



CARBON ACCOUNTING

The content of this document is draft and relates to material [or data] which is still in the course of completion in travel to Gate 2 and should not be relied upon at this early stage of development. We continue to develop our thinking and our approach to the issues raised in the document in preparation for Gate 2.

Table 4-7 – Baseline carbon accounting Iver North

Sites (Treatment plants)	Element	Construction stage embodied GHG emissions (LCA module A1-A3) tCO ₂ e	Operational stage embodied GHG emissions (LCA Modules B1- B4) tCO ₂ e	Operational stage energy related GHG emissions (LCA module B6) emissions tCO ₂ e	Total lifetime GHG emissions tCO ₂ e	% of total GHG emissions
North of Iver	Earth Works	968			968	0.1%
	Stainless Steel (pumps & screens)	46,034	46,114	-	92,148	8.0%
	Iron Pipes	11,923	12,008	-	23,931	2.1%
	Steel Reinforcing bar (within concrete)	2,265	2,267	-	4,532	0.4%
	0% GGBS Concrete (Total)	1,201	1,327	-	2,528	0.2%
	Asphalt	39	65	-	104	<0.01%
	Aggregate (Crushed Rock subbase)	4	11	-	15	<0.01%
	Copper	16,403	82,069	-	98,473	8.5%
	Electricity	-	-	77,253	77,253	6.7%
	Treatment Chemicals	-	854,737		854,737	74.0%
	Total	78,836	998,599	77,253	1,154,689	



Table 4-8 – Revised carbon accounting Iver North

Sites (Treatment plants)	Element	Construction stage embodied GHG emissions (LCA module A1-A3) tCO ₂ e	Operational stage embodied GHG emissions (LCA Modules B1- B4) tCO ₂ e	Operational stage energy related GHG emissions (LCA module B6) emissions tCO ₂ e	Total lifetime GHG emissions tCO ₂ e	% of total GHG emissions
North of Iver	Earth Works	968			968	0.1%
	Stainless Steel (pumps, screens & fencing)	46034	46,114	-	92,148	8.0%
	Iron Pipes	11,923	12,008	-	23,931	2.1%
	Steel Reinforcing bar (within concrete)	2,264	2,268	-	4,532	0.4%
	Concrete (Pre-cast-20% GGBS)	1,017	1,087	-	2,104	0.2%
	Concrete (In-Situ- 20% GGBS)	11	12	-	23	<0.01%
	Asphalt (low temp)	35	117	-	152	<0.01%
	Aggregate (Crushed Rock subbase)	4	11	-	15	<0.01%
	Copper (pumps & treatment filters)	16,403	82,069	-	98,473	8.5%
	Electricity	-	-	77,253	77,253	6.7%
	Treatment Chemicals	-	854,737	-	854,737	74.0%
	Total		78,659	998,424	77,253	1,154,336