
From: Anna.Czerska
Sent: 06 April 2020 16:17
To: Matthew.Porter
Subject: RE: DC/19/2464 Southwater Phase 5

Hi Matthew,

Please find below my comments in respect of the submitted Air Quality Assessment report (January 2020) prepared by Stuart Michael Associates.

1. Regarding the model results, I am conscious that the calculated adjustment factor of 2.9386 is high, which means that the model is significantly underpredicting the results. The applicant should provide full details of the model verification to ascertain the model's accuracy – including the difference between monitored and modelled road NOx contribution at the verification site, correlation, RMSE and Fractional Bias, as recommended by Defra's technical guidance LAQM.TG16. If the RMSE values are higher than $\pm 25\%$ of the objective being assessed, it is recommended that the model inputs and verification should be revisited in order to make improvements
2. Regarding the damage cost calculation, the applicant chose to calculate the costs for 'rural' road traffic, which significantly underestimates the costs compared to the calculation being done for 'urban small' traffic. Southwater is a large settlement, and traffic on the Worthing Road, in my view, should be categorised as 'urban small'.
3. No mitigation for the operational phase of the development was proposed. Horsham Council follows a low emission strategies' approach to air quality mitigation, which is based on the rationale that each development will create additional emissions, from associated traffic and heating, and, as such, those impacts should be mitigated. In accordance with the Air Quality and Emissions Mitigation Guidance for Sussex (latest update is 2020), applicants are required to submit a Mitigation Plan detailing proposed measures to mitigate and/or offset the impacts, where the estimated value of the proposed measures should be equal to the environmental damage costs. The Plan must include the provision of electric charging points. It is a good opportunity for Phase 5 of the development to propose measures which support and enhance the Low Emission Strategy that was prepared in support of the outline permission.
4. Regarding the ev charging point specification and provision rate, our revised recommendation for residential charging is a fast charging point (30 Amp) with type 2 connector and Mode 3 circuit, in line with the table below.

Electric charging specification:

Residential Development	EV Charging Requirement	Charge Point Specification
Single Dwellings:	1 fast charge socket per dwelling	7kw Mode 3 with Type 2 Connector
Flats/Apartments	20% of available spaces to be fitted with a fast charge socket	
C2 Care /Nursing Home		
C3 Elderly (Sheltered)	20% of available spaces to be provided with power supply to provide additional fast charge socket	Feeder pillar or equivalent permitting future connection.
Commercial Development	EV Charging Requirement	Charge Point Specification
Offices / Employment		

B1 Offices, light Industry 500m>		
B2 General Industrial 500m>		
B8 Storage & Distribution 1000m>		
D1 Doctors/Dentists practices		
D1 Schools/Colleges		
	10 % of available spaces to be fitted with a fast charge socket	7kw Mode 3 with Type 2 Connector 230v AC 32 Amp Single Phase dedicated supply
	10% of available spaces to be provided with power supply to provide additional fast charge socket	Feeder pillar or equivalent permitting future connection.
Retail/Leisure Uses		
A1 Retail 500m2>		
C1 Hotels		
D2 Sports Clubs, Health Clubs, Leisure Centres, Theatres, Cinemas, Conference Centres, 500m2>		
Sui Generis Uses		
(including all other uses not mentioned above).	Individual assessment/justification	Individual assessment/justification
High demand, Short Stay Land Uses		
(Development with high demand and short stay characteristics in strategic locations (e.g. motorway service stations, large petrol filling stations).	20 % of available spaces to be fitted with a fast charge socket	7kw Mode 3 with Type 2 Connector
Large or major development and regeneration projects.	10% of available spaces to be provided with power supply to provide additional fast charge socket	Feeder pillar or equivalent permitting future connection.
	1 or more rapid charge sockets	50kw Mode 4 (DC) Mult-standard charge point.

Kind Regards
Anna

The Environmental Health and Licensing team continues to provide a service during the current situation.

Please be patient as we are experiencing a high number of calls; the best and quickest way to contact us is

via the email address below and we will get back to you as soon as possible.

Please check the website for the latest updates to our services.

Anna Czerska

Environmental Protection Officer

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**Horsham
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From: Matthew.Porter <Matthew.Porter@horsham.gov.uk>

Sent: 03 April 2020 13:47

To: Anna.Czerska <Anna.Czerska@horsham.gov.uk>

Subject: DC/19/2464 Southwater Phase 5

Hi Anna,

Hope you are well.

Have you had the opportunity to consider the attached?

Thanks

Matthew Porter

Senior Planning Officer

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Email: Matthew.Porter@horsham.gov.uk



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