

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 4-31 - Baseline carbon accounting Tring

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) tCO₂e	Operational stage energy related GHG emissions (LCA module B6) emissions tCO₂e	Total lifetime GHG emissions tCO₂e	% of total GHG emissions
Tring	Earth Works	972			972	0.1%
	Stainless Steel (pumps & screens)	106,367	106,552		212,919	15.9%
	Iron Pipes	4,393	4,425		8,817	0.7%
	Steel Reinforcing bar (within concrete)	3,092	3,096		6,188	0.5%
	0% GGBS Concrete (Total)	1,577	1,682		3,259	0.2%
	Asphalt	77	127		204	<0.01%
	Aggregate (Crushed Rock subbase and bridge foundations)	8	22		30	<0.01%
	Copper	24,149	120,821		144,970	10.8%
	Electricity	-	-	105,940	105,940	7.9%
	Treatment Chemicals	-	854,737		854,737	63.9%
	Totals	140,635	1,091,462	105,940	1,338,037	



Table 4-32 – Revised carbon accounting Tring

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 tCO₂e	% of total GHG emissions
Tring	Earth Works	970			970	0.1%
	Stainless Steel (pumps, screens & fencing)	106,367	106,552		212,919	15.9%
	Rising Main (HDPE Plastic pipes)	2,464	4,567		7,031	0.5%
	Steel Reinforcing bar (within concrete)	3,078	3,082		6,160	0.5%
	Concrete (Pre-cast-20% GGBS)	1,375	1,470		2,845	0.2%
	Concrete (In-Situ- 20% GGBS)	16	11		27	<0.01%
	Asphalt (low temp)	69	76		145	<0.01%
	Aggregate (Crushed Rock subbase and bridge foundations)	8	22		30	<0.01%
	Copper	24,149	120,821		144,970	10.9%
	Electricity	-	-	105,940	105,940	7.9%
	Treatment Chemicals	-	854,737		854,737	64.0%
	Totals	138,496	1,091,338	105,940	1,335,774	