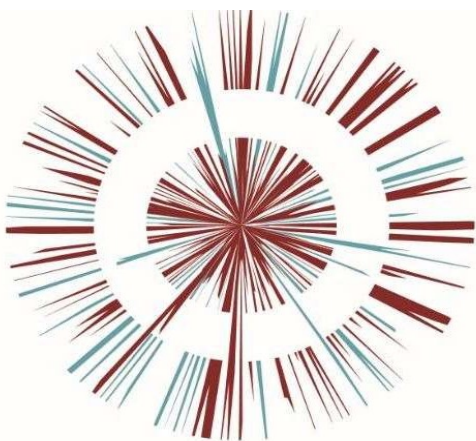




OMEGA ZONE 8, ST HELENS

Omega St Helens Ltd / T. J. Morris Limited



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Omega St Helens / T. J. Morris Limited

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Environmental Statement Volume 2 - Appendices
OPP DOC.11.30 Appendix 17: Cumulative Effects





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1 SCREENING FOR INTRA-PROJECT SENSITIVE RECEPTORS

1.1.1. **Table A-1** and **Table A-2** identifies the sensitive receptors from technical chapters 6 – 16 that are exposed to residual effects with a significance greater than ‘negligible’ and sensitive receptors that have the potential for intra-project cumulative effects to be taken forward to Stage 2 of the assessment of intra-project effects.

1.1.2. The significance of effect has been classified to identify the type as defined below:

- Beneficial (+) or Adverse (-);
- Permanent (P) or Temporary (T);
- Direct (D) or Indirect (I); and
- Short (ST), Medium (MT) or Long Term (LT).

Table A-1 – Screening of receptors during the construction phase (Stage 1)

Receptor	Relevant factor	Impacts	Significance of residual effects	Potential for intra-project cumulative effects?	Taken through to Stage 2?
Land					
BMV agricultural land	Land and soils	Permanent loss of agricultural land and effect on food production	Minor - moderate - / P / D / LT	During construction there would be adverse effects on BMV agricultural land for food production and a loss of a landscape feature.	Yes
Landscape features	Landscape and visual	Loss of agricultural land	Major - / P / D / LT		
Soil resources	Land and soils	Loss or degradation of soil resources	Minor – moderate - / T / D / MT	No	No
Site of Big “Big Dam” (WSP002)	Cultural heritage	The below ground remains maybe potentially impacted upon by any earth moving operations and planting	Minor - / P / D / LT	No	No

Receptor	Relevant factor	Impacts	Significance of residual effects	Potential for intra-project cumulative effects?	Taken through to Stage 2?
Surface Water and Groundwater					
Ponds (priority habitat)	Biodiversity	Permanent loss of poor-quality pond habitat totalling 10,316m ² .	Moderate – Major + / P / D / LT	During construction there will be a permanent loss of ponds having an adverse effect on this landscape feature. However, there will be a beneficial effect as additional ponds, habitat creation and sustainable drainage is proposed.	Yes
		Loss / damage to fish populations within ponds during pond drainage.	Moderate – Major + / P / D / LT		
Landscape features	Landscape and visual	Loss of ponds	Major - / P / D / LT		
Groundwater – secondary till aquifer	Water	Potential impact from earthworks and other construction activities.	Minor - / T / D / ST	No	No
Users of Local Amenity					
Children's day nursery	Noise and vibration	Vibration as a result of on-site operations during construction	Minor - / T / D / MT	No	No
Community land and assets	Population and health	Permanent direct land take of "major greenspaces, links and Bold Forest Park".	Minor - / P / D / LT	During construction receptors using major greenspaces and Bold Forest Park will experience a direct adverse effect from land take and the view	Yes
Public open space/recreational area receptors	Landscape and visual	Views of construction activity, some at close proximity.	Moderate - Major - T / D / ST		

Receptor	Relevant factor	Impacts	Significance of residual effects	Potential for intra-project cumulative effects?	Taken through to Stage 2?
				of construction activities.	
Local Residents and Employees					
Residential receptors	Landscape and visual	Views of construction activity, some receptors are located at close proximity to the application site.	Moderate - Very Major - T / D / ST	No	No
Commercial receptors	Landscape and visual	Views of construction activity, some at close proximity.	Moderate - / T / D / ST	No	No
Users of Footpaths, PRowS, Cycleways and Roads					
Bold Loop	Population and health	Potential disruption on Bold Loop	Minor - / T / D / ST	No	No
Footpath 102	Population and health	Potential disruption on Footpath 102	Minor - / T / D / ST	During construction receptors using or in close proximity to Footpath 102, Skyline Drive, Omega Boulevard and Orion Boulevard will potentially experience adverse effects the view, on walking and cycling with passing construction road traffic and disruption.	Yes
Domino's, Skyline Drive Omega Zone 7, Skyline Drive & Omega Boulevard	Transport	Potential for impacts on people walking or cycling based on routeing of construction phase traffic.	Minor - / T		
PRow receptors	Landscape and visual	Views of construction activity, some at close proximity.	Moderate - Very Major - T / D / ST		
Highway receptors	Landscape and visual	Views of construction activity, some at close proximity.	Moderate - / T / D / ST		

Receptor	Relevant factor	Impacts	Significance of residual effects	Potential for intra-project cumulative effects?	Taken through to Stage 2?
Economy					
St. Helens	Population and health	Approximately 1,126 gross and 1,267 net construction workers are likely to be generated by the detailed planning application site on-site per year. These represent a net additional £76,421,800 GVA to the St. Helens economy.	Minor + / T / D / MT	No	No
Landscape					
Landscape character	Landscape and visual	Loss of characteristic farmland, assemblage of landscape features, woodland features and introduction of uncharacteristic features.	Moderate – Major - / P / D / LT	No	No
Built Heritage Assets					
Old Bold Hall moated site, Bold (SM 1010703)	Cultural heritage	Temporary effects to the setting of the asset from construction related activities, such as an increase in light, noise and movement from traffic.	Moderate - / T / I / ST	No	No

Receptor	Relevant factor	Impacts	Significance of residual effects	Potential for intra-project cumulative effects?	Taken through to Stage 2?
Grade II listed Farmhouse at former Bold Hall Estate (LB1031890) and Grade II listed Farm outbuilding, formerly Stables, at Former Bold Hall Estate (LB1031889).	Cultural heritage	Temporary effects to the setting of the asset from construction related activities, such as an increase in light.	Moderate - / T / I / ST	No	No
Site of Medieval and Post-Medieval park, Old Bold Hall and Bold Hall, Bold (MME8654)	Cultural heritage	The elements of the park may survive as earthworks. These may take the form of boundary features, such as a park pale, with a bank and a ditch which may be impacted on during the construction phase.	Moderate - / P / D / LT	No	No
Ecological Receptors					
Woodland and trees (priority habitat and TPOs)	Biodiversity	Permanent loss of woodland and tree cover totalling 56,339 m ² .	Moderate – Major + / P / D / LT	During construction there will a permanent loss of woodland having an adverse effect on this landscape feature. However, there will be a beneficial effect as mitigation planting will result in a net gain of woodland.	Yes
		Damage to woodland/trees covered by TPO.	Moderate – Major + / P / D / LT		
Landscape features	Landscape and visual	Loss of woodland	Major - / P / D / LT		

Receptor	Relevant factor	Impacts	Significance of residual effects	Potential for intra-project cumulative effects?	Taken through to Stage 2?
Booth's Wood, possible ancient woodland (WSP001)	Cultural heritage	Potential impact on Booth's Wood which may contain distinct boundary features such as a wood bank as well as containing evidence of woodland industries.	Moderate - / P / D / LT	No	No
Hedgerow (priority habitat)	Biodiversity	Permanent loss of species-poor intact and defunct hedgerow totalling 534 linear metres	Minor + / P / D / LT	During construction there will a permanent loss of hedgerow having an adverse effect on this landscape feature. However, there will be a beneficial effect as mitigation planting will result in a net gain of hedgerow.	Yes
Landscape features	Landscape and visual	Loss of hedgerows	Major - / P / D / LT		
Bats	Biodiversity	Bat roost loss (outline planning application site)	Moderate + / P / D / LT	No	No
		Noise/vibration disturbance (outline planning application site)	Moderate + / P / D / LT	No	No
		Loss of potential roost habitat (application site)	Moderate + / P / D / LT	No	No

Receptor	Relevant factor	Impacts	Significance of residual effects	Potential for intra-project cumulative effects?	Taken through to Stage 2?
		Loss of foraging and commuting habitat	Moderate + / P / D / LT	No	No
Breeding birds (including priority species)	Biodiversity	Loss of bird breeding habitat for aerial nesting (woodland, hedgerow, scrub)	Minor - / P / D / LT	No	No
		Loss of ground nesting bird habitat (grassland / arable)	Minor - / P / D / LT	No	No
		Potential impact on wild birds, their nests and eggs during vegetation clearance.	Minor - / P / D / LT	No	No
Brown Hare (Local and UK BAP)	Biodiversity	Potential killing/injury	Minor - / P / D / LT	No	No
		Permanent loss of habitat		No	No
Climate					
Climate	Climate	The embodied carbon generated by the Proposed Development is 121,550 tCO ₂ e and is below the 2030 Target of RIBA 2030 Climate Challenge.	Minor - / P / D / LT	No	No
		Transport emissions related to the construction phase equates	Minor - / P / D / LT	No	No

Receptor	Relevant factor	Impacts	Significance of residual effects	Potential for intra-project cumulative effects?	Taken through to Stage 2?
		to 107 tCO2e per annum for the peak Construction Year. This figure consists 0.03% of the total life-cycle emissions			

Table A-2 - Screening of receptors during the operational phase (Stage 1)

Receptor	Relevant factor	Impacts	Significance of residual effects	Potential for intra-project cumulative effects?	Taken through to Stage 2?
Land					
Landscape features	Landscape and visual	Loss of agricultural land	Moderate - Major - / P / D / LT	No	No
Surface Water and Groundwater					
Landscape features	Landscape and visual	Loss of ponds	Moderate - Major - / P / D / LT	No	No
Users of Local Amenity					
Children's day nursery	Noise and vibration	Industrial / commercial noise as a result of on-site operations once completed and occupied.	Minor - / P / D / LT	No	No
Community land and assets	Population and health	Permanent direct land take from "major greenspaces, links and Bold Forest Park".	Minor - / P / D / LT	During operation receptors using major greenspaces and Bold	Yes

Receptor	Relevant factor	Impacts	Significance of residual effects	Potential for intra-project cumulative effects?	Taken through to Stage 2?
Public open space/recreational area receptors	Landscape and visual	Views of new buildings and operational activity, some at close proximity.	Moderate - Major - / P / D / LT	Forest Park will experience a direct adverse effect from land take and the view of the Proposed Development and operational activities.	
Local Residents and Employees					
Dwellings at Old Hall Farm	Noise and vibration	Industrial / commercial noise as a result of on-site operations once completed and occupied.	Negligible to Minor - / P / D / LT	During operation receptors within the vicinity of Old Hall Farm, Bembridge Close and other residential receptors will potentially experience adverse effects from noise and views as a result of the operation of the Proposed Development.	Yes
Dwellings at Bembridge Close	Noise and vibration	Industrial / commercial noise as a result of on-site operations once completed and occupied.	Negligible to Minor - / P / D / LT		
Residential receptors	Landscape and visual	Views of new buildings and operational activity, some located at close proximity to the application site.	Moderate - Very Major - / P / D / LT		
Commercial receptors	Landscape and visual	Views of new buildings and operational activity, some at close proximity.	Moderate - / P / D / LT	No	No
Users of Footpaths, PRoWs, Cycleways and Roads					
Walkers and cyclists	Population and health	Provision of new pedestrian and cycle	Moderate + / P / D / LT	During operation receptors	Yes

Receptor	Relevant factor	Impacts	Significance of residual effects	Potential for intra-project cumulative effects?	Taken through to Stage 2?
		<p>routes, where extended linkages to longer distance footpaths to communities nearby are anticipated.</p> <p>Potential improvement in sustainable transport linkage in St. Helens.</p>	Moderate + / P / D / LT	<p>using or in close proximity to Skyline Drive, Omega Boulevard, Orion Boulevard and PRoW will potentially experience adverse effects from views of new buildings and operational activity, on walking and cycling and noise associated with passing operational road traffic. However, receptors during operation will benefit from a new pedestrian and cycle route and a potential improvement to sustainable transport linkages in St. Helens.</p>	
<p>Domino's, Skyline Drive</p> <p>Omega Zone 7, Skyline Drive & Omega Boulevard</p> <p>Royal Mail Depot, Orion Boulevard</p>	Transport	<p>Potential for impacts on people walking and cycling based on routing of operational phase traffic.</p>	Minor - / P		
<p>Receptors adjacent to the existing local highway network</p>	Noise and vibration	<p>Change in noise levels as a result of development generated road traffic movements.</p>	Negligible to Minor - / P / D / LT		
PRoW receptors	Landscape and visual	<p>Views of new buildings and operational activity, some at close proximity.</p>	Moderate - Very Major - / P / D / LT		
Highway receptors	Landscape and visual	<p>Views of new buildings and operational activity, some at close proximity.</p>	Moderate - / P / D / LT		

Receptor	Relevant factor	Impacts	Significance of residual effects	Potential for intra-project cumulative effects?	Taken through to Stage 2?
Economy					
St. Helens	Population and health	<p>Approximately 1,103 net FTE employment opportunities are likely to be associated with the detailed planning application site.</p> <p>Approximately 3,014 net FTE employment opportunities are likely to be associated with the outline planning application site.</p> <p>These represent an additional £141,526,602 net GVA to the St. Helens economy.</p>	Moderate + / P / D / LT	No	No
Landscape					
Landscape character	Landscape and visual	Loss of characteristic farmland, assemblage of landscape features, woodland features and introduction of uncharacteristic features.	Major - / P / D / LT	No	No
Built Heritage Assets					
Old Bold Hall moated site, Bold (SM 1010703)	Cultural heritage	Potentially further setting impacts. This is due to the height and proximity of the Proposed	Moderate - / P / I / LT	No	No

Receptor	Relevant factor	Impacts	Significance of residual effects	Potential for intra-project cumulative effects?	Taken through to Stage 2?
		Development and the removal landscape features that formed part of the Medieval and Post-Medieval Park.			
Grade II listed Farmhouse at former Bold Hall Estate (LB1031890) and Grade II listed Farm outbuilding, formerly Stables, at Former Bold Hall Estate (LB1031889).	Cultural heritage	Adverse harm to the setting, as not only is the existing Omega distribution centre visible, but the Proposed Development would potentially dominate the view from the receptors. This is particularly important as the receptors preserve the intended southerly view from the former Bold Hall.	Minor - / P / I / LT	No	No
Ecological Receptors					
Landscape features	Landscape and visual	Loss of woodland	Moderate - Major - / P / D / LT	No	No
Landscape features	Landscape and visual	Loss of hedgerows	Moderate - Major - / P / D / LT	No	No
Climate					
Climate	Climate	The operational carbon emissions stage from all Units (1-4) is	Minor - / P / D / LT	No	No

Receptor	Relevant factor	Impacts	Significance of residual effects	Potential for intra-project cumulative effects?	Taken through to Stage 2?
		estimated to be 13,083 tCO ₂ /year.			
		2.3% increase on the overall industrial and commercial emissions in the St. Helens Local Authority (2017)	Minor - / P / D / LT	No	No
		The operational transport emissions equate to 1,881 tCO ₂ e per annum for the opening year (2021), compared with 618 tCO ₂ e for the baseline case (204,19% increase to 2021 baseline)	Minor - / P / D / LT	No	No
		The operational transport emissions equate to 1,885 tCO ₂ e per annum for the forecast year (2036), compared with 623 tCO ₂ e for the baseline case (202.34% increase to 2036 baseline)	Minor - / P / D / LT	No	No
		0.36% increase on the overall total emissions in the St. Helens Local Authority (2017)	Minor - / P / D / LT	No	No



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