

Appendix D – Environmental Impact Assessment

The report below has been carried out to ascertain the co2 comparison regarding travelling to a new school against the running cost of keeping Wormegay functioning.

The environmental impact of the additional mileage to transport from the current Wormegay site to the proposed site is 11,706 kgCO₂. This is a reduction of 4,972 kgCO₂, or 29.8% in comparison to the current energy consumption of the Wormegay site. The figures have not included the environmental impact of deliveries to Wormegay, which, if included, would increase the CO₂ emissions attributed to the current Wormegay site.

The building figures have been obtained from meter readings, DEC information and delivery notes from suppliers during 2019 and early 2020. Some assumptions have been made in line with averages where data was missing. The building figures do not include additional services that would produce co2 emissions such as water use, waste removal/disposal or school deliveries.

The mileage data was assumed on 25 pupils being required to travel an additional 9 miles a day in a mid-size vehicle for 190 days per year.

Additional works put forward for Runcton Holme in the next 2-3 years will insulate the building further so the additional numbers will not have a bearing on the heating and the electricity use increase will be marginal as the systems using the majority of this (lighting, small power) will not be increased due to addition in numbers.

All conversion figures taken from Defra Standard GHG Conversion factors for company reporting.

Car Type	Conversion factor	kgCo2
Mid-range (unknown fuel)	0.27382	11706

Below is calculated at 75% annual use for school closures.

Conversion factors taken from DEFRA standardised GHG conversion

	quantity	Conversion factor	kgCo2
Electricity	15978 kwh	0.25087	4100
Heating (Propane)	8100 litres	1.55325	12581

Results

	Kg co2
Mileage	11706
Building (Heating/lighting)	16681
Difference	4975
% difference	29.8

Love
Community
Respect
Trust
Ambition