

Appendix 10.1 App B(a) - Peat Database

Oatfield WF, Co. Clare
604569



Date: 16/11/2023
Prepared by: DW
File Ref.: 604569-Geo-R2-App10.1 - App B(a)-(00)-Peat Database

Sample / Test Date	Data Source	Sample / Test Category	Sample / Test Point ID No.	ITM Easting	ITM Northing	Thickness / Depth of peat	Classification of Thickness / Depth of peat	Local Incline (c.5/25m rad.)	Parameter Values		Scenario A	Scenario B	Scenario A		Scenario B		Scenario A		Scenario B		Scenario A		Scenario B		Scenario A	Scenario B
									Undrained Shear Strength (Conservative Value)	Bulk Unit weight of Peat (Conservative Value)			FoS _{RAW} Factor of Safety (FoS) for Peat Stability	FoS _{RAW} Factor of Safety (FoS) for Peat Stability	FoS _{ADJ} Adjusted Factor of Safety (FoS) for Peat Stability	FoS _{ADJ} Adjusted Factor of Safety (FoS) for Peat Stability	RR _{SF} Ranking Risk re Potential for Adverse Consequences on Sensitive Receptors	RR _{SF} Ranking Risk re Potential for Adverse Consequences on Sensitive Receptors	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors						
dd/mm/yy						m		Degrees	kPa	kN/m3	m	m	FoS	μ	FoS	μ	FoS	μ	FoS	μ	RR-SF	μ	RR-SF	μ	RR-D	μ
05/09/2023	RSK SI	Depth Probe	DP001	556328.42	670342.32	0.20	B - Very Shallow (0.01-0.5m)	7.02	3.5	11	0.20	1.20	13.11	1.0	2.19	1.0	2.0	0.0	13.11	1.0	2.19	1.0	2.0	1.0	30.0	4.0
05/09/2023	RSK SI	Depth Probe	DP002	556330.46	670362.79	0.60	C - Shallow (0.5-2.0m)	5.77	3.5	11	0.60	1.60	5.30	1.0	1.99	1.0	2.0	0.0	5.30	1.0	1.99	1.0	2.0	1.0	40.1	4.0
05/09/2023	RSK SI	Depth Probe	DP003	556334.89	670383.87	0.40	B - Very Shallow (0.01-0.5m)	3.15	3.5	11	0.40	1.40	14.50	1.0	4.14	1.0	2.0	0.0	14.50	1.0	4.14	1.0	2.0	1.0	55.3	2.0
05/09/2023	RSK SI	Depth Probe	DP004	556342.86	670398.95	0.30	B - Very Shallow (0.01-0.5m)	3.15	3.5	11	0.30	1.30	19.33	1.0	4.46	1.0	2.0	0.0	19.33	1.0	4.46	1.0	2.0	1.0	71.5	2.0
05/09/2023	RSK SI	Depth Probe	DP005	556353.40	670424.25	0.10	B - Very Shallow (0.01-0.5m)	4.16	3.5	11	0.10	1.10	44.01	1.0	4.00	1.0	2.0	0.0	44.01	1.0	4.00	1.0	2.0	1.0	86.6	2.0
05/09/2023	RSK SI	Depth Probe	DP006	556356.71	670449.57	0.10	B - Very Shallow (0.01-0.5m)	4.53	3.5	11	0.10	1.10	40.44	1.0	3.68	1.0	2.0	0.0	40.44	1.0	3.68	1.0	2.0	1.0	99.0	2.0
05/09/2023	RSK SI	Depth Probe	DP007	556327.72	670438.18	0.30	B - Very Shallow (0.01-0.5m)	1.03	3.5	11	0.30	1.30	59.01	1.0	13.62	1.0	2.0	0.0	59.01	1.0	13.62	1.0	2.0	1.0	89.6	2.0
05/09/2023	RSK SI	Depth Probe	DP008	556359.13	670470.80	0.40	B - Very Shallow (0.01-0.5m)	4.06	3.5	11	0.40	1.40	11.27	1.0	3.22	1.0	2.0	0.0	11.27	1.0	3.22	1.0	2.0	1.0	112.1	2.0
05/09/2023	RSK SI	Depth Probe	DP009	556366.17	670485.54	0.20	B - Very Shallow (0.01-0.5m)	4.36	3.5	11	0.20	1.20	21.00	1.0	3.50	1.0	2.0	0.0	21.00	1.0	3.50	1.0	2.0	1.0	119.4	2.0
05/09/2023	RSK SI	Depth Probe	DP010	556372.62	670501.66	0.20	B - Very Shallow (0.01-0.5m)	4.29	3.5	11	0.20	1.20	21.34	1.0	3.56	1.0	2.0	0.0	21.34	1.0	3.56	1.0	2.0	1.0	129.9	2.0
05/09/2023	RSK SI	Depth Probe	DP011	556371.14	670513.86	0.90	C - Shallow (0.5-2.0m)	4.29	3.5	11	0.90	1.90	4.74	1.0	2.25	1.0	2.0	0.0	4.74	1.0	2.25	1.0	2.0	1.0	140.8	2.0
05/09/2023	RSK SI	Depth Probe	DP012	556368.62	670512.86	1.00	C - Shallow (0.5-2.0m)	4.29	3.5	11	1.00	2.00	4.27	1.0	2.13	1.0	2.0	0.0	4.27	1.0	2.13	1.0	2.0	1.0	141.7	2.0
05/09/2023	RSK SI	Depth Probe	DP013	556380.44	670532.94	0.40	B - Very Shallow (0.01-0.5m)	3.63	3.5	11	0.40	1.40	12.59	1.0	3.60	1.0	2.0	0.0	12.59	1.0	3.60	1.0	2.0	1.0	155.5	1.0
05/09/2023	RSK SI	Depth Probe	DP014	556382.66	670548.42	0.30	B - Very Shallow (0.01-0.5m)	4.52	3.5	11	0.30	1.30	13.50	1.0	3.11	1.0	2.0	0.0	13.50	1.0	3.11	1.0	2.0	1.0	169.1	1.0
05/09/2023	RSK SI	Depth Probe	DP015	556387.02	670563.74	0.10	B - Very Shallow (0.01-0.5m)	3.72	3.5	11	0.10	1.10	49.16	1.0	4.47	1.0	2.0	0.0	49.16	1.0	4.47	1.0	2.0	1.0	181.3	1.0
05/09/2023	RSK SI	Depth Probe	DP016	556393.57	670581.01	0.30	B - Very Shallow (0.01-0.5m)	3.72	3.5	11	0.30	1.30	16.39	1.0	3.78	1.0	2.0	0.0	16.39	1.0	3.78	1.0	2.0	1.0	192.0	1.0
05/09/2023	RSK SI	Depth Probe	DP017	556395.22	670595.63	0.20	B - Very Shallow (0.01-0.5m)	5.21	3.5	11	0.20	1.20	17.59	1.0	2.93	1.0	2.0	0.0	17.59	1.0	2.93	1.0	2.0	1.0	203.8	1.0
05/09/2023	RSK SI	Depth Probe	DP018	556397.16	670609.67	0.50	B - Very Shallow (0.01-0.5m)	5.21	3.5	11	0.50	1.50	7.04	1.0	2.35	1.0	2.0	0.0	7.04	1.0	2.35	1.0	2.0	1.0	215.3	1.0
05/09/2023	RSK SI	Depth Probe	DP019	556401.73	670628.78	0.60	C - Shallow (0.5-2.0m)	8.23	3.5	11	0.60	1.60	3.74	1.0	1.40	1.0	2.0	0.0	3.74	1.0	1.40	1.0	2.0	1.0	230.7	1.0
05/09/2023	RSK SI	Depth Probe	DP020	556406.61	670652.00	0.20	B - Very Shallow (0.01-0.5m)	8.73	3.5	11	0.20	1.20	10.61	1.0	1.77	1.0	2.0	0.0	10.61	1.0	1.77	1.0	2.0	1.0	250.4	1.0
05/09/2023	RSK SI	Depth Probe	DP021	556411.57	670674.85	0.80	C - Shallow (0.5-2.0m)	8.73	3.5	11	0.80	1.80	2.65	1.0	1.18	1.0	2.0	0.0	2.65	1.0	1.18	1.0	2.0	1.0	270.4	1.0
05/09/2023	RSK SI	Depth Probe	DP022	556399.85	670689.44	0.70	C - Shallow (0.5-2.0m)	5.96	3.5	11	0.70	1.70	4.40	1.0	1.81	1.0	2.0	0.0	4.40	1.0	1.81	1.0	2.0	1.0	288.0	1.0
05/09/2023	RSK SI	Depth Probe	DP023	556382.04	670700.44	0.20	B - Very Shallow (0.01-0.5m)	4.79	3.5	11	0.20	1.20	19.13	1.0	3.19	1.0	2.0	0.0	19.13	1.0	3.19	1.0	2.0	1.0	304.5	1.0
05/09/2023	RSK SI	Depth Probe	DP024	556363.06	670707.68	0.30	B - Very Shallow (0.01-0.5m)	4.28	3.5	11	0.30	1.30	14.26	1.0	3.29	1.0	2.0	0.0	14.26	1.0	3.29	1.0	2.0	1.0	318.5	1.0
05/09/2023	RSK SI	Depth Probe	DP025	556344.13	670717.87	0.50	B - Very Shallow (0.01-0.5m)	4.42	3.5	11	0.50	1.50	8.29	1.0	2.76	1.0	2.0	0.0	8.29	1.0	2.76	1.0	2.0	1.0	333.8	1.0
05/09/2023	RSK SI	Depth Probe	DP026	556323.77	670729.55	0.60	C - Shallow (0.5-2.0m)	5.12	3.5	11	0.60	1.60	5.96	1.0	2.24	1.0	2.0	0.0	5.96	1.0	2.24	1.0	2.0	1.0	337.6	1.0
05/09/2023	RSK SI	Depth Probe	DP027	556308.90	670735.28	0.40	B - Very Shallow (0.01-0.5m)	5.12	3.5	11	0.40	1.40	8.95	1.0	2.56	1.0	2.0	0.0	8.95	1.0	2.56	1.0	2.0	1.0	338.7	1.0
05/09/2023	RSK SI	Depth Probe	DP028	556293.88	670744.57	0.30	B - Very Shallow (0.01-0.5m)	4.25	3.5	11	0.30	1.30	14.33	1.0	3.31	1.0	2.0	0.0	14.33	1.0	3.31	1.0	2.0	1.0	344.0	1.0
05/09/2023	RSK SI	Depth Probe	DP029	556277.73	670751.71	0.60	C - Shallow (0.5-2.0m)	3.58	3.5	11	0.60	1.60	8.51	1.0	3.19	1.0	2.0	0.0	8.51	1.0	3.19	1.0	2.0	1.0	347.7	1.0
05/09/2023	RSK SI	Depth Probe	DP030	556249.01	670761.25	0.50	B - Very Shallow (0.01-0.5m)	3.45	3.5	11	0.50	1.50	10.60	1.0	3.53	1.0	2.0	0.0	10.60	1.0	3.53	1.0	2.0	1.0	353.3	1.0
05/09/2023	RSK SI	Depth Probe	DP031	556222.64	670775.01	0.40	B - Very Shallow (0.01-0.5m)	2.51	3.5	11	0.40	1.40	18.17	1.0	5.19	1.0	2.0	0.0	18.17	1.0	5.19	1.0	2.0	1.0	365.7	1.0
05/09/2023	RSK SI	Depth Probe	DP032	556179.44	670820.81	0.20	B - Very Shallow (0.01-0.5m)	2.39	3.5	11	0.20	1.20	38.25	1.0	6.37	1.0	2.0	0.0	38.25	1.0	6.37	1.0	2.0	1.0	411.7	1.0
05/09/2023	RSK SI	Depth Probe	DP033	556170.62	670828.78	0.50	B - Very Shallow (0.01-0.5m)	2.81	3.5	11	0.50	1.50	12.99	1.0	4.33	1.0	2.0	0.0	12.99	1.0	4.33	1.0	2.0	1.0	419.7	1.0
05/09/2023	RSK SI	Depth Probe	DP034	556161.55	670842.35	0.20	B - Very Shallow (0.01-0.5m)	3.94	3.5	11	0.20	1.20	23.22	1.0	3.87	1.0	2.0	0.0	23.22	1.0	3.87	1.0	2.0	1.0	433.5	1.0
05/09/2023	RSK SI	Depth Probe	DP035	556139.00	670887.84	0.40	B - Very Shallow (0.01-0.5m)	3.45	3.5	11	0.40	1.40	13.24	1.0	3.78	1.0	2.0	0.0	13.24	1.0	3.78	1.0	2.0	1.0	407.4	1.0
05/09/2023	RSK SI	Depth Probe	DP036	556130.69	670899.12	2.00	C - Shallow (0.5-2.0m)	3.45	3.5	11	2.00	2.00	2.65	1.0	1.76	1.0	2.0	0.0	2.65	1.0	1.76	1.0	2.0	1.0	393.4	1.0
05/09/2023	RSK SI	Depth Probe	DP037	556080.92	670879.24	0.30	B - Very Shallow (0.01-0.5m)	1.57	3.5	11	0.30	1.30	38.76	1.0	8.95	1.0	2.0	0.0	38.76	1.0	8.95	1.0	2.0	1.0	381.7	1.0
05/09/2023	RSK SI	Depth Probe	DP038	556086.76	670860.15	0.60	C - Shallow (0.5-2.0m)	1.57	3.5	11	0.60	1.60	19.38	1.0	7.27	1.0	2.0	0.0	19.38	1.0	7.27	1.0	2.0	1.0	401.1	1.0
05/09/2023	RSK SI	Depth Probe	DP039	556100.04	670840.29	0.70	C - Shallow (0.5-2.0m)	1.20	3.5	11	0.70	1.70	21.74	1.0	8.95	1.0	2.0	0.0	21.74	1.0	8.95	1.0	2.0	1.0	424.9	1.0
05/09/2023	RSK SI	Depth Probe	DP040	556115.64	670837.42	1.70	C - Shallow (0.5-2.0m)	1.72	3.5	11	1.70	1.70	6.23	1.0	3.92	1.0	2.0	0.0	6.23	1.0	3.92	1.0	2.0	1.0	432.8	1.0
05/09/2023	RSK SI	Depth Probe	DP041	556132.95	670828.58	2.10	D - Moderately Deep (2.0-3.5m)	3.68	3.5	11	2.10	2.10	2.37	1.0	1.60	1.0	2.0	0.0	2.37	1.0	1.60	1.0	2.0	1.0	421.8	1.0
05/09/2023	RSK SI	Depth Probe	DP042	556145.31	670819.68	1.00	C - Shallow (0.5-2.0m)	3.44	3.5	11	1.00	1.00	5.31	1.0	2.65	1.0	2.0	0.0	5.31	1.0	2.65	1.0	2.0	1.0	411.8	1.0
05/09/2023	RSK SI	Depth Probe	DP043	556170.36	670810.30	0.90	C - Shallow (0.5-2.0m)	2.99	3.5	11	0.90	1.90	8.50	1.0	4.03	1.0	2.0	0.0	8.50	1.0	4.03	1.0	2.0	1.0	401.3	1.0
05/09/2023	RSK SI	Depth Probe	DP044	556181.15	670804.45	0.30	B - Very Shallow (0.01-0.5m)	2.99	3.5	11	0.30	1.30	20.39	1.0	4.71	1.0	2.0	0.0	20.39	1.0	4.71</					

Appendix 10.1 App B(a) - Peat Database

Oatfield WF, Co. Clare
604569



Date: 16/11/2023
Prepared by: DW
File Ref.: 604569-Geo-R2-App10.1 - App B(a)-(00)-Peat Database

Sample / Test Date	Data Source	Sample / Test Category	Sample / Test Point ID No.	ITM Easting	ITM Northing	Thickness / Depth of peat	Classification of Thickness / Depth of peat	Local Incline (c.5/25m rad.)	Parameter Values		Scenario A	Scenario B	Scenario A		Scenario B		Scenario A		Scenario B		Significant Feature Ranking Coefficient	Scenario A		Scenario B		RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors
									Undrained Shear Strength (Conservative Value)	Bulk Unit weight of Peat (Conservative Value)			FoS _{RAW} Factor of Safety (FoS) for Peat Stability	FoS _{RAW} Factor of Safety (FoS) for Peat Stability	FoS _{ADJ} Adjusted Factor of Safety (FoS) for Peat Stability	FoS _{ADJ} Adjusted Factor of Safety (FoS) for Peat Stability	RR _{SF} Ranking Risk re Potential for Adverse Consequences on Sensitive Receptors	RR _{SF} Ranking Risk re Potential for Adverse Consequences on Sensitive Receptors									
dd/mm/yy						m		Degrees	kPa	kN/m3	m	m	FoS	μ	FoS	μ	FoS	μ	FoS	μ		RR-SF	μ	RR-SF	μ	RR-D	RR-D
05/09/2023	RSK SI	Depth Probe	DP096	556883.86	671130.03	0.60	C - Shallow (0.5-2.0m)	7.22	3.5	11	0.60	1.60	4.25	1.0	1.59	1.0	2.0	0.0	4.25	1.0	1.59	1.0	2.0	1.0	322.9	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP097	556867.92	671135.72	0.20	B - Very Shallow (0.01-0.5m)	6.64	3.5	11	0.20	1.20	13.85	1.0	2.31	1.0	2.0	0.0	13.85	1.0	2.31	1.0	2.0	1.0	318.2	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP098	556861.12	671116.10	0.20	B - Very Shallow (0.01-0.5m)	9.69	3.5	11	0.20	1.20	9.59	1.0	1.60	1.0	2.0	0.0	9.59	1.0	1.60	1.0	2.0	1.0	338.4	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP099	556832.80	671119.90	0.40	B - Very Shallow (0.01-0.5m)	8.51	3.5	11	0.40	1.40	5.43	1.0	1.55	1.0	2.0	0.0	5.43	1.0	1.55	1.0	2.0	1.0	338.6	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP100	556827.74	671103.80	0.30	B - Very Shallow (0.01-0.5m)	8.51	3.5	11	0.30	1.30	7.25	1.0	1.67	1.0	2.0	0.0	7.25	1.0	1.67	1.0	2.0	1.0	355.4	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP101	556814.92	671086.75	0.40	B - Very Shallow (0.01-0.5m)	9.46	3.5	11	0.40	1.40	4.91	1.0	1.40	1.0	2.0	0.0	4.91	1.0	1.40	1.0	2.0	1.0	374.7	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP102	556778.53	671041.96	0.50	B - Very Shallow (0.01-0.5m)	7.37	3.5	11	0.50	1.50	5.00	1.0	1.67	1.0	2.0	0.0	5.00	1.0	1.67	1.0	2.0	1.0	427.0	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP103	556771.69	670989.57	0.70	C - Shallow (0.5-2.0m)	1.63	3.5	11	0.70	1.70	16.03	1.0	6.60	1.0	2.0	0.0	16.03	1.0	6.60	1.0	2.0	1.0	479.3	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP104	556776.93	670949.47	0.40	B - Very Shallow (0.01-0.5m)	1.30	3.5	11	0.40	1.40	35.17	1.0	10.05	1.0	2.0	0.0	35.17	1.0	10.05	1.0	2.0	1.0	517.0	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP105	556755.23	670950.37	0.40	B - Very Shallow (0.01-0.5m)	3.35	3.5	11	0.40	1.40	13.62	1.0	3.89	1.0	2.0	0.0	13.62	1.0	3.89	1.0	2.0	1.0	521.5	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP106	556749.25	670940.00	0.40	B - Very Shallow (0.01-0.5m)	2.84	3.5	11	0.40	1.40	16.05	1.0	4.58	1.0	2.0	0.0	16.05	1.0	4.58	1.0	2.0	1.0	533.1	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP107	557167.82	670748.01	0.00	A - Rock (0.0m)	0.89	3.5	11	0.00	1.00	20436.48	1.0	20.42	1.0	2.0	0.0	20436.48	1.0	20.42	1.0	2.0	1.0	433.7	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP108	557133.13	670764.47	0.00	A - Rock (0.0m)	0.98	3.5	11	0.00	1.00	18556.15	1.0	18.54	1.0	2.0	0.0	18556.15	1.0	18.54	1.0	2.0	1.0	437.5	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP109	557109.59	670790.73	0.00	A - Rock (0.0m)	1.33	3.5	11	0.00	1.00	13717.12	1.0	13.70	1.0	2.0	0.0	13717.12	1.0	13.70	1.0	2.0	1.0	456.7	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP110	557081.99	670776.15	0.10	B - Very Shallow (0.01-0.5m)	1.93	3.5	11	0.10	1.10	94.62	1.0	8.60	1.0	2.0	0.0	94.62	1.0	8.60	1.0	2.0	1.0	436.7	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP111	557045.34	670771.18	0.20	B - Very Shallow (0.01-0.5m)	1.83	3.5	11	0.20	1.20	49.84	1.0	8.31	1.0	2.0	0.0	49.84	1.0	8.31	1.0	2.0	1.0	426.8	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP112	557038.02	670748.91	1.10	C - Shallow (0.5-2.0m)	1.01	3.5	11	1.10	2.10	16.36	1.0	8.57	1.0	2.0	0.0	16.36	1.0	8.57	1.0	2.0	1.0	403.9	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP113	557040.86	670744.98	1.10	C - Shallow (0.5-2.0m)	0.98	3.5	11	1.10	2.10	16.90	1.0	8.85	1.0	2.0	0.0	16.90	1.0	8.85	1.0	2.0	1.0	407.2	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP114	557039.89	670715.67	1.10	C - Shallow (0.5-2.0m)	1.04	3.5	11	1.10	2.10	15.88	1.0	8.32	1.0	2.0	0.0	15.88	1.0	8.32	1.0	2.0	1.0	371.0	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP115	557066.75	670688.76	0.20	B - Very Shallow (0.01-0.5m)	2.99	3.5	11	0.20	1.20	30.56	1.0	5.09	1.0	2.0	0.0	30.56	1.0	5.09	1.0	2.0	1.0	348.0	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP116	557069.31	670664.06	0.70	C - Shallow (0.5-2.0m)	1.71	3.5	11	0.70	1.70	15.21	1.0	6.26	1.0	2.0	0.0	15.21	1.0	6.26	1.0	2.0	1.0	324.2	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP117	557067.09	670641.63	0.20	B - Very Shallow (0.01-0.5m)	1.33	3.5	11	0.20	1.20	68.41	1.0	11.40	1.0	2.0	0.0	68.41	1.0	11.40	1.0	2.0	1.0	301.8	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP118	557061.22	670622.61	0.20	B - Very Shallow (0.01-0.5m)	2.36	3.5	11	0.20	1.20	38.64	1.0	6.44	1.0	2.0	0.0	38.64	1.0	6.44	1.0	2.0	1.0	282.0	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP119	557060.72	670603.16	0.10	B - Very Shallow (0.01-0.5m)	2.99	3.5	11	0.10	1.10	61.01	1.0	5.55	1.0	2.0	0.0	61.01	1.0	5.55	1.0	2.0	1.0	262.9	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP120	557041.20	670600.61	0.40	B - Very Shallow (0.01-0.5m)	5.57	3.5	11	0.40	1.40	8.24	1.0	2.35	1.0	2.0	0.0	8.24	1.0	2.35	1.0	2.0	1.0	256.9	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP121	557023.73	670593.82	0.50	B - Very Shallow (0.01-0.5m)	1.12	3.5	11	0.50	1.50	32.70	1.0	10.90	1.0	2.0	0.0	32.70	1.0	10.90	1.0	2.0	1.0	248.1	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP122	557005.74	670593.99	0.60	C - Shallow (0.5-2.0m)	1.17	3.5	11	0.60	1.60	25.96	1.0	9.73	1.0	2.0	0.0	25.96	1.0	9.73	1.0	2.0	1.0	246.6	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP123	556985.39	670601.67	0.40	B - Very Shallow (0.01-0.5m)	5.34	3.5	11	0.40	1.40	8.59	1.0	2.45	1.0	2.0	0.0	8.59	1.0	2.45	1.0	2.0	1.0	253.4	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP124	556974.45	670622.45	0.20	B - Very Shallow (0.01-0.5m)	3.11	3.5	11	0.20	1.20	29.41	1.0	4.90	1.0	2.0	0.0	29.41	1.0	4.90	1.0	2.0	1.0	274.3	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP125	556978.20	670644.91	0.10	B - Very Shallow (0.01-0.5m)	1.85	3.5	11	0.10	1.10	98.40	1.0	8.95	1.0	2.0	0.0	98.40	1.0	8.95	1.0	2.0	1.0	296.7	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP126	557109.08	670701.83	0.40	B - Very Shallow (0.01-0.5m)	0.84	3.5	11	0.40	1.40	54.26	1.0	15.50	1.0	2.0	0.0	54.26	1.0	15.50	1.0	2.0	1.0	370.6	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP127	557125.53	670702.89	0.60	C - Shallow (0.5-2.0m)	1.10	3.5	11	0.60	1.60	27.72	1.0	10.40	1.0	2.0	0.0	27.72	1.0	10.40	1.0	2.0	1.0	376.6	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP128	553857.02	668295.03	0.20	B - Very Shallow (0.01-0.5m)	1.51	3.5	11	0.20	1.20	60.22	1.0	10.04	1.0	2.0	0.0	60.22	1.0	10.04	1.0	2.0	1.0	235.4	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP129	553832.14	668275.58	0.30	B - Very Shallow (0.01-0.5m)	1.12	3.5	11	0.30	1.30	54.24	1.0	12.52	1.0	2.0	0.0	54.24	1.0	12.52	1.0	2.0	1.0	211.5	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP130	553798.02	668304.68	0.20	B - Very Shallow (0.01-0.5m)	0.72	3.5	11	0.20	1.20	127.35	1.0	21.22	1.0	2.0	0.0	127.35	1.0	21.22	1.0	2.0	1.0	176.6	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP131	553773.08	668284.85	0.30	B - Very Shallow (0.01-0.5m)	4.75	3.5	11	0.30	1.30	12.85	1.0	2.96	1.0	2.0	0.0	12.85	1.0	2.96	1.0	2.0	1.0	151.9	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP132	553750.46	668265.83	0.40	B - Very Shallow (0.01-0.5m)	2.12	3.5	11	0.40	1.40	21.53	1.0	6.15	1.0	2.0	0.0	21.53	1.0	6.15	1.0	2.0	1.0	132.4	2.0	2.0
06/09/2023	RSK SI	Depth Probe	DP133	553728.73	668249.45	0.40	B - Very Shallow (0.01-0.5m)	1.96	3.5	11	0.40	1.40	23.29	1.0	6.65	1.0	2.0	0.0	23.29	1.0	6.65	1.0	2.0	1.0	116.4	2.0	2.0
06/09/2023	RSK SI	Depth Probe	DP134	553707.65	668236.22	0.20	B - Very Shallow (0.01-0.5m)	2.89	3.5	11	0.20	1.20	31.60	1.0	5.27	1.0	2.0	0.0	31.60	1.0	5.27	1.0	2.0	1.0	95.6	2.0	2.0
06/09/2023	RSK SI	Depth Probe	DP135	553689.88	668220.68	0.30	B - Very Shallow (0.01-0.5m)	1.96	3.5	11	0.30	1.30	31.01	1.0	7.16	1.0	2.0	0.0	31.01	1.0	7.16	1.0	2.0	1.0	81.2	2.0	2.0
06/09/2023	RSK SI	Depth Probe	DP136	553664.63	668215.85	0.40	B - Very Shallow (0.01-0.5m)	1.05	3.5	11	0.40	1.40	43.61	1.0	12.46	1.0	2.0	0.0	43.61	1.0	12.46	1.0	2.0	1.0	59.8	2.0	2.0
06/09/2023	RSK SI	Depth Probe	DP137	554047.74	668123.69	0.10	B - Very Shallow (0.01-0.5m)	1.83	3.5	11	0.10	1.10	99.44	1.0	9.04	1.0	2.0	0.0	99.44	1.0	9.04	1.0	2.0	1.0	352.0	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP138	554051.74	668144.78	0.10	B - Very																				

Appendix 10.1 App B(a) - Peat Database

Oatfield WF, Co. Clare
604569



Date: 16/11/2023
Prepared by: DW
File Ref.: 604569-Geo-R2-App10.1 - App B(a)-(00)-Peat Database

Sample / Test Date	Data Source	Sample / Test Category	Sample / Test Point ID No.	ITM Easting	ITM Northing	Thickness / Depth of peat (m)	Classification of Thickness / Depth of peat	Local Incline (c.5/25m rad.) Degrees	Parameter Values		Scenario A	Scenario B	Scenario A		Scenario B		Scenario A		Scenario B		Scenario A		Scenario B		RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors			
									Undrained Shear Strength (kPa)	Bulk Unit weight of Peat (kN/m ³)			FoS _{RAW} Factor of Safety (FoS) for Peat Stability	FoS _{RAW} COEFFICIENT	FoS _{ADJ} Adjusted Factor of Safety (FoS) for Peat Stability	FoS _{ADJ} COEFFICIENT	RR _{SF} Ranking Risk re Potential for Adverse Consequences on Sensitive Receptors	RR _{SF} COEFFICIENT	Distance to Sensitive Receptor (m)	Distance to Sensitive Receptor Coefficient	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors							
																							FoS	μ			FoS	μ	RR-SF
05/09/2023	RSK SI	Depth Probe	DP190	556340.17	670706.77	0.30	B - Very Shallow (0.01-0.5m)	4.42	3.5	11	0.30	1.30	13.81	1.0	3.19	1.0	2.0	0.0	13.81	1.0	3.19	1.0	2.0	0.0	2.0	1.0	322.1	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP191	556316.64	670715.88	0.20	B - Very Shallow (0.01-0.5m)	5.12	3.5	11	0.20	1.20	17.89	1.0	2.98	1.0	2.0	0.0	17.89	1.0	2.98	1.0	2.0	0.0	2.0	1.0	322.4	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP192	556307.48	670722.83	0.40	B - Very Shallow (0.01-0.5m)	5.83	3.5	11	0.40	1.40	7.88	1.0	2.25	1.0	2.0	0.0	7.88	1.0	2.25	1.0	2.0	0.0	2.0	1.0	326.4	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP193	556288.05	670737.65	0.80	C - Shallow (0.5-2.0m)	3.58	3.5	11	0.80	1.80	6.38	1.0	2.84	1.0	2.0	0.0	6.38	1.0	2.84	1.0	2.0	0.0	2.0	1.0	335.9	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP194	556275.31	670745.72	0.20	B - Very Shallow (0.01-0.5m)	3.58	3.5	11	0.20	1.20	25.53	1.0	4.25	1.0	2.0	0.0	25.53	1.0	4.25	1.0	2.0	0.0	2.0	1.0	341.4	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP195	556259.80	670746.23	0.50	B - Very Shallow (0.01-0.5m)	3.07	3.5	11	0.50	1.50	11.89	1.0	3.96	1.0	2.0	0.0	11.89	1.0	3.96	1.0	2.0	0.0	2.0	1.0	339.6	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP196	556264.82	670754.34	0.00	A - Rock (0.0m)	3.07	3.5	11	0.00	1.00	5947.31	1.0	5.94	1.0	2.0	0.0	5947.31	1.0	5.94	1.0	2.0	0.0	2.0	1.0	348.3	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP197	556245.57	670751.73	0.50	B - Very Shallow (0.01-0.5m)	3.45	3.5	11	0.50	1.50	10.60	1.0	3.53	1.0	2.0	0.0	10.60	1.0	3.53	1.0	2.0	0.0	2.0	1.0	343.6	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP198	556226.92	670766.37	0.20	B - Very Shallow (0.01-0.5m)	2.51	3.5	11	0.20	1.20	36.35	1.0	6.06	1.0	2.0	0.0	36.35	1.0	6.06	1.0	2.0	0.0	2.0	1.0	357.1	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP199	556203.74	670776.75	0.20	B - Very Shallow (0.01-0.5m)	2.91	3.5	11	0.20	1.20	31.38	1.0	5.23	1.0	2.0	0.0	31.38	1.0	5.23	1.0	2.0	0.0	2.0	1.0	367.6	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP200	556178.23	670790.52	0.50	B - Very Shallow (0.01-0.5m)	2.66	3.5	11	0.50	1.50	13.75	1.0	4.58	1.0	2.0	0.0	13.75	1.0	4.58	1.0	2.0	0.0	2.0	1.0	381.4	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP201	556185.01	670794.06	0.30	B - Very Shallow (0.01-0.5m)	3.12	3.5	11	0.30	1.30	19.53	1.0	4.51	1.0	2.0	0.0	19.53	1.0	4.51	1.0	2.0	0.0	2.0	1.0	385.0	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP202	556166.94	670822.41	0.20	B - Very Shallow (0.01-0.5m)	2.39	3.5	11	0.20	1.20	38.25	1.0	6.37	1.0	2.0	0.0	38.25	1.0	6.37	1.0	2.0	0.0	2.0	1.0	413.4	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP203	556159.39	670832.68	0.40	B - Very Shallow (0.01-0.5m)	3.94	3.5	11	0.40	1.40	11.61	1.0	3.32	1.0	2.0	0.0	11.61	1.0	3.32	1.0	2.0	0.0	2.0	1.0	424.0	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP204	556157.33	670841.60	1.20	C - Shallow (0.5-2.0m)	3.94	3.5	11	1.20	2.20	3.87	1.0	2.11	1.0	2.0	0.0	3.87	1.0	2.11	1.0	2.0	0.0	2.0	1.0	433.0	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP205	556142.45	670861.76	1.40	C - Shallow (0.5-2.0m)	3.01	3.5	11	1.40	2.40	4.34	1.0	2.53	1.0	2.0	0.0	4.34	1.0	2.53	1.0	2.0	0.0	2.0	1.0	430.2	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP206	556136.00	670869.79	0.90	C - Shallow (0.5-2.0m)	3.01	3.5	11	0.90	1.90	6.75	1.0	3.20	1.0	2.0	0.0	6.75	1.0	3.20	1.0	2.0	0.0	2.0	1.0	419.9	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP207	556124.84	670879.17	1.70	C - Shallow (0.5-2.0m)	2.41	3.5	11	1.70	2.70	4.45	1.0	2.80	1.0	2.0	0.0	4.45	1.0	2.80	1.0	2.0	0.0	2.0	1.0	405.8	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP208	556118.02	670883.68	2.50	D - Moderately Deep (2.0-3.5m)	2.41	3.5	11	2.50	3.50	3.02	1.0	2.16	1.0	2.0	0.0	3.02	1.0	2.16	1.0	2.0	0.0	2.0	1.0	398.1	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP209	556116.76	670893.15	2.70	D - Moderately Deep (2.0-3.5m)	3.78	3.5	11	2.70	3.70	1.79	1.0	1.31	1.0	2.0	0.0	1.79	1.0	1.31	1.0	2.0	0.0	2.0	1.0	389.7	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP210	556101.44	670889.76	2.60	D - Moderately Deep (2.0-3.5m)	2.49	3.5	11	2.60	3.60	2.82	1.0	2.04	1.0	2.0	0.0	2.82	1.0	2.04	1.0	2.0	0.0	2.0	1.0	383.7	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP211	556085.37	670891.39	1.80	C - Shallow (0.5-2.0m)	1.78	3.5	11	1.80	2.80	5.69	1.0	3.66	1.0	2.0	0.0	5.69	1.0	3.66	1.0	2.0	0.0	2.0	1.0	373.6	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP212	556085.34	670875.63	0.50	B - Very Shallow (0.01-0.5m)	1.57	3.5	11	0.50	1.50	23.26	1.0	7.75	1.0	2.0	0.0	23.26	1.0	7.75	1.0	2.0	0.0	2.0	1.0	387.0	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP213	556077.67	670872.18	0.40	B - Very Shallow (0.01-0.5m)	1.57	3.5	11	0.40	1.40	29.07	1.0	8.31	1.0	2.0	0.0	29.07	1.0	8.31	1.0	2.0	0.0	2.0	1.0	386.1	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP214	556075.48	670878.87	0.40	B - Very Shallow (0.01-0.5m)	1.57	3.5	11	0.40	1.40	29.07	1.0	8.31	1.0	2.0	0.0	29.07	1.0	8.31	1.0	2.0	0.0	2.0	1.0	379.2	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP215	556095.77	670884.62	2.10	D - Moderately Deep (2.0-3.5m)	1.81	3.5	11	2.10	3.10	4.79	1.0	3.25	1.0	2.0	0.0	4.79	1.0	3.25	1.0	2.0	0.0	2.0	1.0	384.9	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP216	556105.85	670880.64	2.90	D - Moderately Deep (2.0-3.5m)	1.81	3.5	11	2.90	3.90	3.47	1.0	2.58	1.0	2.0	0.0	3.47	1.0	2.58	1.0	2.0	0.0	2.0	1.0	393.7	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP217	556119.22	670866.98	3.10	D - Moderately Deep (2.0-3.5m)	2.41	3.5	11	3.10	4.10	2.44	1.0	1.84	1.0	2.0	0.0	2.44	1.0	1.84	1.0	2.0	0.0	2.0	1.0	412.5	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP218	556112.77	670850.16	3.20	D - Moderately Deep (2.0-3.5m)	1.72	3.5	11	3.20	4.20	3.31	1.0	2.52	1.0	2.0	0.0	3.31	1.0	2.52	1.0	2.0	0.0	2.0	1.0	423.1	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP219	556126.98	670854.30	2.10	D - Moderately Deep (2.0-3.5m)	3.68	3.5	11	2.10	3.10	2.37	1.0	1.60	1.0	2.0	0.0	2.37	1.0	1.60	1.0	2.0	0.0	2.0	1.0	427.4	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP220	556132.72	670842.75	1.90	C - Shallow (0.5-2.0m)	3.68	3.5	11	1.90	2.90	2.61	1.0	1.71	1.0	2.0	0.0	2.61	1.0	1.71	1.0	2.0	0.0	2.0	1.0	436.0	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP221	556151.74	670832.93	0.90	C - Shallow (0.5-2.0m)	3.94	3.5	11	0.90	1.90	5.16	1.0	2.44	1.0	2.0	0.0	5.16	1.0	2.44	1.0	2.0	0.0	2.0	1.0	424.6	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP222	556179.81	670803.38	0.30	B - Very Shallow (0.01-0.5m)	2.99	3.5	11	0.30	1.30	25.50	1.0	5.88	1.0	2.0	0.0	25.50	1.0	5.88	1.0	2.0	0.0	2.0	1.0	394.3	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP223	556415.84	670682.01	0.60	C - Shallow (0.5-2.0m)	5.96	3.5	11	0.60	1.60	5.13	1.0	1.92	1.0	2.0	0.0	5.13	1.0	1.92	1.0	2.0	0.0	2.0	1.0	276.0	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP224	556432.89	670677.59	0.30	B - Very Shallow (0.01-0.5m)	5.90	3.5	11	0.30	1.30	10.37	1.0	2.39	1.0	2.0	0.0	10.37	1.0	2.39	1.0	2.0	0.0	2.0	1.0	267.4	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP225	556444.00	670675.08	0.30	B - Very Shallow (0.01-0.5m)	8.22	3.5	11	0.30	1.30	7.49	1.0	1.73	1.0	2.0	0.0	7.49	1.0	1.73	1.0	2.0	0.0	2.0	1.0	262.6	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP226	556461.07	67																								

Appendix 10.1 App B(a) - Peat Database

Oatfield WF, Co. Clare
604569



Date: 16/11/2023
Prepared by: DW
File Ref.: 604569-Geo-R2-App10.1 - App B(a)-(00)-Peat Database

Sample / Test Date	Data Source	Sample / Test Category	Sample / Test Point ID No.	ITM Easting	ITM Northing	Thickness / Depth of peat (m)	Classification of Thickness / Depth of peat	Local Incline (c.5/25m rad.) Degrees	Parameter Values		Scenario A	Scenario B	Scenario A		Scenario B		Scenario A		Scenario B		Significant Feature Ranking Coefficient	Scenario A		Scenario B		RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors
									Undrained Shear Strength (kPa)	Bulk Unit weight of Peat (kN/m ³)			FoS _{RAW} Factor of Safety (FoS) for Peat Stability	FoS _{RAW} Factor of Safety (FoS) for Peat Stability	FoS _{ADJ} Adjusted Factor of Safety (FoS) for Peat Stability	FoS _{ADJ} Adjusted Factor of Safety (FoS) for Peat Stability	RR _{SF} Ranking Risk re Potential for Adverse Consequences on Sensitive Receptors	RR _{SF} Ranking Risk re Potential for Adverse Consequences on Sensitive Receptors	Distance to Sensitive Receptor (m)	Distance to Sensitive Receptor Coefficient		RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors				
05/09/2023	RSK SI	Depth Probe	DP286	556756.64	670556.94	0.10	B - Very Shallow (0.01-0.5m)	4.90	3.5	11	0.10	1.10	37.36	1.0	3.40	1.0	2.0	0.0	37.36	1.0	3.40	1.0	2.0	1.0	185.5	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP287	556782.86	670559.30	0.00	A - Rock (0.0m)	1.10	3.5	11	0.00	1.00	16574.29	1.0	16.56	1.0	2.0	0.0	16574.29	1.0	16.56	1.0	2.0	1.0	197.3	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP288	556799.30	670561.38	0.10	B - Very Shallow (0.01-0.5m)	2.42	3.5	11	0.10	1.10	75.58	1.0	6.87	1.0	2.0	0.0	75.58	1.0	6.87	1.0	2.0	1.0	204.8	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP289	556810.62	670557.94	0.00	A - Rock (0.0m)	1.05	3.5	11	0.00	1.00	17299.00	1.0	17.28	1.0	2.0	0.0	17299.00	1.0	17.28	1.0	2.0	1.0	205.9	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP290	556825.07	670551.50	0.00	A - Rock (0.0m)	1.12	3.5	11	0.00	1.00	16216.06	1.0	16.20	1.0	2.0	0.0	16216.06	1.0	16.20	1.0	2.0	1.0	203.7	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP291	556848.48	670554.08	0.00	A - Rock (0.0m)	1.04	3.5	11	0.00	1.00	17575.63	1.0	17.56	1.0	2.0	0.0	17575.63	1.0	17.56	1.0	2.0	1.0	213.1	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP292	556879.06	670553.62	0.00	A - Rock (0.0m)	1.25	3.5	11	0.00	1.00	14586.32	1.0	14.57	1.0	2.0	0.0	14586.32	1.0	14.57	1.0	2.0	1.0	208.3	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP293	556901.96	670549.71	0.00	A - Rock (0.0m)	1.39	3.5	11	0.00	1.00	13082.48	1.0	13.07	1.0	2.0	0.0	13082.48	1.0	13.07	1.0	2.0	1.0	202.7	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP294	556912.43	670550.91	0.00	A - Rock (0.0m)	0.59	3.5	11	0.00	1.00	31108.39	1.0	31.08	1.0	2.0	0.0	31108.39	1.0	31.08	1.0	2.0	1.0	204.0	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP295	556933.11	670549.25	0.00	A - Rock (0.0m)	0.87	3.5	11	0.00	1.00	21022.44	1.0	21.00	1.0	2.0	0.0	21022.44	1.0	21.00	1.0	2.0	1.0	204.2	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP296	556955.85	670552.38	0.00	A - Rock (0.0m)	1.47	3.5	11	0.00	1.00	12391.79	1.0	12.38	1.0	2.0	0.0	12391.79	1.0	12.38	1.0	2.0	1.0	206.0	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP297	556979.62	670545.68	0.00	A - Rock (0.0m)	1.06	3.5	11	0.00	1.00	17130.37	1.0	17.11	1.0	2.0	0.0	17130.37	1.0	17.11	1.0	2.0	1.0	197.4	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP298	557004.05	670548.80	0.10	B - Very Shallow (0.01-0.5m)	1.09	3.5	11	0.10	1.10	166.58	1.0	15.14	1.0	2.0	0.0	166.58	1.0	15.14	1.0	2.0	1.0	201.5	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP299	557026.94	670555.83	0.00	A - Rock (0.0m)	1.15	3.5	11	0.00	1.00	15828.95	1.0	15.81	1.0	2.0	0.0	15828.95	1.0	15.81	1.0	2.0	1.0	210.6	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP300	557053.76	670575.25	0.00	A - Rock (0.0m)	1.36	3.5	11	0.00	1.00	13381.35	1.0	13.37	1.0	2.0	0.0	13381.35	1.0	13.37	1.0	2.0	1.0	234.1	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP301	557075.32	670585.26	0.00	A - Rock (0.0m)	1.27	3.5	11	0.00	1.00	14329.01	1.0	14.31	1.0	2.0	0.0	14329.01	1.0	14.31	1.0	2.0	1.0	249.2	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP302	557088.07	670589.60	0.00	A - Rock (0.0m)	0.96	3.5	11	0.00	1.00	18970.15	1.0	18.95	1.0	2.0	0.0	18970.15	1.0	18.95	1.0	2.0	1.0	257.3	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP303	557126.60	670599.09	0.00	A - Rock (0.0m)	0.89	3.5	11	0.00	1.00	20483.16	1.0	20.46	1.0	2.0	0.0	20483.16	1.0	20.46	1.0	2.0	1.0	280.8	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP304	557118.04	670609.92	0.40	B - Very Shallow (0.01-0.5m)	2.06	3.5	11	0.40	1.40	22.19	1.0	6.34	1.0	2.0	0.0	22.19	1.0	6.34	1.0	2.0	1.0	287.1	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP305	557119.93	670619.73	0.30	B - Very Shallow (0.01-0.5m)	3.08	3.5	11	0.30	1.30	19.76	1.0	4.56	1.0	2.0	0.0	19.76	1.0	4.56	1.0	2.0	1.0	298.8	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP306	557110.53	670625.56	0.60	C - Shallow (0.5-2.0m)	1.06	3.5	11	0.60	1.60	28.66	1.0	10.75	1.0	2.0	0.0	28.66	1.0	10.75	1.0	2.0	1.0	298.7	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP307	557144.53	670604.31	0.00	A - Rock (0.0m)	1.48	3.5	11	0.00	1.00	12318.10	1.0	12.31	1.0	2.0	0.0	12318.10	1.0	12.31	1.0	2.0	1.0	293.7	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP308	557179.84	670592.50	0.00	A - Rock (0.0m)	1.23	3.5	11	0.00	1.00	14824.47	1.0	14.81	1.0	2.0	0.0	14824.47	1.0	14.81	1.0	2.0	1.0	302.4	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP309	557201.75	670590.45	0.00	A - Rock (0.0m)	1.52	3.5	11	0.00	1.00	11987.90	1.0	11.98	1.0	2.0	0.0	11987.90	1.0	11.98	1.0	2.0	1.0	314.1	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP310	557233.87	670599.63	0.00	A - Rock (0.0m)	0.87	3.5	11	0.00	1.00	20965.07	1.0	20.94	1.0	2.0	0.0	20965.07	1.0	20.94	1.0	2.0	1.0	342.0	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP311	557260.35	670617.94	0.00	A - Rock (0.0m)	0.96	3.5	11	0.00	1.00	19080.36	1.0	19.06	1.0	2.0	0.0	19080.36	1.0	19.06	1.0	2.0	1.0	372.9	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP312	557287.38	670610.47	0.00	A - Rock (0.0m)	0.65	3.5	11	0.00	1.00	28007.33	1.0	27.98	1.0	2.0	0.0	28007.33	1.0	27.98	1.0	2.0	1.0	384.3	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP313	557294.63	670603.73	0.00	A - Rock (0.0m)	1.24	3.5	11	0.00	1.00	14750.27	1.0	14.74	1.0	2.0	0.0	14750.27	1.0	14.74	1.0	2.0	1.0	384.2	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP314	557307.49	670596.57	0.00	A - Rock (0.0m)	1.09	3.5	11	0.00	1.00	16773.31	1.0	16.76	1.0	2.0	0.0	16773.31	1.0	16.76	1.0	2.0	1.0	388.0	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP315	557326.89	670589.90	0.00	A - Rock (0.0m)	0.82	3.5	11	0.00	1.00	22308.09	1.0	22.29	1.0	2.0	0.0	22308.09	1.0	22.29	1.0	2.0	1.0	397.4	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP316	557349.12	670586.93	0.00	A - Rock (0.0m)	2.79	3.5	11	0.00	1.00	6539.69	1.0	6.53	1.0	2.0	0.0	6539.69	1.0	6.53	1.0	2.0	1.0	411.7	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP317	557380.89	670568.10	0.00	A - Rock (0.0m)	3.43	3.5	11	0.00	1.00	5324.32	1.0	5.32	1.0	2.0	0.0	5324.32	1.0	5.32	1.0	2.0	1.0	422.8	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP318	557419.41	670562.94	0.00	A - Rock (0.0m)	2.07	3.5	11	0.00	1.00	8808.37	1.0	8.80	1.0	2.0	0.0	8808.37	1.0	8.80	1.0	2.0	1.0	450.2	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP319	557472.36	670561.18	0.00	A - Rock (0.0m)	2.12	3.5	11	0.00	1.00	8593.34	1.0	8.58	1.0	2.0	0.0	8593.34	1.0	8.58	1.0	2.0	1.0	493.1	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP320	557511.59	670560.28	0.00	A - Rock (0.0m)	2.44	3.5	11	0.00	1.00	7469.19	1.0	7.46	1.0	2.0	0.0	7469.19	1.0	7.46	1.0	2.0	1.0	526.4	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP321	557543.18	670534.04	0.00	A - Rock (0.0m)	4.78	3.5	11	0.00	1.00	3829.84	1.0	3.83	1.0	2.0	0.0	3829.84	1.0	3.83	1.0	2.0	1.0	542.2	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP322	557572.54	670497.25	0.00	A - Rock (0.0m)	2.94	3.5	11	0.00	1.00	6214.96	1.0	6.21	1.0	2.0	0.0	6214.96	1.0	6.21	1.0	2.0	1.0	552.6	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP323	557593.46	670458.87	0.00	A - Rock (0.0m)	2.04	3.5	11	0.00	1.00	8940.50	1.0	8.93	1.0	2.0	0.0	8940.50	1.0	8.93	1.0	2.0	1.0	557.5	1.0	1.0
05/09/2023	RSK SI	Depth Probe	DP324	557623.68	670404.82	0.00	A - Rock (0.0m)	1.72	3.5	11	0.00	1.00	10580.33	1.0	10.57	1.0	2.0	0.0	10580.33	1.0	10.57	1.0	2.0	1.0	570.8	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP325	557236.73	670732.06	0.00	A - Rock (0.0m)	1.24	3.5	11	0.00	1.00	14722.96	1.0	14.71	1.0	2.0	0.0	14722.96	1.0	14.71	1.0	2.0	1.0	450.4	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP326	557042.21	670757.28	0.90	C - Shallow (0.5-2.0m)	1.69	3.5	11	0.90	1.90	11.99	1.0	5.68	1.0	2.0	0.0	11.99	1.0	5.68	1.0	2.0	1.0	412.6	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP327	557042.85	670727.05	1.10	C - Shallow (0.5-2.0m)	0.85	3.5	11	1.10	2.10	19.57	1.0	10.25	1.0	2.0	0.0	19.57	1.0	10.25	1.0	2.0	1.0	382.6	1.0	1.0
06/09/2023	RSK SI	Depth Probe	DP328	557044.03	670695.14	0.40	B - Very Shallow (0.01-0.5m)	1.11	3.5	11	0.40	1.40	41.07	1.0	11.74	1.0	2.0</										

Appendix 10.1 App B(a) - Peat Database

Oatfield WF, Co. Clare
604569



Date: 16/11/2023
Prepared by: DW
File Ref.: 604569-Geo-R2-App10.1 - App B(a)-(00)-Peat Database

Sample / Test Date	Data Source	Sample / Test Category	Sample / Test Point ID No.	ITM Easting	ITM Northing	Thickness / Depth of peat (m)	Classification of Thickness / Depth of peat	Local Incline (c.5/25m rad.) Degrees	Parameter Values		Scenario A	Scenario B	Scenario A		Scenario B		Scenario A	Scenario B	Scenario A	Scenario B	Scenario A	Scenario B	Scenario A	Scenario B				
									Undrained Shear Strength (kPa)	Bulk Unit weight of Peat (kN/m3)			FoS _{RAW} Factor of Safety (FoS) for Peat Stability	FoS _{RAW} COEFFICIENT	FoS _{ADJ} Adjusted Factor of Safety (FoS) for Peat Stability	FoS _{ADJ} COEFFICIENT									RR _{SF} Ranking Risk re Potential for Adverse Consequences on Sensitive Receptors	RR _{SF} COEFFICIENT	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	RR _D COEFFICIENT
03/10/2023	RSK SI	Depth Probe	DP382	552614.26	669192.67	0.10	B - Very Shallow (0.01-0.5m)	2.30	3.5	11	0.10	1.10	79.47	1.0	7.22	1.0	2.0	0.0	79.47	1.0	7.22	1.0	2.0	1.0	551.2	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP383	552619.06	669128.45	0.10	B - Very Shallow (0.01-0.5m)	6.28	3.5	11	0.10	1.10	29.27	1.0	2.66	1.0	2.0	0.0	29.27	1.0	2.66	1.0	2.0	1.0	494.4	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP384	552651.08	669117.94	0.00	A - Rock (0.0m)	7.07	3.5	11	0.00	1.00	2605.01	1.0	2.60	1.0	2.0	0.0	2605.01	1.0	2.60	1.0	2.0	1.0	468.1	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP385	552619.24	669098.11	0.10	B - Very Shallow (0.01-0.5m)	4.12	3.5	11	0.10	1.10	44.41	1.0	4.04	1.0	2.0	0.0	44.41	1.0	4.04	1.0	2.0	1.0	469.4	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP386	552582.20	669084.32	0.30	B - Very Shallow (0.01-0.5m)	3.11	3.5	11	0.30	1.30	19.59	1.0	4.52	1.0	2.0	0.0	19.59	1.0	4.52	1.0	2.0	1.0	461.7	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP387	552574.93	669080.88	0.30	B - Very Shallow (0.01-0.5m)	1.65	3.5	11	0.30	1.30	36.91	1.0	8.52	1.0	2.0	0.0	36.91	1.0	8.52	1.0	2.0	1.0	483.9	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP388	552553.29	669079.35	0.00	A - Rock (0.0m)	2.10	3.5	11	0.00	1.00	8694.30	1.0	8.69	1.0	2.0	0.0	8694.30	1.0	8.69	1.0	2.0	1.0	497.4	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP389	552532.43	669063.34	0.10	B - Very Shallow (0.01-0.5m)	4.31	3.5	11	0.10	1.10	42.45	1.0	3.86	1.0	2.0	0.0	42.45	1.0	3.86	1.0	2.0	1.0	509.9	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP390	552511.59	669047.53	0.10	B - Very Shallow (0.01-0.5m)	3.76	3.5	11	0.10	1.10	48.60	1.0	4.42	1.0	2.0	0.0	48.60	1.0	4.42	1.0	2.0	1.0	505.8	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP391	552542.68	668717.99	0.30	B - Very Shallow (0.01-0.5m)	1.49	3.5	11	0.30	1.30	40.89	1.0	9.44	1.0	2.0	0.0	40.89	1.0	9.44	1.0	2.0	1.0	353.6	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP392	552520.34	668724.34	0.40	B - Very Shallow (0.01-0.5m)	2.48	3.5	11	0.40	1.40	18.40	1.0	5.26	1.0	2.0	0.0	18.40	1.0	5.26	1.0	2.0	1.0	376.0	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP393	552512.47	668710.38	0.20	B - Very Shallow (0.01-0.5m)	1.83	3.5	11	0.20	1.20	49.89	1.0	8.31	1.0	2.0	0.0	49.89	1.0	8.31	1.0	2.0	1.0	384.0	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP394	552496.85	668724.16	0.20	B - Very Shallow (0.01-0.5m)	1.44	3.5	11	0.20	1.20	63.52	1.0	10.59	1.0	2.0	0.0	63.52	1.0	10.59	1.0	2.0	1.0	399.5	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP395	552474.73	668711.40	0.10	B - Very Shallow (0.01-0.5m)	2.37	3.5	11	0.10	1.10	77.01	1.0	7.00	1.0	2.0	0.0	77.01	1.0	7.00	1.0	2.0	1.0	421.7	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP396	552464.34	668732.41	0.80	C - Shallow (0.5-2.0m)	1.92	3.5	11	0.80	1.80	11.88	1.0	5.28	1.0	2.0	0.0	11.88	1.0	5.28	1.0	2.0	1.0	432.2	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP397	552463.83	668755.63	0.60	C - Shallow (0.5-2.0m)	1.85	3.5	11	0.60	1.60	16.41	1.0	6.15	1.0	2.0	0.0	16.41	1.0	6.15	1.0	2.0	1.0	434.0	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP398	552478.20	668752.31	0.20	B - Very Shallow (0.01-0.5m)	1.72	3.5	11	0.20	1.20	53.14	1.0	8.86	1.0	2.0	0.0	53.14	1.0	8.86	1.0	2.0	1.0	419.4	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP399	552476.58	668765.11	0.00	A - Rock (0.0m)	2.45	3.5	11	0.00	1.00	7442.39	1.0	7.43	1.0	2.0	0.0	7442.39	1.0	7.43	1.0	2.0	1.0	422.3	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP400	552509.37	668763.05	0.30	B - Very Shallow (0.01-0.5m)	3.18	3.5	11	0.30	1.30	19.13	1.0	4.41	1.0	2.0	0.0	19.13	1.0	4.41	1.0	2.0	1.0	389.4	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP401	552504.70	668774.68	0.30	B - Very Shallow (0.01-0.5m)	4.39	3.5	11	0.30	1.30	13.91	1.0	3.21	1.0	2.0	0.0	13.91	1.0	3.21	1.0	2.0	1.0	395.5	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP402	552516.95	668777.97	0.30	B - Very Shallow (0.01-0.5m)	10.81	3.5	11	0.30	1.30	5.76	1.0	1.33	1.0	2.0	0.0	5.76	1.0	1.33	1.0	2.0	1.0	383.9	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP403	552526.90	668777.92	0.40	B - Very Shallow (0.01-0.5m)	14.17	3.5	11	0.40	1.40	3.35	1.0	0.96	1.0	2.0	0.0	3.35	1.0	0.96	1.0	2.0	1.0	374.1	1.0	1.0	4.0
03/10/2023	RSK SI	Depth Probe	DP404	552554.89	668806.57	0.40	B - Very Shallow (0.01-0.5m)	4.54	3.5	11	0.40	1.40	10.08	1.0	2.88	1.0	2.0	0.0	10.08	1.0	2.88	1.0	2.0	1.0	352.4	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP405	552578.22	668807.13	0.40	B - Very Shallow (0.01-0.5m)	5.54	3.5	11	0.40	1.40	8.27	1.0	2.36	1.0	2.0	0.0	8.27	1.0	2.36	1.0	2.0	1.0	330.0	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP406	552596.62	668804.84	0.30	B - Very Shallow (0.01-0.5m)	3.17	3.5	11	0.30	1.30	19.19	1.0	4.43	1.0	2.0	0.0	19.19	1.0	4.43	1.0	2.0	1.0	311.7	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP407	552621.67	668802.92	0.20	B - Very Shallow (0.01-0.5m)	5.23	3.5	11	0.20	1.20	17.52	1.0	2.92	1.0	2.0	0.0	17.52	1.0	2.92	1.0	2.0	1.0	287.1	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP408	552645.33	668799.76	0.00	A - Rock (0.0m)	6.36	3.5	11	0.00	1.00	2889.85	1.0	2.89	1.0	2.0	0.0	2889.85	1.0	2.89	1.0	2.0	1.0	263.6	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP409	552677.56	668790.04	0.20	B - Very Shallow (0.01-0.5m)	2.22	3.5	11	0.20	1.20	41.09	1.0	6.85	1.0	2.0	0.0	41.09	1.0	6.85	1.0	2.0	1.0	229.9	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP410	552708.93	668770.05	0.20	B - Very Shallow (0.01-0.5m)	2.47	3.5	11	0.20	1.20	36.88	1.0	6.15	1.0	2.0	0.0	36.88	1.0	6.15	1.0	2.0	1.0	194.1	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP411	552735.69	668767.11	0.10	B - Very Shallow (0.01-0.5m)	0.92	3.5	11	0.10	1.10	197.71	1.0	17.97	1.0	2.0	0.0	197.71	1.0	17.97	1.0	2.0	1.0	167.6	1.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP412	552756.78	668768.05	0.10	B - Very Shallow (0.01-0.5m)	1.34	3.5	11	0.10	1.10	135.97	1.0	12.36	1.0	2.0	0.0	135.97	1.0	12.36	1.0	2.0	1.0	147.8	2.0	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP413	552770.03	668765.38	1.80	C - Shallow (0.5-2.0m)	2.14	3.5	11	1.80	2.80	4.74	1.0	3.05	1.0	2.0	0.0	4.74	1.0	3.05	1.0	2.0	1.0	134.4	2.0	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP414	552778.55	668755.87	0.20	B - Very Shallow (0.01-0.5m)	2.23	3.5	11	0.20	1.20	40.97	1.0	6.83	1.0	2.0	0.0	40.97	1.0	6.83	1.0	2.0	1.0	123.3	2.0	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP415	552761.76	668754.54	1.20	C - Shallow (0.5-2.0m)	1.45	3.5	11	1.20	2.20	10.51	1.0	5.73	1.0	2.0	0.0	10.51	1.0	5.73	1.0	2.0	1.0	139.1	2.0	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP416	552762.90	668754.51	0.00	A - Rock (0.0m)	1.55	3.5	11	0.00	1.00	11751.85	1.0	11.74	1.0	2.0	0.0	11751.85	1.0	11.74	1.0	2.0	1.0	138.0	2.0	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP417	552772.76	668763.46	0.40	B - Very Shallow (0.01-0.5m)	2.40	3.5	11	0.40	1.40	18.98	1.0	5.42	1.0	2.0	0.0	18.98	1.0	5.42	1.0	2.0	1.0	131.2	2.0	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP418	552777.70	668777.51	1.00	C - Shallow (0.5-2.0m)	2.29	3.5	11	1.00	2.00	7.96	1.0	3.98	1.0	2.0	0.0	7.96	1.0	3.98	1.0	2.0	1.0	132.1	2.0	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP419	552783.96	668772.53	0.20	B - Very Shallow (0.01-0.5m)	2.56	3.5	11	0.20	1.20	35.62	1.0	5.94	1.0	2.0	0.0	35.62	1.0	5.94	1.0	2.0	1.0	124.3	2.0	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP420	552783.05	668776.82	1.90	C - Shallow (0.5-2.0m)	1.94	3.5	11	1.90	2.90	4.95	1.0	3.24	1.0	2.0	0.0	4.95	1.0	3.24	1.0	2.0	1.0	127.0	2.0	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP421	552794.83	668760.05	0.50	B - Very Shallow (0.01-0.5m)	2.70	3.5	11	0.50	1.50	13.50	1.0	4.50	1.0	2.0	0.0	13.50	1.0	4.50	1.0	2.0	1.0	109.4	2.0	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP422	552784.85	668752.52	0.90	C - Shallow (0.5-2.0m)	2.34	3.5	11	0.90	1.90	8.67	1.0	4.11	1.0	2.0	0.0	8.67	1.0	4.11	1.0	2.0	1.0	116.3	2.0	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP423	552783.67	668760.43	0.50	B - Very Shallow (0.01-0.5m)	2.80	3.5	11	0.50	1.50	13.06	1.0	4.35	1.0	2.0	0.0	13.06	1.0	4.35	1.0	2.0	1.0	119.			

Appendix 10.1 App B(a) - Peat Database

Oatfield WF, Co. Clare
604569



Date: 16/11/2023
Prepared by: DW
File Ref.: 604569-Geo-R2-App10.1 - App B(a)-(00)-Peat Database

Sample / Test Date	Data Source	Sample / Test Category	Sample / Test Point ID No.	ITM Easting	ITM Northing	Thickness / Depth of peat (m)	Classification of Thickness / Depth of peat	Local Incline (c.5/25m rad.) (Degrees)	Parameter Values		Scenario A	Scenario B	Scenario A		Scenario B		Scenario A		Scenario B		Scenario A		Scenario B		RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	
									Undrained Shear Strength (kPa)	Bulk Unit weight of Peat (kN/m ³)			FoS _{RAW} Factor of Safety (FoS) for Peat Stability	FoS _{RAW} COEFFICIENT	FoS _{ADJ} Adjusted Factor of Safety (FoS) for Peat Stability	FoS _{ADJ} COEFFICIENT	RR _{SF} Ranking Risk re Potential for Adverse Consequences on Sensitive Receptors	RR _{SF} COEFFICIENT	Distance to Sensitive Receptor (m)	Distance to Sensitive Receptor Coefficient	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors					
																							FoS	μ			FoS
03/10/2023	RSK SI	Depth Probe	DP478	554301.52	668910.10	0.20	B - Very Shallow (0.01-0.5m)	1.20	3.5	11	0.20	1.20	76.06	1.0	12.68	1.0	2.0	0.0	76.06	1.0	12.68	1.0	2.0	1.0	248.7	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP479	554313.91	668904.94	0.20	B - Very Shallow (0.01-0.5m)	3.22	3.5	11	0.20	1.20	28.36	1.0	4.73	1.0	2.0	0.0	28.36	1.0	4.73	1.0	2.0	1.0	235.5	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP480	554324.01	668884.96	0.50	B - Very Shallow (0.01-0.5m)	1.72	3.5	11	0.50	1.50	21.15	1.0	7.05	1.0	2.0	0.0	21.15	1.0	7.05	1.0	2.0	1.0	216.5	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP481	554327.13	668868.83	0.30	B - Very Shallow (0.01-0.5m)	2.55	3.5	11	0.30	1.30	23.86	1.0	5.51	1.0	2.0	0.0	23.86	1.0	5.51	1.0	2.0	1.0	206.1	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP482	554342.28	668861.38	0.20	B - Very Shallow (0.01-0.5m)	2.79	3.5	11	0.20	1.20	32.67	1.0	5.44	1.0	2.0	0.0	32.67	1.0	5.44	1.0	2.0	1.0	189.2	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP483	554347.19	668875.79	0.00	A - Rock (0.0m)	0.72	3.5	11	0.00	1.00	25487.24	1.0	25.46	1.0	2.0	0.0	25487.24	1.0	25.46	1.0	2.0	1.0	191.8	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP484	554359.65	668874.88	0.10	B - Very Shallow (0.01-0.5m)	1.25	3.5	11	0.10	1.10	145.83	1.0	13.26	1.0	2.0	0.0	145.83	1.0	13.26	1.0	2.0	1.0	180.8	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP485	554342.08	668742.48	0.10	B - Very Shallow (0.01-0.5m)	1.43	3.5	11	0.10	1.10	127.80	1.0	11.62	1.0	2.0	0.0	127.80	1.0	11.62	1.0	2.0	1.0	153.1	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP486	554380.27	668723.48	0.20	B - Very Shallow (0.01-0.5m)	2.86	3.5	11	0.20	1.20	31.98	1.0	5.33	1.0	2.0	0.0	31.98	1.0	5.33	1.0	2.0	1.0	117.3	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP487	554428.53	668760.22	0.00	A - Rock (0.0m)	3.16	3.5	11	0.00	1.00	5897.49	1.0	5.89	1.0	2.0	0.0	5897.49	1.0	5.89	1.0	2.0	1.0	67.7	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP488	554446.42	668727.94	0.10	B - Very Shallow (0.01-0.5m)	1.86	3.5	11	0.10	1.10	97.86	1.0	8.90	1.0	2.0	0.0	97.86	1.0	8.90	1.0	2.0	1.0	52.4	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP489	554518.41	668700.15	0.00	A - Rock (0.0m)	3.19	3.5	11	0.00	1.00	5725.16	1.0	5.72	1.0	2.0	0.0	5725.16	1.0	5.72	1.0	2.0	1.0	5.8	4.0	4.0
03/10/2023	RSK SI	Depth Probe	DP490	554552.48	668721.93	0.00	A - Rock (0.0m)	5.23	3.5	11	0.00	1.00	3507.35	1.0	3.50	1.0	2.0	0.0	3507.35	1.0	3.50	1.0	2.0	1.0	45.6	4.0	4.0
26/09/2023	RSK SI	Depth Probe	DP491	554590.46	668738.84	0.00	A - Rock (0.0m)	1.78	3.5	11	0.00	1.00	10255.50	1.0	10.25	1.0	2.0	0.0	10255.50	1.0	10.25	1.0	2.0	1.0	86.9	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP492	554676.24	668774.00	0.00	A - Rock (0.0m)	3.20	3.5	11	0.00	1.00	5702.13	1.0	5.70	1.0	2.0	0.0	5702.13	1.0	5.70	1.0	2.0	1.0	136.9	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP493	554767.22	668821.47	0.00	A - Rock (0.0m)	8.04	3.5	11	0.00	1.00	2296.83	1.0	2.29	1.0	2.0	0.0	2296.83	1.0	2.29	1.0	2.0	1.0	200.6	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP494	554933.43	669146.65	0.10	B - Very Shallow (0.01-0.5m)	5.40	3.5	11	0.10	1.10	33.99	1.0	3.09	1.0	2.0	0.0	33.99	1.0	3.09	1.0	2.0	1.0	129.7	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP495	554958.60	669141.61	0.10	B - Very Shallow (0.01-0.5m)	12.86	3.5	11	0.10	1.10	14.66	1.0	1.33	1.0	2.0	0.0	14.66	1.0	1.33	1.0	2.0	1.0	104.1	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP496	554966.77	669138.22	0.10	B - Very Shallow (0.01-0.5m)	5.62	3.5	11	0.10	1.10	32.67	1.0	2.97	1.0	2.0	0.0	32.67	1.0	2.97	1.0	2.0	1.0	95.6	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP497	554958.61	669116.02	0.00	A - Rock (0.0m)	12.21	3.5	11	0.00	1.00	1539.76	1.0	1.54	1.0	2.0	0.0	1539.76	1.0	1.54	1.0	2.0	1.0	101.0	2.0	2.0
01/10/2023	RSK SI	Depth Probe	DP498	554926.66	669120.61	0.00	A - Rock (0.0m)	5.37	3.5	11	0.00	1.00	3417.30	1.0	3.41	1.0	2.0	0.0	3417.30	1.0	3.41	1.0	2.0	1.0	133.0	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP499	554932.68	669131.34	0.00	A - Rock (0.0m)	6.16	3.5	11	0.00	1.00	2983.95	1.0	2.98	1.0	2.0	0.0	2983.95	1.0	2.98	1.0	2.0	1.0	128.0	2.0	2.0
03/10/2023	RSK SI	Depth Probe	DP500	554912.74	669127.99	0.00	A - Rock (0.0m)	2.84	3.5	11	0.00	1.00	6421.77	1.0	6.42	1.0	2.0	0.0	6421.77	1.0	6.42	1.0	2.0	1.0	147.5	2.0	2.0
04/10/2023	RSK SI	Depth Probe	DP501	556271.64	670767.99	0.50	B - Very Shallow (0.01-0.5m)	2.09	3.5	11	0.50	1.50	17.49	1.0	5.83	1.0	2.0	0.0	17.49	1.0	5.83	1.0	2.0	1.0	362.8	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP502	556258.46	670791.94	0.20	B - Very Shallow (0.01-0.5m)	2.24	3.5	11	0.20	1.20	40.82	1.0	6.80	1.0	2.0	0.0	40.82	1.0	6.80	1.0	2.0	1.0	384.8	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP503	556231.05	670818.89	0.70	C - Shallow (0.5-2.0m)	2.63	3.5	11	0.70	1.70	9.91	1.0	4.08	1.0	2.0	0.0	9.91	1.0	4.08	1.0	2.0	1.0	409.7	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP504	556207.99	670854.39	0.90	C - Shallow (0.5-2.0m)	1.36	3.5	11	0.90	1.90	14.93	1.0	7.07	1.0	2.0	0.0	14.93	1.0	7.07	1.0	2.0	1.0	445.1	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP505	556165.80	670883.72	1.20	C - Shallow (0.5-2.0m)	2.53	3.5	11	1.20	2.20	6.00	1.0	3.27	1.0	2.0	0.0	6.00	1.0	3.27	1.0	2.0	1.0	427.6	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP506	556144.88	670888.33	0.50	B - Very Shallow (0.01-0.5m)	3.20	3.5	11	0.50	1.50	11.40	1.0	3.80	1.0	2.0	0.0	11.40	1.0	3.80	1.0	2.0	1.0	410.7	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP507	556138.16	670896.89	0.30	B - Very Shallow (0.01-0.5m)	3.45	3.5	11	0.30	1.30	17.65	1.0	4.07	1.0	2.0	0.0	17.65	1.0	4.07	1.0	2.0	1.0	399.8	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP508	556133.00	670894.47	0.00	A - Rock (0.0m)	3.45	3.5	11	0.00	1.00	5294.29	1.0	5.29	1.0	2.0	0.0	5294.29	1.0	5.29	1.0	2.0	1.0	398.5	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP509	556136.16	670903.34	1.70	C - Shallow (0.5-2.0m)	3.45	3.5	11	1.70	2.70	3.11	1.0	1.96	1.0	2.0	0.0	3.11	1.0	1.96	1.0	2.0	1.0	395.5	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP510	556137.81	670908.56	0.80	C - Shallow (0.5-2.0m)	3.45	3.5	11	0.80	1.80	6.62	1.0	2.94	1.0	2.0	0.0	6.62	1.0	2.94	1.0	2.0	1.0	390.4	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP511	556133.81	670905.91	1.90	C - Shallow (0.5-2.0m)	3.45	3.5	11	1.90	2.90	2.79	1.0	1.83	1.0	2.0	0.0	2.79	1.0	1.83	1.0	2.0	1.0	390.0	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP512	556132.87	670912.37	2.10	D - Moderately Deep (2.0-3.5m)	3.45	3.5	11	2.10	3.10	2.52	1.0	1.71	1.0	2.0	0.0	2.52	1.0	1.71	1.0	2.0	1.0	384.5	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP513	556125.29	670906.98	3.20	D - Moderately Deep (2.0-3.5m)	3.78	3.5	11	3.20	4.20	1.51	1.0	1.15	1.0	2.0	0.0	1.51	1.0	1.15	1.0	2.0	1.0	383.9	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP514	556125.43	670893.11	3.10	D - Moderately Deep (2.0-3.5m)	3.78	3.5	11	3.10	4.10	1.56	1.0	1.18	1.0	2.0	0.0	1.56	1.0	1.18	1.0	2.0	1.0	394.9	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP515	556119.90	670898.38	3.10	D - Moderately Deep (2.0-3.5m)	3.78	3.5	11	3.10	4.10	1.56	1.0	1.18	1.0	2.0	0.0	1.56	1.0	1.18	1.0	2.0	1.0	379.2	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP516	556109.58	670900.97	3.30	D - Moderately Deep (2.0-3.5m)</																				

Appendix 10.1 App B(a) - Peat Database

Oatfield WF, Co. Clare
604569



Date: 16/11/2023
Prepared by: DW
File Ref.: 604569-Geo-R2-App10.1 - App B(a)-(00)-Peat Database

Sample / Test Date	Data Source	Sample / Test Category	Sample / Test Point ID No.	ITM Easting	ITM Northing	Thickness / Depth of peat (m)	Classification of Thickness / Depth of peat	Local Incline (c.5/25m rad.) (Degrees)	Parameter Values		Scenario A	Scenario B	Scenario A		Scenario B		Scenario A	Scenario B	Scenario A	Scenario B	Scenario A	Scenario B				
									Undrained Shear Strength (Conservative Value) (kPa)	Bulk Unit weight of Peat (Conservative Value) (kN/m3)			FoS _{RAW} Factor of Safety (FoS) for Peat Stability	FoS _{RAW} COEFFICIENT	FoS _{ADJ} Adjusted Factor of Safety (FoS) for Peat Stability	FoS _{ADJ} COEFFICIENT							RR _{SF} Ranking Risk re Potential for Adverse Consequences on Sensitive Receptors	RR _{SF} COEFFICIENT	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	RR _D COEFFICIENT
04/10/2023	RSK SI	Depth Probe	DP574	553601.83	668185.09	0.00	A - Rock (0.0m)	6.12	3.5	11	0.00	1.00	3002.10	1.0	3.00	1.0	3002.10	1.0	3.00	1.0	2.0	1.0	9.2	4.0	4.0	4.0
03/10/2023	RSK SI	Depth Probe	DP575	552736.93	669126.58	0.50	B - Very Shallow (0.01-0.5m)	6.74	3.5	11	0.50	1.50	5.46	1.0	5.46	1.0	5.46	1.0	5.46	1.0	2.0	1.0	437.5	1.0	437.5	1.0
03/10/2023	RSK SI	Depth Probe	DP576	552716.05	669131.04	0.40	B - Very Shallow (0.01-0.5m)	5.53	3.5	11	0.40	1.40	8.30	1.0	2.37	1.0	8.30	1.0	2.37	1.0	2.0	1.0	449.6	1.0	449.6	1.0
03/10/2023	RSK SI	Depth Probe	DP577	552698.77	669135.48	0.50	B - Very Shallow (0.01-0.5m)	12.07	3.5	11	0.50	1.50	3.11	1.0	1.04	2.0	3.11	1.0	1.04	2.0	2.0	1.0	460.8	1.0	460.8	1.0
03/10/2023	RSK SI	Depth Probe	DP578	552665.58	669134.32	0.30	B - Very Shallow (0.01-0.5m)	13.43	3.5	11	0.30	1.30	4.70	1.0	1.08	2.0	4.70	1.0	1.08	2.0	2.0	1.0	475.0	1.0	475.0	1.0
03/10/2023	RSK SI	Depth Probe	DP579	552646.25	669124.12	0.60	C - Shallow (0.5-2.0m)	11.00	3.5	11	0.60	1.60	2.83	1.0	1.06	2.0	2.83	1.0	1.06	2.0	2.0	1.0	479.9	1.0	479.9	1.0
03/10/2023	RSK SI	Depth Probe	DP580	552626.95	669128.95	0.40	B - Very Shallow (0.01-0.5m)	8.61	3.5	11	0.40	1.40	5.37	1.0	1.54	1.0	5.37	1.0	1.54	1.0	2.0	1.0	490.4	1.0	490.4	1.0
03/10/2023	RSK SI	Depth Probe	DP581	552619.80	669122.15	0.30	B - Very Shallow (0.01-0.5m)	7.53	3.5	11	0.30	1.30	8.16	1.0	1.88	1.0	8.16	1.0	1.88	1.0	2.0	1.0	488.7	1.0	488.7	1.0
03/10/2023	RSK SI	Depth Probe	DP582	552608.41	669142.66	0.80	C - Shallow (0.5-2.0m)	3.02	3.5	11	0.80	1.80	7.55	1.0	3.36	1.0	7.55	1.0	3.36	1.0	2.0	1.0	512.1	1.0	512.1	1.0
03/10/2023	RSK SI	Depth Probe	DP583	552618.66	669154.80	0.70	C - Shallow (0.5-2.0m)	4.69	3.5	11	0.70	1.70	5.58	1.0	2.30	1.0	5.58	1.0	2.30	1.0	2.0	1.0	516.6	1.0	516.6	1.0
03/10/2023	RSK SI	Depth Probe	DP584	552632.00	669158.75	0.80	C - Shallow (0.5-2.0m)	6.78	3.5	11	0.80	1.80	3.39	1.0	1.51	1.0	3.39	1.0	1.51	1.0	2.0	1.0	512.9	1.0	512.9	1.0
03/10/2023	RSK SI	Depth Probe	DP585	552623.66	669172.37	0.30	B - Very Shallow (0.01-0.5m)	2.97	3.5	11	0.30	1.30	20.51	1.0	4.73	1.0	20.51	1.0	4.73	1.0	2.0	1.0	528.9	1.0	528.9	1.0
03/10/2023	RSK SI	Depth Probe	DP586	552634.36	669150.20	0.50	B - Very Shallow (0.01-0.5m)	9.05	3.5	11	0.50	1.50	4.10	1.0	1.37	1.0	4.10	1.0	1.37	1.0	2.0	1.0	504.4	1.0	504.4	1.0
03/10/2023	RSK SI	Depth Probe	DP587	552644.29	669141.94	0.40	B - Very Shallow (0.01-0.5m)	8.79	3.5	11	0.40	1.40	5.27	1.0	1.51	1.0	5.27	1.0	1.51	1.0	2.0	1.0	492.2	1.0	492.2	1.0
03/10/2023	RSK SI	Depth Probe	DP588	552637.81	669112.33	0.60	C - Shallow (0.5-2.0m)	5.77	3.5	11	0.60	1.60	5.30	1.0	1.99	1.0	5.30	1.0	1.99	1.0	2.0	1.0	470.5	1.0	470.5	1.0
03/10/2023	RSK SI	Depth Probe	DP589	552641.17	669098.76	0.20	B - Very Shallow (0.01-0.5m)	3.68	3.5	11	0.20	1.20	24.87	1.0	4.15	1.0	24.87	1.0	4.15	1.0	2.0	1.0	457.4	1.0	457.4	1.0
03/10/2023	RSK SI	Depth Probe	DP590	552631.96	669077.53	0.30	B - Very Shallow (0.01-0.5m)	2.13	3.5	11	0.30	1.30	28.57	1.0	6.59	1.0	28.57	1.0	6.59	1.0	2.0	1.0	445.3	1.0	445.3	1.0
03/10/2023	RSK SI	Depth Probe	DP591	552612.76	669069.74	0.30	B - Very Shallow (0.01-0.5m)	1.10	3.5	11	0.30	1.30	55.50	1.0	12.81	1.0	55.50	1.0	12.81	1.0	2.0	1.0	450.9	1.0	450.9	1.0
03/10/2023	RSK SI	Depth Probe	DP592	552601.77	669061.32	0.10	B - Very Shallow (0.01-0.5m)	0.98	3.5	11	0.10	1.10	185.59	1.0	16.87	1.0	185.59	1.0	16.87	1.0	2.0	1.0	451.5	1.0	451.5	1.0
03/10/2023	RSK SI	Depth Probe	DP593	552585.53	669045.53	0.30	B - Very Shallow (0.01-0.5m)	4.25	3.5	11	0.30	1.30	14.35	1.0	3.31	1.0	14.35	1.0	3.31	1.0	2.0	1.0	450.7	1.0	450.7	1.0
03/10/2023	RSK SI	Depth Probe	DP594	552548.64	669021.96	0.00	A - Rock (0.0m)	3.35	3.5	11	0.00	1.00	5456.90	1.0	5.45	1.0	5456.90	1.0	5.45	1.0	2.0	1.0	461.0	1.0	461.0	1.0
03/10/2023	RSK SI	Depth Probe	DP595	552507.64	668832.46	0.90	C - Shallow (0.5-2.0m)	2.50	3.5	11	0.90	1.90	8.11	1.0	3.84	1.0	8.11	1.0	3.84	1.0	2.0	1.0	404.9	1.0	404.9	1.0
03/10/2023	RSK SI	Depth Probe	DP596	552512.05	668811.83	0.50	B - Very Shallow (0.01-0.5m)	4.88	3.5	11	0.50	1.50	7.51	1.0	2.50	1.0	7.51	1.0	2.50	1.0	2.0	1.0	395.3	1.0	395.3	1.0
03/10/2023	RSK SI	Depth Probe	DP597	552509.24	668800.92	0.00	A - Rock (0.0m)	2.39	3.5	11	0.00	1.00	7648.05	1.0	7.64	1.0	7648.05	1.0	7.64	1.0	2.0	1.0	395.6	1.0	395.6	1.0
03/10/2023	RSK SI	Depth Probe	DP598	552544.34	668766.08	0.00	A - Rock (0.0m)	5.70	3.5	11	0.00	1.00	3220.47	1.0	3.22	1.0	3220.47	1.0	3.22	1.0	2.0	1.0	355.1	1.0	355.1	1.0
03/10/2023	RSK SI	Depth Probe	DP599	552537.97	668759.65	0.40	B - Very Shallow (0.01-0.5m)	4.06	3.5	11	0.40	1.40	11.26	1.0	3.22	1.0	11.26	1.0	3.22	1.0	2.0	1.0	360.6	1.0	360.6	1.0
03/10/2023	RSK SI	Depth Probe	DP600	552525.44	668754.40	0.30	B - Very Shallow (0.01-0.5m)	3.84	3.5	11	0.30	1.30	15.88	1.0	3.66	1.0	15.88	1.0	3.66	1.0	2.0	1.0	372.6	1.0	372.6	1.0
03/10/2023	RSK SI	Depth Probe	DP601	552521.21	668747.95	0.30	B - Very Shallow (0.01-0.5m)	1.98	3.5	11	0.30	1.30	30.72	1.0	7.09	1.0	30.72	1.0	7.09	1.0	2.0	1.0	376.2	1.0	376.2	1.0
03/10/2023	RSK SI	Depth Probe	DP602	552505.60	668762.01	0.40	B - Very Shallow (0.01-0.5m)	2.15	3.5	11	0.40	1.40	21.20	1.0	6.06	1.0	21.20	1.0	6.06	1.0	2.0	1.0	393.1	1.0	393.1	1.0
03/10/2023	RSK SI	Depth Probe	DP603	552502.27	668766.68	0.20	B - Very Shallow (0.01-0.5m)	2.74	3.5	11	0.20	1.20	33.29	1.0	5.55	1.0	33.29	1.0	5.55	1.0	2.0	1.0	396.9	1.0	396.9	1.0
03/10/2023	RSK SI	Depth Probe	DP604	552489.69	668767.73	0.00	A - Rock (0.0m)	2.72	3.5	11	0.00	1.00	6722.51	1.0	6.72	1.0	6722.51	1.0	6.72	1.0	2.0	1.0	409.5	1.0	409.5	1.0
03/10/2023	RSK SI	Depth Probe	DP605	552481.94	668758.35	0.80	C - Shallow (0.5-2.0m)	3.13	3.5	11	0.80	1.80	7.30	1.0	3.25	1.0	7.30	1.0	3.25	1.0	2.0	1.0	412.1	1.0	412.1	1.0
03/10/2023	RSK SI	Depth Probe	DP606	552483.00	668751.66	0.30	B - Very Shallow (0.01-0.5m)	1.77	3.5	11	0.30	1.30	34.43	1.0	7.94	1.0	34.43	1.0	7.94	1.0	2.0	1.0	414.6	1.0	414.6	1.0
03/10/2023	RSK SI	Depth Probe	DP607	552481.57	668743.52	0.50	B - Very Shallow (0.01-0.5m)	1.24	3.5	11	0.50	1.50	29.47	1.0	9.82	1.0	29.47	1.0	9.82	1.0	2.0	1.0	415.5	1.0	415.5	1.0
03/10/2023	RSK SI	Depth Probe	DP608	552474.49	668755.45	0.70	C - Shallow (0.5-2.0m)	2.52	3.5	11	0.70	1.70	10.34	1.0	4.26	1.0	10.34	1.0	4.26	1.0	2.0	1.0	423.4	1.0	423.4	1.0
03/10/2023	RSK SI	Depth Probe	DP609	552466.47	668752.01	1.10	C - Shallow (0.5-2.0m)	1.90	3.5	11	1.10	2.10	8.74	1.0	4.58	1.0	8.74	1.0	4.58	1.0	2.0	1.0	431.1	1.0	431.1	1.0
03/10/2023	RSK SI	Depth Probe	DP610	552464.53	668749.43	0.80	C - Shallow (0.5-2.0m)	1.90	3.5	11	0.80	1.80	12.02	1.0	5.34	1.0	12.02	1.0	5.34	1.0	2.0	1.0	432.9	1.0	432.9	1.0
03/10/2023	RSK SI	Depth Probe	DP611	552464.34	668740.53	0.90	C - Shallow (0.5-2.0m)	1.71	3.5	11	0.90	1.90	11.84	1.0	5.61	1.0	11.84	1.0	5.61	1.0	2.0	1.0	432.5	1.0	432.5	1.0
03/10/2023	RSK SI	Depth Probe	DP612	552463.06	668736.84	0.30	B - Very Shallow (0.01-0.5m)	1.95	3.5	11	0.30	1.30	31.15	1.0	7.19	1.0	31.15	1.0	7.19	1.0	2.0	1.0	433.6	1.0	433.6	1.0
03/10/2023	RSK SI	Depth Probe	DP613	552457.25	668729.29	0.90	C - Shallow (0.5-2.0m)	1.86	3.5	11	0.90	1.90	10.87	1.0	5.15	1.0	10.87	1.0	5.15	1.0	2.0	1.0	439.2	1.0	439.2	1.0
03/10/2023	RSK SI	Depth Probe	DP614	552455.55	668751.19	1.00	C - Shallow (0.5-2.0m)	1.61	3.5	11	1.00	2.00	11.32	1.0	5.66	1.0	11.32	1.0	5.66	1.0	2.0	1.0	441.9	1.0	441.9	1.0
03/10/2023	RSK SI	Depth Probe	DP615	552447.62	668756.83	0.20	B - Very Shallow (0.01-0.5m)	1.89	3.5	11	0.20	1.20	48.27	1.0	8.05	1.0	48.27	1.0	8.05	1.0	2.0	1.0	450.3	1.0	450.3	1.0
03/10/2023	RSK SI	Depth Probe	DP616	552467.01	668772.40	0.20	B - Very Shallow (0.01-0.5m)	2.12	3.5	11	0.20	1.20	43.11	1.0	7.18	1.0	43.11	1.0	7.18	1.0	2.0	1.0	432.6	1.0	432.6	1.0
03/10/2023	RSK SI	Depth Probe	DP617	552492.31	668783.28	0.00	A - Rock (0.0m)	1.34	3.5	11	0.00	1.00	13562.70	1.0	13.55	1.0	13562.70	1.0	13.55	1.0	2.0	1.0	409.1	1.0	409.1	1.0
03/10/2023	RSK SI	Depth Probe	DP618	552497.25	668804.93	0.20	B - Very																			

Appendix 10.1 App B(a) - Peat Database

Oatfield WF, Co. Clare
604569



Date: 16/11/2023
Prepared by: DW
File Ref.: 604569-Geo-R2-App10.1 - App B(a)-(00)-Peat Database

Sample / Test Date	Data Source	Sample / Test Category	Sample / Test Point ID No.	ITM Easting	ITM Northing	Thickness / Depth of peat (m)	Classification of Thickness / Depth of peat	Local Incline (c.5/25m rad.)	Parameter Values		Scenario A	Scenario B	Scenario A		Scenario B		Scenario A		Scenario B		Scenario A		Scenario B		RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	
									Undrained Shear Strength (kPa)	Bulk Unit weight of Peat (kN/m ³)			FoS _{RAW} Factor of Safety (FoS) for Peat Stability	FoS _{RAW} COEFFICIENT	FoS _{ADJ} Adjusted Factor of Safety (FoS) for Peat Stability	FoS _{ADJ} COEFFICIENT	Significant Feature Ranking Coefficient	RR _{SF} Ranking Risk re Potential for Adverse Consequences on Sensitive Receptors	RR _{SF} COEFFICIENT	Distance to Sensitive Receptor (m)	Distance to Sensitive Receptor Coefficient	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors				
																								FoS			μ
03/10/2023	RSK SI	Depth Probe	DP670	553806.62	668908.39	0.20	B - Very Shallow (0.01-0.5m)	0.88	3.5	11	0.20	1.20	104.15	1.0	17.36	1.0	2.0	0.0	104.15	1.0	17.36	1.0	2.0	1.0	444.2	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP671	553839.45	668895.10	0.40	B - Very Shallow (0.01-0.5m)	0.88	3.5	11	0.40	1.40	51.73	1.0	14.78	1.0	2.0	0.0	51.73	1.0	14.78	1.0	2.0	1.0	448.5	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP672	553862.61	668894.32	0.60	C - Shallow (0.5-2.0m)	1.20	3.5	11	0.60	1.60	25.34	1.0	9.50	1.0	2.0	0.0	25.34	1.0	9.50	1.0	2.0	1.0	460.4	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP673	553876.70	668885.29	0.40	B - Very Shallow (0.01-0.5m)	0.91	3.5	11	0.40	1.40	50.06	1.0	14.30	1.0	2.0	0.0	50.06	1.0	14.30	1.0	2.0	1.0	461.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP674	553901.04	668877.82	0.30	B - Very Shallow (0.01-0.5m)	1.19	3.5	11	0.30	1.30	51.05	1.0	11.78	1.0	2.0	0.0	51.05	1.0	11.78	1.0	2.0	1.0	469.9	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP675	553920.64	668869.48	0.20	B - Very Shallow (0.01-0.5m)	1.27	3.5	11	0.20	1.20	71.58	1.0	11.93	1.0	2.0	0.0	71.58	1.0	11.93	1.0	2.0	1.0	476.1	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP676	553944.37	668857.20	0.20	B - Very Shallow (0.01-0.5m)	1.24	3.5	11	0.20	1.20	73.56	1.0	12.26	1.0	2.0	0.0	73.56	1.0	12.26	1.0	2.0	1.0	483.3	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP677	553967.13	668849.38	0.50	B - Very Shallow (0.01-0.5m)	1.61	3.5	11	0.50	1.50	22.68	1.0	7.56	1.0	2.0	0.0	22.68	1.0	7.56	1.0	2.0	1.0	494.1	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP678	553996.77	668831.85	0.10	B - Very Shallow (0.01-0.5m)	1.37	3.5	11	0.10	1.10	132.71	1.0	12.06	1.0	2.0	0.0	132.71	1.0	12.06	1.0	2.0	1.0	504.9	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP679	554029.17	668832.47	0.20	B - Very Shallow (0.01-0.5m)	1.31	3.5	11	0.20	1.20	69.38	1.0	11.56	1.0	2.0	0.0	69.38	1.0	11.56	1.0	2.0	1.0	473.6	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP680	554057.30	668833.32	0.40	B - Very Shallow (0.01-0.5m)	3.07	3.5	11	0.40	1.40	14.86	1.0	4.25	1.0	2.0	0.0	14.86	1.0	4.25	1.0	2.0	1.0	446.1	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP681	554085.46	668838.24	0.00	A - Rock (0.0m)	2.13	3.5	11	0.00	1.00	8547.32	1.0	8.54	1.0	2.0	0.0	8547.32	1.0	8.54	1.0	2.0	1.0	419.5	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP682	554108.30	668838.58	0.50	B - Very Shallow (0.01-0.5m)	1.09	3.5	11	0.50	1.50	33.36	1.0	11.12	1.0	2.0	0.0	33.36	1.0	11.12	1.0	2.0	1.0	397.4	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP683	554130.29	668844.13	0.10	B - Very Shallow (0.01-0.5m)	2.56	3.5	11	0.10	1.10	71.17	1.0	6.47	1.0	2.0	0.0	71.17	1.0	6.47	1.0	2.0	1.0	377.4	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP684	554131.74	668854.50	0.30	B - Very Shallow (0.01-0.5m)	4.12	3.5	11	0.30	1.30	14.79	1.0	3.41	1.0	2.0	0.0	14.79	1.0	3.41	1.0	2.0	1.0	378.8	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP685	554142.96	668875.90	0.70	C - Shallow (0.5-2.0m)	1.14	3.5	11	0.70	1.70	22.77	1.0	9.37	1.0	2.0	0.0	22.77	1.0	9.37	1.0	2.0	1.0	374.8	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP686	554139.66	668883.35	0.60	C - Shallow (0.5-2.0m)	1.12	3.5	11	0.60	1.60	27.02	1.0	10.13	1.0	2.0	0.0	27.02	1.0	10.13	1.0	2.0	1.0	380.5	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP687	554154.24	668902.87	0.10	B - Very Shallow (0.01-0.5m)	1.94	3.5	11	0.10	1.10	93.86	1.0	8.53	1.0	2.0	0.0	93.86	1.0	8.53	1.0	2.0	1.0	374.5	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP688	554165.81	668913.33	0.00	A - Rock (0.0m)	2.12	3.5	11	0.00	1.00	8603.29	1.0	8.59	1.0	2.0	0.0	8603.29	1.0	8.59	1.0	2.0	1.0	368.6	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP689	554186.08	668928.16	0.10	B - Very Shallow (0.01-0.5m)	1.49	3.5	11	0.10	1.10	122.04	1.0	11.09	1.0	2.0	0.0	122.04	1.0	11.09	1.0	2.0	1.0	357.9	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP690	554187.58	668944.10	0.10	B - Very Shallow (0.01-0.5m)	0.89	3.5	11	0.10	1.10	204.91	1.0	18.63	1.0	2.0	0.0	204.91	1.0	18.63	1.0	2.0	1.0	364.6	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP691	554185.98	668976.57	0.10	B - Very Shallow (0.01-0.5m)	0.88	3.5	11	0.10	1.10	208.00	1.0	18.91	1.0	2.0	0.0	208.00	1.0	18.91	1.0	2.0	1.0	382.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP692	554214.74	669009.31	0.10	B - Very Shallow (0.01-0.5m)	2.12	3.5	11	0.10	1.10	86.19	1.0	7.84	1.0	2.0	0.0	86.19	1.0	7.84	1.0	2.0	1.0	377.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP693	554234.01	669013.20	0.10	B - Very Shallow (0.01-0.5m)	1.68	3.5	11	0.10	1.10	108.70	1.0	9.88	1.0	2.0	0.0	108.70	1.0	9.88	1.0	2.0	1.0	361.0	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP694	554252.35	669013.40	0.10	B - Very Shallow (0.01-0.5m)	2.55	3.5	11	0.10	1.10	71.55	1.0	6.50	1.0	2.0	0.0	71.55	1.0	6.50	1.0	2.0	1.0	333.4	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP695	554259.26	668994.98	0.10	B - Very Shallow (0.01-0.5m)	0.92	3.5	11	0.10	1.10	199.01	1.0	18.09	1.0	2.0	0.0	199.01	1.0	18.09	1.0	2.0	1.0	343.4	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP696	554270.60	668992.46	0.80	C - Shallow (0.5-2.0m)	1.42	3.5	11	0.80	1.80	16.11	1.0	7.16	1.0	2.0	0.0	16.11	1.0	7.16	1.0	2.0	1.0	323.2	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP697	554277.14	668994.25	1.20	C - Shallow (0.5-2.0m)	1.68	3.5	11	1.20	2.20	9.04	1.0	4.93	1.0	2.0	0.0	9.04	1.0	4.93	1.0	2.0	1.0	319.6	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP698	554286.99	668989.89	0.90	C - Shallow (0.5-2.0m)	3.93	3.5	11	0.90	1.90	5.17	1.0	2.45	1.0	2.0	0.0	5.17	1.0	2.45	1.0	2.0	1.0	308.8	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP699	554297.51	668971.44	0.70	C - Shallow (0.5-2.0m)	4.93	3.5	11	0.70	1.70	5.31	1.0	2.19	1.0	2.0	0.0	5.31	1.0	2.19	1.0	2.0	1.0	289.2	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP700	554298.19	668948.25	0.80	C - Shallow (0.5-2.0m)	1.65	3.5	11	0.80	1.80	13.83	1.0	6.15	1.0	2.0	0.0	13.83	1.0	6.15	1.0	2.0	1.0	273.6	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP701	554273.29	668932.53	0.30	B - Very Shallow (0.01-0.5m)	0.83	3.5	11	0.30	1.30	73.02	1.0	16.85	1.0	2.0	0.0	73.02	1.0	16.85	1.0	2.0	1.0	284.6	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP702	554282.25	668927.44	0.60	C - Shallow (0.5-2.0m)	3.34	3.5	11	0.60	1.60	9.13	1.0	3.42	1.0	2.0	0.0	9.13	1.0	3.42	1.0	2.0	1.0	274.3	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP703	554289.73	668921.62	0.90	C - Shallow (0.5-2.0m)	3.57	3.5	11	0.90	1.90	5.69	1.0	2.69	1.0	2.0	0.0	5.69	1.0	2.69	1.0	2.0	1.0	264.9	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP704	554289.88	668912.44	0.30	B - Very Shallow (0.01-0.5m)	1.07	3.5	11	0.30	1.30	56.61	1.0	13.06	1.0	2.0	0.0	56.61	1.0	13.06	1.0	2.0	1.0	251.4	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP705	554294.35	668899.14	0.30	B - Very Shallow (0.01-0.5m)	1.16	3.5	11	0.30	1.30	52.34	1.0	12.08	1.0	2.0	0.0	52.34	1.0	12.08	1.0	2.0	1.0	249.3	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP706	554305.69	668896.81	0.90	C - Shallow (0.5-2.0m)	1.81	3.5	11	0.90	1.90	11.23	1.0	5.32	1.0	2.0	0.0	11.23	1.0	5.32	1.0	2.0	1.0	238.3	1.0	1.0
03/10/2023	RSK SI	Depth Probe	DP707	554282.01	668734.76	0.00	A - Rock (0.0m)	0.83	3.5	11	0.00	1.00	21891.18	1.0	21.87	1.0	2.0	0.0	21891.18	1.0	21.87	1.0	2.0	1.0	213.5	1.0	1.0
03/10/20																											

Appendix 10.1 App B(a) - Peat Database

Oatfield WF, Co. Clare
604569



Date: 16/11/2023
Prepared by: DW
File Ref.: 604569-Geo-R2-App10.1 - App B(a)-(00)-Peat Database

Sample / Test Date	Data Source	Sample / Test Category	Sample / Test Point ID No.	ITM Easting	ITM Northing	Thickness / Depth of peat	Classification of Thickness / Depth of peat	Local Incline (c.5/25m rad.)	Parameter Values		Scenario A	Scenario B	Scenario A		Scenario B		Scenario A		Scenario B		Significant Feature Ranking Coefficient	Scenario A		Scenario B		RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	RR _D Risk Ranking Accounting for Distance to Sensitive Receptors	
									Undrained Shear Strength (Conservative Value)	Bulk Unit weight of Peat (Conservative Value)			FoS _{RAW} Factor of Safety (FoS) for Peat Stability	FoS _{RAW} Coefficient	FoS _{ADJ} Adjusted Factor of Safety (FoS) for Peat Stability	FoS _{ADJ} Coefficient	FoS _{ADJ} #	FoS _{ADJ} Value	RR _{SF} Ranking Risk re Potential for Adverse Consequences on Sensitive Receptors	RR _{SF} Coefficient		Distance to Sensitive Receptor	Distance to Sensitive Receptor Coefficient	RR _D Coefficient	RR _D Value			
																												kPa
04/10/2023	RSK SI	Depth Probe	DP766	556098.71	670936.15	1.30	C - Shallow (0.5-2.0m)	3.72	3.5	11	1.30	2.30	3.78	1.0	2.13	1.0	2.0	0.0	3.78	1.0	2.13	1.0	2.0	1.0	344.5	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP767	556109.99	670939.94	1.10	C - Shallow (0.5-2.0m)	5.20	3.5	11	1.10	2.10	3.21	1.0	1.68	1.0	2.0	0.0	3.21	1.0	1.68	1.0	2.0	1.0	348.6	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP768	556089.05	670937.72	0.10	B - Very Shallow (0.01-0.5m)	1.52	3.5	11	0.10	1.10	120.27	1.0	10.93	1.0	2.0	0.0	120.27	1.0	10.93	1.0	2.0	1.0	337.4	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP769	556106.53	670930.89	0.80	C - Shallow (0.5-2.0m)	3.72	3.5	11	0.80	1.80	6.14	1.0	2.73	1.0	2.0	0.0	6.14	1.0	2.73	1.0	2.0	1.0	353.5	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP770	556107.94	670924.94	3.10	D - Moderately Deep (2.0-3.5m)	3.72	3.5	11	3.10	4.10	1.58	1.0	1.20	2.0	2.0	0.0	1.58	1.0	1.20	2.0	2.0	4.0	2.0	359.0	1.0	1.0
04/10/2023	RSK SI	Depth Probe	DP771	556074.08	670935.82	0.40	B - Very Shallow (0.01-0.5m)	1.52	3.5	11	0.40	1.40	30.07	1.0	8.59	1.0	2.0	0.0	30.07	1.0	8.59	1.0	2.0	1.0	330.2	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP772	556066.80	670926.24	0.10	B - Very Shallow (0.01-0.5m)	2.72	3.5	11	0.10	1.10	67.15	1.0	6.10	1.0	2.0	0.0	67.15	1.0	6.10	1.0	2.0	1.0	334.2	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP773	556076.44	670898.15	1.80	C - Shallow (0.5-2.0m)	1.78	3.5	11	1.80	2.80	5.69	1.0	3.66	1.0	2.0	0.0	5.69	1.0	3.66	1.0	2.0	1.0	363.1	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP774	556075.06	670894.82	0.90	C - Shallow (0.5-2.0m)	1.78	3.5	11	0.90	1.90	11.38	1.0	5.39	1.0	2.0	0.0	11.38	1.0	5.39	1.0	2.0	1.0	365.3	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP775	556075.96	670882.21	0.30	B - Very Shallow (0.01-0.5m)	1.57	3.5	11	0.30	1.30	38.76	1.0	8.95	1.0	2.0	0.0	38.76	1.0	8.95	1.0	2.0	1.0	376.6	1.0	1.0	
03/10/2023	RSK SI	Depth Probe	DP776	556073.25	670869.06	0.30	B - Very Shallow (0.01-0.5m)	1.57	3.5	11	0.30	1.30	38.76	1.0	8.95	1.0	2.0	0.0	38.76	1.0	8.95	1.0	2.0	1.0	386.7	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP777	556070.80	670858.33	0.90	C - Shallow (0.5-2.0m)	4.14	3.5	11	0.90	1.90	4.91	1.0	2.32	1.0	2.0	0.0	4.91	1.0	2.32	1.0	2.0	1.0	395.0	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP778	556073.53	670849.77	0.60	C - Shallow (0.5-2.0m)	1.39	3.5	11	0.60	1.60	21.81	1.0	8.18	1.0	2.0	0.0	21.81	1.0	8.18	1.0	2.0	1.0	403.9	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP779	556073.53	670849.77	0.50	B - Very Shallow (0.01-0.5m)	1.39	3.5	11	0.50	1.50	26.17	1.0	8.72	1.0	2.0	0.0	26.17	1.0	8.72	1.0	2.0	1.0	403.9	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP780	556080.17	670838.22	0.30	B - Very Shallow (0.01-0.5m)	1.39	3.5	11	0.30	1.30	43.62	1.0	10.07	1.0	2.0	0.0	43.62	1.0	10.07	1.0	2.0	1.0	417.2	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP781	556093.17	670833.83	0.40	B - Very Shallow (0.01-0.5m)	1.20	3.5	11	0.40	1.40	38.04	1.0	10.87	1.0	2.0	0.0	38.04	1.0	10.87	1.0	2.0	1.0	427.2	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP782	556148.88	670802.73	0.50	B - Very Shallow (0.01-0.5m)	3.44	3.5	11	0.50	1.50	10.62	1.0	3.54	1.0	2.0	0.0	10.62	1.0	3.54	1.0	2.0	1.0	394.7	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP783	556575.09	670598.43	0.20	B - Very Shallow (0.01-0.5m)	1.35	3.5	11	0.20	1.20	67.72	1.0	11.29	1.0	2.0	0.0	67.72	1.0	11.29	1.0	2.0	1.0	195.9	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP784	556555.93	670580.61	0.10	B - Very Shallow (0.01-0.5m)	4.32	3.5	11	0.10	1.10	42.33	1.0	3.85	1.0	2.0	0.0	42.33	1.0	3.85	1.0	2.0	1.0	173.0	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP785	556541.67	670582.59	0.20	B - Very Shallow (0.01-0.5m)	2.59	3.5	11	0.20	1.20	35.27	1.0	5.88	1.0	2.0	0.0	35.27	1.0	5.88	1.0	2.0	1.0	171.6	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP786	556533.40	670575.81	0.20	B - Very Shallow (0.01-0.5m)	0.77	3.5	11	0.20	1.20	118.63	1.0	19.77	1.0	2.0	0.0	118.63	1.0	19.77	1.0	2.0	1.0	163.5	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP787	556530.57	670561.37	0.20	B - Very Shallow (0.01-0.5m)	0.93	3.5	11	0.20	1.20	98.53	1.0	16.42	1.0	2.0	0.0	98.53	1.0	16.42	1.0	2.0	1.0	148.8	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP788	556529.92	670551.17	0.20	B - Very Shallow (0.01-0.5m)	0.77	3.5	11	0.20	1.20	118.42	1.0	19.74	1.0	2.0	0.0	118.42	1.0	19.74	1.0	2.0	1.0	138.6	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP789	556525.79	670541.94	0.10	B - Very Shallow (0.01-0.5m)	3.99	3.5	11	0.10	1.10	45.84	1.0	4.17	1.0	2.0	0.0	45.84	1.0	4.17	1.0	2.0	1.0	128.7	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP790	556506.09	670526.91	0.40	B - Very Shallow (0.01-0.5m)	3.51	3.5	11	0.40	1.40	13.03	1.0	3.72	1.0	2.0	0.0	13.03	1.0	3.72	1.0	2.0	1.0	110.4	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP791	556495.46	670520.88	0.10	B - Very Shallow (0.01-0.5m)	2.40	3.5	11	0.10	1.10	76.03	1.0	6.91	1.0	2.0	0.0	76.03	1.0	6.91	1.0	2.0	1.0	103.7	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP792	556485.18	670514.67	0.10	B - Very Shallow (0.01-0.5m)	2.80	3.5	11	0.10	1.10	65.13	1.0	5.92	1.0	2.0	0.0	65.13	1.0	5.92	1.0	2.0	1.0	97.8	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP793	556476.99	670504.73	0.50	B - Very Shallow (0.01-0.5m)	2.80	3.5	11	0.50	1.50	13.03	1.0	4.34	1.0	2.0	0.0	13.03	1.0	4.34	1.0	2.0	1.0	89.1	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP794	556467.80	670507.78	0.20	B - Very Shallow (0.01-0.5m)	2.33	3.5	11	0.20	1.20	39.21	1.0	6.53	1.0	2.0	0.0	39.21	1.0	6.53	1.0	2.0	1.0	94.2	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP795	556454.99	670496.21	0.10	B - Very Shallow (0.01-0.5m)	2.33	3.5	11	0.10	1.10	78.41	1.0	7.13	1.0	2.0	0.0	78.41	1.0	7.13	1.0	2.0	1.0	88.0	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP796	556445.33	670497.59	0.10	B - Very Shallow (0.01-0.5m)	2.14	3.5	11	0.10	1.10	85.43	1.0	7.77	1.0	2.0	0.0	85.43	1.0	7.77	1.0	2.0	1.0	93.8	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP797	556434.34	670500.29	0.30	B - Very Shallow (0.01-0.5m)	1.80	3.5	11	0.30	1.30	33.78	1.0	7.80	1.0	2.0	0.0	33.78	1.0	7.80	1.0	2.0	1.0	102.1	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP798	556427.50	670502.76	0.40	B - Very Shallow (0.01-0.5m)	1.80	3.5	11	0.40	1.40	25.34	1.0	7.24	1.0	2.0	0.0	25.34	1.0	7.24	1.0	2.0	1.0	108.2	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP799	556416.10	670498.23	0.20	B - Very Shallow (0.01-0.5m)	2.91	3.5	11	0.20	1.20	31.41	1.0	5.23	1.0	2.0	0.0	31.41	1.0	5.23	1.0	2.0	1.0	110.4	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP800	556410.56	670494.75	0.10	B - Very Shallow (0.01-0.5m)	2.91	3.5	11	0.10	1.10	62.81	1.0	5.71	1.0	2.0	0.0	62.81	1.0	5.71	1.0	2.0	1.0	108.9	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP801	556407.60	670478.28	0.10	B - Very Shallow (0.01-0.5m)	1.85	3.5	11	0.10	1.10	98.71	1.0	8.97	1.0	2.0	0.0	98.71	1.0	8.97	1.0	2.0	1.0	94.9	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP802	556403.66	670477.94	0.10	B - Very Shallow (0.01-0.5m)	1.85	3.5	11	0.10	1.10	98.71	1.0	8.97	1.0	2.0	0.0	98.71	1.0	8.97	1.0	2.0	1.0	95.9	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP803	556391.10	670480.83	0.20	B - Very Shallow (0.01-0.5m)	3.05	3.5	11	0.20	1.20	29.91	1.0	4.99	1.0	2.0	0.0	29.91	1.0	4.99	1.0	2.0	1.0	103.1	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP804	556379.83	670478.90	0.10	B - Very Shallow (0.01-0.5m)	4.36	3.5	11	0.10	1.10	42.01	1.0	3.82	1.0	2.0	0.0	42.01	1.0	3.82	1.0	2.0	1.0	106.5	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP805	556372.23	670458.19	0.10	B - Very Shallow (0.01-0.5m)	4.48	3.5	11	0.10	1.10	40.82	1.0	3.71	1.0	2.0	0.0	40.82	1.0	3.71	1.0	2.0	1.0	94.0	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP806	556368.78	670450.44	0.10	B - Very Shallow (0.01-0.5m)	4.48	3.5	11	0.10	1.10	40.82	1.0	3.71	1.0	2.0	0.0	40.82	1.0	3.71	1.0	2.0	1.0	90.6	2.0	2.0	
04/10/2023	RSK SI	Depth Probe	DP807	553944.66	668164.17	0.00	A - Rock (0.0m)	1.10	3.5	11	0.00	1.00	16628.02	1.0	16.61	1.0	2.0	0.0	16628.02	1.0	16.61	1.0	2.0	1.0	310.8	1.0	1.0	
04/10/2023	RSK SI	Depth Probe	DP808	553939.10	668112.30																							

Appendix 10.1 App B(a) - Peat Database

Oatfield WF, Co. Clare
604569



Date: 16/11/2023
Prepared by: DW
File Ref.: 604569-Geo-R2-App10.1 - App B(a)-(00)-Peat Database

Sample / Test Date	Data Source	Sample / Test Category	Sample / Test Point ID No.	ITM Easting	ITM Northing	Thickness / Depth of peat	Classification of Thickness / Depth of peat	Local Incline (c.5/25m rad.)	Parameter Values		Scenario A	Scenario B	FoS _{RAW} Factor of Safety (FoS) for Peat Stability		FoS _{ADJ} Adjusted Factor of Safety (FoS) for Peat Stability		Significant Feature Ranking Coefficient	RR _{SF} Ranking Risk re Potential for Adverse Consequences on Sensitive Receptors		RR _D Risk Ranking Accounting for Distance to Sensitive Receptors								
									Undrained Shear Strength (Conservative Value)	Bulk Unit weight of Peat (Conservative Value)	Depth to failure plane i.e. Peat Depth	Surcharge Equivalent Placed Fill Depth i.e. +1m	FoS	COEFFICIENT	FoS	COEFFICIENT		RR-SF	COEFFICIENT	RR-D	RR-D							
dd/mm/yy						m		Degrees	kPa	kN/m3	m	m	FoS	μ	FoS	μ	μ	μ	μ	μ	μ	μ						
18/10/2023	RSK SI	Depth Probe	DP862	554080.57	668450.97	0.90	C - Shallow (0.5-2.0m)	3.64	3.5	11	0.90	1.90	5.59	1.0	2.65	1.0	2.0	0.0	5.59	1.0	2.65	1.0	2.0	1.0	444.4	1.0	1.0	1.0
18/10/2023	RSK SI	Depth Probe	DP863	554092.54	668447.66	0.40	B - Very Shallow (0.01-0.5m)	3.73	3.5	11	0.40	1.40	12.25	1.0	3.50	1.0	2.0	0.0	12.25	1.0	3.50	1.0	2.0	1.0	432.4	1.0	1.0	1.0
18/10/2023	RSK SI	Depth Probe	DP864	554107.94	668441.89	0.00	A - Rock (0.0m)	4.19	3.5	11	0.00	1.00	4370.13	1.0	4.37	1.0	2.0	0.0	4370.13	1.0	4.37	1.0	2.0	1.0	416.3	1.0	1.0	1.0
18/10/2023	RSK SI	Depth Probe	DP865	554102.21	668471.69	0.20	B - Very Shallow (0.01-0.5m)	2.74	3.5	11	0.20	1.20	33.29	1.0	5.55	1.0	2.0	0.0	33.29	1.0	5.55	1.0	2.0	1.0	421.6	1.0	1.0	1.0
18/10/2023	RSK SI	Depth Probe	DP866	554114.16	668499.73	0.20	B - Very Shallow (0.01-0.5m)	5.15	3.5	11	0.20	1.20	17.79	1.0	2.97	1.0	2.0	0.0	17.79	1.0	2.97	1.0	2.0	1.0	403.8	1.0	1.0	1.0
18/10/2023	RSK SI	Depth Probe	DP867	554054.67	668435.47	0.50	B - Very Shallow (0.01-0.5m)	4.17	3.5	11	0.50	1.50	8.77	1.0	2.92	1.0	2.0	0.0	8.77	1.0	2.92	1.0	2.0	1.0	449.3	1.0	1.0	1.0
18/10/2023	RSK SI	Depth Probe	DP868	554040.33	668408.95	0.00	A - Rock (0.0m)	6.80	3.5	11	0.00	1.00	2707.34	1.0	2.70	1.0	2.0	0.0	2707.34	1.0	2.70	1.0	2.0	1.0	433.5	1.0	1.0	1.0
18/10/2023	RSK SI	Depth Probe	DP869	554077.97	668417.56	0.00	A - Rock (0.0m)	2.47	3.5	11	0.00	1.00	7383.23	1.0	7.38	1.0	2.0	0.0	7383.23	1.0	7.38	1.0	2.0	1.0	441.9	1.0	1.0	1.0
18/10/2023	RSK SI	Depth Probe	DP870	554028.17	668388.59	0.10	B - Very Shallow (0.01-0.5m)	5.83	3.5	11	0.10	1.10	31.47	1.0	2.86	1.0	2.0	0.0	31.47	1.0	2.86	1.0	2.0	1.0	417.0	1.0	1.0	1.0
18/10/2023	RSK SI	Depth Probe	DP871	554012.12	668367.52	0.00	A - Rock (0.0m)	1.92	3.5	11	0.00	1.00	9487.19	1.0	9.48	1.0	2.0	0.0	9487.19	1.0	9.48	1.0	2.0	1.0	397.0	1.0	1.0	1.0
18/10/2023	RSK SI	Depth Probe	DP872	554012.87	668354.95	0.00	A - Rock (0.0m)	2.24	3.5	11	0.00	1.00	8137.90	1.0	8.13	1.0	2.0	0.0	8137.90	1.0	8.13	1.0	2.0	1.0	395.7	1.0	1.0	1.0
18/10/2023	RSK SI	Depth Probe	DP873	553514.33	668276.33	0.00	A - Rock (0.0m)	6.23	3.5	11	0.00	1.00	2949.61	1.0	2.95	1.0	2.0	0.0	2949.61	1.0	2.95	1.0	2.0	1.0	96.5	2.0	2.0	2.0
18/10/2023	RSK SI	Depth Probe	DP874	553507.03	668291.47	0.00	A - Rock (0.0m)	7.91	3.5	11	0.00	1.00	2334.06	1.0	2.33	1.0	2.0	0.0	2334.06	1.0	2.33	1.0	2.0	1.0	106.5	2.0	2.0	2.0
18/10/2023	RSK SI	Depth Probe	DP875	553487.44	668317.74	0.00	A - Rock (0.0m)	6.17	3.5	11	0.00	1.00	2977.98	1.0	2.98	1.0	2.0	0.0	2977.98	1.0	2.98	1.0	2.0	1.0	108.9	2.0	2.0	2.0
18/10/2023	RSK SI	Depth Probe	DP876	553474.31	668376.34	0.00	A - Rock (0.0m)	6.91	3.5	11	0.00	1.00	2665.01	1.0	2.66	1.0	2.0	0.0	2665.01	1.0	2.66	1.0	2.0	1.0	125.2	2.0	2.0	2.0