

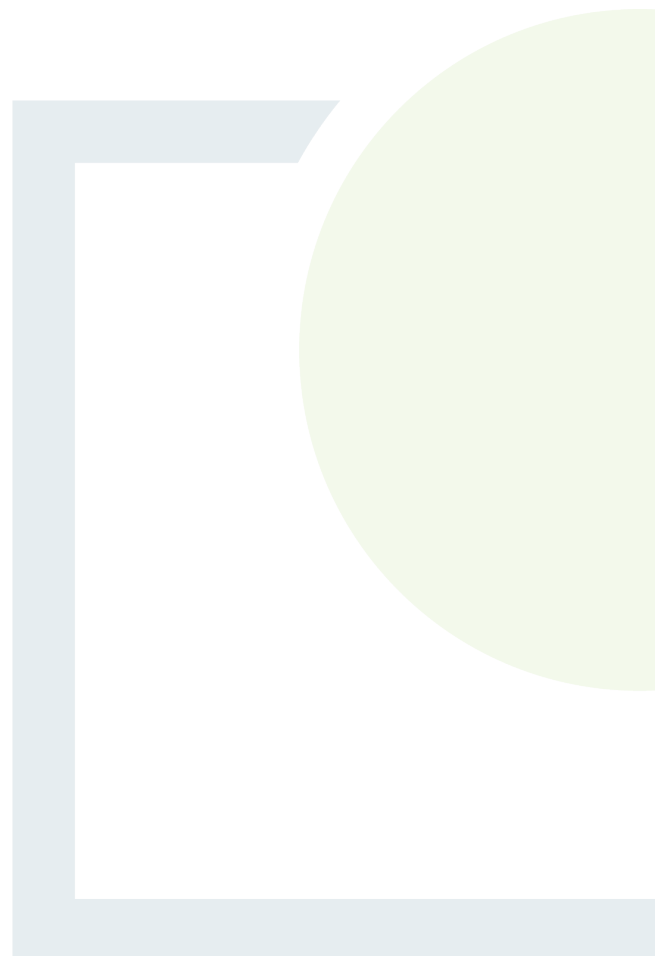


DESIGNING AND DELIVERING
A SUSTAINABLE FUTURE

APPENDIX 14

CLIMATE

Appendix 14.1 – Carbon Calculation



APPENDIX 14.1

Carbon Calculation

Year	Tonnes peat extracted	Carbon from extraction (tC/yr)	Carbon from extraction (tCO2/yr)	Area extracted (ha)	Carbon from bare peat surface (tC/yr)	Carbon from bare peat surface (tCO2/yr)	Total length of drains (km)	Total area of drains (ha)	Carbon from open drains (tCO2/yr)	Carbon from surface water runoff (POC and DOC) (tCO2/yr)	Direct CH4 from surface (tCO2eq/yr)	Direct N2O from surface (tCO2eq/yr)	Fuel usage (tCO2eq/yr)	Total (tCO2eq/yr)
1988*	99030	22418	82276	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	101878
1989	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
1990	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
1991	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
1992	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
1993	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
1994	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
1995	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
1996	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
1997	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
1998	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
1999	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
2000	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
2001	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
2002	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
2003	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
2004	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
2005	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
2006	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
2007	198060	44837	164551	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	184154
2008	247123	55944	205313	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	224916
2009	90113	20400	74867	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	94470
2010	163810	37083	136096	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	155698
2011	118471	26819	98427	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	118030
2012	14510	3285	12055	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	31658
2013	185547	42004	154155	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	173758
2014	117710	26647	97795	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	117398
2015	114003	25808	94715	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	114318
2016	110730	25067	91996	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	111599
2017	93603	21190	77767	1353	2376	8713	571	56	38.08	8307	270.6	514.14	1759	97369

*July to December