. Unused part of bog – dense vegetation cover of small trees, grass and moss • Significant amount of water trickling from the interface of peat and gravelly clay (from several points) • TP walls crumbling / slightly unstable • Increasing amount of gravels and cobbles with depth • After 2.50 m, significant amount of large boulders

PHOTOGRAPHS



General overview of terrain



Close up of gravelly clay with the yellow sand lens (in circle)



View of TP. Water trickling from the interface of peat and clay (continuous weak flow). Walls slightly unstable and crumbling (mostly on water path).



Close-up of gravelly clay. Large amount of water comes from the water gathered at the bottom of the pit.



Close up of large angular boulders in gravelly clay. Large amount of water comes from the water gathered at the bottom of the pit.

INSPECTION DETAILS	
Site Location:	Derryadd Wind Farm Area 1
Trial Pit No:	TP03
Turbine No:	T28 (Formally Turbine No. 3 prior to issue of Site Layout Drawing 8057-1004 D02 Jan 2017)
Coordinates:	E209901.918207 N264072.96959
Date & Time:	1 st December 2016
Testing details:	Trial pit
Observations & recommendations:	<p>The below points were observed during this Ground investigation</p> <p>0 – 0.80m: Plastic Fibrous Black Organic PEAT</p> <p>0.80 – 3.50m: Plastic Fibrous Brown PEAT</p> <p>3.50 – 4.50m: very loose to loose light grey silty gravelly SAND with abundant cobbles</p> <p>Samples: 4.00 – 4.50m</p> <p>Trial pit stopped as the maximum depth achievable with the excavator was reached</p>

PHOTOGRAPHS



End of the trial pit at
the location of T03

INSPECTION DETAILS	
Site Location:	Derryadd Wind Farm Area 1
Trial Pit No:	TP04
Turbine No:	T26 (Formally Turbine No. 4 prior to issue of Site Layout Drawing 8057-1004 D02 Jan 2017)
Coordinates:	E209708.785509 N264640.974938
Date & Time:	1 st December 2016
Testing details:	Trial pit
Observations & recommendations:	<p>The below points were observed during this Ground investigation</p> <p>0 – 0.05m: Plastic Fibrous Black Organic PEAT</p> <p>0.05 – 0.40m: Very soft to soft light brown slightly clayey sandy gravelly SILT with numerous cobbles</p> <p>0.40 – 2.2m: Very soft to soft light grey slightly sandy gravelly SILT/CLAY with numerous cobbles and occasional boulders</p> <p>Samples: 0.30 – 0.40m / 2.00 – 2.20m</p> <p>Trial pit stopped due to an obstruction (possible boulders)</p>

PHOTOGRAPHS



End of the trial pit at the location of T4



Close-up of the Very soft to soft light brown slightly clayey sandy gravelly SILT with numerous cobbles



General view of the Very soft to soft light grey slightly sandy gravelly SILT/CLAY with numerous cobbles and occasional boulders



Close-up the Very soft to soft light grey slightly sandy gravelly SILT/CLAY with numerous cobbles and occasional boulders

INSPECTION DETAILS	
Site Location:	Derryadd Wind Farm Area 1
Trial Pit No:	TP05
Turbine No:	T27 (Formally Turbine No. 5 prior to issue of Site Layout Drawing 8057-1004 D02 Jan 2017)
Coordinates:	E209886.277494 N265235.56172
Date & Time:	1 st December 2016
Testing details:	Trial pit
Observations & recommendations:	<p>The below points were observed during this Ground investigation</p> <p>0 – 0.10m: Plastic Fibrous Black Organic PEAT</p> <p>0.10 – 1.30m: Plastic Fibrous Brown PEAT</p> <p>1.30 – 2.7m: Very soft to soft light grey slightly clayey sandy SILT with abundant cobbles</p> <p>Samples: 2.50 – 2.70m</p> <p>Trial pit stopped due to an obstruction (possible boulders)</p>

PHOTOGRAPHS



End of the trial pit at the location of T5



General view of the Very soft to soft light grey slightly clayey sandy SILT with abundant cobbles



Close-up of the
Very soft to soft
light grey slightly
clayey sandy SILT
with abundant
cobbles

INSPECTION DETAILS	
Site Location:	Derryadd Wind Farm Area 1
Trial Pit No:	TP06
Turbine No:	T23 (Formally Turbine No. 6 prior to issue of Site Layout Drawing 8057-1004 D02 Jan 2017)
Coordinates:	E208360.322402 N264306.308806
Date & Time:	1 st December 2016
Testing details:	Trial pit
Observations & recommendations:	<p>The below points were observed during this Ground investigation</p> <p>0 – 0.10m: Plastic Fibrous Black Organic PEAT</p> <p>0.10 – 1.10m: Plastic Fibrous Brown PEAT</p> <p>1.10 – 2.00m: Very soft to soft light grey slightly clayey SILT with abundant gravels and cobbles</p> <p>2.00 – 2.50m: Very soft to soft light grey slightly clayey SILT with abundant gravels, cobbles and boulders</p> <p>Samples: 1.50 – 1.80m / 2.20 – 2.50m</p> <p>Trial pit stopped due to an obstruction (possible boulders)</p> <p>Remark: Too many gravels to make a Vane Shear Test</p>

PHOTOGRAPHS	
N/A	

INSPECTION DETAILS	
Site Location:	Derryadd Wind Farm Area 1
Trail Pit:	TP07
Turbine No:	T24 (Formally Turbine No. 7 prior to issue of Site Layout Drawing 8057-1004 D02 Jan 2017)
Coordinates:	E209253.267958 N264198.25332
Date & Time:	1 st December 2016
Testing details:	Trial pit
Observations & recommendations:	<p>The below points were observed during this Ground investigation</p> <p>0 – 0.10m: Plastic Fibrous Black Organic PEAT</p> <p>0.10 – 1.10m: Plastic Fibrous Brown PEAT</p> <p>1.10 – 1.40m: Very soft to soft light grey slightly silty CLAY with occasional gravels</p> <p>1.40 – 2.00m: Very loose to loose silty SAND with numerous gravels and cobbles</p> <p>Vane Test at 1.30m: 38, 40, 60</p> <p>Samples: 1.20 – 1.40m / 1.7 – 2.00m</p> <p>Trial pit stopped due to an obstruction (possible boulders)</p> <p>Remark: Water table at 2.00m</p>

PHOTOGRAPHS



End of the trial pit at the location of T7



Close-up of the Very soft to soft light grey slightly silty CLAY with occasional gravels



General view of the
Very loose to loose
silty SAND with
numerous gravels
and cobbles

INSPECTION DETAILS	
Site Location:	Derryadd Wind Farm Area 1
Trail Pit:	TP08
Turbine No:	T25 (Formally Turbine No. 8 prior to issue of Site Layout Drawing 8057-1004 D02 Jan 2017)
Coordinates:	E209447.797401 N263626.549651
Date & Time:	1 st December 2016
Testing details:	Trial pit
Observations & recommendations:	<p>The below points were observed during this Ground investigation</p> <p>0 – 0.10m: Plastic Fibrous Black Organic PEAT</p> <p>0.10 – 2.00m: Plastic Fibrous Brown PEAT</p> <p>2.00 – 2.70m: Soft light grey slightly clayey gravelly SILT</p> <p>2.70 – 3.70m: Very loose to loose light grey silty gravelly SAND with numerous cobbles and boulders</p> <p>Vane Test at 2.5m: 48, 52, 48</p> <p>Samples: 2.50 – 2.70m / 3.50 – 3.70m</p> <p>Trial pit stopped due to an obstruction (possible boulders)</p>

PHOTOGRAPHS



End of the trial pit at the location of T7



Close-up of the Soft light grey slightly clayey gravelly SILT



General view of the Very loose to loose light grey silty gravelly SAND with numerous cobbles and boulders