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Warrington Borough Council

Local Plan

Preferred Development Option

Regulation 18 Consultation

Standard Response Form

July 2017

2: Questions

Question 1

Do you have any comments to make about how we've worked out the need for new homes and employment land in Warrington over the next 20 years?

Do you have any comments to make about how we've worked out the number of homes and amount of employment land that can be accommodated within Warrington's existing built up areas?

Have we appropriately worked out the amount of land to be released from the Green Belt, including the amount of land to be 'safeguarded'?

Do you agree with the new Local Plan Objectives?

Do you have any comments to make about how we've assessed different 'Spatial Options' for Warrington's future development?

Do you have any comments to make about how we've assessed different options for the main development locations?

Do you agree with our Preferred Development Option for meeting Warrington's future development needs?

Do you have any comments to make about our Preferred Development Option for the City Centre?

Do you have any comments to make about our Preferred Development Option for the Wider Urban Area?

Do you have any comments to make about our Preferred Development Option for developing the Warrington Waterfront?

Do you have any comments to make about our Preferred Development Option for the Warrington Garden City Suburb?

Do you have any comments to make about our Preferred Development Option for the South Western Urban Extension?

Do you have any comments to make about our Preferred Development Option for development in the Outlying Settlements?

Do you agree with our approach to providing new employment land?

Do you agree with our suggested approach for dealing with Gypsy and Travellers and Travelling Showpeople sites?

Do you agree with our suggested approach for dealing with Minerals and Waste?

Having read the Preferred Development Option Document, is there anything else you feel we should include within the Local Plan?



29 September 2017

Warrington Borough Council Planning Policy and Programmes New Town House Buttermarket Street Warrington Cheshire WA1 2NH

16.1087Liii

Dear Sir / Madam

Representation on behalf of Stamford Property Holdings in response to the Local Plan Preferred Development Option Regulation 18 consultation

Introduction

This representation has been prepared by Paul Butler Associates on behalf of Stamford Property Holdings. The representation is submitted in response to the Local Plan Preferred Options Consultation and supporting evidence base.

The comments put forward in this representation support Stamford Property Holdings land interest for three sites adjacent to the existing settlement of Lymm. The sites known as 'land at Crouchley Lane', 'land at Longbutt Lane' and 'land at Stage Lane' are identified in Appendix 1.

The Council's Local Plan Preferred Options consultation does not specify individual sites within the outlying settlements (which includes Lymm) for allocation and release from the green belt. The allocation of sites has been reserved until the next consultation stage (submission version). To support the Council's consideration of the most appropriate sites for green belt release this representation is supported by a Development Brochure for each site which reflects on various technical studies carried out to date to present a framework vision for the sites going forward. The brochure draws upon the extensive survey and investigation work carried out to date to demonstrate to the Council that the sites are suitable for release from the green belt. The sites represent a deliverable source of housing land with no overriding constraints that would inhibit delivery.

Stamford Property Holdings are supportive of the Local Plan and its progression towards Submission. The remainder of this representation focuses on the aspects of the Local Plan which require greater consideration by the Council to ensure that the 'soundness' of the Plan is not undermined. The matters can be summarised as follows:

- Housing Requirement and Spatial Distribution
- Housing Delivery in the Outlying Settlements
- Green Belt Review Assessment

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Housing Requirement and Spatial Distribution

The Local Plan presents a total requirement of 24,220 new dwellings to be delivered over the plan period. This equates to 1,113 new homes per annum over the 20 year period. The overall employment land target for the borough over this period is 381 hectares. The Preferred Options identifies a total urban capacity of 15,429 new homes based on the evidence in the 2017 SHLAA. This leaves a further 8,791 homes to be provided from land that is currently in the green belt.

To cater for this identified need the Preferred Options endorses a strategic approach to land release which predominately focuses on a Garden City suburb capable of accommodating 6,000 new homes and an urban extension to the south west of Warrington of up to 2,000 new homes. The remaining requirement is then distributed within the outlying settlements. The settlement of Lymm is identified as being capable of accommodating 500 new homes on land currently within the green belt.

Stamford Property Holdings are supportive of the increase in the housing requirement from that identified in the Issues and Options consultation but consider that the identified housing requirement does not go far enough. The scale of economic growth identified is not aligned with previous economic growth of the borough which would suggest that an increase in housing provision is still desirable.

In terms of the spatial distribution of the required housing. The Preferred Option outlines a capacity of 15,429 within the urban area, this would require the majority of the identified sites within the 2017 Strategic Housing Land Availability Assessment coming forward during the plan period. The assumption that this level of delivery will be achieved is problematic. To achieve a 100% implementation of all these sites is optimistic, some sites will inevitably stall and fail to come forward. The government's housing white paper (DCLG February 2017) comments that more than a third of new homes that were granted planning permission between 2010/2011 and 2015/16 have yet to be built.

The Preferred Spatial Option also relies on a small number of large strategic sites to deliver a significant proportion of the identified housing need. Such large strategic sites typically are complex to deliver with significant infrastructure requirements which can slow down delivery rates. The reliance of a small number of large strategic sites means it is unrealistic that the required levels of growth will be delivered. The Council's evidence base for the Local Plan in the 2017 SHLAA examines that past delivery rates are significantly below the anticipated 1,113 new dwellings per annum required. In fact, completions has only exceeded 700 dwellings per annum on one occasion in the last ten years. A preferred approach to housing delivery which focuses on a few complex large sites is therefore unrealistic if the Council are to achieve their strategic aims.

The Call for Sites exercise identified significant capacity within the green belt to deliver the required amount of homes. Stamford Property Holdings would therefore urge the Council to consider identifying a larger proportion of housing at sustainable settlements such as Lymm in order to achieve flexibility within the delivery of the Plan. The sites at Crouchley Lane, Lonbutt Lane and Stage Lane are all sustainable and accessible sites which can make a valued contribution to housing delivery.

Housing Delivery in the Outlying Settlements

As evidenced above, a preferred approach which allocates only 500 dwellings to the settlement of Lymm is unlikely to support the long term housing needs of the borough. Furthermore in considering the sites to come forward for development, it is strongly recommended that a spatial focus on 3/4 + sites is employed rather that restricting growth by opting for one larger site. A spatial focus on a larger number of sites will allow a greater variety in choice to the local housing offer, create competition in the market and would assist with the Council achieving their five year housing supply targets. An alternative approach which focused on delivery through one large site represents a greater risk to housing delivery. As explained earlier in this representation, large sites are intrinsically more complex to deliver and the Council would be tied to working with one developer. Should development stall, this would curtail housing delivery and jeopardise the strategic aims of the Local Plan. An approach which focuses on just one larger development site will also offer little in terms of choice to the local housing market.

The sites presented by Stamford Property Holdings have an indicative capacity of 180 dwellings (land at Crouchley Lane), 180 dwellings (land at Longbutt Lane) and 16 dwellings (Stage Lane). The sites are within the ownership of one landowner and there are no technical constraints to development coming forward. The sites therefore represent a suitable and deliverable location for new development.

In terms of the consultation process, it is noted that the preferred options consultation does not present any substantial option for the outlying settlement rather it seeks to reserve the allocation of individual sites until the submission version of the Local Plan. This is typically the final version of the Plan which a Local Planning Authority seeks to submit for examination in public. To withhold the allocation of individual sites until this late in the consultation process allows limited scope for effective consultation and review, therefore undermining the transparency and soundness of the plan. We would therefore suggest that an additional stage of consultation is factored into the process prior to the submission version.

Green Belt Review Assessment

Presently the settlement of Lymm is inset from the green belt with the village settlement boundary following the line of the existing built form. The Local Plan Preferred Options is supported by a green belt review (ARUP, 2016) which identifies the site at Crouchley Lane as forming part of parcel LY23 and the site at Longbutt Lane forming part of parcel LY19. The Stage Lane site is identified under parcel LY15.

Paul Butler Associates (representations, 2016) previously commented on the conclusions made within the green belt review and offered a revised green belt assessment for the Crouchley Lane and Longbutt Lane sites which more accurately reflected the status of the site.

Crouchley Lane

Our assessment highlights that the parcel is adjacent to the existing settlement and bounded by strong physical features, including a main road and strong tree belt which provides a continual containment around the perimeter of the site. This would prevent any development within the parcel from encroaching beyond the parcel boundary into the open countryside in neighbouring

parcels, and hence if developed would be likely to have a minimal impact on the overall openness of the Green Belt. Since the previous representation, the land at Lymm rugby club has received planning permission for a major redevelopment which includes the provision of new homes in the green belt. This will have a significant impact on the assessment of this parcel reducing the contribution made under purpose 3 (to assist in safeguarding the countryside from encroachment). In terms of purpose 4 (to preserve the setting and special character of historic towns) the green belt review assessment adopts a generic approach whereby a site within 250 metres of a Conservation Area is deemed to make a strong contribution against this criteria. Defining 'setting' in heritage terms is much more complex than applying a figure and judging everything within the buffer in the same manner. Historic England have provided specific guidance on defining the setting of heritage assets (Planning Advice Note 3: The Setting of Heritage Assets), we would recommend that the setting of each site is reviewed on a case by case basis having regard to specialist advice. Paul Butler Associates (Planning and Heritage Consultants) have reviewed the setting of the designated heritage assets in proximity to the site and conclude that there would be no material impact on the setting of these assets. We therefore conclude that the site makes a weak contribution to the purposes of including land within the green belt. Further information in respect of the above can be found in the submitted Development Brochure, the previous 2016 representation is included in Appendix 2.

Land off Longbutt Lane

The site at Longbutt Lane is surrounded by built form on its western, southern and eastern boundaries. Our assessment (December, 2016) highlights that the surrounding built form results in the parcel having a limited degree of openness. The settlement of Lymm adjoins the parcel to the south and west and the built form of Lymm high School and residential properties on Oughtrington Lane adjoin to the east. Development within this parcel would infill this element of the settlement with negligible impact of the character and openness of the wider green belt and landscape. The supporting development brochure demonstrates how the site could be developed sensitively having regard to the surrounding context.

Land off Stage Lane

It is noted that the site is identified as making a weak contribution towards the purposes of including land within the green belt. We support the observations made in the green belt review in this respect.

Summary

Stamford Property Holdings submit that the sites at Crouchley Lane, Longbutt Lane and Stage Lane are suitable for release from the green belt within the next phase of the Local Plan consultation in order to meet the Councils objectively assessed housing need. This representation and the supporting development brochure demonstrates the suitability of the sites for new development concluding that there are no significant constraints to restrict development of the type identified coming forward in this location.

This representation also examines the Local Plan Preferred Option and highlights areas where further consideration is required in order to make the plan sound.

Stamford Property Holdings look forward to continued involvement within the Local Plan as the strategic options are developed.

Yours faithfully

C.C



Stamford Property Holdings

APPENDIX 1: SITE LOCATIONS



Land at Crouchley Lane



Land at Longbutt Lane



Land at Stage Lane

APPENDIX 2: PREVIOUS REPRESENTATIONS, DECEMBER 2016.

05 December 2016



Planning Policy Warrington Borough Council New Town House Buttermarket Street Warrington WA1 2NH

> 16.1087Li Sent by email 05 December 2016

Dear Sir / Madam

Call for Sites Nomination and Local Plan combined response: Land adjacent to Lymm Rugby Club, Lymm

I am writing on behalf of my client FH Cookson & Sons to nominate a site as part of the Local Plan Review Call for Sites exercise. This letter accompanies the completed 'Call for Sites Registration Form' dated 05 December 2016 and a Site Location Plan (Appendix A).

The nomination relates to an edge of settlement site forming land adjacent (west) to Lymm Rugby Club (grid ref Easting: 368316 Northing: 386625). The site is identified by the submitted Site Location Plan. The site is approximately 8 hectares in size and as part of this nomination, on behalf of my client FH Cookson & Sons, we suggest that the site could be used for new housing development. There are no significant constraints or designations affecting the future development of the site that could not be overcome during the design process. The site is considered to be a suitable location for residential development and could be achievable within 0-5 years.

The remainder of this letter examines the following to support our client's submission:

- The suitability of the site for removal from the green belt providing an assessment of the site and its performance against the five purposes of the green belt set out in paragraph 80 of the NPPF;
- An assessment of the site's performance against the sustainability appraisal objectives adopted by the Council as part of the Spatial Distribution and Site Assessment Process; and
- The deliverability of the site in the context of paragraph 47 of the National Planning Policy Framework.

Green Belt Removal

Warrington Borough Council (WBC) appointed ARUP Consultants to provide a review of green belt boundaries (Green Belt Assessment October 2016). Whilst the overall methodology and approach of the green belt review would appear to be in accordance with best practice, the area based and site specific conclusions reached in the assessment, which are based on professional judgement, do not in all cases, in our professional opinion adequately reflect the contribution of certain sites in green belt terms. This is explored further below.

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Our clients interest at land adjacent to Lymm Rugby Club is included in General Area 8 and part of parcel LY23.

General Area Results and Parcel Identification

The identification of the general area parcels within the report is considered inadequate. The area of Lymm and Rush Green should be subdivided into further parcels in order to reflect recognisable and permanent boundaries. Parcel 7 for instance covers an area between Lymm and Rush Green which is divided by the Bridgewater Canal. It is submitted that this is a permanent and distinguishable boundary which separates two distinctly different areas.

Similarly, Parcel 8 extends from the south eastern edge of Lymm west towards the M6 with the A56 as the northern boundary. This area is vast and is divided by the local wildlife site of Lymm Damm which runs north – south from the centre of Lymm. This is a permanent and recognisable feature within the landscape. The land east of the wildlife site displays greater attachment to Lymm and is not appreciated as part of the same parcel as land to the west towards the M6.

The process of parcel identification is therefore not considered to be an appropriate basis for analysis and therefore undermines the subsequent assessment from the outset.

Performance of Parcel LY23 against green belt purposes

The Green Belt Assessment at Appendix G examines the contribution of smaller parcels of land against the five purposes of including land within the green belt. Parcel LY23 is identified within this assessment as having a moderate contribution.

We have reviewed this assessment and provide our own judgement, please refer to Appendix B.

Our assessment highlights that the parcel is adjacent to the existing settlement and bounded by strong physical features, including a main road and strong tree belt which provides a continual containment around the perimeter of the site. This would prevent any development within the parcel from encroaching beyond the parcel boundary into the open countryside in neighbouring parcels, and hence if developed would be likely to have a minimal impact on the overall openness of the Green Belt. We therefore conclude that the site makes a weak contribution to the purposes of including land within the green belt.

The site is also within a sustainable location in close proximity to local services and facilities in the town of Lymm.

Performance of the Site against Sustainability Appraisal Objectives

The Local Plan Scope and Content consultation establishes that the removal of land from the green belt will be required in order for the Council to deliver their objectively assessed housing requirement. Appendix 2 of the consultation document sets out WBC's site selection methodology. The green belt assessment is one part of this process, potential development sites will also need to be considered in terms of their performance against certain Sustainability Appraisal / Strategic Environmental Assessment objectives. These objectives are outlined in the SA Scoping Report which forms part of the consultation evidence base. The Scoping Report at

Appendix A provides a draft Site Appraisal Framework which the Council will use to consider the site's performance against key sustainability indicators.

Utilising this site appraisal framework, we provide an assessment of the site's performance against these key indicators. This is included at Appendix C to this letter.

The appraisal demonstrates that the site offers a sustainable and accessible location for new housing development. The site is approximately 1000metres from the centre of Lymm and benefits from good access to public transport infrastructure and local schools.

Where the appraisal identifies potential environmental effects it is considered that these can be mitigated as part of the design process and are not considered to be significant in terms of their magnitude. Our client would be happy to work with the Council and undertake further assessment work in relation to certain environmental issues if this is of assistance to the Council as part of the plan making process.

Delivery

The National Planning Policy Framework requires that to be considered deliverable, sites should be available now, offer a suitable location for development now, and be achievable with a realistic prospect that housing will be delivered on the site within five years and in particular that development of the site is viable (*NPPF para 47, footnote 11*).

As evidenced in this submission, the site is available now offering a suitable location for new development. The site is considered to be a viable and realistic proposition that will make a significant contribution to housing delivery over the plan period. There are also no known constraints that would affect delivery of housing commencing on site within 5 years.

Summary

In order for WBC to meet its objectively assessed housing need it is evident that sites will need to be removed from the green belt. The site adjacent to Lymm Rugby Club offers an attractive site for green belt removal due to its natural containment. The site is also highly sustainable and accessible and will allow direct access on foot for new residents to local schools and the town centre.

We trust that our comments will be taken on board during the site assessment process for the preferred options stage of the Local Plan. We would be happy to discuss the delivery of the site further with the Council if this is of assistance.

Yours faithfully



Appendix A: Land adjacent to Lymm Rugby Club: Site Location Plan



Appendix B: Land adjacent to Lymm Rugby Club: Green Belt Assessment

LY23 Parcel Assessment

Ref	Purpose 1: to check the unrestricted sprawl of large built up areas	Purpose 2: to prevent neighbouring towns merging into one another.	Purpose 3: to assist in safeguarding the countryside from encroachment	Purpose 4: to preserve the setting and special character of historic towns	Purpose 5: to assist in urban regeneration, by encouraging the recycling of derelict and other urban land	Justification for Assessment	Overall Assessment
LY23	No contribution: The parcel is not adjacent to the Warrington urban area and therefore does not contribute to this purpose.	No contribution: The parcel does not contribute to preventing towns from merging.	Weak contribution: The parcel is connected to the settlement on its eastern boundary and is well contained on the western and southern perimeters by a substantial tree belt which limits the degree of openness experienced. The durable boundaries of this parcel would ensure no encroachment into the countryside should this parcel be developed.	Moderate contribution: Lymm is a historic town. Whilst the site is not within the conservation area it is adjacent to it. Development on this site however could be brought forward without any material harm on the character and appearance of the conservation area.	Moderate contribution: The Mid Mersey Housing Market Area has 2.08% brownfield urban capacity for potential development, therefore the parcel makes a moderate contribution to this purpose.	The parcel makes a weak contribution to one purpose, a moderate contribution to two and no contribution to two. Development within this parcel would be well contained having a minimal impact on the overall openness of the green belt.	Weak contribution

Appendix C: Land adjacent to Lymm Rugby Club: SA Objectives Appraisal

Land adjacent to Lymm Rugby Club, Lymm: SA Site Appraisal Framework

The appraisal utilising the following desk top data sources: Magic map; EA flood maps and ground water protection maps; Historic England list, Warrington Borough Council SA Scoping Reports (figure 3.6, 3.7, 3.9, 3.11).

A neutral effect option has been introduced into the assessment in order to realise the role that mitigation can play in the assessment process.

SA Objectives	Criteria	Likely Effect (Significant Positive / Positive / Neutral/ Negative / Significant Negative)	Comments
Economy and Regeneration			
Strengthen the local economy and ensure sustainable economic	EC1: Would site development lead to the loss of employment land?	Positive	The site is not allocated for employment use at present.
growth	EC2: Distance to Principal Road Network by vehicle	Significant Positive	The site is less than 1 mile from the principal road network.
Reduce poverty, deprivation and social exclusion and secure economic inclusion	educe poverty, deprivation and EC3: How close is the site to key employment sites?		Significant employment opportunities within 1.2km – 3km from the site.
Health and Wellbeing			
Enable groups to contribute to decision making and encourage a sense of community identity and welfare.	HW2: Is the area supported by community facilities? (Village halls, places of worship, community centre)	Positive	Facilities in Lymm town centre are within 1200m.
Provide, protect or enhance leisure opportunities, recreation facilities, green infrastructure and access to the countryside.	 HW3: Access to local natural green space (ANGST). To what extent do the sites meet the following ANGST standards? 1. Natural greenspace at least 2 hectares in size, no more than 300 metres from home. 2. At least one accessible 20 hectare greenspace site within two kilometre of home. 	Positive	Standard met. Natural greenspace at Lymm Damm is adjacent to the site and easily accessible on foot.
	HW4: Access to formal play	Significant positive	Site will be capable of supporting the provision of onsite facilities.

SA Objectives	Criteria	Likely Effect (Significant Positive / Positive / Neutral/ Negative / Significant Negative)	Comments
Accessibility			
Reduce the need to travel, especially by car, improve choice and the use of more sustainable	ACC1: How accessible is the site to the nearest primary school on foot? ACC2: How accessible is the site to	Positive Positive	Ravenbank Community Primary School is 1000 metres from the site. Lymm High School is 1400 metres from the site.
modes.	the nearest secondary school?		
Protect and enhance accessibility	ACC3: How well served is the site by a bus service?	Significant positive	Regular bus services frequent the A56 which is less than 400 metres from the site.
for all the essential services and facilities.	ACC4: How accessible is the site to the nearest train station?	Significant negative	Nearest train stations are over 5 km from the site however the accessibility of the site to local education facilities, bus services and services and facilities within Lymm town centre compensates for this likely effect.
	ACC5: What is the overall distance to a GP service or health centre?	Significant positive	The Brookfield Surgery is approximately 1100 metres from the site.
Ensure access to good quality, sustainable affordable housing.HO1: To what extent will development help to meet housing needs? Deliverability and scale		Significant positive	Site is available for development within the next 5 years.
Natural Resources			
Ensure the sustainable and prudent use and management of	NR1: What are the potential impacts on air quality?	Positive	The development is more than 1km from the AQMA associated with the M6.
natural resources including the promotion of natural resources including the promotion of sustainable drainage and water	NR2: Could development of the site lead to the remediation of land potentially affected by contamination?	Significant positive	Whilst residential use would comprise a sensitive end use. The site is not thought to be contaminated given the limited historic use of the site, any contaminants present on site could be successfully mitigated through a remediation scheme.
conservation. Protect, manage and improve local	NR3: Would allocation of the site result in the loss of High Quality Agricultural Land?	Positive	Site contains less than 10 hectares of agricultural land 1-3.
environmental quality including land, air and controlled waters and reduce the risk of flooding.	NR4: Does the site fall within a Groundwater Source Protection Zone, as identified by the environment agency?	Neutral	Part of the site falls within the outer zone 2. Whilst the appraisal indicators state this to be a negative effect this is in fact neutral. Protection measures can be incorporated into the scheme design

SA Objectives	Criteria NR5: Is the site (or part of) within an identified flood zone?	Likely Effect (Significant Positive / Positive / Neutral/ Negative / Significant Negative) Positive	Comments to control surface water runoff into the ground. PBA have experience of this type of mitigation in other schemes. Site is within flood zone 1.
	RU3: Is there potential for safeguarded or identified mineral reserves to be sterilised?	Positive	No effects anticipated - the site is not known to be within an identified area.
Built and natural heritage			
Protect and enhance places and buildings of historic cultural and archaeological value.	BNH1: Proximity to designated heritage assets: Conservation Areas Nationally listed buildings Scheduled Ancient Monuments Registered Park or Garden	Neutral	There are two grade II listed buildings immediately north of the site: Rivington cottage and the Church of St Mary the Virgin. A qualitative assessment such as a heritage statement will be submitted with any planning application submitted for the site. Identification and consideration of heritage issues from the outset of the masterplanning process in tandem with early and effective consultation with statutory and non-statutory bodies will ensure that no material harm to designated heritage assets will arise from development of the site.
	BNH2: Effects upon the significance and setting of heritage assets / the historic environment	Neutral	Through a sensitive design and materplanning process which considers the impact on heritage assets from the outset it is considered that the historic environment is unlikely to change from its baseline position.
Protect and improve the quality and character of places, landscapes, townscapes, and wider countryside whilst maintaining and strengthening local distinctiveness and sense of place.	BNH4: Capacity of the landscape to accommodate development, while respecting its character	Positive	Medium capacity. To be confirmed through landscape character assessment.

SA Objectives	Criteria	Likely Effect (Significant Positive / Positive / Neutral/ Negative / Significant Negative)	Comments
Biodiversity and Geodiversity			
Protect and enhance biodiversity and geodiversity	BG1: Could allocation of the site have a potential impact on a European Site SSSI, SPA or SAC	Positive	Outside catchment areas.
	BG1: Could allocation of the site have a potential impact on a SSSI	Positive	Over 400 metres from a SSSI.
	BG2: Could allocation of the site have a potential adverse impact on designated Local Wildlife Sites, Local Nature Reserve, RIGs, Potential Wildlife Sites or any other site of wildlife or geodiversity value such as Ancient Woodland (including where BAP species have been recorded.	Neutral	Adjacent to a local wildlife site (Lymm Damm). Phase 1 Extended Habitat Survey will inform masterplanning process and process of mitigation / offsetting (where relevant).
	BG3: What is the potential impact on TPOs.	Positive	Higher quality trees will be retained where possible. Significant new tree planting would be included within the scheme design.
Climate change and resource use			
Minimise waste and maximise reuse, recovery and recycling	RU1: Would allocation of the site result in the use of previously developed land?	Neutral	Site is predominantly greenfield. The objectively assessed need for Warrington states that the release of greenfield land will be necessary in order for Warrington to deliver the levels of housing required.
	RU2: Is there good access to a Household Waste Recycling Centre (HWRC)?	Positive	Woolston Recycling Centre and Stockton Heath Recycling Centre are both less than 10km from the site.

05 December 2016



Planning Policy Warrington Borough Council New Town House Buttermarket Street Warrington WA1 2NH

> 16.1088Li Sent by email 05 December 2016

Dear Sir / Madam

Call for Sites Nomination and Local Plan combined response: Land north of Longbutt Lane, Lymm

I am writing on behalf of my client FH Cookson & Sons to nominate a site as part of the Local Plan Review Call for Sites exercise. This letter accompanies the completed 'Call for Sites Registration Form' dated 05 December 2016 and a Site Location Plan (Appendix A).

The nomination relates to the site north of Longbutt Lane (grid ref Easting: 369231 Northing: 386998) which is identified by the submitted Site Location Plan. The site is approximately 10 hectares in size and as part of this nomination, on behalf of my client FH Cookson & Sons, we suggest that the site could be used for new housing development. There are no significant constraints or designations affecting the future development of the site for residential use and it is considered that such a development would be achievable within 0-5 years.

The remainder of this letter examines the following to support our client's submission:

- The suitability of the site for removal from the green belt providing an assessment of the site and its performance against the five purposes of the green belt set out in paragraph 80 of the NPPF;
- An assessment of the site's performance against the sustainability appraisal objectives adopted by the Council as part of the Spatial Distribution and Site Assessment Process; and
- The deliverability of the site in the context of paragraph 47 of the National Planning Policy Framework.

Green Belt Removal

Warrington Borough Council (WBC) appointed ARUP Consultants to provide a review of green belt boundaries (Green Belt Assessment October 2016). Whilst the overall methodology and approach of the green belt review would appear to be in accordance with best practice, the area based and site specific conclusions reached in the assessment, which are based on professional judgement, do not in all cases, in our professional opinion adequately reflect the contribution of certain sites in green belt terms. This is explored further below.

Our clients interest at land to the north of Longbutt Lane is included in General Area 7 and specifically parcel LY19.

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General Area Results and Parcel Identification

The identification of the general area parcels within the report is considered inadequate. The area of Lymm and Rush Green should be subdivided into further parcels in order to reflect recognisable and permanent boundaries. Parcel 7 for instance covers an area between Lymm and Rush Green which is divided by the Bridgewater Canal. It is submitted that this is a permanent and distinguishable boundary which separates two distinctly different areas.

Similarly, Parcel 8 extends from the south eastern edge of Lymm west towards the M6 with the A56 as the northern boundary. This area is vast and is divided by the local wildlife site of Lymm Damm which runs north – south from the centre of Lymm. This is a permanent and recognisable feature within the landscape. The land east of the wildlife site displays greater attachment to Lymm and is not appreciated as part of the same parcel as land to the east towards the M6.

The process of parcel identification is therefore not considered to be an appropriate basis for analysis and therefore undermines the subsequent assessment from the outset.

Performance of Parcel LY19 against green belt purposes

The Green Belt Assessment at Appendix G examines the contribution of smaller parcels of land against the five purposes of including land within the green belt. Parcel LY19 is identified within this assessment as having a strong contribution.

We have reviewed this assessment and provide our own judgement below. Firstly we consider that this parcel boundary should be updated to reflect the call for sites submission which promotes the southern part of this land only. Please see attached location plan at Appendix A. Straight away it is evident that this new parcel is joined to surrounding built form on its western, southern and eastern boundaries. We have provided a revised assessment of this parcel in Appendix B, this concludes that the parcel makes a weak contribution to the purposes of including land within the green belt as defined by the NPPF.

The assessment highlights that the surrounding built form results in the parcel having a limited degree of openness. The settlement of Lymm adjoins the parcel to the south and west and the built form of Lymm High School and residential properties on Oughtrington Lane adjoins to the east. It is submitted that development within this parcel would effectively amount to infill development with negligible impact on the character and openness of the wider green belt. The masterplanning and design process would also allow for the durability of the northern boundary to be strengthened through the provision (for example) of a public footpath to complement the existing PROW and new tree and hedgerow planting.

As will be explored further in the following section, the location of the site adjacent to an existing High School and within 100 metres (on the north western boundary) of Ravenbank Primary School offers a highly accessible location for new development. This accessibility could be enhanced by the provision of a footpath on the northern boundary to strengthen connections with the existing settlement, linking through to Sutch Lane.

Performance of the Site against Sustainability Appraisal Objectives

The Local Plan Scope and Content consultation establishes that the removal of land from the green belt will be required in order for the Council to deliver their objectively assessed housing requirement. Appendix 2 of the consultation document sets out WBC's site selection methodology. The green belt assessment is one part of this process, potential development sites will also need to be considered in terms of their performance against certain Sustainability Appraisal / Strategic Environmental Assessment objectives. These objectives are outlined in the SA Scoping Report which forms part of the consultation evidence base. The Scoping Report at Appendix A provides a draft Site Appraisal Framework which the Council will use to consider the site's performance against key sustainability indicators.

Utilising this site appraisal framework, we provide an assessment of the site's performance against these key indicators. This is included at Appendix C to this letter.

The appraisal demonstrates that the site offers a sustainable and highly accessible location for new housing development. The site occupies a unique position between Lymm High School and Ravenbank Primary School, furthermore the site is approximately 1000metres from the centre of Lymm and benefits from good access to public transport infrastructure.

Where the appraisal identifies potential environmental effects it is considered that these can be mitigated as part of the design process and are not considered to be significant in terms of their magnitude. Our client would be happy to work with the Council and undertake further assessment work in relation to certain environmental issues if this is of assistance to the Council as part of the plan making process. Our client also recognises the valuable role this site could play in supporting local school expansion alongside new, much needed residential development and would be willing to discuss such a development option further with the Council.

Delivery

The National Planning Policy Framework requires that to be considered deliverable, sites should be available now, offer a suitable location for development now, and be achievable with a realistic prospect that housing will be delivered on the site within five years and in particular that development of the site is viable (*NPPF para 47, footnote 11*).

As evidenced in this submission, the site is available now offering a suitable location for new development. The site is considered to be a viable and realistic proposition that will make a significant contribution to housing delivery over the plan period. There are also no known constraints that would affect delivery of housing commencing on site within 5 years.

Summary

In order for WBC to meet its objectively assessed housing need it is evident that sites will need to be removed from the green belt. The site at Longbutt Lane offers an attractive site for green belt removal due to its containment by built form on the west, south and east. Development here would amount to infill development rounding off the settlement of Lymm. The site is also highly sustainable and accessible and will allow direct access on foot for new residents to local schools and the town centre. Should the expansion of the primary school be desirable on our clients land alongside new residential development, this would be an option that our client would be open to considering further as part of the plan making process. It is our view that such an arrangement would amount to very special circumstances to support green belt release.

We trust that our comments will be taken on board during the site assessment process for the preferred options stage of the Local Plan. We would be happy to discuss the delivery of the site further with the Council if this is of assistance.

Yours faithfully



Senior Planner

Appendix A: Land north of Longbutt Lane: Site Location Plan



Appendix B: Land north of Longbutt Lane: Green Belt Assessment

Revised LY19 Parcel Assessment

Ref	Purpose 1: to check the unrestricted sprawl of large built up areas	Purpose 2: to prevent neighbouring towns merging into one another.	Purpose 3: to assist in safeguarding the countryside from encroachment	Purpose 4: to preserve the setting and special character of historic towns	Purpose 5: to assist in urban regeneration, by encouraging the recycling of derelict and other urban land	Justification for Assessment	Overall Assessment
LY19 (revised)	No contribution: The parcel is not adjacent to the Warrington urban area and therefore does not contribute to this purpose.	No contribution: The parcel does not contribute to preventing towns from merging.	Weak contribution: The parcel is connected to the settlement on its southern and western boundaries. The parcel is connected to built form on its eastern boundaries (in addition to the southern and western boundaries). The parcel is therefore relatively contained. Development in this parcel would help 'round off' the settlement. It is considered that the parcel has a limited/ weak degree of openness – whereby the removal of the parcel from the green belt would not impact upon the overall openness of the green belt.	No contribution: Lymm is a historic town however the parcel is not within 250 metre of its Conservation Area. The parcel does not cross an important viewpoint of the Parish Council.	Moderate contribution: The Mid Mersey Housing Market Area has 2.08% brownfield urban capacity for potential development, therefore the parcel makes a moderate contribution to this purpose.	The parcel makes a weak contribution to one purpose, a moderate contribution to one and no contribution to three. Development within this parcel would effectively be infill development which would be well contained by the existing landscape.	Weak contribution

Appendix C: Land north of Longbutt Lane: SA Objectives Appraisal

Land north of Longbutt Lane, Lymm:SA Site Appraisal Framework

The appraisal utilising the following desk top data sources: Magic map; EA flood maps and ground water protection maps; Historic England list, Warrington Borough Council SA Scoping Reports (figure 3.6, 3.7, 3.9, 3.11).

A neutral effect option has been introduced into the assessment in order to realise the role that mitigation can play in the assessment process.

SA Objectives	Criteria	Likely Effect (Significant Positive / Positive / Neutral/ Negative / Significant Negative)	Comments
Economy and Regeneration			
Strengthen the local economy and ensure sustainable economic	EC1: Would site development lead to the loss of employment land?	Positive	The site is not allocated for employment use at present.
growth	EC2: Distance to Principal Road Network by vehicle	Significant Positive	The site is less than 1 mile from the principal road network.
Reduce poverty, deprivation and social exclusion and secure economic inclusion	cial exclusion and secure employment sites?		Significant employment opportunities within 1.2km – 3km from the site.
Health and Wellbeing			
Enable groups to contribute to decision making and encourage a sense of community identity and welfare.	HW2: Is the area supported by community facilities? (Village halls, places of worship, community centre)	Positive	Community facilities can be found adjacent to the site (place of worship, schools). Facilities within Lymm town centre are also within 1200m.
Provide, protect or enhance leisure opportunities, recreation facilities, green infrastructure and access to the countryside.	 HW3: Access to local natural green space (ANGST). To what extent do the sites meet the following ANGST standards? 1. Natural greenspace at least 2 hectares in size, no more than 300 metres from home. 2. At least one accessible 20 hectare greenspace site within two kilometre of home. 	Positive	Standard met. Natural greenspace at Spud Wood is within 300 metres. Lymm Damm is slightly further (400 metre approx).
	HW4: Access to formal play	Significant positive	Site will be capable of supporting the provision of onsite facilities.

SA Objectives	Criteria	Likely Effect (Significant Positive / Positive / Neutral/ Negative / Significant Negative)	Comments
Accessibility			
Reduce the need to travel, especially by car, improve choice and the use of more sustainable	ACC1: How accessible is the site to the nearest primary school on foot?	Significant positive	Site is within 400metres of Ravenbank Community Primary School. Opportunities exist to increase connectivity to this school.
modes.	ACC2: How accessible is the site to the nearest secondary school?	Significant positive	Lymm High School is adjacent to the site to the east.
Protect and enhance accessibility for all the essential services and	ACC3: How well served is the site by a bus service?	Significant positive	Regular bus services frequent the A56 which is less than 400 metres from the site.
facilities.	ACC4: How accessible is the site to the nearest train station?	Significant negative	Nearest train stations are over 5 km from the site however the excellent accessibility of the site to local education facilities, bus services and services and facilities within Lymm town centre compensates for this likely effect.
	ACC5: What is the overall distance to a GP service or health centre?	Significant positive	The Brookfield Surgery is approximately 1100 metres from the site. Connectivity to the town centre could also be increased as part of the proposals this would be informed by an accessibility audit.
Ensure access to good quality, sustainable affordable housing.	HO1: To what extent will development help to meet housing needs? Deliverability and scale	Significant positive	Site is available for development within the next 5 years.
Natural Resources			
Ensure the sustainable and prudent use and management of	NR1: What are the potential impacts on air quality?	Positive	The development is more than 1km from the AQMA associated with the M6.
natural resources including the promotion of natural resources including the promotion of sustainable drainage and water	NR2: Could development of the site lead to the remediation of land potentially affected by contamination?	Significant positive	Whilst residential use would comprise a sensitive end use. The site is not thought to be contaminated given the limited historic use of the site, any contaminants present on site could be successfully mitigated through a remediation scheme.
conservation.	NR3: Would allocation of the site result in the loss of High Quality Agricultural Land?	Positive	Site contains less than 10 hectares of agricultural land 1-3.

SA Objectives	Criteria	Likely Effect (Significant Positive / Positive / Neutral/ Negative / Significant Negative)	Comments
Protect, manage and improve local environmental quality including land, air and controlled waters and reduce the risk of flooding.	NR4: Does the site fall within a Groundwater Source Protection Zone, as identified by the environment agency?	Neutral	The site falls within the zone 3 catchment area. Whilst the appraisal indicators state this to be a negative effect this is in fact neutral. Protection measures can be incorporated into the scheme design to control surface water runoff into the ground. PBA have experience of this type of mitigation in other schemes.
	NR5: Is the site (or part of) within an identified flood zone?	Positive	Site is within flood zone 1.
	RU3: Is there potential for safeguarded or identified mineral reserves to be sterilised?	Positive	No effects anticipated - the site is not known to be within an identified area.
Built and natural heritage			
Protect and enhance places and buildings of historic cultural and archaeological value.	BNH1: Proximity to designated heritage assets: Conservation Areas Nationally listed buildings Scheduled Ancient Monuments Registered Park or Garden	Neutral	There are three grade II listed buildings associated with the church and school, east of the site. A qualitative assessment such as a heritage statement will be submitted with any planning application submitted for the site. Identification and consideration of heritage issues from the outset of the masterplanning process in tandem with early and effective consultation with statutory and non-statutory bodies will ensure that no material harm to designated heritage assets will arise from development of the site.
	BNH2: Effects upon the significance and setting of heritage assets / the historic environment	Neutral	Through a sensitive design and materplanning process which considers the impact on heritage assets from the outset it is considered that the historic environment is unlikely to change from its baseline position.
Protect and improve the quality and character of places, landscapes, townscapes, and wider countryside whilst maintaining and strengthening local distinctiveness and sense of place.	BNH4: Capacity of the landscape to accommodate development, while respecting its character	Positive	Medium capacity. To be confirmed through landscape character assessment.

SA Objectives	Criteria	Likely Effect (Significant Positive / Positive / Neutral/ Negative / Significant Negative)	Comments
Biodiversity and Geodiversity			
Protect and enhance biodiversity and geodiversity	BG1: Could allocation of the site have a potential impact on a European Site SSSI, SPA or SAC	Positive	Outside catchment areas.
	BG1: Could allocation of the site have a potential impact on a SSSI	Positive	Over 400 metres from a SSSI.
	BG2: Could allocation of the site have a potential adverse impact on designated Local Wildlife Sites, Local Nature Reserve, RIGs, Potential Wildlife Sites or any other site of wildlife or geodiversity value such as Ancient Woodland (including where BAP species have been recorded.	Positive	Sufficient distance from designated sites. Phase 1 Extended Habitat Survey will inform masterplanning process and process of mitigation / offsetting (where relevant).
	BG3: What is the potential impact on TPOs.	Positive	Minimal amount of trees within site, higher quality trees will be retained where possible. Significant new tree planting would be included within the scheme design.
Climate change and resource use	1	T	1
Minimise waste and maximise reuse, recovery and recycling	RU1: Would allocation of the site result in the use of previously developed land?	Neutral	Site is predominantly greenfield. The objectively assessed need for Warrington states that the release of greenfield land will be necessary in order for Warrington to deliver the levels of housing required.
	RU2: Is there good access to a Household Waste Recycling Centre (HWRC)?	Positive	Woolston Recycling Centre and Stockton Heath Recycling Centre are both less than 10km from the site.

LAND OFF CROUCHLEY LANE, LYMM DEVELOPMENT STATEMENT

SEPTEMBER 2017

STAMFORD PROPERTY HOLDINGS

INTRODUCTION & CONTENTS

The land at Crouchley Lane was submitted to Warrington Borough Council (WBC) in December 2016 in response to WBC's call for sites exercise. The submission by Paul Butler Associates the site at Chrouchley Lane as suitable for release from the green belt and a highly sustainable location for new housing.

This document (produced on behalf of Stamford Property Holdings) demonstrates its suitability through meeting each of the requirements as outlined within Warrington Borough Council Local Plan "Preferred Development Option Regulation 18" for the green belt release of the land at Longbutt Lane to accommodate a new state of the art primary care facility, new pedestrian links, open recreational space and the delivery of new high quality family housing all in support of WBC strategic aims for "Outlying Settlements" green belt release.

The content supports Warrington Borough Council Local Plan, Preferred Development Option 18 consultation July 2017 Publication. With reference to, Preferred Development Option 2, Local Plan Strategic Objectives, High Level Spatial Options Assessment, Overall Approach, Outlying Settlements – Indicative Green Belt Capacity, Preferred Development Option & Next Steps. It sets out a vision for a new, sustainable neighbourhood of choice supporting the long term development needs of Lymm in line with WBC Preferred Development Options and has been informed by a suite of technical studies & reports carried out by the professional team noted. Each study/report can be found at appendices 1-6.

The document has been produced in collaboration with:

- Paul Butler Associates Planning and Heritage Consultants
- Ollier Smurthwaite Architects
- Curtins Transport Planning
- Civic Engineers
- Urban Green Environmental Consultants
- Watt Consulting Engineers

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HOUSING NEED POLICY REVIEW

National Policy

The National Planning Policy Framework (NPPF) sets out the purpose of the planning system is to contribute to the achievement of sustainable development. At the heart of the NPPF is the presumption in favour of sustainable development and it sets out how local authorities should seek to boost the supply of housing by identifying a supply

Warrington Borough Council Local Plan Review – Preferred Development Option Regulation 18 Consultation July 2017

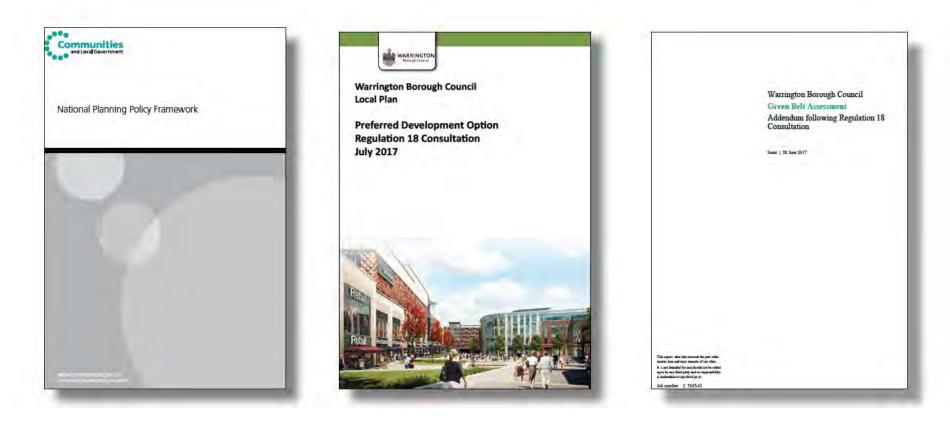
The draft Local Plan review contains strategic policies to guide the development of the Borough up to 2037. It sets out a spatial vision and objectives as well as strategic development targets, including a total requirement to deliver 24,220 dwellings over the plan period.

The existing urban area has the capacity to accommodate 15,429 new dwellings. In order to deliver the shortfall of housing it is necessary for Warrington to review its green belt boundaries to accommodate projected future housing growth. The preferred options include an need for 8,791 new homes to be built within the green belt over the plan period.

The preferred development option focusses on three strategic areas of growth: Waterfront (4,032), SW Extension (1,831 dwellings) and Garden City Suburb (7,274 dwellings).

The village of Lymm is as an outlying settlement within the Preferred Development Option. Under the incremental growth scenario a potential capacity of 500 new dwellings

The site at Crouchley Lane represents a deliverable and viable option for green belt release. This development brochure demonstrates in accordance with paragraph 47 of the NPPF that the site is available now, offers a suitable location for development and is achievable with development capable of coming forward within the years of the plan period.

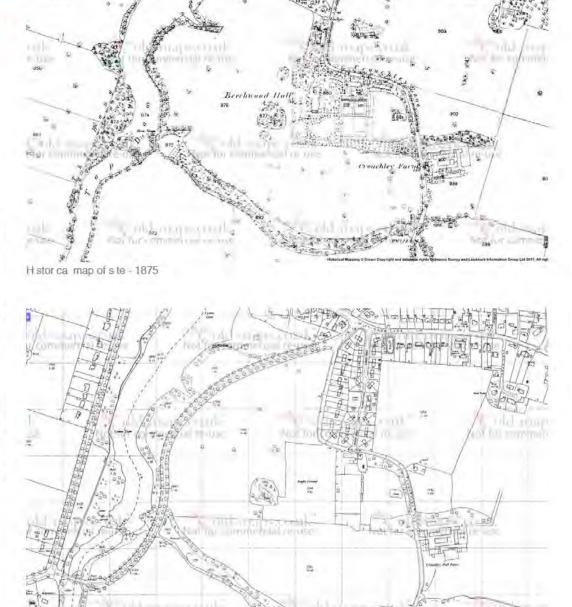


SITE HISTORY

Lymm Dam and Beechwood Estate

Adjacent to the site is Lymm Dam, which was formed in response to transportation needs. At the time, the area it was constructed on was part of the Lymm Hall Estate which also owned much of the village. In 1848, the estate was divided into plots and several were sold off including what is now Lymm Dam, Lymm Rugby Club and the area of land between. The section of the estate Lymm Dam was located on was bought by a local solicitor called Thomas Ridgeway. Ridgeway built 'a large opulent manor house' at the site, now where Lymm Rugby Club is located on Crouchley Lane. He lived in the house and the estate which were known as 'Beechwood' for 20 years before he sold the estate to a Cotton Trader from Manchester called George Dewhurst. Dewhurst was a considerably influential figure in the Victorian village of Lymm . He and his family lived on the Beechwood estate until the end of the 19th Century.

According to historical maps, the manor house was demolished in the 1950s but some of aspects of the estate are still present today. What are today Lymm Rugby Club's changing rooms were once the old stables, and the wall that runs alongside the main rugby pitch was part of the horses' exercise paddock. A feature that is still present today is the stone archway along Crouchley Lane, which was the entrance to the estate. In addition, the Wishing Bridge round Lymm Dam and the small boat house are remnants of Dewhurst's contribution to the area.



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H stor ca map of s te - 1968

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H stor ca photo of Beechwood Manor



H stor ca photo of the front of Beechwood Manor



The ex st ng archway nto what wou d have been the entrance to the estate.

SITE & SURROUNDINGS

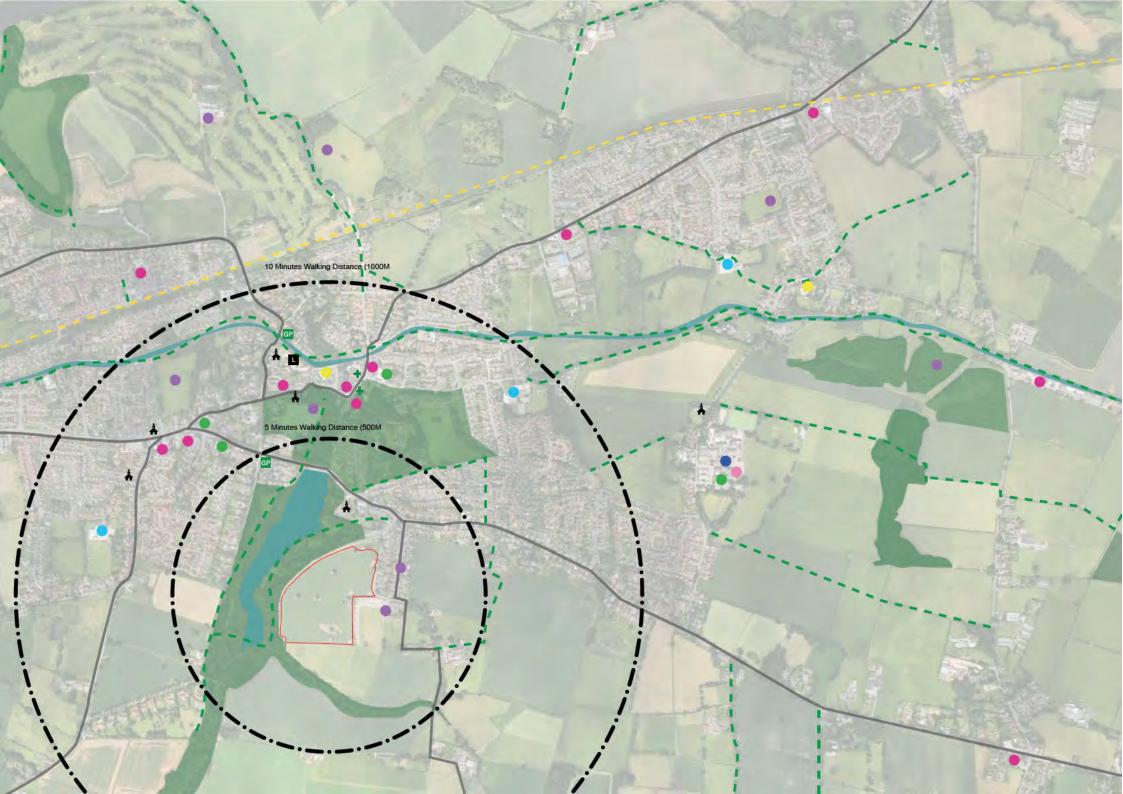
The site is located on the southern side of Lymm on land to the west of Crouchley Lane. The site measures approximately 8 hectares in size and is located approximately 600 metres (10-minute walk) from Lymm village centre. Properties on Crouchley Lane sit adjacent to the eastern boundary of the site along with the rugby club and squash club south of Crouchley Lane. The southern boundary is bordered by sports pitches at the rugby club whilst the western extent of the site forms the dense tree lined boundary to Lymm Dam.

On the eastern side of Crouchley Lane is the established residential area of Lymm, the site benefits from an excellent location in close proximity to local sports facilities, schools, pubs, restaurants and other town centre facilities in the centre of Lymm. The site is surrounded by good pedestrian footways and cycle links enabling ease of access to surrounding locations. A public right of way also runs alongside the western boundary of the site providing a well-used and attractive leisure route around the eastern side of Lymm Dam.

The following maps shows the proximity of local services and facilities to the site.







SUITABILITY OF THE SITE FOR DEVELOPMENT

Site Analysis

A number of technical studies have been undertaken to assess the site and its immediate surroundings in order to demonstrate that the site is capable of being developed and providing a valued contribution to Warrington's housing land supply. Our key are as follows and are supported by the technical reports in the appendices.

Utilities

The site is well located in location to existing water utility infrastructure, consultation with utility providers at the design stage will capacity within the local network however gas mains, water supply mains, BT LV electric mains and Virgin cable are all present below Crouchley Lane to the east of the proposed development site. No existing services are within or cross the development site boundary.

Flood Risk and Drainage

The site is located within zone 1 and is therefore not at risk of Surface water run-off will be managed on site to ensure that the risk of is not increased elsewhere. It is proposed to discharge surface water run-off from the site to the watercourses to the south and / or west of the site subject to agreement from the Environment Agency with the remaining run off into the combined sewer. Any new connection to the public sewer would be subject to agreement with United Utilities.

Foul drainage can be discharged to the combined sewer east of the site. The route and point of connection will be subject to agreement with United Utilities.

Groundwater: a small part of the site is located within the catchment of a groundwater protection zone. This issue can be adequately managed through the detailed design of the drainage system.

Ecology

The majority of the site is mown arable containing scattered mature oak trees. The arable provide a poor diversity of habitats, while the fringe habitats are common and widespread in the area. A licensed ecologist (Urban Green) has undertaken a site walkover. A full suite of surveys for protected species will need to accompany any planning application in the future. However, it is not anticipated that there are any issues which cannot be adequately mitigated for through the design process.

Opportunities exist to retain existing trees and hedgerows on the site and provide new areas for wildlife enhancement. Any development on the site is unlikely to impact on statutory wildlife sites which are within 5km of the settlement of Lymm.

Trees (refer to Appendix 06)

A preliminary arboricultural assessment (Urban Green, 2017) has been undertaken to assess the potential for trees on site to the development masterplan. It is recognised that the majority of trees on site are protected by the Beechwood Hall Estate

Tree Preservation Order. The scattered location of the trees across the site represents an opportunity for the development layout to comfortably accommodate and retain the majority of the tree.

Ground Conditions (refer to Appendix 03)

No ground contamination issues are associated with the site. Subject to further assessment, the work to date has that if remediation is required this can be dealt with through standard mitigation, construction and remediation measures. The report suggests that shallow foundations will also be achievable for the site.

Access and Highways (refer to Appendix 02)

The site can be easily served by a single point of access onto Crouchley Lane without giving rise to any safety or capacity issues. The proposed location selected will not affect the boundary trees or locally listed stone archway in this location. The access arrangements have been designed to cater for the infrequent movements of a servicing vehicle.

The centre of the site is approximately a 900m walk from Lymm Village Centre where numerous shopping, employment, leisure, health, restaurants and pubs are available. The site is closer to Lymm Village Centre than the majority of the other Green Belt release candidate sites under consideration by WBC.

The high-level assessment in appendix 02 (Curtins 2017) points strongly towards the fact that there is capacity within the wider highway network around Lymm to accommodate the additional demand that would be generated by the release of this Green Belt land for housing. It is therefore considered that no wider off-site junction improvements are likely to be necessary to mitigate against the impact of the allocation and development of the site.

Heritage

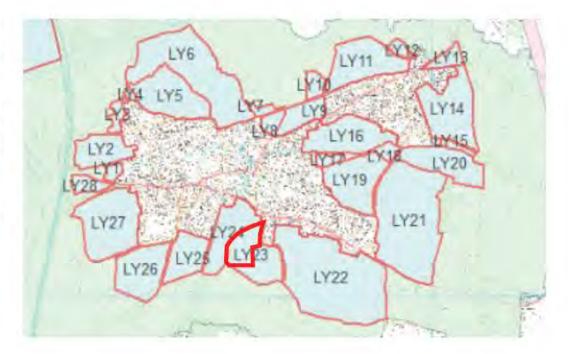
Views into and out of the Lymm Conservation Area are largely screened by the mature tree belt which runs along the western site boundary. Further dense vegetation within the Conservation Area to the north of the site also acts to screen views into and out of the grounds of St Mary's Church, with no views available from the site. Furthermore, existing residential development to the east of the site along Crouchley Lane provides an existing residential context within the setting of the Conservation Area. It is therefore considered that a sensitively designed residential development will not detract from the setting of the adjacent conservation area. The locally listed arch, and the wall fronting Crouchley Lane are part of the original boundary features of the Beechwood Hall estate. The arch will be retained as part of the scheme design, with the majority of the wall also being retained. The small length of wall necessary to facilitate the access will be re-used within the entrance design.

GREENBELT ASSESSMENT

The Warrington Borough Council Local Plan, Preferred Development Options Regulation 18 consultation identifies a requirement to deliver 22,260 new homes and 381 hectares of employment land over the plan period 2017-2037. Within this strategy, the settlement of Lymm is suitable for accommodating 500 new dwellings over the plan period.

Presently the settlement of Lymm is inset from the green belt with the village settlement boundary following the line of the existing built form. The Local Plan Preferred Options is supported by a green belt review (ARUP, 2016) which identifies the site as forming part of parcel LY23. This concludes that the site makes a moderate contribution to green belt purposes.

Paul Butler Associates (representation, 2016) previously commented on the conclusions made within the green belt review and offer a revised green belt assessment which more accurately reflects the status of the site. The revised assessment is below.

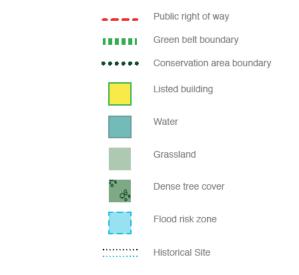


REF	Purpose 1 : to check the unrestr cted spraw of arge bu t up areas.	Purpose 2 : to prevent ne ghbour ng towns merg ng nto one another.	Purpose 3: to ass st n safeguard ng the countrys de from encroachment	Purpose 4 : to preserve the sett ng and spec a character of h stor c towns	Purpose 5: to ass st n urban regenerat on, by encourag ng the recyc ng of dere ct and other urban and	Justification for assessment	Overall Assessment
LY23	No contr but on: The parce s not adjacent to the Warr ngton urban area and therefore does not contr bute to th s purpose.	No contr but on: The parce does not contr bute to prevent ng towns from merg ng.	Weak contr but on: The parce s connected to the sett ement on ts eastern boundary and s we conta ned on the western and southern per meters by a substant a tree be t wh ch m ts the degree of openness exper enced. The durab e boundar es of th s parce wou d ensure no encroachment nto the countrys de shou d th s parce be deve oped.	Moderate contr but on: Lymm s a h stor c town. Wh st the s te s not w th n the conservat on area t s adjacent to t. Deve opment on th s s te however cou d be brought forward w thout any mater a harm on the character and appearance of the conservat on area.	Moderate contr but on: The M d Mersey ous ng Market Area has 2.08% brownfie d urban capac ty for potent a deve opment therefore the parce makes a moderate contr but on to th s purpose.	The parce makes a weak contr but on to one purpose, a moderate contr but on to two and no contr but on to two. Deve opment w th n th s parce wou d be we conta ned hav ng a m n ma mpact on the overa openness of the green be t.	Weak contr but on

OPPORTUNITIES & CONSTRAINTS

Opportunities Supporting Warrington Borough Council Local Plan – Preferred Development Option – Regulation 18 Consultation July 2017

- The site is located on the edge of the existing settlement of Lymm and is bordered by development on the eastern extent, with new housing development approved at Lymm Rugby Club (adjacent south/east). Development of the site will form a sensitive extension to the existing settlement.
- Access into the site is achievable from Crouchley Lane with adequate visibility provided in both directions.
- Development can be accommodated on the site whilst also retaining mature trees within the proposed site layout.
- The site is located outside of the floodzone and therefore would not be at risk of flooding.
- A small portion of the site is within a groundwater protection zone. This can be mitigated through the detailed drainage design.
- The site is located close to existing services and facilities within Lymm thereby providing a sustainable location for new housing.
- No existing services are within or cross the site boundary. Furthermore, service connections are feasible.
- Development of the site will respect the locally listed arch on Crouchley Lane and has the potential to enhance and incorporate this feature as part of the proposed development. The adjoining conservation area is separated by dense vegetation and built form which screens out views into and out of the conservation area.
- To maintain and enhance existing vegetation that provides visual containment reducing the visual impact of the development from certain vantage points.
- To provide recreational opportunities and links to existing public open space through the introduction of new greenspace in the heart of the site.
- To provide pedestrian links toward the town centre.
- The development will be of a high quality and aim to be sensitive to the local vernacular, taking positive elements from the local town character.





OPPORTUNITIES & CONSTRAINTS

Warrington Borough Council Local Plan – Preferred Development Option – Regulation 18 Consultation July 2017

The Proposal demonstrates the delivery of each of the desired options as set out within Warrington Borough Council Local Plan - Preferred Development Option Regulation 18 Consultation July 2017 are met. Further satisfying and supporting the site as a viable site to be released from greenbelt. To the right are extracts from the WBC Preferred Development Option - Regulation 18 July 2017.

4.38 The new objectives are set out in the table below:

W1 To enable the transition of Warrington from a New Town to a New City through the on eneration of inner Warrington, the delivery of strategic and local infrastructure, the strengthening existing neighbourhoods and the creation of new sustainable neighbourhoods whilst: delivering a minimum of 22,260 new homes (equating to 1,113 per year) between 2017 and 2037, supporting Warrington's ongoing economic success by providing 381 Hectares of employment land en 2017 and 2037 W2 To facilitate the sensitive release of Green Belt land to meet Warrington's long term housing and ent needs, whilst ensuring the revised Green Belt boundaries maintain the permanence of Varrington's Green Belt in the long tern W3 To strengthen and expand the role of Warrington Town Centre as a regional employment, retail, tural and transport hub, whilst transforming the quality of the public real m and making the want to liv N4 To provide new infrastructure to support Warrington's growth, reduce cong port options, whilst reducing the need to travel and encoura W5 To secure high quality design which reinforces the character and local distinct ton's urban area, its countryside, its unique pattern of green spaces and its co whilst protecting, enhancing and embracing the borough's built and natural assets W6 To minimise the impact of development on the environment through the prudent use of resources icient, safe and resilient to clin

on to improving Warrington's air quality. Table 5 – Local Plan Strategic Objectives 4.52 The Council's detailed assessment and the SA/SEA Report can be found on the Council's website. A summary of the overall conclusions from the Council's assessment of the three options is provided in the table below.

Option 1	This option has the potential to contribute positively to the objectives of the plan and would enable Warrington to meet its development needs whilst also contributing to the delivery of Warrington New City. Depending on the specific locations for development, it could provide a sustainable, viable and deliverable option for meeting Warrington's development needs and provides the opportunity to maintain the permanence of the Green Belt at a strategic level through managed green belt release.
Option 2	This option has the potential to contribute positively to the plan objectives and would enable Warrington to meet its development needs whilst directly contributing to the delivery of Warrington New City. Depending on the specific locations for development, it could provide a sustainable, viable and deliverable option for meeting Warrington's development needs and provides the opportunity to maintain the permanence of the Green Belt at a strategic level through managed green belt release. In addition, incremental growth in the outlying settlements could contribute to longer term sustainability of local services and local business, promote local housing choice and deliver a number of smaller sites in the early part of the plan period.
Option 3	Although a settlement extension in itself could provide a sustainable form of development in principle, the option as a whole does not perform as well against the objectives of the Plan as the other 2 options. It could have detrimental impacts on Green Belt, the character of settlements and may result in secondary school capacity issues. It would also result in less development being focussed on the main urban area and therefore could reduce the ability of the Council to deliver strategic infrastructure and therefore dilute the Council's New City aspirations.

4.53 Following this exercise, the Council confirmed Option 2 - focussing Green Belt release adjacent to the main urban area of Warrington, with incremental growth in the outlying settlements - as the preferred option.

4.54 Option 2 enables the majority of growth to be delivered adjacent to the main urban area, contributing positively to the Plan Objectives. It performs stronger than Objective 1 in that it also enables incremental housing growth in the outlying settlements to support local services and widen local housing choice without compromising their character. This will also assist in overall Plan delivery by promoting a larger number of smaller sites which are likely to be deliverable early in the Plan period.

4.55 Option 3 does not perform as strongly as the distribution of growth will begin to impact on the character of one or more of the outlying settlements and a greater proportion of growth is being moved away from the main urban area where it can most positively contribute to the Warrington New City concept. 5.46 The preferred option defines an approximate number of homes the Council considers can be accommodated by each of the outlying settlements under the 'incremental growth' scenario.

Settlement	Indicative Green Belt Capacity
Lymm	500
Culcheth	300
Burtonwood	150
Winwick	90
Croft	60
Glazebury	50
Hollins Green	40
TOTAL	1,190

Table 22: Outlying Settlements - Indicative Green Belt Capacity

5.47 In order to deliver this level of development it will be necessary to expand existing primary schools in Lymm, Culcheth and Burtonwood. It will also be necessary to provide additional primary care capacity in Lymm and in Burtonwood.

PROPOSED INDICATIVE DEVELOPMENT

Following the publication of the Preferred Development Option Regulation 18 Consultation July 2017 and site analysis work a concept masterplan has been developed incorporating all key point outlined within the Preferred Development Option.

The proposals will deliver the following:

- A new state of the art primary care facility.
- Pedestrian links from Crouchley Lane to Lymm Dam walk.
- Land allowing Lymm Rugby Club to accommodate a full sized rugby pitch along with with increasing adjacent facilities.
- Up to 180 new homes.
- Public open space.
- A mix of dwelling types to include detached, semi-detached and terraced houses.
- A range of dwelling sizes from 1 to 4+ bedrooms.
- Provision of affordable housing to include a mix of different sizes in response to local needs.
- A high quality development that will have regard to local character.
- Investment into new and existing community infrastructure, and improved local pedestrian and cycle links.

The illustrative concept masterplan includes the following key features:

- A primary vehicular access off Crouchley Lane, with pedestrian footway.
- Provision of new public open space including children's play areas and amenity open space.
- Retention of majority of existing boundary features and trees on the boundaries and within the site, with new planting proposed to strengthen the existing green infrastructure and preserve the visual amenity of adjoining residents.

- New sustainable drainage infrastructure to potentially include surface water balancing ponds.
- New and enhanced pedestrian and cycle connections to local community facilities.
- Housing sensitively positioned along the eastern boundary to protect the amenity of residents on Crouchley Lane.
- Contributing to the Council's year supply of deliverable housing sites and delivery of new homes to meet the housing needs of the borough.

fordable housing within the town.

- Creation of a sustainable residential community that is in close proximity to existing local retail and social and community facilities.
- New habitat creation to encourage ecological diversity.
- New construction jobs to be created during the construction of the development.
- New Homes Bonus payable to the Council from Central Government and additional Council Tax receipts once homes are occupied.

The illustrative concept masterplan includes the following key features:

- 1. Provision of new community open space including children's playgrounds and amenity open space.
- 2. Potential land use by the Rugby Club, which could be used to enhance facilities esp. grass playing areas.
- 3. Provision of a Primary Care facility.

.

4. New pedestrian links through to Lymm Dam footpaths and cycle routes



DELIVERY

The National Planning Policy Framework requires that to be considered deliverable, sites should be available now, offer a suitable location for development now, and be achievable with a realistic prospect that housing will be delivered on the site within years and in particular that development of the site is viable (NPPF para 47, footnote 11).

As evidenced in this submission, the site is available now offering a suitable location for new development. The site is considered to be a viable and realistic proposition that will make a contribution to housing delivery over the plan period. There are also no known constraints that would affect delivery of housing commencing on site within 5 years.

Stamford Property Holdings hold a track record of working with developers and housebuilders alike to deliver high quality schemes ranging from a single dwelling through to projects comprising over 200 dwellings. Stamford Property Holdings will endeavour to have the master plan delivered in full within Warrington Borough Councils desired time

Ownership is with one party and there are no legal constraints which could constrain delivery.



CONCLUSION

This development brochure outlines the vision for a new, sustainable neighbourhood of choice at land off Crouchley Lane to support the long term development needs of Lymm. The brochure supports the representation submitted in response to the Warrington Borough Council Regulation 18 Preferred Options consultation.

The brochure has been informed by a range of technical studies which demonstrate the suitability of the site for development and release from the green belt. The indicative proposals for the site illustrate the potential for the creation of a new sustainable neighbourhood which responds to the local character of the area through a high quality and sensitive design response.

The indicative proposals demonstrate that the site is capable of accommodating approximately 180 new dwellings, including affordable housing. The brochure also demonstrates the suitability of the site for new development concluding that there are no significant constraints to restrict development of the type identified coming forward in this location.





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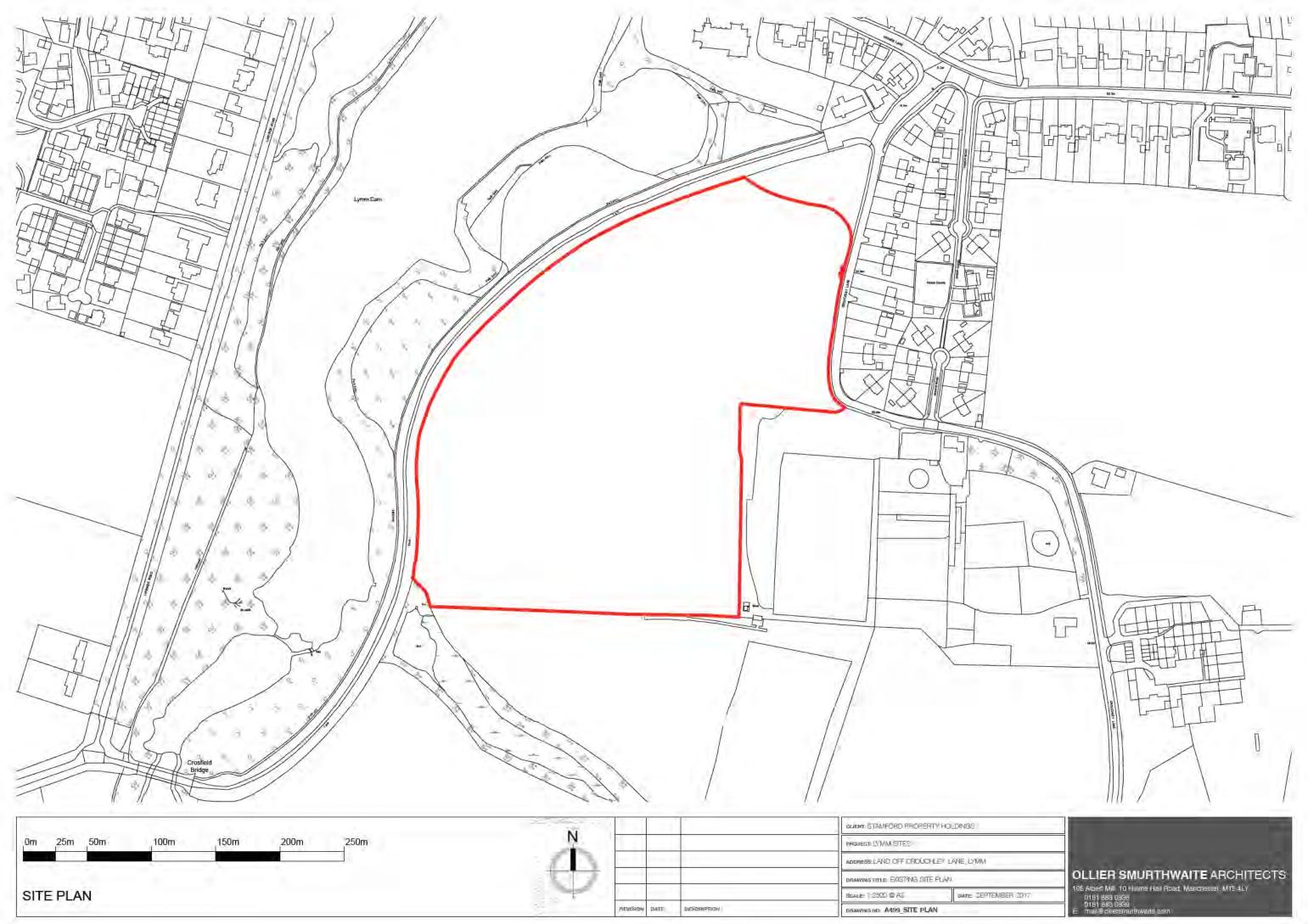
LAND OFF CROUCHLEY LANE, LYMM TECHNICAL APPENDICES

SEPTEMBER 2017

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Land off Crouchley Lane, Lymm – Local Plan Review Site R18/065 Access & Transport Appraisal

Curtins Ref: 66027/TN02 Revision: Issue 1 Issue Date: 18 August 2017

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Control Sheet

This report has been prepared for the sole benefit, use, and information for the client. The liability of Curtins with respect to the information contained in the report will not extend to any third party.

Áuthor	Signature	Date
		18 August 2017
	Ű	Date
		18 August 2017
		Date
		18 August 2017



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Appendix A – TRICS Outputs



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1.0 Introduction

1.1 Project Introduction

- 1.1.1 Warrington Borough Council (WBC) are currently preparing a new draft local development plan and are seeking representations in respect of residential and employment land allocations throughout the Borough.
- 1.1.2 Curtins has been appointed on behalf of Stamford Property Holdings to provide traffic and transport advice in relation to the potential allocation of a 8ha site to the west of Crouchley Lane, Lymm, for residential purposes.
- 1.1.3 The site is identified as number R18/065 in the recently published Call for Sites list on WBC's website.
- 1.1.4 For the purposes of this report, and based on the assumptions that perhaps 75% of the roughly 8 hectare site area is developable and there could be perhaps 30 dwellings per hectare, it is estimated that the site could deliver in the order of 180 dwellings.

1.2 Purpose of the Report

- 1.2.1 This report has been prepared to consider the access and transport related implications of the potential residential allocation of the site. It considers the following items:
 - Whether the site is (or can be made to be) sustainable and accessible by non-car modes of transport;
 - ii) Whether the traffic arising from a residential development of the site can be satisfactorily accommodated on the local highway network (or can be made to be);
 - Whether there are any technical / land control constraints with achieving satisfactory access into the site, and that any accesses can be designed and constructed to relevant standards;
 - iv) Whether there are any material local road safety issues that would present a concern in the context of the potential allocation of the site; and,
 - Whether there are any on-site highway-related constraints that would prevent the sites coming forward.

1.3 Background

Emerging Planning Policy

1.3.1 As mentioned above, the site is provisionally identified by WBC as site number R18/065 in the emerging local plan land allocation process.



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- 1.3.2 Initial representations to remove the site from Green Belt and allocate it for housing were submitted to WBC in December 2016.
- 1.3.3 Since then, WBC recently published their "Preferred Development Option Regulation 18 Consultation" document, dated July 2017. This sets out the Council's preferred approach to allocating and delivering mainly large strategic redevelopment schemes around the Borough.
- 1.3.4 Paragraphs 5.46 5.49 of this document indicate that Lymm could potentially grow by 500 dwellings in the plan period through a release of Green Belt capacity. The document goes on to say that:

"5.47 In order to deliver this level of development it will be necessary to expand existing primary schools in Lymm, Culcheth and Burtonwood. It will also be necessary to provide additional primary care capacity in Lymm and in Burtonwood.

5.48 Due to the large number of sites put forward in proximity to each of the outlying settlements relative to the level of growth required under the Preferred Development Option, the Council has decided to hold back detailed site assessment work to confirm the individual sites to be allocated until after the Preferred Development Options Stage.

5.49 The numbers provided in the table above [e.g. 500 total dwellings] are therefore indicative at this stage. The final numbers will depend on the detailed assessment of potential development sites, including a more detailed assessment of the implications for the character of the respective settlements, the permanence of the amended Green Belt boundaries and transport impacts."

- 1.3.5 The document also identifies on Figure 10 a broad strategic overview of the transport infrastructure that might be required to help deliver the preferred option development aspirations. However, no strategic improvements are earmarked within Lymm to deliver the quota of 500 dwellings that have been specified.
- 1.3.6 The document does go on to say that one of the key next steps for the Council will be to develop the Warrington Multi-Modal Transport Model. This will "enable the Council to consider local and borough wide transport impacts arising from new development. It will also allow the Council to confirm the infrastructure required to mitigate these impacts and contribute to the wider New City concept".
- 1.3.7 WBC have also recently published their "Warrington Transport Summary Part 1: Overview" document, which forms part of the evidence base for the emerging local development plan.
- 1.3.8 The document presents a general high-level assessment of historical and current travel trends into / out of the Borough, and does not refer to any of the specific potential land allocations.



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1.4 Structure of this Report

- 1.4.1 The structure of this report is as follows:-
 - Section 2.0 provides a brief overview of the existing conditions around the site, including a review of the highway safety record and the highway-related constraints around the site;
 - Section 3.0 provides an overview of the potential development that could be delivered on the site, including details of a potential access strategy;
 - iii) Section 4.0 sets out an appraisal of the accessibility of the site by non-car modes of transport;
 - iv) Section 5.0 sets out the anticipated highway impact of the potential site allocation / development; and,
 - v) Section 6.0 sets out the summary and conclusions.



2.0 Existing Conditions

2.1 Site Location

2.1.1 The site is located to the east of Lymm Village Centre and to the south of the Rush Green area on the edge of the settlement boundary, as indicated on Figure 2.1 below:



Figure 2.1 - Site Location Plan

- 2.1.2 As indicated above, locally the site is located to the west of Crouchley Lane, the south of Lymm Dam car park / The Church Green restaurant, the north of Lymm Rugby Club and the east of Lymm Dam. The site is currently used for grazing.
- 2.1.3 The site has a long area of frontage (approximately 200m) along its eastern side that runs contiguously with Crouchley Lane. It also directly abuts the route of Footpath 40 on its western side for a distance of approximately 550m.
- 2.1.4 The existing agricultural use of the site can be accessed via a gated access from the car parking area for Lymm Rugy Club directly to the south of the site (a private right of way), and also via an arched stone gateway onto Crouchley Lane roughly halfway along the site's frontage to that road. The gateway has some historical significance and is a locally listed structure, as contained in Appendix 4 of WBC's Core Strategy document.



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2.2 Local Highway Network

Crouchley Lane

- 2.2.1 As stated above, Crouchley Lane runs alongside the eastern boundary of the site in an north-south alignment between the A56 Church Road to the north and Kay Lane / Beechtree Lane / Crabtree Lane to the south-east.
- 2.2.2 The carriageway of Crouchley Lane varies in width between around 5.5m and 7.0m along the site frontage. Some limited on-street parking currently occurs, although this does not materially affect the operation or free flow of traffic along the road, particularly since most on-street parking is concentrated near the A56 / Crouchley Lane junction where Crouchley Lane widens significantly.
- 2.2.3 Crouchley Lane has a footway only on its western side measuring between around 1.8m and 2.2m in width. The road is lit by regularly spaced lighting columns and is subject to a 20mph mandatory speed limit.

2.3 Public Rights of Way

2.3.1 As indicated above and on Figure 2.1, there is a Public Right of Way (defined as Footpath 40) which runs alongside the western boundary of the site, providing a well-used and attractive leisure route around the eastern side of Lymm Dam. Footpath 40 joins onto Footpath 4 as it routes around the south and west of Lymm Dam.

2.4 Site Visit

- 2.4.1 Curtins visited the site on Friday 4th August 2017 at 08:20 during the AM peak hour to make observations and take measurements of the surrounding area.
- 2.4.2 Although the local highway network was observed to be completely free from any congestion at this time, it should be noted that the site visit was conducted during the school holidays, therefore it is recognised that local traffic conditions may have been suppressed below the levels normally experienced during school term time.

2.5 Highway Safety

- 2.5.1 Personal Injury Accident (PIA) data for the highway network around the site has been obtained from the online Crashmap resource for the most recently available five-year period.
- 2.5.2 A plan of the highway network that has been assessed is illustrated below in Figure 2.2:



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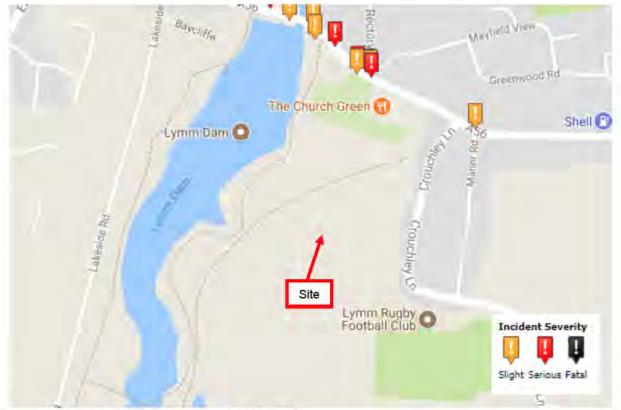


Figure 2.2 – Area Assessed for Personal Injury Accident Data

2.5.3 A summary of the data can be seen in Table 2.1:

Junction/Link	Slight	Serious	Fatal	Totals
Crouchley Lane	0	0	0	0
A56 Church Road	5	2	0	7
Totals	5	2	0	7

Table 2.1 – Personal Injury Accident Data Summary

- 2.5.4 There have been no accidents resulting in injury recorded along Crouchley Lane and a total of 7 accidents recorded along the A56, with 6 grouped around the A56 Church Road / Rectory Lane junction and nearby Church Green restaurant access and bus layby.
- 2.5.5 The grouping of these 6 accidents is marginally above the level of accidents that might normally be expected at a junction of this type over a five-year period. However, it is unclear what has caused this irregularity given that the geometric layout of the road in the area is generally satisfactory, and good levels of junction visibility are achievable from Rectory Lane in both directions along the A56.



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- 2.5.6 A look back at a longer historical accident dataset (18 years) reveals that this location has not experienced a materially different frequency of accidents than other similar junctions along the same road corridor. This therefore suggests that the more recent five-year period could simply be a statistical anomaly.
- 2.5.7 In any event, the accident record on the A56 does not give rise to a material concern in the context of the site's potential allocation for residential uses, given that Rectory Lane is unlikely to be materially intensified by development-related traffic. Rectory Lane leads to the village centre of Lymm and Rush Green Road (towards Partington) beyond, however Lymm village centre is within easy walking distance of the site and it is therefore anticipated that the majority of development traffic is more likely to route via the A56 to the east and west.

2.6 Potential Highway-Related Constraints

- 2.6.1 There are a number of potential highway-related constraints around the site that have been considered in the context of allocating the site for residential development and achieving a satisfactory access strategy.
- 2.6.2 In particular, the following information has been gathered to ensure that the access strategy (see the following Chapter) is feasible from both a technical highway-standard perspective and a land control perspective:
 - i) On-site measurements of the highways and footways surrounding the site;
 - ii) The land boundary of the site;
 - iii) The precise limits of the adopted highway boundary;
 - iv) Information on conservation areas in Lymm;
 - v) Information on nationally / locally listed structures in Lymm;
 - vi) Information on trees within and surrounding the site (based on an assessment by Urban Green Arboricultural Consultants);
 - vii) On-site observations of the general topography of the site; and,
 - viii) Public Rights of Way passing around the site.
- 2.6.3 Based on the above, the following points are of particular relevance to the potential allocation of the site and the chosen access strategy:-



- Digital Ordnance Survey (OS) mapping of the site and the surrounding highway network has been obtained and has been found to be accurate in those areas where the site could potentially take access from;
- ii) The boundary of the site has been plotted on the OS mapping;
- The precise limits of the adopted highway boundary have also been transposed below the OS mapping to ensure that any selected access solution is feasible without recourse to any thirdparty land;
- iv) Lymm Dam to the west of the site forms part of a conservation area (CA), however this does not extend into the site or anywhere close to the site's frontage to Crouchley Lane. Therefore this does not preclude any wall, hedge or tree boundary features being removed around the eastern side of the site (but see point vi) below);
- As mentioned earlier, the arched stone gateway feature situated roughly halfway along the site's frontage on Crouchley Lane is a locally listed structure according to WBC's Core Strategy document. However, the listing ostensibly extends to cover just the archway itself and not the boundary wall that extends to the north and south along the site boundary;
- vi) There is a line of approximately 6 or 7 trees situated just within and alongside the site's boundary with Crouchley Lane. Urban Green have determined these trees to be worthy of retention, however they only extend around 110m along the site frontage (just to the south of the stone archway referred to above), and beyond this to the south there is a 90m (or so) long section of the site's frontage where no trees are present. This is therefore discussed in more detail in the following Chapter of this report as part of the potential access strategy.
- vii) There are no material level differences between the site and Crouchley Lane that would preclude any particular access strategy being considered; and,
- viii) There are no Public Rights of Way that pass through the site that preclude any particular access strategy being considered.

2.7 Existing Planning Permissions / Committed Developments

2.7.1 Planning permission was recently applied for (and granted in Feb 2017 subject to a S106 Agreement) for a mixed-use development comprising 10 dwellings, a new sports club / facilities and car park at Lymm Rugby Club to the south of the site (application reference 2016/28521).



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- 2.7.2 Although the construction of the scheme would prejudice the private right of way that the site benefits from, this is not a material concern in the consideration of the site's potential allocation and is effectively a private civil matter between the two landowners.
- 2.7.3 Similarly, in planning and highway terms, there is nothing to suggest that the scheme at the Rugby Club materially affects the consideration of the site's potential allocation, given that ample off-street parking is provided as part of the adjacent scheme. The proposed development does not therefore impinge upon the achievability (or otherwise) of gaining access into the site.



3.0 Potential Development

3.1 Overview of Potential Scheme

3.1.1 As mentioned earlier, based on the size and potential developable area of the site, it is envisaged that a scheme of perhaps 180 dwellings could be delivered on the site in due course if the land is released from Green Belt and is allocated for residential use.

3.2 Access Strategy

General Approach

- 3.2.1 As a general principle, it should be noted that there are no design standards / guidance that would require a residential development of this size to feature more than a single point of access (or indeed any size).
- 3.2.2 On the contrary, the Manual for Streets (MfS) indicates in paragraph 6.7.3 that no such cul-de-sac length limits or dwelling number limits should be placed on a residential development, but rather the fire service should be consulted to ensure they are able to respond quickly and effectively to any emergency on a particular development. It is common to find that schemes of up to 200 dwellings are served from a single point of access.
- 3.2.3 Based on this, it is considered that a single vehicular access point will be suitable for a scheme of this scale and nature.
- 3.2.4 In terms of pedestrian and cyclist access, it should be generally desirable to achieve as much permeability and route choice into any residential scheme as possible, and therefore provide pedestrian and cycle access points at those points that lie on the most likely desire lines.
- 3.2.5 The above principles, combined with the potential constraints identified in sub-section 2.6 earlier, have therefore informed the potential site access strategy for the site.

Access Strategy

- 3.2.6 The potential access strategy is shown on drawing 66027-CUR-Z0-LV-DR-TP-05003-P01 to the rear of this report.
- 3.2.7 This strategy features a single vehicular access onto Crouchley Lane on the eastern side of the site, roughly 50m to the south of the stone archway mentioned earlier.
- 3.2.8 This location has been selected as it does not affect the tree-related constraints or the stone archway identified earlier. A section of the existing wall will need to be removed to form the access and junction visibility splays, however as indicated earlier, this does not present any issues.



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- 3.2.9 In terms of the vehicular site access details, this has been designed to feature a standard residential road geometry, with a 5.5m wide carriageway, 2m footways and 6m corner radii. 2.4m x 40m junction visibility splays will be achievable from the access point. This level of junction visibility is commensurate with the prevailing Manual for Streets design standards for a 30mph road for robustness, despite the fact that Crouchley Lane is subject to a 20mph speed limit.
- 3.2.10 In terms of the pedestrian and cycle access details, the drawing shows that access would be available at the northern corner of the site, potentially via the stone archway (with the potential to create an attractive gateway / boulevard feature), and if acceptable to the Council, via a connection/s to Footpath 40 to the west of the site. It is considered that these access points, combined, cover all the likely pedestrian and cycle desire lines into and out of the site.
- 3.2.11 As indicated earlier, it is not considered to be necessary to have two vehicular points of access for the site. The site can easily be served via a single point of access onto Crouchley Lane without giving rise to any safety or capacity issues.
- 3.2.1 Safe and suitable access arrangements are therefore easily achievable into the site.

3.3 Servicing Strategy

- 3.3.1 The potential site access arrangements have been designed to cater for the infrequent movements of a servicing vehicle.
- 3.3.2 Given the size and shape of the site, it is considered that an on-site road network can easily be achieved that would cater for the movements of a servicing vehicle in due course. The detail of this would be designed at any future planning application stage.
- 3.3.3 It is noted that there are a number of mature trees within the site, however similarly it is expected that an on-site road network could easily be developed around any trees that would be retained.

3.4 Parking Provision

3.4.1 Similarly, given the size and shape of the site, it is considered that a scheme featuring appropriate levels of off-street / communal car and cycle parking can easily be achieved which confirms to WBC's adopted 2015 parking standards. Again, the detail of this would be designed at any future planning application stage.



4.0 Accessibility by Sustainable Modes of Travel

4.1 Introduction

- 4.1.1 A key element of national, regional and local policy is to ensure that new developments are located in areas where alternative modes of travel are available. It is important to ensure that developments are not isolated but are located close to complementary land uses. This supports the aims of integrating planning and transport, providing more sustainable transport choices, and reducing overall travel and car use.
- 4.1.2 The accessibility of the site is considered in this context for the following modes of travel:
 - Pedestrian Accessibility;
 - Accessibility by Cycle; and,
 - Accessibility by Public Transport.

4.2 TRACC Analysis

- 4.2.1 The accessibility of the site has been assessed through the use of TRACC Software. TRACC is the leading multi-modal transport accessibility tool which was developed in conjunction with the Department for Transport (DfT), local authorities and transport planners.
- 4.2.2 It is designed to calculate travel time using a multitude of public transport and road travel modes to give accurate journey times from many origins to many destinations in one calculation. The software covers a wide range of transport modes including walking, cycling, driving and public transport.

4.3 Pedestrian Accessibility

4.3.1 Research has indicated that acceptable walking distances depend on a number of factors, including the quality of the development, the type of amenity offered, the surrounding area, and other local facilities. The Chartered Institution for Highways and Transportation (CIHT) document entitled 'Providing for Journeys on Foot' suggests walking distances which are relevant to this planning application. These are reproduced in Table 4.1.

	Town Centres (m)	Commuting/School/ Signtseeing (m)	Elsewhere/Local Services (m)
Desirable	200	500	400
Acceptable	400	1,000	800
Preferred Maximum	800	2,000	1,200

Table 4.1 – CIHT Suggested Acceptable Walking Distances



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- 4.3.2 To assist in summarising the accessibility of the site by foot, an indicative pedestrian catchment plan has been produced. Plan 66027-06006 shows distances of 500m, 1,000m and 2,000m which are termed 'Desirable', 'Acceptable' and the 'Preferred Maximum' by the CIHT for commuting trips.
- 4.3.3 The pedestrian catchment plan confirms that the site is well located in relation to local services and facilities within Lymm.
- 4.3.4 The centre of the site is within around 900m walk distance of Lymm Village Centre where numerous shopping, employment, leisure, health, restaurants and pubs are available. The site is closer to Lymm Village Centre than the majority of the other Green Belt release candidate sites under consideration by WBC, as illustrated below on Figure 4.1:

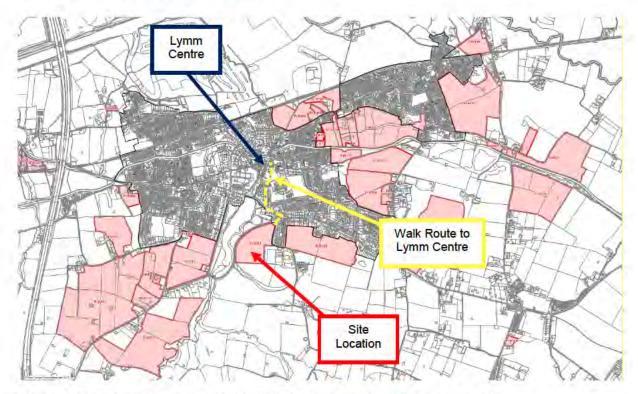


Figure 4.1 - Site's Proximity to Lymm Centre in Relation to Other Green Belt Release Candidate Sites

- 4.3.5 Ravenbank Community Primary School is reachable within around a 1.2km walking distance of the site whilst Lymm High School is situated around 1.6km walk distance away. There is also a day nursery situated immediately opposite the site on Crouchley Lane.
- 4.3.6 The topography of the local area is generally flat and conducive to pedestrian trips, and the area benefits from natural surveillance from the residential properties that abut all the main walk routes.



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4.3.7 As mentioned earlier, there is the potential for the site to feature a foot connection to Footpath 40 to the west of the site around Lymm Dam. This is a popular local attraction / dog walking area that would also potentially open up a walk route to the south-western area beyond down Lakeside Road/ The Avenue.

4.4 Accessibility by Cycle

- 4.4.1 In order to assist in assessing the accessibility of this site by cycle, **Plan 66027-06007** presents an 8km cycle catchment for the site. The 8km cycling distance refers to a recommendation by Cycling England in the document 'Integrating Cycling into Development Proposals' (2009).
- 4.4.2 The catchment extends as far as Partington in the north, Bowdon to the east, High Legh in the south and Thelwall / Grappenhall to the west.
- 4.4.3 There are multiple local on and off road cycle routes that surround the site, with many of the local roads being designated as 'grade 1' (i.e. the best in terms of cyclability), as shown on **Figure 4.2** below:



Figure 4.2 - Cycle Routes Around Site

4.4.4 **Figure 4.2** above also shows the National Cycle Route 62 passing in an east-west alignment to the north of Lymm, some 1.4km cycling distance from the centre of the site. This route provides an excellent off-road facility between south Manchester to the east and south Warrington to the west.



4.5 Accessibility by Public Transport

4.5.1 Plan 66027-06008 demonstrates those areas accessible within a 20, 40 and 60 minute public transport journey from the site. Accessibility by bus and rail are considered in further detail within the subsections below.

Bus Accessibility

- 4.5.2 Guidance from the Chartered Institution of Highways and Transportation (CIHT) document 'Guidelines for Planning for Public Transport in Development' indicates that a bus stop should ideally be located within 300m of a new development but preferably no more than 400m away.
- 4.5.3 The pedestrian / cycle site access onto Crouchley Lane in the northern corner of the site is within around 150m walk distance (450m walk distance to the site centre) of bus stops on the A56.
- 4.5.4 Table 4.2 details the bus services that call at these stops and their associated frequencies:

Bus Service	Route	Peak Hourly Frequency			
	Route	Mon - Fri	Sat	Sun/Hois	
5/5E/35	Warrington Interchange - Altrincham via Stockton Heath, Grappenhall, Thelwall, Statham, Lymm, Warburton (some) & Dunham Massey	30 mins	30 mins	60 mins	
191	Lymm Circular	3 services on Tue, Thu and Fri only	÷	- 3+):	
47	High Legh - Warrington via Lymm-Weaste Ln - Massey Brook	2 services on Tue and Fri only	ē	Lier	

Table 4.2 - Summary of Bus Service Frequencies from Chester Road

4.5.5 As shown in Table 4.2, the best bus service on offer to prospective residents of the site is the No. 5 / 5E / 35, which runs between Warrington and Dunham Massey.

Rail Accessibility

- 4.5.6 The nearest railway station is Glazebrook, some 6.1km crow-fly distance from the site.
- 4.5.7 Glazebrook lies on the Liverpool-Warrington-Manchester line. A summary of rail services from the station is summarised in Table 4.3:

Destination	Hourly Frequency				
westmanon	Mon – Fri	Sal	Sun/Hols		
Liverpool Lime Street (via Warrington)	0.5 (more in peaks)	0.5 (more in peaks)	•>		
Manchester Oxford Road	0.5 (more in peaks)	0.5 (more in peaks)	÷		

Table 4.3 - Summary of Rail Services from Glazebrook Railway Station



Access & Transport Appraisal

4.6 Summary

4.6.1 It is considered the site is highly accessible by foot and cycle modes of transport and readily accessible by public transport.



Access & Transport Appraisal

5.0 Potential Traffic Impact

5.1 Introduction

- 5.1.1 This section of the report provides an estimate of the multi-modal trips that might be generated by a residential development of up to 180 dwellings on the site during the weekday AM and PM peak hours and also over a normal weekday.
- 5.1.2 The potential impact of the vehicular traffic that might be generated by the site's development is also discussed in this Chapter.

5.2 Trip Generation Forecasts

- 5.2.1 The level of trips that could be generated by a residential redevelopment of the site has been estimated through reference to average peak hour trip rates obtained from surveys of schemes of a similar size and nature from within the industry-standard TRICS Database.
- 5.2.2 The TRICS printouts are contained in Appendix A and summarised in Table 5.1 below, along with the resultant trip forecasts:-

		TRICS-Ba	ised Trip Rate	s		
Mode	AM (08:00 - 09:00)		PM (17:00 - 18:00)		Daily	
Mode	Arrív≘	Depart	Arrive	Depart	Arrive	Depar
Vehicles	0.107	0.309	0.310	0.175	1.934	2.055
Cyclists	0.003	0.013	0.017	0.008	0.079	0.081
Pedestrians	0.052	0.187	0.100	0.040	0.798	0.851
Public Transport	0.001	0.022	0.019	0.002	0.074	0.092
		Trip Gener	ation Forecas	ts.		
AM (08:00 - 09:00)		PM (17:00 - 18:00)		Daily		
Mode	Arrive	Depart	Arrive	Depart	Annve	Depar
Vehicles	19	56	56	32	348	370
Cyclists	1	2	3	1	14	15
Pedestrians	9	34	18	7	144	153
Public Transport	0	4	3	0	13	17

Table 5.1 - Residential Use Trip Generation - 180 Dwellings



5.3 Development Traffic Impact

General

- 5.3.1 As illustrated above, a scheme of 180 residential dwellings on the site might be expected to generate in the order of 75 to 88 two-way vehicle trips in each weekday peak hour.
- 5.3.2 Volumetrically, this equates to an additional vehicle movement every 40 to 50 seconds or so, on average, during the worst case peak hour periods.
- 5.3.3 Seen in this context, this is not considered to be a particularly onerous level of traffic.

Wider Highway Network Impact

- 5.3.4 It is understood that there are no significant or 'severe' pre-existing congestion issues on the wider primary road network around Lymm, including the A56 corridor.
- 5.3.5 The online Google Maps Traffic resource has been interrogated to check typical speeds through the primary road network in Lymm. The snapshots below on **Figures 5.1 and 5.2** illustrate the speed at which traffic typically moves through the network during the weekday (in this case a Tuesday) AM and PM peak hours:



Figure 5.1 – AM Peak Hour Traffic Speeds Around Lymm (source: Google Maps Traffic Resource)



Access & Transport Appraisal

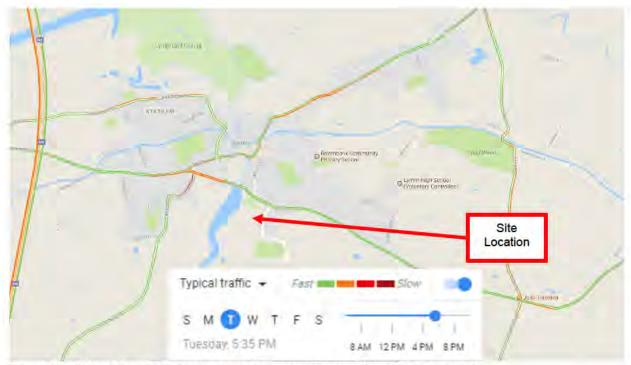


Figure 5.2 - PM Peak Hour Traffic Speeds Around Lymm (source: Google Maps Traffic Resource)

- 5.3.6 This analysis demonstrates that traffic is able to move through the local network more or less uninterrupted (i.e. green-coloured) at or around the prevailing speed limits, apart from some slowing around the Elm Tree Road / Eagle Brow junctions with the A56.
- 5.3.7 This is also reflected in WBC's *"Warrington Transport Summary Part 1: Overview"* document, which does not indicate that any particular improvements are required in the area of Lymm to help bring forward the planned housing growth in the Borough.
- 5.3.8 This high-level assessment therefore points strongly towards the fact that there is sufficient capacity within the wider highway network around Lymm to accommodate the additional traffic demand that would be generated by the release of Green Belt land for housing, including at the site in question.
- 5.3.9 It is therefore considered that no wider off-site junction improvements are likely to be necessary to mitigate against the impact of the allocation and development of the site, however this would be tested in detail as part of any Transport Assessment report that would be necessary to accompany any planning application in due course and as part of WBC's multi-modal transport model assessments.



Access & Transport Appraisal

6.0 Summary and Conclusions

6.1 Summary

- 6.1.1 Curtins has been appointed on behalf of Stamford Property Holdings to provide traffic and transport advice in relation to the potential allocation of a 8ha site to the west of Crouchley Lane, Lymm, for residential purposes. The site is identified as number R18/065 in the recently published Call for Sites list on WBC's website.
- 6.1.2 For the purposes of this report, and based on the assumptions that perhaps 75% of the roughly 8hectare site area is developable and there could be perhaps 30 dwellings per hectare, it is estimated that the site could deliver in the order of 180 dwellings.
- 6.1.3 The site is one of a number of sites around Lymm that have been indented for potential release from the Green Belt to meet the Council's growth target of 500 new dwellings around the village.
- 6.1.4 The existing highway safety record around the site has been examined for the most-recently available 5 years' worth of accident data. The data shows that no accidents occurred on Crouchley Lane and 7 occurred on the A56, with 6 near the A56 / Rectory Lane junction. However, the geometric layout of the road in the area is generally satisfactory and good levels of junction visibility are achievable from Rectory Lane in both directions along the A56, therefore there is nothing to suggest any inherent defects in the road network itself.
- 6.1.5 A look back at a longer historical accident dataset (18 years) reveals that this location has not experienced a materially different frequency of accidents than other similar junctions along the same road corridor. This therefore suggests that the more recent five-year period could simply be a statistical anomaly.
- 6.1.6 In any event, the accident record on the A56 does not give rise to a material concern in the context of the site's potential allocation for residential uses, given that Rectory Lane is unlikely to be materially intensified by development-related traffic. Rectory Lane leads to the village centre of Lymm and Rush Green Road (towards Partington) beyond, however Lymm village centre is within easy walking distance of the site and it is therefore anticipated that the majority of development traffic is more likely to route via the A56 to the east and west.
- 6.1.7 Curtins visited the site recently to take measurements and observations of the network surrounding the site. Various investigations have also taken place into any potential constraints that might preclude any particular access options to the site.



Access & Transport Appraisal

- 6.1.8 This exercise has revealed that the only material constraints are the presence of a line of 6 or 7 good quality trees along the north-eastern part of the site's frontage to Crouchley Lane and the presence of a locally-listed stone archway that would need to be retained.
- 6.1.9 These factors have therefore been taken into account in the development of the potential access strategy. This features a new simple priority controlled junction some 50m to the south of the stone archway mentioned earlier.
- 6.1.10 This location has been selected as it does not affect the tree-related constraints or the stone archway identified earlier. A section of the existing wall will need to be removed to form the access and junction visibility splays, however as indicated earlier, this does not present any issues.
- 6.1.11 In terms of the vehicular site access details, this has been designed to feature a standard residential road geometry, with a 5.5m wide carriageway, 2m footways and 6m corner radii. 2.4m x 40m junction visibility splays will be achievable from the access point. This level of junction visibility is commensurate with the prevailing Manual for Streets design standards for a 30mph road for robustness, despite the fact that Crouchley Lane is subject to a 20mph speed limit.
- 6.1.12 In terms of the pedestrian and cycle access details, access would be available at the northern corner of the site, potentially via the stone archway (with the potential to create an attractive gateway / boulevard feature), and if acceptable to the Council, via a new access to Footpath 40 to the west of the site. It is considered that these access points, combined, cover all the likely pedestrian and cycle desire lines into and out of the site.
- 6.1.13 Safe and suitable access arrangements are therefore easily achievable into the site.
- 6.1.14 A detailed appraisal of the accessibility of the site by non-car modes has been carried out. It is considered the site is highly accessible by foot and cycle modes of transport and readily accessible by public transport.
- 6.1.15 The site is closer to Lymm Village Centre and its associated facilities than the majority of the other Green Belt release candidate sites under consideration by WBC.
- 6.1.16 A scheme of 180 dwellings is estimated to generate in the order of 75 to 88 two-way vehicle trips in each weekday peak hour. Volumetrically, this equates to an additional vehicle movement every 40 to 50 seconds or so, on average, during the worst case peak hour periods. Seen in this context, this is not considered to be a particularly onerous level of traffic.



Access & Transport Appraisal

- 6.1.17 It is understood that there are no significant or 'severe' pre-existing congestion issues on the primary road network around Lymm, including along the A56 corridor. This has been checked with reference to typical weekday peak hour traffic speed through Lymm and WBC's own 'Transport Summary' and 'Preferred Development Option Regulation 18' reports published recently as part of the evidence base for the emerging local plan.
- 6.1.18 This high-level assessment therefore points strongly towards the fact that there is sufficient capacity within the wider highway network around Lymm to accommodate the additional traffic demand that would be generated by the release of Green Belt land for housing, including at the site in question.
- 6.1.19 It is therefore considered that no wider off-site junction improvements are likely to be necessary to mitigate against the impact of the allocation and development of the site, however this would be tested in detail as part of any Transport Assessment report that would be necessary to accompany any planning application in due course and as part of WBC's multi-modal transport model assessments.

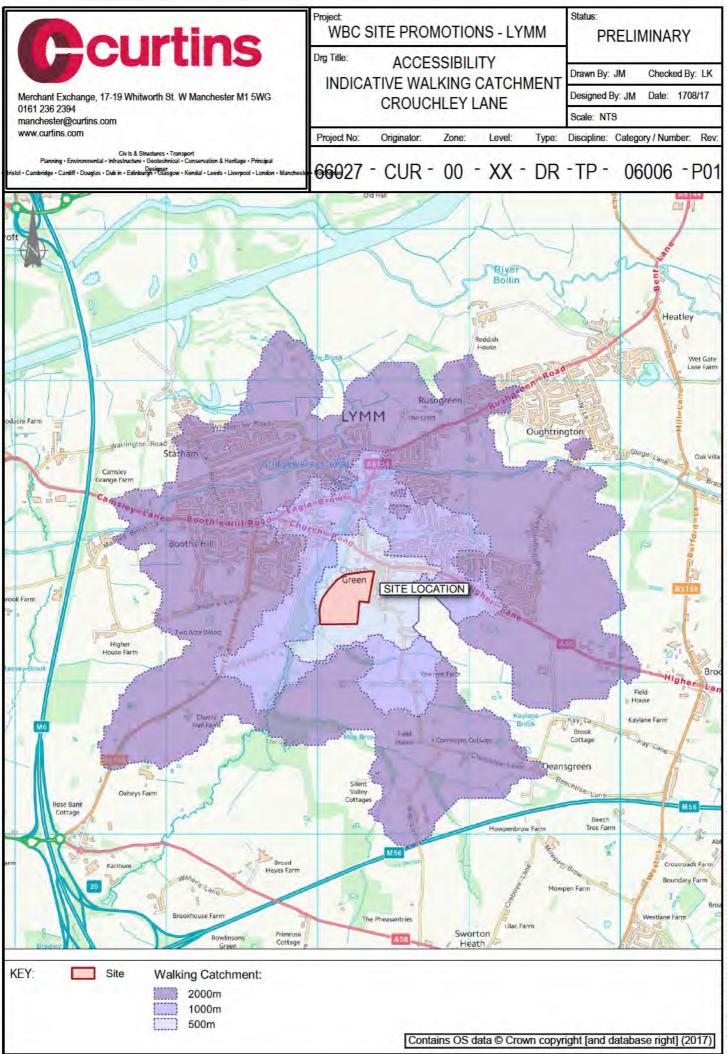
6.2 Conclusions

- 6.2.1 It is therefore concluded that there is an ideal opportunity with the candidate site to help deliver housing in a sustainable and suitable location close to Lymm Village Centre. There are no material highwayrelated constraints that would preclude safe and suitable access being achieved to the site.
- 6.2.2 From a highway and transport perspective, the site is therefore commended to WBC for release from the Green Belt and allocation for future housing in the emerging local plan.

66027/TN02 Land off Crouchley Lane, Lymm – Local Plan Review Site R18/065 Access & Transport Appraisal

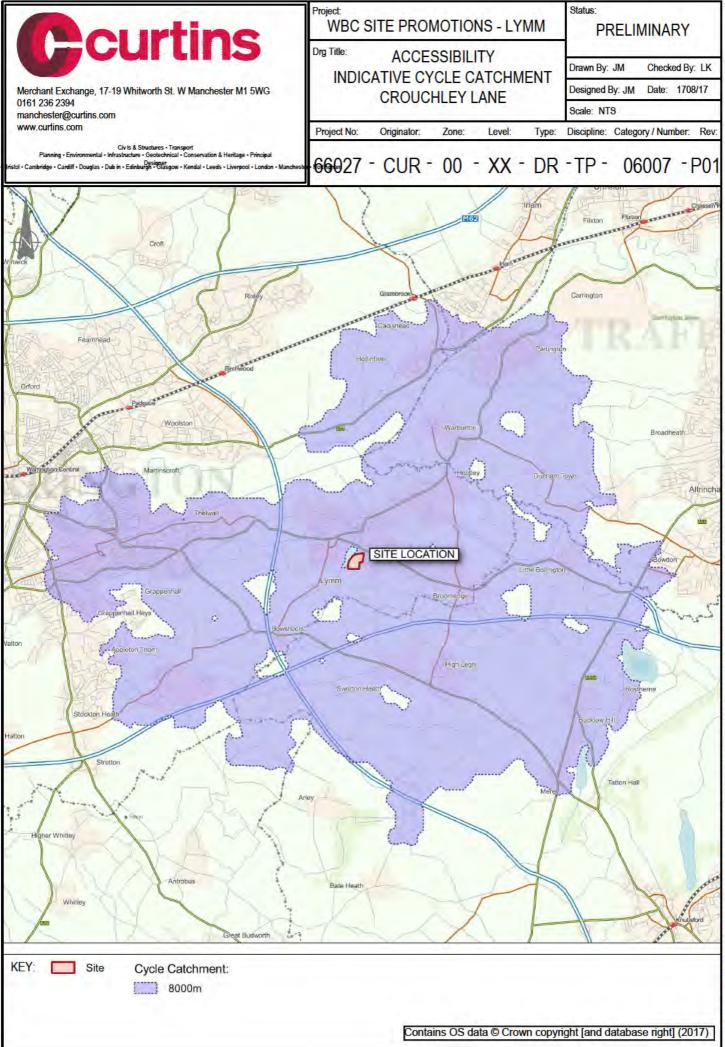


Plans

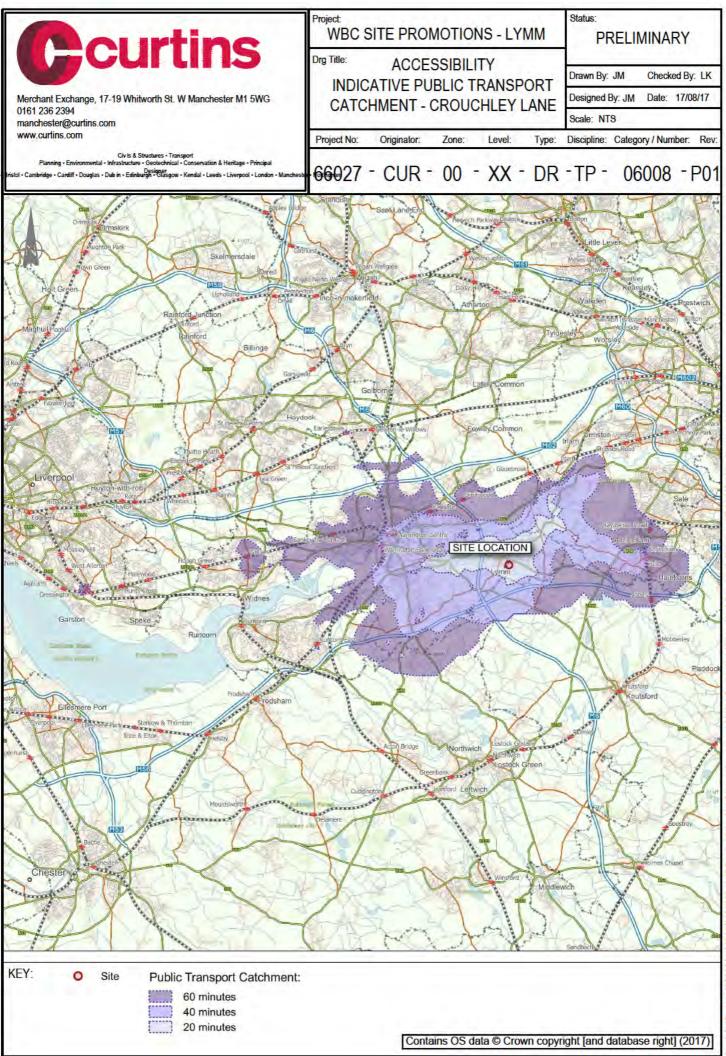


Vmafs01/Projects/066001 - 067000/066027 - WBC Local Plan Site Promotions, Lymm/CMS 4 Production/4B Models & Drawings / Transport-Z/CAD/06/Crouchley

Lane



Vnafs01/Projects/066001 - 067000/066027 - WBC Local Plan Site Promotions, Lymm/QMS 4 Production/4B Models & Drawings_Transport-Z/CAD/06/Crouchley Lane/



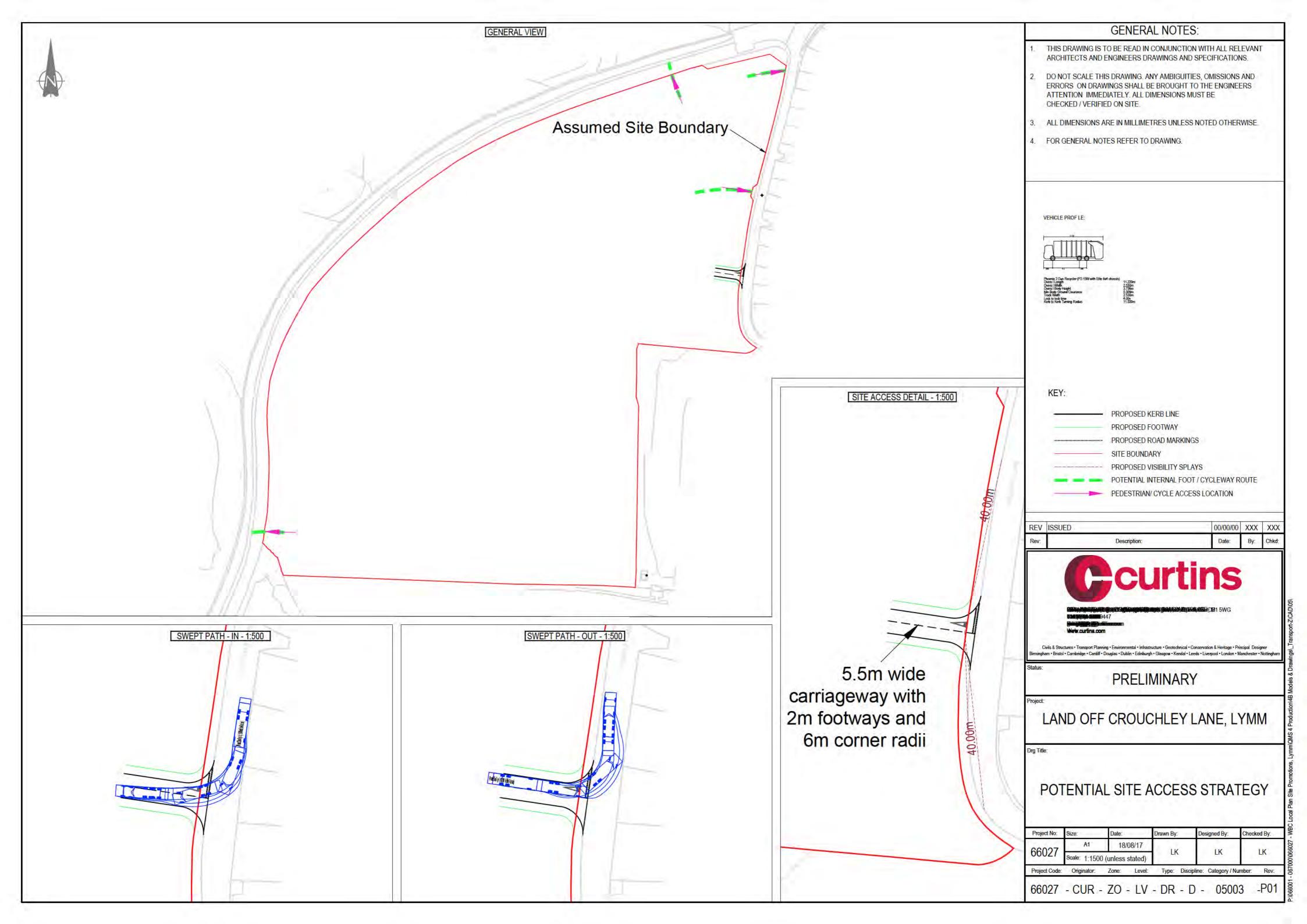
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Lane

66027/TN02 Land off Crouchley Lane, Lymm – Local Plan Review Site R18/065 Access & Transport Appraisal



Drawings



66027/TN02 Land off Crouchley Lane, Lymm – Local Plan Review Site R18/065 Access & Transport Appraisal



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Appendix A – TRICS Printouts

Calculation Reference: AUDIT-148301-170817-0811

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use	: 03 - RESIDENTIAL			
	: A - HOUSES PRIVATELY OWNED			
MUĽTÍ-MODAL VEHICLES				

0.1		
_	cted regions and areas:	
02		1
~~	HC HAMPSHIRE	1 days
03	SOUTH WEST	
	DV DEVON	2 days
04	EAST ANGLIA	
	NF NORFOLK	1 days
05	EAST MIDLANDS	
	NR NORTHAMPTONSHIRE	1 days
06	WEST MIDLANDS	
	SH SHROPSHIRE	1 days
07	YORKSHIRE & NORTH LINCOLNSHIRE	
	NY NORTH YORKSHIRE	2 days
	SY SOUTH YORKSHIRE	1 days
09	NORTH	
	DH DURHAM	1 days
11	SCOTLAND	
	FA FALKIRK	1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Secondary Filtering selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter:	Number of dwellings	
Actual Range:	50 to 161 (units:)	
Range Selected by User:	50 to 600 (units:)	

Public Transport Provision: Selection by:

Include all surveys

Date Range: 01/01/09 to 28/03/17

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:	
Monday	3 days
Tuesday	2 days
Wednesday	2 days
Thursday	1 days
Friday	2 days
Saturday	1 days

This data displays the number of selected surveys by day of the week.

Selected survey types:	
Manual count	11 days
Directional ATC Count	0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaking using machines.

Selected Locations:	
Suburban Area (PPS6 Out of Centre)	

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

11

This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Secondary Filtering selection:

Use Class: C3

11 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 1 mile:	
1,001 to 5,000	2 days
5,001 to 10,000	3 days
10,001 to 15,000	2 days
15,001 to 20,000	1 days
20,001 to 25,000	3 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:	
5,001 to 25,000	3 days
25,001 to 50,000	1 days
75,001 to 100,000	3 days
100,001 to 125,000	1 days
125,001 to 250,000	2 days
250,001 to 500,000	1 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:	
0.6 to 1.0	2 days
1.1 to 1.5	9 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

<u>Travel Plan:</u>	
Yes	1 days
No	10 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

<u>PTAL Rating:</u> No PTAL Present

11 days

This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

1	DH-03-A-01 SEMI DETACHED GREENFIELDS ROAD		DURHAM
2	BISHOP AUCKLAND Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: Survey date: TUESDAY DV-03-A-02 MILLHEAD ROAD	50 28/03/17 WS	Survey Type: MANUAL DEVON
3	HONITON Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: Survey date: FRIDAY DV-03-A-03 TERRACED & SEMI D LOWER BRAND LANE	116 25/09/15 ETACHED	Survey Type: MANUAL DEVON
4	HONITON Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: Survey date: MONDAY FA-03-A-02 MIXED HOUSES ROSEBANK AVENUE & SPRINGFIELD DRIVE	70 28/09/15	Survey Type: MANUAL FALKIRK
5	FALKIRK Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: Survey date: WEDNESDAY HC-03-A-18 HOUSES & FLATS CANADA WAY	161 29/05/13	Survey Type: MANUAL HAMPSHIRE
6	LIPHOOK Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: Survey date: TUESDAY NF-03-A-02 DEREHAM ROAD	62 29/11/16	Survey Type: MANUAL NORFOLK
7	NORWICH Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of dwellings: <i>Survey date: MONDAY</i> NR-03-A-01 HOUSES BOUGHTON GREEN ROAD KINGSTHORPE NORTHAMPTON Suburban Area (PPS6 Out of Centre)	98 22/10/12	Survey Type: MANUAL NORTHAMPTONSHIRE
	Residential Zone Total Number of dwellings: Survey date: SATURDAY	102 22/09/12	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

8	NY-03-A-06 Horsefair	BUNGALOWS & SEM	I DET.	NORTH YORKSHIRE
9	BOROUGHBRIDGE Suburban Area (PPS Residential Zone Total Number of dwa Survey date: NY-03-A-09	ellings:	115 <i>14/10/11</i>	Survey Type: MANUAL
5	GRAMMAR SCHOOL			NORTH TORRESHIRE
10	NORTHALLERTON Suburban Area (PPS Residential Zone Total Number of dwa <i>Survey date:</i> SH-03-A-04 ST MICHAEL'S STRE	ellings: MONDAY TERRACED	52 16/09/13	Survey Type: MANUAL SHROPSHIRE
	SHREWSBURY Suburban Area (PPS No Sub Category Total Number of dwa Survey date:	ellings:	108 11/06/09	Survey Type: MANUAL
11	SY-03-A-01 A19 BENTLEY ROAD BENTLEY RISE DONCASTER Suburban Area (PPS Residential Zone	6 Out of Centre)		SOUTH YORKSHIRE
	Total Number of dwe	ellings: <i>WEDNESDAY</i>	54 18/09/13	Survey Type: MANUAL
		······		

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

Thursday 17/08/17 Page 5 Licence No: 148301

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TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED **MULTI-MODAL VEHICLES Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period**

	ARRIVALS			[DEPARTURES	5	TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	11	90	0.051	11	90	0.234	11	90	0.285
08:00 - 09:00	11	90	0.107	11	90	0.309	11	90	0.416
09:00 - 10:00	11	90	0.141	11	90	0.153	11	90	0.294
10:00 - 11:00	11	90	0.130	11	90	0.164	11	90	0.294
11:00 - 12:00	11	90	0.118	11	90	0.145	11	90	0.263
12:00 - 13:00	11	90	0.165	11	90	0.148	11	90	0.313
13:00 - 14:00	11	90	0.159	11	90	0.152	11	90	0.311
14:00 - 15:00	11	90	0.126	11	90	0.158	11	90	0.284
15:00 - 16:00	11	90	0.203	11	90	0.129	11	90	0.332
16:00 - 17:00	11	90	0.231	11	90	0.149	11	90	0.380
17:00 - 18:00	11	90	0.310	11	90	0.175	11	90	0.485
18:00 - 19:00	11	90	0.193	11	90	0.139	11	90	0.332
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			1.934			2.055			3.989

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected:	50 - 161 (units:)
Survey date date range:	01/01/09 - 28/03/17
Number of weekdays (Monday-Friday):	10
Number of Saturdays:	1
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

Thursday 17/08/17 Page 6 Licence No: 148301

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TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED **MULTI-MODAL TAXIS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period**

	ARRIVALS			[DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate	
00:00 - 01:00										
01:00 - 02:00										
02:00 - 03:00										
03:00 - 04:00										
04:00 - 05:00										
05:00 - 06:00										
06:00 - 07:00										
07:00 - 08:00	11	90	0.000	11	90	0.000	11	90	0.000	
08:00 - 09:00	11	90	0.001	11	90	0.002	11	90	0.003	
09:00 - 10:00	11	90	0.006	11	90	0.004	11	90	0.010	
10:00 - 11:00	11	90	0.002	11	90	0.002	11	90	0.004	
11:00 - 12:00	11	90	0.001	11	90	0.001	11	90	0.002	
12:00 - 13:00	11	90	0.003	11	90	0.003	11	90	0.006	
13:00 - 14:00	11	90	0.002	11	90	0.002	11	90	0.004	
14:00 - 15:00	11	90	0.001	11	90	0.001	11	90	0.002	
15:00 - 16:00	11	90	0.003	11	90	0.002	11	90	0.005	
16:00 - 17:00	11	90	0.003	11	90	0.005	11	90	0.008	
17:00 - 18:00	11	90	0.004	11	90	0.003	11	90	0.007	
18:00 - 19:00	11	90	0.001	11	90	0.002	11	90	0.003	
19:00 - 20:00										
20:00 - 21:00										
21:00 - 22:00										
22:00 - 23:00										
23:00 - 24:00										
Total Rates:			0.027			0.027			0.054	

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP* FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected:	50 - 161 (units:)
Survey date date range:	01/01/09 - 28/03/17
Number of weekdays (Monday-Friday):	10
Number of Saturdays:	1
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

Thursday 17/08/17 Page 7 Licence No: 148301

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TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED **MULTI-MODAL OGVS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period**

	ARRIVALS			[DEPARTURES	5	TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	11	90	0.000	11	90	0.000	11	90	0.000
08:00 - 09:00	11	90	0.002	11	90	0.001	11	90	0.003
09:00 - 10:00	11	90	0.001	11	90	0.002	11	90	0.003
10:00 - 11:00	11	90	0.002	11	90	0.000	11	90	0.002
11:00 - 12:00	11	90	0.002	11	90	0.002	11	90	0.004
12:00 - 13:00	11	90	0.003	11	90	0.001	11	90	0.004
13:00 - 14:00	11	90	0.003	11	90	0.005	11	90	0.008
14:00 - 15:00	11	90	0.001	11	90	0.002	11	90	0.003
15:00 - 16:00	11	90	0.001	11	90	0.002	11	90	0.003
16:00 - 17:00	11	90	0.000	11	90	0.000	11	90	0.000
17:00 - 18:00	11	90	0.001	11	90	0.001	11	90	0.002
18:00 - 19:00	11	90	0.001	11	90	0.001	11	90	0.002
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.017			0.017			0.034

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP* FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected:	50 - 161 (units:)
Survey date date range:	01/01/09 - 28/03/17
Number of weekdays (Monday-Friday):	10
Number of Saturdays:	1
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

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Curtins Consulting Ltd 10 Oxford Street Manchester

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED **MULTI-MODAL PSVS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period**

	ARRIVALS			[DEPARTURES	;	TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	11	90	0.000	11	90	0.000	11	90	0.000
08:00 - 09:00	11	90	0.000	11	90	0.000	11	90	0.000
09:00 - 10:00	11	90	0.000	11	90	0.000	11	90	0.000
10:00 - 11:00	11	90	0.000	11	90	0.000	11	90	0.000
11:00 - 12:00	11	90	0.000	11	90	0.000	11	90	0.000
12:00 - 13:00	11	90	0.000	11	90	0.000	11	90	0.000
13:00 - 14:00	11	90	0.000	11	90	0.000	11	90	0.000
14:00 - 15:00	11	90	0.000	11	90	0.000	11	90	0.000
15:00 - 16:00	11	90	0.000	11	90	0.000	11	90	0.000
16:00 - 17:00	11	90	0.000	11	90	0.000	11	90	0.000
17:00 - 18:00	11	90	0.000	11	90	0.000	11	90	0.000
18:00 - 19:00	11	90	0.000	11	90	0.000	11	90	0.000
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.000			0.000			0.000

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP* FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected:	50 - 161 (units:)
Survey date date range:	01/01/09 - 28/03/17
Number of weekdays (Monday-Friday):	10
Number of Saturdays:	1
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

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Curtins Consulting Ltd 10 Oxford Street Manchester

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED **MULTI-MODAL CYCLISTS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period**

	ARRIVALS			DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	11	90	0.001	11	90	0.014	11	90	0.015
08:00 - 09:00	11	90	0.003	11	90	0.013	11	90	0.016
09:00 - 10:00	11	90	0.001	11	90	0.008	11	90	0.009
10:00 - 11:00	11	90	0.005	11	90	0.005	11	90	0.010
11:00 - 12:00	11	90	0.004	11	90	0.004	11	90	0.008
12:00 - 13:00	11	90	0.005	11	90	0.007	11	90	0.012
13:00 - 14:00	11	90	0.003	11	90	0.002	11	90	0.005
14:00 - 15:00	11	90	0.004	11	90	0.008	11	90	0.012
15:00 - 16:00	11	90	0.013	11	90	0.004	11	90	0.017
16:00 - 17:00	11	90	0.010	11	90	0.004	11	90	0.014
17:00 - 18:00	11	90	0.017	11	90	0.008	11	90	0.025
18:00 - 19:00	11	90	0.013	11	90	0.004	11	90	0.017
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.079			0.081			0.160

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected:	50 - 161 (units:)
Survey date date range:	01/01/09 - 28/03/17
Number of weekdays (Monday-Friday):	10
Number of Saturdays:	1
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED **MULTI-MODAL VEHICLE OCCUPANTS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period**

	ARRIVALS			[DEPARTURES	5	TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	11	90	0.068	11	90	0.270	11	90	0.338
08:00 - 09:00	11	90	0.131	11	90	0.423	11	90	0.554
09:00 - 10:00	11	90	0.162	11	90	0.197	11	90	0.359
10:00 - 11:00	11	90	0.166	11	90	0.215	11	90	0.381
11:00 - 12:00	11	90	0.150	11	90	0.199	11	90	0.349
12:00 - 13:00	11	90	0.207	11	90	0.189	11	90	0.396
13:00 - 14:00	11	90	0.215	11	90	0.212	11	90	0.427
14:00 - 15:00	11	90	0.161	11	90	0.218	11	90	0.379
15:00 - 16:00	11	90	0.315	11	90	0.163	11	90	0.478
16:00 - 17:00	11	90	0.311	11	90	0.215	11	90	0.526
17:00 - 18:00	11	90	0.418	11	90	0.232	11	90	0.650
18:00 - 19:00	11	90	0.259	11	90	0.199	11	90	0.458
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.563			2.732			5.295

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP* FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected:	50 - 161 (units:)
Survey date date range:	01/01/09 - 28/03/17
Number of weekdays (Monday-Friday):	10
Number of Saturdays:	1
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

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Curtins Consulting Ltd 10 Oxford Street Manchester

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED **MULTI-MODAL PEDESTRIANS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period**

		ARRIVALS		[DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate	
00:00 - 01:00										
01:00 - 02:00										
02:00 - 03:00										
03:00 - 04:00										
04:00 - 05:00										
05:00 - 06:00										
06:00 - 07:00										
07:00 - 08:00	11	90	0.022	11	90	0.075	11	90	0.097	
08:00 - 09:00	11	90	0.052	11	90	0.187	11	90	0.239	
09:00 - 10:00	11	90	0.064	11	90	0.074	11	90	0.138	
10:00 - 11:00	11	90	0.060	11	90	0.068	11	90	0.128	
11:00 - 12:00	11	90	0.039	11	90	0.044	11	90	0.083	
12:00 - 13:00	11	90	0.065	11	90	0.041	11	90	0.106	
13:00 - 14:00	11	90	0.036	11	90	0.065	11	90	0.101	
14:00 - 15:00	11	90	0.045	11	90	0.058	11	90	0.103	
15:00 - 16:00	11	90	0.141	11	90	0.088	11	90	0.229	
16:00 - 17:00	11	90	0.120	11	90	0.064	11	90	0.184	
17:00 - 18:00	11	90	0.100	11	90	0.040	11	90	0.140	
18:00 - 19:00	11	90	0.054	11	90	0.047	11	90	0.101	
19:00 - 20:00										
20:00 - 21:00										
21:00 - 22:00										
22:00 - 23:00										
23:00 - 24:00										
Total Rates:			0.798			0.851			1.649	

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected:	50 - 161 (units:)
Survey date date range:	01/01/09 - 28/03/17
Number of weekdays (Monday-Friday):	10
Number of Saturdays:	1
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED **MULTI-MODAL BUS/TRAM PASSENGERS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period**

		ARRIVALS		DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	11	90	0.001	11	90	0.008	11	90	0.009
08:00 - 09:00	11	90	0.001	11	90	0.018	11	90	0.019
09:00 - 10:00	11	90	0.000	11	90	0.005	11	90	0.005
10:00 - 11:00	11	90	0.002	11	90	0.005	11	90	0.007
11:00 - 12:00	11	90	0.002	11	90	0.002	11	90	0.004
12:00 - 13:00	11	90	0.004	11	90	0.009	11	90	0.013
13:00 - 14:00	11	90	0.004	11	90	0.001	11	90	0.005
14:00 - 15:00	11	90	0.003	11	90	0.004	11	90	0.007
15:00 - 16:00	11	90	0.006	11	90	0.006	11	90	0.012
16:00 - 17:00	11	90	0.009	11	90	0.004	11	90	0.013
17:00 - 18:00	11	90	0.013	11	90	0.002	11	90	0.015
18:00 - 19:00	11	90	0.012	11	90	0.000	11	90	0.012
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.057			0.064			0.121

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected:	50 - 161 (units:)
Survey date date range:	01/01/09 - 28/03/17
Number of weekdays (Monday-Friday):	10
Number of Saturdays:	1
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED **MULTI-MODAL TOTAL RAIL PASSENGERS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period**

	ARRIVALS			[DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate	
00:00 - 01:00										
01:00 - 02:00										
02:00 - 03:00										
03:00 - 04:00										
04:00 - 05:00										
05:00 - 06:00										
06:00 - 07:00										
07:00 - 08:00	11	90	0.000	11	90	0.014	11	90	0.014	
08:00 - 09:00	11	90	0.000	11	90	0.004	11	90	0.004	
09:00 - 10:00	11	90	0.000	11	90	0.002	11	90	0.002	
10:00 - 11:00	11	90	0.000	11	90	0.001	11	90	0.001	
11:00 - 12:00	11	90	0.000	11	90	0.001	11	90	0.001	
12:00 - 13:00	11	90	0.000	11	90	0.001	11	90	0.001	
13:00 - 14:00	11	90	0.000	11	90	0.000	11	90	0.000	
14:00 - 15:00	11	90	0.001	11	90	0.001	11	90	0.002	
15:00 - 16:00	11	90	0.000	11	90	0.003	11	90	0.003	
16:00 - 17:00	11	90	0.001	11	90	0.000	11	90	0.001	
17:00 - 18:00	11	90	0.006	11	90	0.000	11	90	0.006	
18:00 - 19:00	11	90	0.009	11	90	0.001	11	90	0.010	
19:00 - 20:00										
20:00 - 21:00										
21:00 - 22:00										
22:00 - 23:00										
23:00 - 24:00										
Total Rates:			0.017			0.028			0.045	

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected:	50 - 161 (units:)
Survey date date range:	01/01/09 - 28/03/17
Number of weekdays (Monday-Friday):	10
Number of Saturdays:	1
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED **MULTI-MODAL COACH PASSENGERS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period**

	ARRIVALS			[DEPARTURES	5	TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	11	90	0.000	11	90	0.000	11	90	0.000
08:00 - 09:00	11	90	0.000	11	90	0.000	11	90	0.000
09:00 - 10:00	11	90	0.000	11	90	0.000	11	90	0.000
10:00 - 11:00	11	90	0.000	11	90	0.000	11	90	0.000
11:00 - 12:00	11	90	0.000	11	90	0.000	11	90	0.000
12:00 - 13:00	11	90	0.000	11	90	0.000	11	90	0.000
13:00 - 14:00	11	90	0.000	11	90	0.000	11	90	0.000
14:00 - 15:00	11	90	0.000	11	90	0.000	11	90	0.000
15:00 - 16:00	11	90	0.000	11	90	0.000	11	90	0.000
16:00 - 17:00	11	90	0.000	11	90	0.000	11	90	0.000
17:00 - 18:00	11	90	0.000	11	90	0.000	11	90	0.000
18:00 - 19:00	11	90	0.000	11	90	0.000	11	90	0.000
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			0.000			0.000			0.000

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP* FACT. Trip rates are then rounded to 3 decimal places.

Parameter summary

Trip rate parameter range selected:	50 - 161 (units:)
Survey date date range:	01/01/09 - 28/03/17
Number of weekdays (Monday-Friday):	10
Number of Saturdays:	1
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED **MULTI-MODAL PUBLIC TRANSPORT USERS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period**

	ARRIVALS			[DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate	
00:00 - 01:00										
01:00 - 02:00										
02:00 - 03:00										
03:00 - 04:00										
04:00 - 05:00										
05:00 - 06:00										
06:00 - 07:00										
07:00 - 08:00	11	90	0.001	11	90	0.022	11	90	0.023	
08:00 - 09:00	11	90	0.001	11	90	0.022	11	90	0.023	
09:00 - 10:00	11	90	0.000	11	90	0.007	11	90	0.007	
10:00 - 11:00	11	90	0.002	11	90	0.006	11	90	0.008	
11:00 - 12:00	11	90	0.002	11	90	0.003	11	90	0.005	
12:00 - 13:00	11	90	0.004	11	90	0.010	11	90	0.014	
13:00 - 14:00	11	90	0.004	11	90	0.001	11	90	0.005	
14:00 - 15:00	11	90	0.004	11	90	0.005	11	90	0.009	
15:00 - 16:00	11	90	0.006	11	90	0.009	11	90	0.015	
16:00 - 17:00	11	90	0.010	11	90	0.004	11	90	0.014	
17:00 - 18:00	11	90	0.019	11	90	0.002	11	90	0.021	
18:00 - 19:00	11	90	0.021	11	90	0.001	11	90	0.022	
19:00 - 20:00										
20:00 - 21:00										
21:00 - 22:00										
22:00 - 23:00										
23:00 - 24:00										
Total Rates:			0.074			0.092			0.166	

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

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Number of weekdays (Monday-Friday):	10
Number of Saturdays:	1
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

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TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED **MULTI-MODAL TOTAL PEOPLE Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period**

	ARRIVALS			[DEPARTURES			TOTALS		
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip	
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate	
00:00 - 01:00										
01:00 - 02:00										
02:00 - 03:00										
03:00 - 04:00										
04:00 - 05:00										
05:00 - 06:00										
06:00 - 07:00										
07:00 - 08:00	11	90	0.092	11	90	0.382	11	90	0.474	
08:00 - 09:00	11	90	0.186	11	90	0.646	11	90	0.832	
09:00 - 10:00	11	90	0.227	11	90	0.286	11	90	0.513	
10:00 - 11:00	11	90	0.233	11	90	0.294	11	90	0.527	
11:00 - 12:00	11	90	0.195	11	90	0.250	11	90	0.445	
12:00 - 13:00	11	90	0.281	11	90	0.248	11	90	0.529	
13:00 - 14:00	11	90	0.258	11	90	0.279	11	90	0.537	
14:00 - 15:00	11	90	0.214	11	90	0.288	11	90	0.502	
15:00 - 16:00	11	90	0.475	11	90	0.264	11	90	0.739	
16:00 - 17:00	11	90	0.451	11	90	0.286	11	90	0.737	
17:00 - 18:00	11	90	0.555	11	90	0.282	11	90	0.837	
18:00 - 19:00	11	90	0.347	11	90	0.251	11	90	0.598	
19:00 - 20:00										
20:00 - 21:00										
21:00 - 22:00										
22:00 - 23:00										
23:00 - 24:00										
Total Rates:			3.514			3.756			7.270	

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

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Surveys manually removed from selection:	0

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Job Title 926-01 – Crouchley Lane, Lymm

Prepared for

Stamford Property Holdings

Report Type Preliminary Site Constraints Report

Date

23rd August 2017

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	1.3 Site History
2	Site Constants
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	2.2 Anticipated Ground Conditions
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	2.4 Existing Utilities Search
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	3.3 Foul Water Drainage Strategy

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Prepared by	
Reviewed by	
Civic Job No.	926/01
Issued	23/08/17
Revised	

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1. Introduction

1.1 Purpose of Report

The following report, by Civic Engineers, is to identify any constraints to development of a greenfield site located within the Greenbelt into residential dwellings.

This report is prepared for the exclusive use of Civic Engineers and our client, Stamford Property Holdings. All comments and conclusions in this report are based upon the assumption that the sourced data is reliable. Civic Engineers accepts no liability for any inaccurate conclusions or assumptions resulting from inaccurate information.

1.2 Site Location

The subject site is located at Crouchley Lane on the outskirts of Lymm, Cheshire (Figure 1 below) and is bounded to the north by a public footpath and woodland, to the east by Crouchley Lane and the grounds to Lymm Rugby Club, to the south by playing fields and to the west by a continuation of the public footpath and Lymm Dam (figure 2 below).



The site is currently used as farmer's fields for cattle grazing.

Figure 1: Site location



Figure 2 – Site boundary

1.3 Site History

The earliest historical map of the site is dated 1875-1876 and shows the site to be predominantly greenfield and grounds associated with Beechwood Hall, which is situated in the location of the current rugby club to the east of the development site. A larger pond or water feature is shown within the south-east boundary of the site, with a further, smaller pond shown to the east boundary. Though unmarked, Lymm Dam is shown to the west of the site with a boat house on the banks of the water on the site boundary side. A woodland and lodge building is shown to the north east within the site boundary.

The 1898 map shows a similar configuration, though Lymm Dam, previous unmarked, is noted as Top Dam with a sluice identified to the south-west of the site.

The site remains unchanged in the main until the 1937 (partial) map where train tracks are shown to the north and north-west of the site in the line and location of the current footpath.

The 1968 map shows the above mentioned tracks more defined, and tree-lined and the conversion of Beechwood Hall to the current rugby club is also noted. The land beyond the fields immediately south of the site boundary is noted as a reservoir for the first time, though this appears to have been present in a similar arrangement since the first (1875-76) map.

Little change is shown until the 1983 map whereby the development site is noted as playing fields, assumed to be associated with the adjacent rugby club (formerly Beechwood Hall).

The 1989-1992 map shows the previously identified reservoir beyond the southern boundary of the development site to be identified as a pond and marsh and has clearly reduced in scale from previous

maps suggesting this is no longer active. The previously identified railway tracks are now noted as path, though it is unclear of the extract date period of when this change occurred.

An aerial photograph of the site, from 2000, is available and shows the site to be used as farmland with a number of scattered trees throughout. Evidence of depressions associated with the previously identified ponds are evident. The site appears to have remained in this configuration until present day, though a further depression to the north-west boundary of the site is evident.

2. Site Constants

2.1 Ground Water Vulnerability

The ground water vulnerability map shows the site to be located, predominantly, over a non-aquifer, however, a portion of the site to the north sits over a major and principle aquifer and is considered to fall within a 'source protection zone'.

2.2 Anticipated Ground Conditions

Interpolation of historical borehole log data in the vicinity of the site, taken from the British Geological Survey records, suggests the site has approximately 0.5m of top soil underlain by approximately 0.4m to 1.6m of clayey sand, becoming dense sand, which is anticipated to be underlain by sandstone bedrock. The historical boreholes available terminate at a depth of 2.6m below ground level, though the records suggest the borehole investigation is likely to be approaching the sandstone bedrock at this depth.

The areas identified on historic maps, and visible on current aerial photographs of the site, as depressions and ponds/water features, are likely to pose a soft spot and backfill material. It is recommended these areas are investigated further via an intrusive ground investigation.

2.3 Site Sensitivity and Soil Geochemistry

Soil geochemistry maps from the Envirocheck report estimates slightly elevated concentration values of heavy metals (arsenic, chromium and nickel), though all figures fall below the CLEA guideline value (SGV) mg/kg for residential use.

2.4 Existing Utilities Search

Findings from the utilities maps search show that gas mains, water supply mains, BT fibre, LV electric mains and Virgin cable are all present below Crouchley Lane to the east of the proposed development site.

The nearest public sewer is suggested to be a combined sewer below private rear gardens to the dwellings along the opposite side of Crouchley Lane to the east of the development site.

The utilities maps suggest no existing services are within, or cross, the development site boundary.

2.5 Site Flood Risk

The site location falls outside of the Environment Agency's flood risk zones (considered flood zone 1) and is therefore not prone to flooding from rivers or sea.

Lymm Dam to the west and a small watercourse shown to the south of the site boundary, are shown to have a low to medium risk (100 year return) of flooding from surface water, though the extent of flooding does not appear to extend into the development site.

2.6 Coal Mining Risk

A search of the Coal Authority database has highlighted that the development site is considered in an area that is on a coalfield, though the risk of past coal mining below the site is not known at this stage.

3. Considerations for Development

3.1 Site Constraints

Section 2 of this report outlines potential constraints to development existing within, or at, the site boundary.

Typically, the geology of the site would suggest shallow foundations would be suitable, though this will be subject to a detailed, intrusive, and site/development specific, ground investigation being undertaken. The historical maps , and current aerial photography of the site suggest ponds or water features have, or currently exist, on the site, and it is likely these features will pose 'soft spots' in the geology and require local deeper foundation solutions. The backfilled material to these features may also pose a local risk of contaminated material or generation of ground gases.

The Coal Authority database search has suggested the site sits within a known area of coalfield. It is recommended that a consultants report is obtained that will determine whether the site is considered to be 'at risk' of past coal mining activity.

3.2 Surface Water Drainage Strategy

The site is a greenfield site, bounded on all sides by hedges, vegetation and woodland, private land of the neighbouring rugby club, or public highway to the east. There is no known existing formal drainage to the site and overland surface drainage follows the existing topography of the site and is anticipated to flow to the west of the site to the adjacent Lymm Dam or to the south of the site to an existing small watercourse.

The geological and historical borehole records consulted in section 2.2 of this report would suggest that infiltration/soakaway methods are not feasible means of disposal of surface water due to the presence of non-permeable strata at shallow depth.

There is a known watercourse in the immediate vicinity of the site (to the south and west boundary). The site previously had, and is suspected to still have, a small pond central to the site and at the north-west boundary, however the depth and size of these features are not currently known.

There is no separate surface water drainage network in the vicinity of the site and the nearest combined public sewer is apparent below private rear gardens to the dwellings along the opposite side of Crouchley Lane to the east of the development site.

Based on the constraints described above it is proposed, if proven accessible, to discharge surface water run-off from the site (plot drainage, private driveways and shared surface highways) to the identified watercourses to the south and/or west of the site, subject to agreement from the

Environment Agency, with the remaining runoff (from traditional highway drainage) into the combined sewer. Any new connection to the public sewer would be subject to agreement with United Utilities.

The scale and layout of any proposed development is not currently known, and therefore, it is not possible to determine discharge rates or attenuation volumes for the site. However, the drainage system and ground levels should be designed such that:

- unless an area is designed to hold and/or convey water, flooding does not occur on any part of the site for a 1 in 30-year rainfall event.

- flooding does not occur during a 1 in 100-year storm event (including 40% increase to allow for the anticipated impacts of climate change in any part of a building or in any utility plant susceptible to water (e.g. pumping station or electricity substation) within the development.

- flows resulting from rainfall in any event exceeding the 1 in 100-year rainfall event are managed in exceedance routes to minimise as far as practicable the risk of flooding to people and property both on and off site.

3.3 Foul Water Drainage Strategy

Foul drainage will discharge to the combined sewer as identified to the east of the proposed residential development site. The route, and associated point of connection, will be established following CCTV investigation and is subject to agreement with United Utilities.



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926-01 — Crouchley Lane, Lymm Site Constraints Key Map

Landscape Analysis

Land off Crouchley Lane, Lymm Stamford Property Holdings



September 2017



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1. Introduction and Scope of Assessment

- 1.1. This report provides a landscape and visual analysis of land off Crouchley Lane, south of Lymm, Warrington, which is being promoted by Stamford Property Holdings for residential-led development. The site referred to below as the 'assessment site' is shown in Appendix 3 **Plan 1**, and is located to the south of the settlement of Lymm.
- 1.2. Urban Green were commissioned in August 2017 by Paul Butler Associates to undertake this landscape and visual analysis.
- 1.3. Prior to the field work a desk review of existing and emerging planning policy and landscape character guidance relevant to the assessment site and surrounding area was undertaken. This report does not consider the full range of planning policy considerations, only those which are relevant to the landscape and visual considerations.
- 1.4. The landscape and visual analysis was prepared following site visits in August 2017. This assessment describes and evaluates the change to the landscape and visual amenity, the extent to which these affect perception and views of the landscape and also considers the effect(s) of the proposed development on the setting of listed buildings in proximity to the proposed development.
- 1.5. Landscape character and visual assessment, although closely related to one another, have been considered separately for reasons of clarity and robustness.
- 1.6. Within this report, the landscape and visual baseline environment of the Site and its surroundings are established and mitigation measures described. Taking these measures into account, the effects of the development are then predicted. This report focuses on the significant effects predicted to arise from the development.
- 1.7. This report is structured as follows:
 - a. Section 2 summarises the relevant parts of planning policy in respect of landscape and visual considerations.
 - b. Section 3 deals with the baseline; in respect of the landscape baseline, it identifies published documents on local landscape character, and adds supplemental points based on site visits to the area surrounding the assessment site; and sets out a description of the visual baseline.
 - c. Sections 4 and 5 set out an assessment of the landscape and visual effects of the proposed development;
 - d. Section 6 sets out the potential effects on the purposes for the Green Belt designation
 - e. Section 7 sets out the landscape strategy for the site and an overall conclusion.

2. Landscape Planning Policy Context

National Planning Policy Framework

2.1. National planning policy for England is defined within the National Planning Policy Framework (herein referred to as the NPPF) that has distilled the content of previous Planning Policy Statements into one comprehensive document. The NPPF is the relevant national planning policy document against which to test the proposals.

General Considerations

2.2. As a central theme, the NPPF has a presumption in favour of sustainable development (para. 14) for which it defines three mutually interdependent dimensions of sustainability (para. 7) to be jointly sought (economic, social and environmental). With relevance to landscape and visual matters the third dimension states:

"an environmental role – contributing to protecting and enhancing our natural, built and historic environment;...."

2.3. The planning system is identified as the vehicle for guiding development to sustainable solutions and seeking positive improvements in the quality of built, natural and historic environments based on local circumstances (para. 10, author's emphasis).

Core Principles

2.4. Paragraph 17 lists the 12 core planning principles that should underpin planning decisions. Of these, the following are considered pertinent to landscape and visual amenity:

(5th) take account of the different roles and character of different areas, promoting the vitality, main urban areas.... Recognising the intrinsic character and beauty of the countryside and supporting thriving rural communities within it.

(7th) contribute to conserving and enhancing the natural environment and reducing pollution. Allocations of land for development should prefer land of lesser environmental value, where consistent with other policies in this Framework.

(10th) conserve heritage assets in a manner appropriate to their significance, so that they can be enjoyed for their contribution to the quality of life of this and future generations." (NPPF, para. 17).

Section 11 (Conserving and enhancing the natural environment)

- 2.5. This section of the NPPF identifies a requirement in favour of protecting and enhancing valued landscapes (para 109) by focussing development on land of least environmental or amenity value (para 110).
- 2.6. As listed in the NPPF, these valued landscapes are defined as:
 - Sites of Special Scientific Interest;
 - Land designated as Green Belt;
 - Local Green Space;

- Area of Outstanding Natural Beauty;
- Heritage Coast; and
- National Parks
- 2.7. The site and the surrounding landscape fall within the Green Belt, and this is described in further detail in Section 6.

Local Landscape Policy

2.8. We have briefly outlined the key policies that relate to landscape and visual matters below.

Adopted Policy

- 2.9. Section 38(6) of the Planning and Compulsory Purchase Act 2004 places a requirement upon Authorities when determining planning applications to do so in accordance with the adopted Development Plan unless material considerations indicate otherwise.
- 2.10. The adopted policies of the Local Plan comprises of the following document:
 - Warrington Local Plan Core Strategy (adopted July 2014)
- 2.11. The relevant policies within the above noted documents are as follows:

Policy CS 5 - Green Belt

Policy CS 5

Overall Spatial Strategy - Green Belt

The Council will maintain the general extent of the Green Belt for as far as can be seen ahead and at least until 2032, in recognition of its purposes:

- to check the unrestricted sprawl of large built-up areas;
- to prevent neighbouring towns from merging into one another;
- to assist in safeguarding the countryside from encroachment; and
- to assist in urban regeneration by encouraging the recycling of derelict and other urban land.

The boundaries of the Green Belt in Warrington, which is contiguous with the Green Belt in Merseyside, Greater Manchester, and North Cheshire, are shown on the Policies Map.

The strategic locations and proposals set out in Policy CS2 - Quantity and Distribution of Development provide for significant growth throughout and beyond the plan period. There is therefore no need to review Strategic Green Belt boundaries during the plan period.

A minor detailed change to the approved Green Belt boundary in the Warrington Unitary Development Plan has been made at Bents Garden Centre, Glazebury.

Development Proposals within the Green Belt will be approved where they accord with relevant national policy.

Policy QE 5

Biodiversity and Geodiversity

The Council will work with partners to protect and where possible enhance sites of recognised nature and geological value. These efforts will be guided by the principles set out in National Planning Policy and those which underpin the strategic approach to the care and management of the borough's Green Infrastructure in its widest sense.

Sites and areas recognised for their nature and geological value are shown on the Policies Map and include:

- European Sites of International Importance
- Sites of Special Scientific Interest
- Regionally Important Geological Sites
- Local Nature Reserves
- Local Wildlife Sites
- Wildlife Corridors

The specific sites covered by the above designations at the time of publication are detailed in Appendix 3.

Proposals for development which may affect **European Sites of International Importance** will be subject to the most rigorous examination in accordance with the Habitats Directive. Development or land use change not directly connected with or necessary to the management of the site and which is likely to have significant effects on the site (either individually or in combination with other plans or projects) and which would affect the integrity of the site, will not be permitted unless the Council is satisfied that;

- there is no alternative solution; and
- there are imperative reasons of over-riding public interest for the development or land use change.

Proposals for development in or likely to affect Sites of Special Scientific Interest (SSSI) will be subject to special scrutiny. Where such development may have an adverse effect, directly or indirectly, on the SSSI it will not be permitted unless the reasons for the development clearly outweigh the nature conservation value of the site itself and the national policy to safeguard the national network of such sites.

Proposals for development likely to have an adverse effect on regionally and locally designated sites will not be permitted unless it can be clearly demonstrated that there are reasons for the development which outweigh the need to safeguard the substantive nature conservation value of the site or feature.

Proposals for development which may adversely affect the integrity or continuity of UK Key habitats or other habitats of local importance, or adversely affect EU Protected Species, UK Priority Species or other species of local importance, or which are the subject of Local Biodiversity Action Plans will only be permitted if it can be shown that the reasons for the development clearly outweigh the need to retain the habitats or species affected and that mitigating measures can be provided which would reinstate the habitats or provide equally viable alternative refuge sites for the species affected.

All development proposals affecting protected sites, wildlife corridors, key habitats or priority species (as identified in Local Biodiversity Action Plans) should be accompanied by information proportionate to their nature conservation value including;

- a site survey where necessary to identify features of nature and geological conservation importance; an assessment of the likely impacts of the proposed development proposals for the protection and management of features identified for retention;
- an assessment of whether the reasons for the development clearly outweigh the nature conservation value of the site, area or species; and
- proposals for compensating for features damaged or destroyed during the development process

Where development is permitted, the Council will consider the use of conditions or planning obligations to ensure the protection and enhancement of the site's nature conservation interest and/or to provide appropriate compensatory measures.

Policy QE6 - Environment and Amenity Protection

Policy QE 6

Environment and Amenity Protection

The Council, in consultation with other Agencies, will only support development which would not lead to an adverse impact on the environment or amenity of future occupiers or those currently occupying adjoining or nearby properties, or does not have an unacceptable impact on the surrounding area. The Council will take into consideration the following:

- The integrity and continuity of tidal and fluvial flood defences;
- The quality of water bodies, including canals, rivers, ponds and lakes;
- Groundwater resources in terms of their quantity, quality and the ecological features they support;
- Land quality;
- Air quality;
- Noise and vibration levels and times when such disturbances are likely to occur;
- Levels of light pollution and impacts on the night sky;
- Levels of odours, fumes, dust, litter accumulation and refuse collection / storage.
- The need to respect the living conditions of existing neighbouring residential occupiers and future occupiers of new housing schemes in relation to overlooking/loss of privacy, outlook, sunlight, daylight, overshadowing, noise and disturbance;
- The effect and timing of traffic movement to, from and within the site and car parking including impacts on highway safety;
- The ability and the effect of using permitted development rights to change use within the same Use Class (as set out in the in the Town and Country Planning (General Permitted Development Order) without the need to obtain planning consent.

Proposals may be required to submit detailed assessments in relation to any of the above criteria to the Council for approval.

Where development is permitted which may have an impact on such considerations, the Council will consider the use of conditions or planning obligations to ensure any appropriate mitigation or compensatory measures are secured.

Development proposals on land that is (or is suspected to be) affected by contamination or ground instability or has a sensitive end use must include an assessment of the extent of the issues and any possible risks. Development will only be permitted where the land is, or is made, suitable for the proposed use.

Additional guidance to support the implementation of this policy is provided in the Design and Construction and Environmental Protection Supplementary Planning Documents.

Policy QE7

Ensuring a High Quality Place

The Council will look positively upon proposals that are designed to;

- be sustainable, durable, adaptable and energy efficient;
- create inclusive, accessible and safe environments;
- function well in relation to existing patterns of movement and activity;
- reinforce local distinctiveness and enhance the character, appearance and function of the street scene, local area and wider townscape;
- harmonise with the scale, proportions and materials of adjacent and / or existing buildings;
- maintain and respect the landscape character and, where appropriate, distinctiveness of the surrounding countryside;
- use the density and mix of development to optimise the potential of the site without damaging the character of the area; and
- be visually attractive as a result of good architecture and the inclusion of appropriate public space.

Developers will be encouraged to engage with neighbourhoods and communities in developing design solutions. Where appropriate, developments should harness the imagination and creative skills of artists and urban designers in the design process to create distinctive urban environments.

The Council will promote design excellence in new housing developments and will use accepted environmental standards such as Building for Life and the Code for Sustainable Homes to evaluate the design quality of all proposals for major residential development within the borough.

Additional guidance to support the implementation of this policy is provided in the Design and Construction Supplementary Planning Document.

Policy QE 8

Historic Environment

The Council will ensure that the fabric and setting of heritage assets, as set out below, are appropriately protected and enhanced in accordance with the principles set out in National Planning Policy.

- Scheduled Monuments
- Listed Buildings
- Conservation Areas
- Areas of known or potential Archaeological Interest
- Locally Listed Heritage Assets

The Council and its partners will aim to recognise the significance and value of historic assets by identifying their positive influence on the character of the environment and an area's sense of place; their ability to contribute to economic activity and act as a catalyst for regeneration; and their ability to inspire the design of new development.

Heritage Assets such as buildings, structures and sites which are valued as good examples of local architectural styles or for their historic associations, are included on a local list produced by the Council. The buildings, structures and sites included on this list are detailed in Appendix 4.

To be included on the local list, an asset should be substantially unaltered and retain the majority of its original features and either:

- 1. be a good example of a particular local asset type, craftsmanship, architectural quality, style or detailing, or
- display physical evidence of periods of local economic, technical or social significance, well-known local people or historic events

Development proposals which affect the character and setting of all heritage assets will be required to provide supporting information proportionate to the designation of the asset which;

- adopts a strong vision of what could be achieved which is rooted in an understanding of the asset's significance and value, including its setting;
- avoids the unnecessary loss of and any decay to the historic fabric which once lost cannot be restored;
- recognises and enhances the asset's contribution to the special qualities, local distinctiveness
 and unique physical aspects of the area;
- fully accords with the design principles outlined elsewhere within the Local Planning Framework;
- includes suitable mitigation measures, including an appropriate desk-based assessment and where necessary field evaluation and publication, for areas with known or potential archaeological interest.
- ensures the knowledge and understanding of the historic environment is available for this and future generations. The evidence arising from any investigations should be publicly accessible through the Historic Environment Record and the local museum.

Applications for new development will also be required to take all reasonable steps to retain and incorporate non-statutorily protected heritage assets contributing to the quality of the borough's broader historic environment. 2.12. The adoption of parts of the Warrington Local Plan Core Strategy was met with a High Court Challenge in February 2015, with the decision ordering removal of elements of Housing policies from the Local Plan. As part of this process, the Council have undertaken a Call for Sites exercise in October 2016, in which the site was included.

3. Baseline

The Landscape Baseline - Landscape Character

- 3.1. Landscape assessment is based on an evaluation of the sensitivity of the existing landscape and the magnitude of change associated with the introduction of the development into the landscape resource.
- 3.2. The landscape of the area has been studied at various scales and there are landscape character assessment publications available at national and county levels. This study has reviewed the findings of these publications.
- 3.3. At the broadest scale the landscape of the area falls into National Character Area (NCA) 60: Mersey Valley.
- 3.4. At County level the document: A landscape character appraisal of Warrington provides a finer grain landscape character assessment. This document places the site in the landscape character type 3: Red Sandstone Escarpment, sub-type C: Lymm.
- 3.5. Some key characteristics recorded for the Red Sandstone Escarpment character type, sub-type C: Lymm within the NCA60: Mersey Valley national character area are:
 - Smaller scale, more intimate rural landscape
 - Luxuriant hedgerow trees with diverse range of species
 - Rolling landscape
 - Restricted views
- 3.6. The site of the proposed development is not subject to any landscape designations. The site is designated as Green Belt, though this is not strictly considered a landscape designation.

Local Landscape Character

- 3.7. At a local level, the character of the assessment site is one heavily influenced by the current use as pastoral land, with large scale fields. The western and northwest boundary to the site is formed by a tall, dense treeline associated with the fringe of Lymm Dam, which provides a strong visual buffer to views from the west. To the immediate east of the site lie residential properties along Crouchley Lane, which represent the southern extent of the Lymm settlement boundary. To the south east lies Lymm Rugby Club, beyond which lies open land currently in agricultural use and designated as Green Belt. This is also true for the open land located to the south and south west of the site. The boundaries to the site comprise a combination of boundary treatments including post and wire fencing, post and rail fencing, hedgerow trees, and stone walling associated with the boundary with Crouchley Lane.
- 3.8. Landscape and Heritage designations that lie within 1km of the site include the following:
 - A total of 29 Listed Buildings are located within 1 km of the site;
 - Lymm Conservation area is located immediately adjacent to the site;

- 'Lymm Hall Moated Site and Ice House' and 'Two Cockpits 125m west of Lymm Hall' Scheduled Monuments are located approximately 290m and 330m to the north of the site respectively.
- 3.9. The assessment site falls within an area designated as Green Belt land.
- 3.10. No other National or Regional landscape or heritage designations are found within 2 km of the site.

Land Use

3.11. The assessment site is currently utilised as open pastoral farmland.

Topography

3.12. The assessment site is generally very flat, at approximately +42m AOD towards the south west, and +53m AOD to the north east of the site.

Vegetation

3.13. The entirety of the assessment site comprises pastoral field grassland, with occasional mature trees located throughout the site and along its boundaries. Intermittent outgrown hedgerow trees in and other vegetation is also located along the site boundaries.

Water Features

3.14. There are no permanent water features located on site, although a depression towards the western boundary occasionally holds water after rainfall.

Built Elements and Designations

- 3.15. Built elements on site are currently reserved to the boundaries. These include a combination of post and wire and post and rail fencing along the southern, south western, south eastern, northern and north western boundaries, and stone walling along the eastern boundary with Crouchley Lane. Occasional metal access gates are also present along the site boundaries, particularly to the east.
- 3.16. There are 29 listed buildings and 2 Scheduled Monuments within 1km of the assessment site, and Lymm Conservation Area abuts the site's western and north western boundaries. The land is also designated as Green Belt.

Public Rights of Way

3.17. There are no public rights of way within the site itself, although there are a total of 12 Footpaths located within 1km of the site. The closest, Footpath WG/Lymm/40 runs parallel to the western and north western site boundaries, alongside Lymm Dam.

Landscape Designations

National level landscape designations

- 3.18. The following are the three national level landscape designations that mark the intrinsic landscape quality of an area and actively seek to manage the conservation and enhancement of these areas;
 - National Park;
 - Area of Outstanding Natural Beauty;
 - Heritage Coast
- 3.19. None of these designations apply to the site or its surrounding area.

Registered Park and Gardens

3.20. Registered Parks and Gardens (RPGs) are listed in the English Heritage 'Register of Historic Parks and Gardens of special historic interest in England'. There are no Registered Parks and Gardens identified within 2km of the proposed development.

The Visual Baseline

- 3.21. The appraisal commences with the identification of representative visual receptors.
- 3.22. A Summary table of key visual receptors and key views is presented below.

Table 1: Photograph locations

Photograph Number	Description	Representative Receptor Type	Distance & Direction from Proposed Development
1	On northern site boundary, close to car park	Footpath WG/Lymm/40; Lymm Conservation Area; Lymm Dam Complex Local Wildlife Site	~0m to the north
2	Footpath WG/Lymm/40, close to south western site boundary	Footpath WG/Lymm/40; Lymm Conservation Area; Lymm Dam Complex Local Wildlife Site	~25m to south west
3	Footpath WG/Lymm/40, close to western site boundary	Footpath WG/Lymm/40; Lymm Conservation Area; Lymm Dam Complex Local Wildlife Site	~5m to the north west
4	Footpath WG/Lymm/4 (centre)	Footpath WG/Lymm/4; Lymm Conservation Area; Lymm Dam Complex Local Wildlife Site	~165m to the west

Photograph Number	Description	Representative Receptor Type	Distance & Direction from Proposed Development
5	Footpath WG/Lymm/4 (south)	Footpath WG/Lymm/4; Lymm Conservation Area; Lymm Dam Complex Local Wildlife Site	~135m to the west
6	Footpath WG/Lymm/4 (north)	Footpath WG/Lymm/4; Lymm Conservation Area; Lymm Dam Complex Local Wildlife Site; Residents of properties at Baycliffe	~230m to north wes
7	Lymm Bridge / Church Road	Road users along Church Road; Listed Building 'Lymm Bridge'; Lymm Conservation Area	~300m to the north
8	Footpath WG/Lymm/25	Users of Footpath WG/Lymm/25; Residents of Crouchley Hall Fam	~290m to the east
9	Rugby Club near Crouchley Lane	Residents of Crouchley Lane; Road users along Crouchley Lane; Users of Rugby Club	~0m to the east
10	Crouchley Lane	Residents of Crouchley Lane; Road users along Crouchley Lane	~0m to the east
11	Church of St Mary the Virgin	Listed Building 'Church of St Mary the Virgin; Lymm Conservation Area	~115m to the north
12	On north eastern boundary	Road users along Crouchley Lane; Residents of Crouchley Lane	~0m to the north east
13	On the eastern boundary / Lymm Rugby Club (north)	Users of Rugby Club	~0m to the east
14	On the southern boundary / Lymm Rugby Club (south)	Users of Rugby Club	~0m to the east
15	Footpath WG/Lymm/23	Users of Footpath WG/Lymm/23	~150m to the north

4. Appraisal of Predicted Landscape Effects

- 4.1. The character of the Red Sandstone Escarpment, Sub-type C (Lymm) is one of rolling topography, with land use characterised by pastoral farmland punctuated by mature hedgerow trees with diverse range of species.
- 4.2. It is generally a contained landscape, with views restricted by high quality vegetation and rolling topography.
- 4.3. The proposed residential development in this location would have limited effect on the fabric of the existing landscape with limited loss of existing features including trees and hedgerows. The primary effects of the development would therefore be of a visual nature.
- 4.4. The visual presence of the residential development would affect a small proportion of the host Red Sandstone Escarpment character type within the NCA 60: Mersey Valley national character area. There would be no notable effect beyond this into any other local landscape type. The Mersey Valley landscape character type extends for a large area, particularly to the north of the proposed site. The localised change brought by this proposed development would be a small incidence within the wider character area and would not affect the integrity of this county landscape character type.
- 4.5. More locally the visual presence of the residential development may have an effect on the perceived character of Red Sandstone Escarpment character type. In this local landscape context the residential development would be form a new and noticeable feature when experienced in direct and open views from within the immediate context of the site, particularly in respect of those existing residential properties along Crouchley Lane to the east. In these circumstances perception of local landscape character would be altered from an open grass field to residential. However, the contained nature of the site ensures that there are no views of the site available beyond this immediate context, which greatly limits the extent of any potential landscape change.
- 4.6. The document 'Conservation Areas in Lymm' (December 2000) states that proposed developments in Conservation Areas "should pay special attention to carefully considering the appropriateness of the proposal and details such as materials, colour, height, proportion, design and siting, to seek to preserve and enhance the character and appearance of the area." It also states that "development proposals which are outside a Conservation Area but which would affect its setting, or views into or out of the area, will also be carefully considered in the light of this contextual relationship."
- 4.7. It is considered that the proposals will change the site from open countryside to residential, however views into and out of the Lymm Conservation Area are largely screened by the mature tree belt which runs along the western site boundary. Further dense vegetation within the Conservation Area to the north of site also acts to screen views into and out of the grounds of St Mary's Church, with no views available from the assessment site.

- 4.8. Furthermore, existing residential development to the east of the site along Crouchley Lane provides an existing residential context within the setting of the Conservation Area.
- 4.9. It is also pertinent to note that planning application 2016/28521 (approved February 2017, subject to section 106 agreement) lies to the immediate south east of the site boundary, and comprises a new purpose-built clubhouse, multi-sports facility, and enabling development comprising the conversion of the existing clubhouse into 4 number dwellings, and construction of 10 number new build dwellings with associated access. Please refer to **Appendix 1 Plan 6** for a site plan of the approved application 2016/28521 (Drawing number: AR_020_003_E; D5 Architects LLP).
- 4.10. Once constructed, this approved development will effectively extend the built edge of Lymm to the south, whilst also altering the landscape baseline through the introduction of more urbanising features. It is therefore considered that a sensitively designed residential development would not detract from the setting of the Conservation Area.
- 4.11. Overall findings in relation to potential landscape effects are that in the immediate setting, the residential development would become one of the defining characteristics of the location alongside the prevailing rural features of the landscape. However, this influence of the residential development would be localised and further away the landscape character of the wider area would not be so significantly affected. The residential development can therefore be accommodated without significant degradation of the character or the scenic qualities of the wider countryside setting.

5. Assessment of Predicted Visual Effects

- 5.1. Potential visual receptors identified for the proposed residential development are listed below.
- 5.2. Visual receptors within 1km of the assessment site:
 - Residents to the east of the site, along Crouchley Lane
 - Walkers along footpaths WG/Lymm/40 and WG/Lymm/4
 - Road users along Crouchley Lane
 - Users of Lymm Rugby Club
- 5.3. Views available within 1km of the site are predominantly short distance, reflective of the gently undulating topography and the screening effect of the intervening residential built form to the north and east, and linear woodland tree belts associated with the Lymm Dam Complex Local Wildlife Site to the south and west.
- 5.4. It is pertinent to note that planning application 2016/28521 (approved February 2017, subject to section 106 agreement) lies to the immediate south eastern site boundary, close to the rugby club buildings. Once constructed, this approved development would act to screen views towards the site from users of Lymm Rugby Club and also existing residential properties and road users along Crouchley Lane. Please refer to Appendix 1 Plan 6 for a site plan of the approved application 2016/28521 (Drawing number: AR_020_003_E; D5 Architects LLP).
- 5.5. Longer distance views (beyond 1km) are unlikely due to the gently undulating topography and intervening screening elements.

6. Effect on Green Belt

- 6.1. Though not defined as a landscape designation, it is considered that the Green Belt policy is relevant to the considerations of this Landscape and Visual Impact Assessment.
- 6.2. In assessing the contribution of the site to the purposes of the Green Belt, the assessment makes direct reference to the five purposes of including land within the Green Belt as identified in the National Planning Policy Framework.
- 6.3. The key purposes of a Green Belt include:
- Table 2: Green Belt

Purpose of Green Belt	Applicability to the Site
To check the unrestricted sprawl of large built-up areas	The settlement of Lymm is currently a moderate sized town and the assessment Site is located to the southern extent of the urban area. A dense tree line, associated with Lymm Conservation Area and the Lymm Dam Complex Local Wildlife Site, effectively restricts any further development in this direction, not least due to the protected status of this area. To the south, the existing Lymm Rugby Club, and beyond this a dense tree belt also designated as part of the Lymm Complex Local Wildlife Site also effectively restricts development to the south. Areas to the north and east are already developed, therefore, development of the proposed site would not lead to the unrestricted sprawl of the built up area.
To prevent neighbouring towns merging into one another	The proposed development will not extend the existing bounds of the settlement such that the settlement will be any closer to any adjacent settlements. It is also worth noting that there are no settlements within proximity to Lymm to the south to the west which would be subject to any merging effect.
To assist in safeguarding the countryside from encroachment	The assessment site itself comprises open countryside, with the key characteristics of the area including high quality mature trees, hedgerow trees in particular, and its intimate landscape. Residential development on the site would therefore not necessarily detract from the character of the area, particularly through the retention of the mature trees, and the introduction of supplementary planting of similar species as part of the proposals.
	The proposed development would only result in a minor extension to the current settlement boundary to the south, and it is considered that appropriate screening measures could be employed to reduce the visibility of this part of the development. Existing residential development along Crouchley Lane to the east also provides a residential context in the area, meaning that the proposals would not be uncharacteristic of this part of Lymm.
To preserve the setting and special character of historic towns	The assessment site is not located within any historic towns or conservation areas. The Lymm Conservation Area is located immediately adjacent to the north west of the site, however the dense vegetation along the western and northern site boundaries are considered to screen views into the site from the Conservation Area, and vice versa.
	The Lymm Conservation Area Appraisal (Dec 2000) outlines that new development within the setting of a Conservation Area should seek to retain and enhance vegetation, provide

	sufficient offsets, and carefully consider details such as design, materials, colour, height, proportion and siting to ensure the preservation and enhancement of the character and appearance of the area. These aspects will be integral to the development proposals.
To assist in urban regeneration by encouraging the recycling of derelict and other land	Although the land on which the assessment site is located is a green field, currently utilised as pastoral land. The development of the site for housing will make a significant contribution to meeting the housing needs of Warrington.

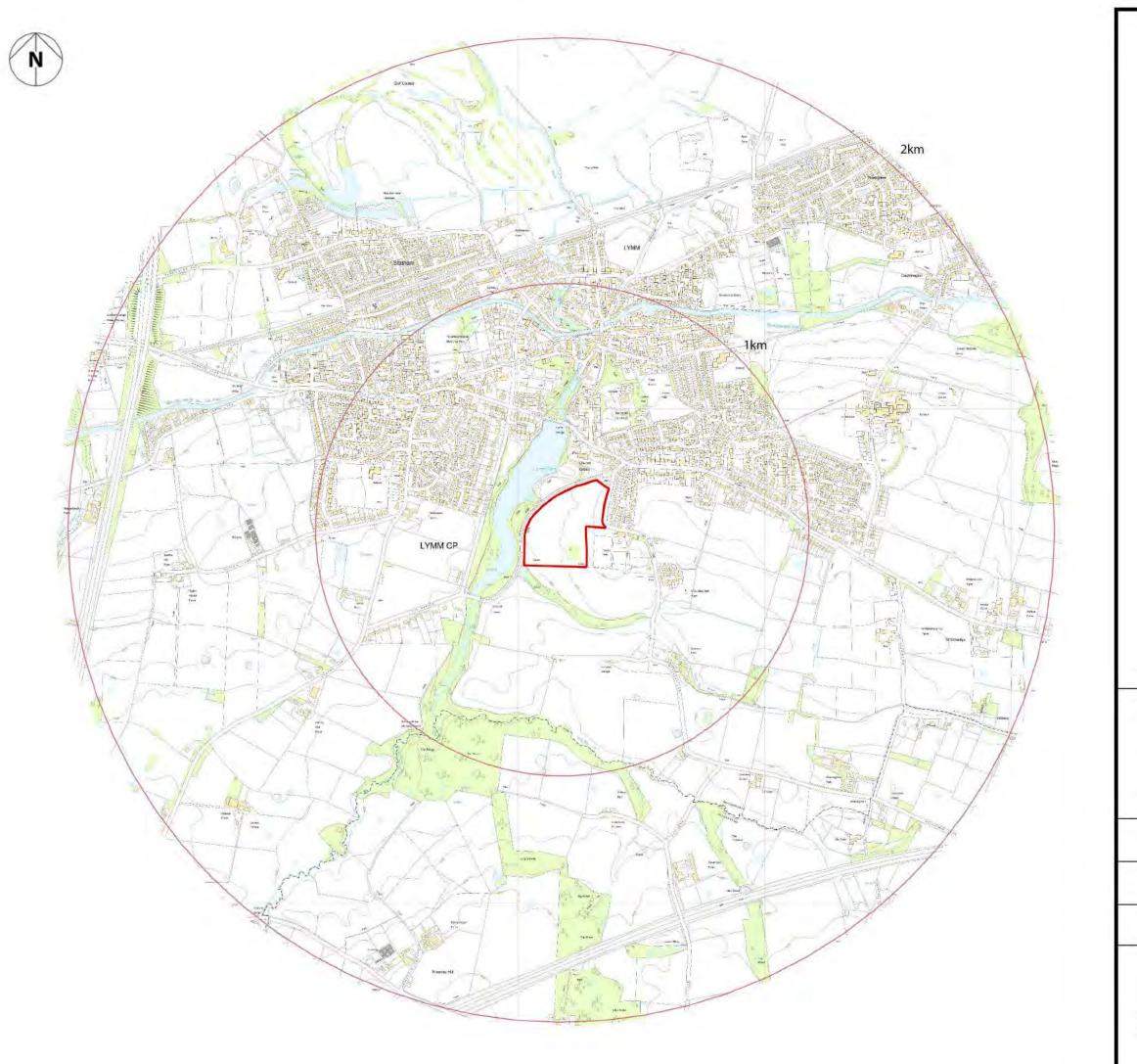
6.4. It is therefore considered that the development of the land would not lead to unrestricted sprawl of the Lymm urban area, would comprise only a minor extension to the existing settlement boundary to the south, and would thus not bring the Lymm settlement boundary any closer to any neighbouring towns. In addition, the proposals should be sensitively designed through appropriate positioning, scale and massing of houses, in order to prevent any adverse impacts upon the setting of the neighbouring Lymm Conservation Area, and to assist in assimilating the development into the wider setting.

7. Landscape Strategy

- 7.1. By suggesting landscape mitigation measures it does not follow that the proposals have an unacceptable adverse effect on the landscape character or visual amenity of the area but rather the presence of further development within this setting would benefit from considered landscape works. The purpose of landscape mitigation for these proposals at this location are primarily two-fold;
- To reduce adverse visual and landscape effects identified through the wider Landscape Appraisal process; and
- To enhance the character of the proposals and assist in their assimilation into the wider landscape scene.
- 7.2. As identified in the Warrington Landscape Character Assessment 2007, Type 3, Area 3C (Lymm) is notable for its vigorous and healthy vegetation, with trees being larger, more well-formed, and comprising a more diverse range of species than elsewhere in the borough.
- 7.3. This could be enhanced by the provision of:
 - Reinforcement of existing hedges and field boundaries with hedge planting gap filling and scattered hedgerow tree planting;
 - Further tree planting of a range of species along field edges, particularly the eastern site boundary to Crouchley Lane;
 - Planting of trees in such a way that visual permeability through the site allows views towards Lymm Conservation area, to minimise any impact upon its setting.
- 7.4. The placement of these features is designed to provide enhanced screening and softening of the proposed development and to maximise its integration into the setting. They have also been targeted so as to be most beneficial in relation to the identified visual receptors.
- 7.5. In addition, in accordance with the National Planning Policy Framework, Green Belt boundaries should be defined clearly, using physical features that are readily recognisable and likely to be permanent.

Appendices Appendix 1 - Plans

Plan 1: Location Plan



Legend

----- Red Line Boundary ----- 1km Buffer

- 2km Buffer

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Plan 2: Landscape Designations



Legend

- ---- Red Line Boundary
- 1km Buffer
- 2km Buffer
- Local Wildlife Sites QE5
 - Green Belt



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FIGURE 2

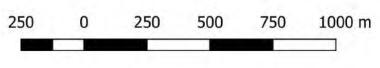
LANDSCAPE DESIGNATIONS

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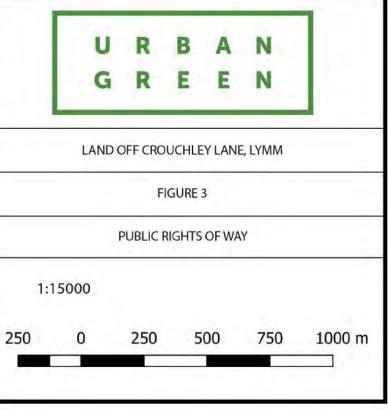


Plan 3: Public Rights of Way

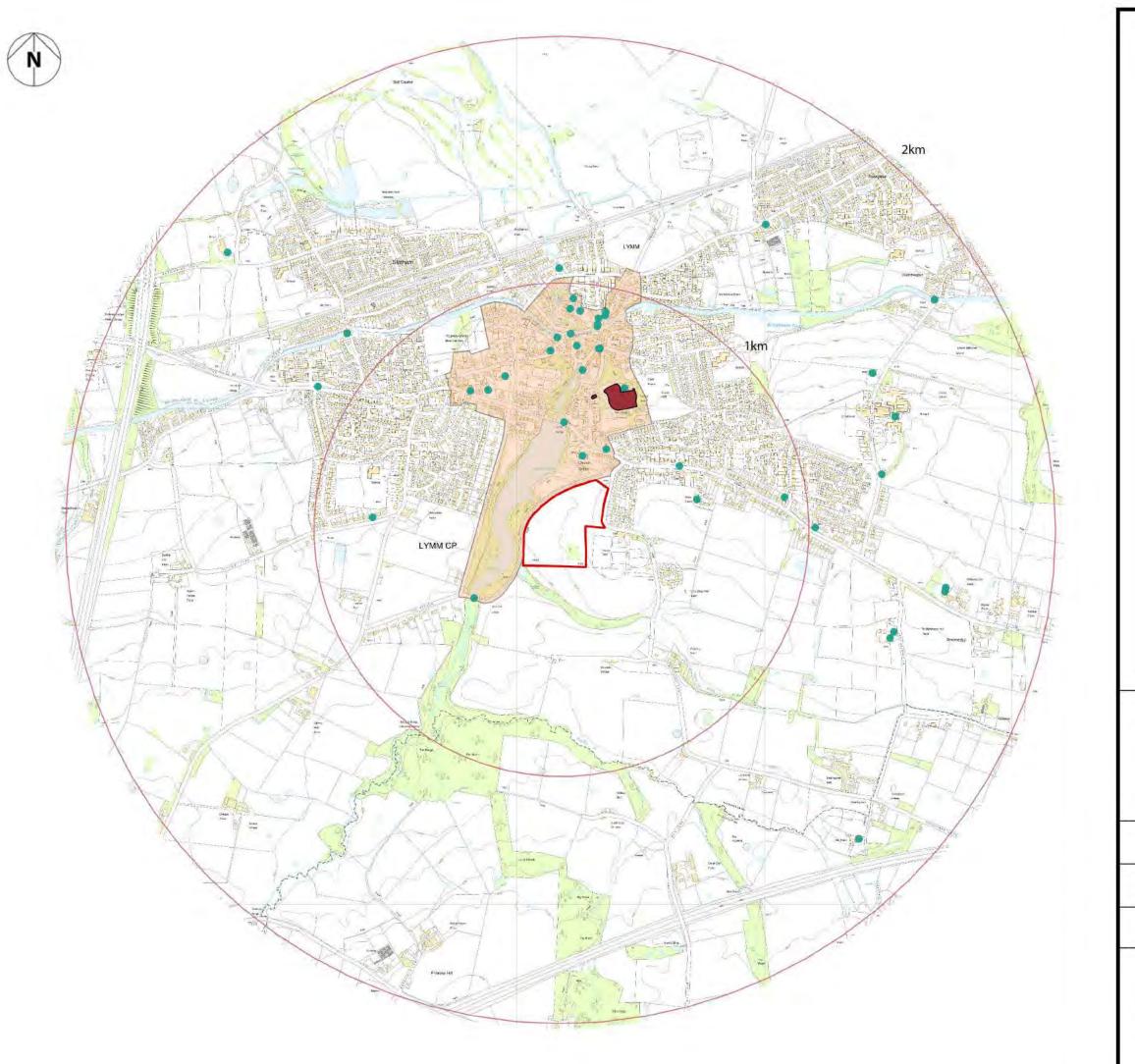


Legend

- ---- Red Line Boundary
- 1km Buffer
- 2km Buffer
- Cheshire East Footpaths
- ----- Warrington Footpaths
- ----- Warrington Bridleways
- ----- Warrington Restricted Byways

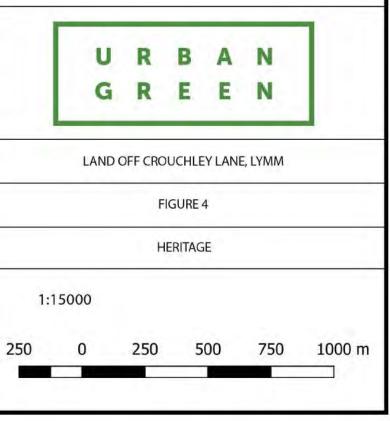


Plan 4: Heritage Designations

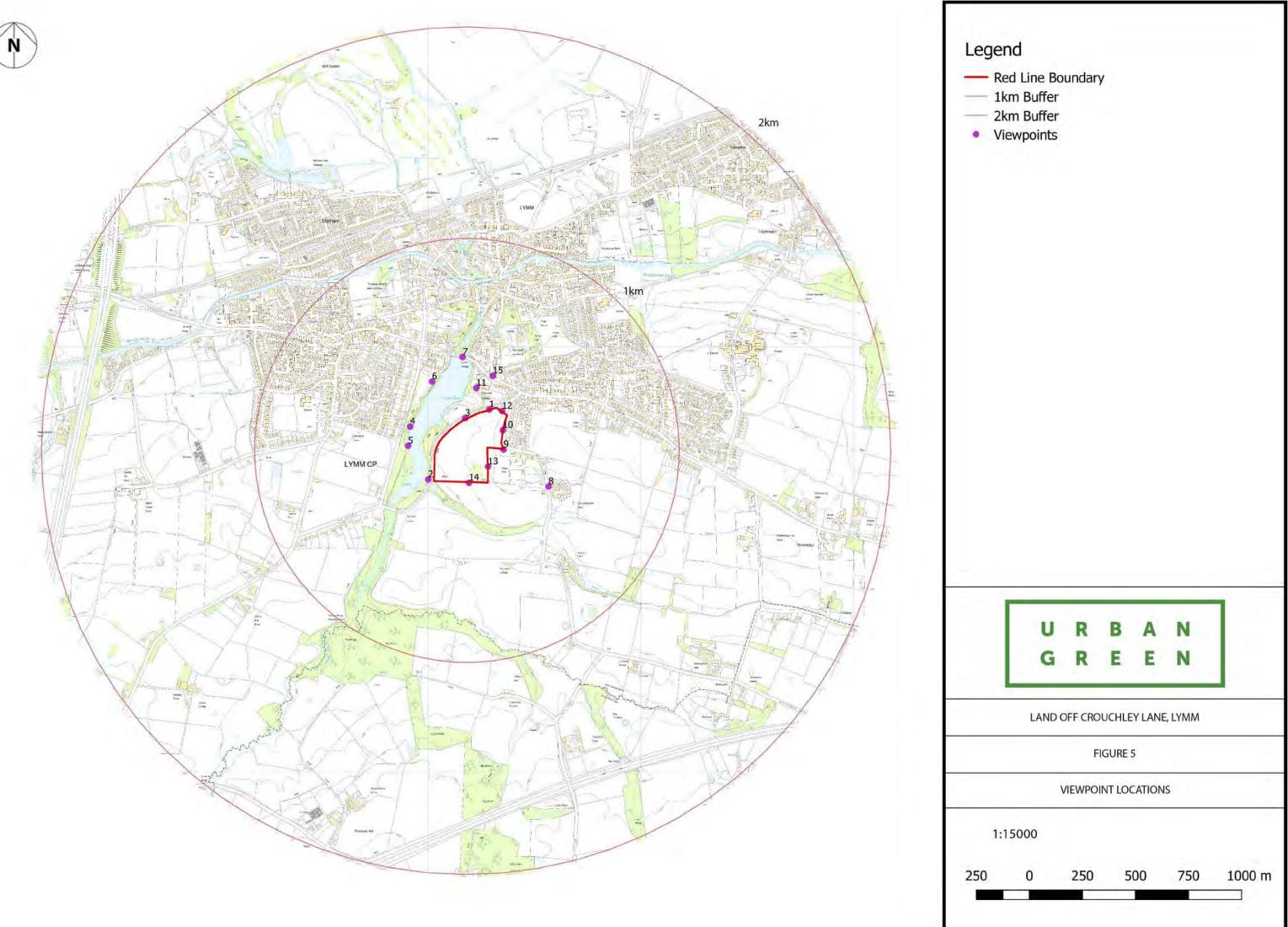




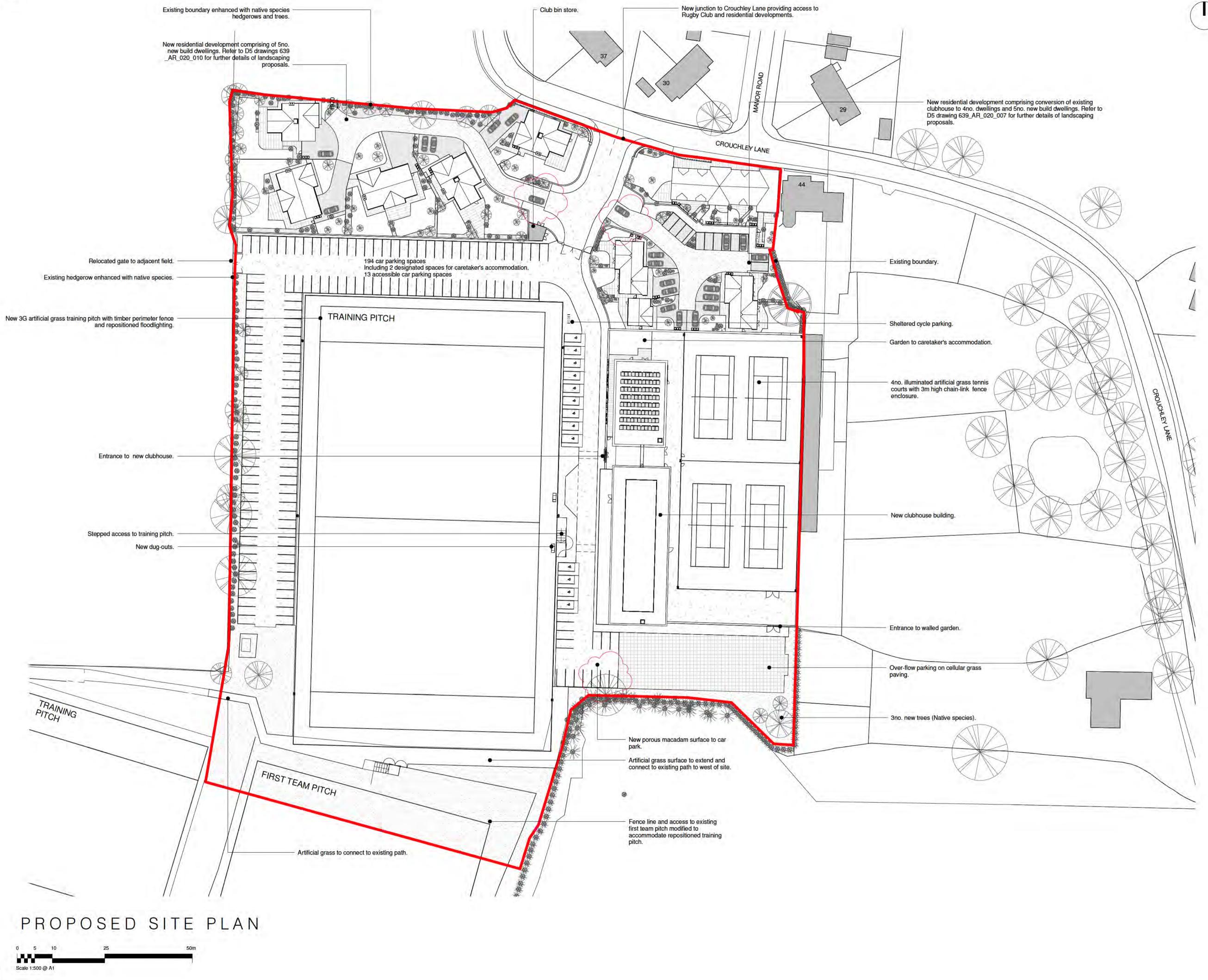
Conservation Areas



Plan 5: Viewpoint Locations



Plan 6: Site Plan of Approved Application 2016/28521





SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following risks and information.

Risks listed here are not exhaustive. For residual architectural risks, refer to D5 H&S Risk Register.

CONSTRUCTION:

DEMOLITION:

For information relating to Use, Cleaning and Maintenance, refer to the above H&S Risk Register.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

REVISION

Α	22/06/2016	MS	Minor updates, Planning issue.	
в	24/06/2016	MS	Number of parking spaces updated.	
С	29/06/2016	MS	Label changed from groundsman to club caretaker. Kerb updated.	
D	11/07/2016	MS	Minor amendments.	
E	18/10/2016	MS	Space markings indicated and gates to residential developments removed.	

NOTES:

PLANNING



Appendix 2 – Viewpoint Photographs



Viewpoint 1a: View looking south across the assessment site from the northern site boundary

Approximate extent of proposed development



Viewpoint 1b: View looking south across the assessment site from the northern site boundary



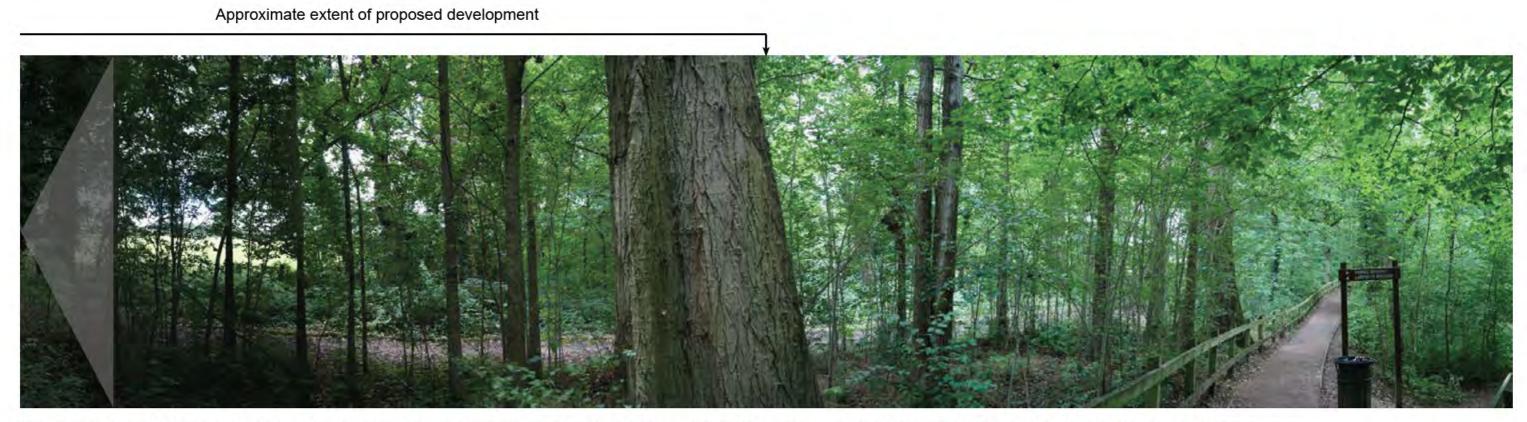
Land off Crouchley Lane, Lymm - Viewpoint Photographs

Appendix B -Sheet 1 of 11 Site Viewpoint Photographs

Date:September 2017Drawn:KSDrg no.:PL_11547Checked:CM



Viewpoint 2a: View looking south east towards the assessment site from Footpath WG/Lymm/40, located approximately 25m to the south west of the site boundary



Viewpoint 2b: View looking south east towards the assessment site from Footpath WG/Lymm/40, located approximately 25m to the south west of the site boundary



Land off Crouchley Lane, Lymm - Viewpoint Photographs

Appendix B -Sheet 2 of 11 Site Viewpoint Photographs

Date:	September 2017	Drawn:	KS	
Drg no.:	PL_11547	Checked:	СМ	



Viewpoint 3: View looking east towards the assessment site from Footpath WG/Lymm/40, located approximately 5m to the west of the site boundary



Approximate extent of proposed development

Viewpoint 4: View looking east towards the assessment site from Footpath WG/Lymm/4, located approximately 165m to the west of the site boundary



Land off Crouchley Lane, Lymm - Viewpoint Photographs

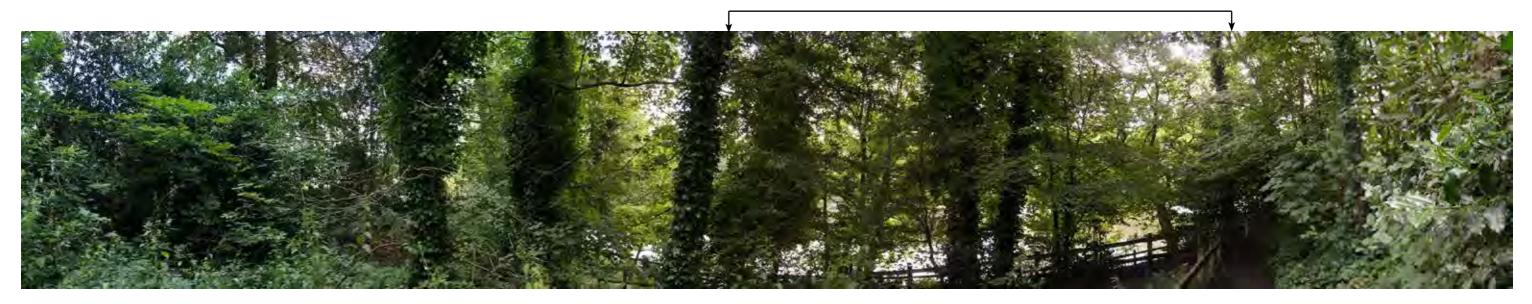
Appendix B -Sheet 3 of 11 Site Viewpoint Photographs

Date: Drg no.: September 2017Drawn:KSPL_11547Checked:CM



Viewpoint 5: View looking east towards the assessment site from Footpath WG/Lymm/4, located approximately 135m to the west of the site boundary

Approximate extent of proposed development



Viewpoint 6: View looking east towards the assessment site from Footpath WG/Lymm/4, located approximately 230m to the north west of the site boundary



Land off Crouchley Lane, Lymm - Viewpoint Photographs

Appendix B -Sheet 4 of 11 Site Viewpoint Photographs

Date: Drg no.: September 2017Drawn:KSPL_11547Checked:CM

Approximate extent of proposed development



Viewpoint 7: View looking south towards the assessment site from grade II listed Lymm Bridge, located approximately 300m to the north of the site boundary

Approximate extent of proposed development



Viewpoint 8: View looking west towards the assessment site from Footpath WG/Lymm/25, located approximately 290m to the east of the site boundary

Land off Crouchley Lane, Lymm - Viewpoint Photographs

Appendix B -Sheet 5 of 11 Site Viewpoint Photographs

Date: September 2017 Drawn: KS Drg no .: PL_11547 Checked: CM



Viewpoint 9a: View looking west across the assessment site from the grounds of Lymm Rugby Club, located on the eastern site boundary

Approximate extent of proposed development



Viewpoint 9b: View looking west across the assessment site from the grounds of Lymm Rugby Club, located on the eastern site boundary



Land off Crouchley Lane, Lymm - Viewpoint Photographs

Appendix B -Sheet 6 of 11 Site Viewpoint Photographs

Date:September 2017Drawn:KSDrg no.:PL_11547Checked:CM



Viewpoint 10a: View looking west across the assessment site from Couchley Lane, located on the eastern site boundary

Approximate extent of proposed development



Viewpoint 10b: View looking west across the assessment site from Couchley Lane, located on the eastern site boundary



Land off Crouchley Lane, Lymm - Viewpoint Photographs

Appendix B -Sheet 7 of 11 Site Viewpoint Photographs

September 2017 Drawn: KS PL_11547 Checked: CM

Date: Drg no .: Approximate extent of proposed development



Viewpoint 11: View looking south west towards the assessment site from the grounds of the grade II listed Church of St Mary the Virgin, located approximately 115m to the north of the site



Approximate extent of proposed development

Viewpoint 12: View looking south west across the assessment site from the north eastern site boundary



Land off Crouchley Lane, Lymm - Viewpoint Photographs

Appendix B -Sheet 8 of 11 Site Viewpoint Photographs

Date: September 2017 Drawn: KS Drg no .: PL_11547 Checked: CM Approximate extent of proposed development



Viewpoint 13a: View looking west across the assessment site from the grounds Lymm Rugby Club, located on the eastern site boundary

Approximate extent of proposed development



Viewpoint 13b: View looking west across the assessment site from the grounds Lymm Rugby Club, located on the eastern site boundary



Land off Crouchley Lane, Lymm - Viewpoint Photographs

Appendix B -Sheet 9 of 11 Site Viewpoint Photographs

September 2017 Drawn: KS PL_11547 Checked: CM

Date: Drg no.: Approximate extent of proposed development



Viewpoint 14a: View looking north across the assessment site from the grounds Lymm Rugby Club, located on the southern site boundary

Approximate extent of proposed development



Viewpoint 14b: View looking north across the assessment site from the grounds Lymm Rugby Club, located on the southern site boundary



Land off Crouchley Lane, Lymm - Viewpoint Photographs

Appendix B -Sheet 10 of 11 Site Viewpoint Photographs

Date: Drg no.: September 2017 Drawn: KS PL_11547 Checked: CM



Viewpoint 15: View looking north across the assessment site from close to Footpath GW/Lymm/23, located approximately 150m north of the site boundary



Appendix B -Sheet 11 of 11 Site Viewpoint Photographs

September 2017 Drawn: KS PL_11547 Checked: CM

Date: Drg no.:

Preliminary Arboricultural Assessment (PAA)

Stamford Property Holdings Land off Crouchley Lane Lymm WA13 0AS August 2017





Quality Management

Project No										
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Title Preliminary Arboricultural Assessment										
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1 Introduction

1.1 Instructions and references

- 1.1.1 All trees, regardless of their statutory status, are a material consideration in a planning application. We have been instructed by Stamford Property Holdings to carry out a Preliminary Arboricultural Appraisal (PAA) in accordance with BS 5837:2012 Trees in relation to design, demolition and construction Recommendations at Land adj Lymm Rugby Club, Lymm and produce our findings in a report with an accompanying Tree Constraints Plan.
- 1.1.2 Warrington Borough Council are preparing a draft local development plan and the current site is being put forward for residential led-development.
- 1.1.3 The PAA is compiled objectively and is aimed to assist with feasibility and decision making. The purpose of this report is to outline the arboricultural constraints onsite in relation to potential development.

1.2 Documents provided

1.2.1 A scaled plan has been provided although no tree positions were plotted. Tree locations have been plotted according to measurements taken on site and/or using aerial photography. The exact locations of these trees must be verified and any discrepancies discussed with the Arboricultural Consultant.

1.3 Scope and limitations of the report

- 1.3.1 The report is based upon a visual inspection. The consultant shall not be responsible for events that happen after the date of the report due to factors that were not apparent at the time, and the acceptance of this report constitutes an agreement with the guidelines and the terms listed in this report.
- 1.3.2 The consultant accepts no liability in respect of the trees unless the recommendations of this report are carried out under his supervision.
- 1.3.3 Assessing the potential influence of trees upon load bearing soils, beneath existing and proposed structures resulting from water abstraction by trees or rehydration of shrinkable soils was not included in the contract brief and is therefore not considered in the report. The consultant cannot be held responsible for damage arising from such action.
- 1.3.4 Trees are living organisms whose health, condition and structure can change over time. The contents of this report are valid for a period of one year from the date of the report.
- 1.3.5 Potentially hazardous trees are highlighted and appropriate recommendations are made. However, this report should not be seen as a substitute for a full tree risk assessment or management plan which are specifically designed to minimise risk and liability associated with responsibility for trees.

2 Site Location

2.1.1 The site is located in the area shown in Figure 1 and 2. The OS Grid Reference is SJ 68393 86638

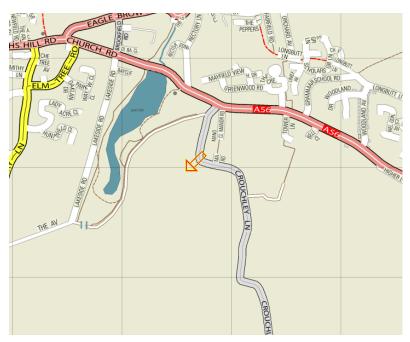


Figure 1 – Site location plan



Figure 2 – Red line boundary



3 Tree Condition and Recommendations

3.1.1 The following findings are provided in order to identify the quality and value of the existing tree stock, allowing informed decisions to be made concerning which trees should be removed, retained or those that require work. Any recommendations provided in this section are given with the assumption that development will occur, however, no specific designs have been accounted for.

3.2 Summary of arboricultural findings

- 3.2.1 The majority of trees are in good condition. However, trees T1, T7, T11, T13, T14 and T16 require monitoring due to defects that could potentially make them hazardous or bring about their decline.
- 3.2.2 T2 is in decline and it is recommended that a crown clean and removal of deadwood is carried out.
- 3.2.3 All other trees are deemed to be in an acceptable condition and no further works have been recommended.

3.3 Work priority and future management

- 3.3.1 The Tree Data Schedule in Appendix 1 details what works are required to individual trees in order to ensure that they are in an acceptable condition.
- 3.3.2 The following table suggests a schedule for prioritising works required to individual specimens, as outlined in the Tree Data Schedule in Appendix 1, in order to ensure that the associated risks are abated.

Priority	Definition	Tree Number
Urgent	As soon as possible	-
Very High	Within 1 Month	•
High	Within 3 Months	÷
Moderate	Within 1 year	T1, T11, T13, T14, T16
Low	Within 3 years	T2, T3, W4, T5, T6, T7, T8, T9, T10, T12, T15, T17

Table 1 - Tree Work Priority Schedule

3.3.3 Upon completion of any recommended works, the trees will be in an acceptable condition from a health and safety perspective. However, they should be regularly inspected according to the following suggested schedule.



Inspection Frequency (years)	Tree Number
0.5	-
)	T1, T2, T11, T13, T14, T18
1.5	-
3	T3, W4, T5, T6, T7, T8, T9, T10, T12, T15, T17

- 3.4 Tree protection status
- 3.4.1 A Tree Preservation Oraer (TPO) is an order made by a Local Authority to protect specific trees, groups of trees or woodlands in the interests of amenity. A TPO prohibits the cutting down, topping, lopping, uproofing and wilful damage or destruction of trees without the Local Authority's written consent.
- 3.4.2 Most of the trees are covered by The Warrington Borough Council: The Beechwood Hall Estate (Lymm) Tree Preservation Order 2000. Trees included are T1, T2, T5, T6, T7, T8, T10, T11, T13, T14, T15, T16 and G17.
- 3.4.3 The site is not within a Conservation Area.
- 3.4.4 It is recommended that the Local Authority is consulted before any tree works are undertaken, as new TPOs may have been created since the time of enquiry, and heavy fines exist for unauthorised works to protected trees.
- 3.4.5 All works to trees covered by a TPO require permission from the Local Authority, including any pruning. However, this does not include trees that are dead or have become dangerous. The removal of dead branches is also excluded from a TPO. Although the above exceptions exist, it is advisable to give the Local Authority five days' notice in writing of any Intended removal. Permission is not needed where tree work is required to implement an approved planning application.
- 3.4.6 It is an offence to remove more than 5m³ of timber in any one calendar quarter without having first obtained a felling licence from the Forestry Commission. It must be noted, however, that this excludes sites where planning permission has already been granted.
- 3.5 Tree Works
- 3.5.1 Tree works that are recommended in Appendix 1 are made in line with good arboricultural practice and should be programmed in accordance with the Tree Data Schedule.
- 3.5.2 All specified tree work is to be carried out in accordance with BS 3998:2010 Tree work Recommendations.

M	R.	B	Å.	N
G	Ŕ	Ε	E	74

3.6 Wildlife

- 3.6.1 Prior to the commencement of any tree works, the trees should be assessed for the presence of protected species, some of which are subject to the Wildlife and Countryside Act 1981 (as amended) and the Conservation of Habitats and Species Regulations 2010.
- 3.6.2 Where there is evidence that bats, birds or other protected species are present, the advice of a suitably qualified ecologist should be sought.
- 3.6.3 If tree works are carried out during the bird nesting season (March to August inclusive), trees would need to be inspected by a qualified ecologist within the 24-hour period prior to the commencement works.

4 Potential Arboricultural Constraints

4.1 Root Protection Area (RPA) explained

- 4.1.1 The RPA is an area of ground around the base of a tree indicated on the Tree Constraints Plan as a pink circle centred around the stem which is calculated in relation to the stem diameter.
- 4.1.2 The majority of tree roots grow within the upper 600mm of the soil profile where most nutrients are available as the result of the decomposition of organic matter close to the surface. Rooting conditions become less favourable at depth as the soil density increases, creating anaerobic conditions.
- 4.1.3 It is essential that roots are protected from construction works including physical damage from excavation and changes in soil structure from compaction and changes in ground levels.
- 4.1.4 BS 5837:2012 states that the default position for proposed structures should always be outside the RPA. It is recognised that this may not always be possible, yet tree retention would be desirable. In this instance, technical solutions might be available that prevent damage to the retained tree(s).

4.2 Site constraints and opportunities

- 4.2.1 There are many high value trees across the site, with eight A category trees, groups or woodlands. These trees are scattered across the site and do not form one significant constraints to site. The locations of the trees offer potential to incorporate them into the design of the scheme and into public open space.
- 4.2.2 It is essential that no adoptable infrastructure such as highways encroach into the RPA of the category A trees as this would result in root loss and potentially the decline of the tree.
- 4.2.3 Building foundations must avoid the RPA of trees unless utilising pile foundations, however, it is recommended that buildings are kept a sufficient distance away from trees to prevent the need to utilise such foundations.
- 4.2.4 Hard surfacing may be installed in the RPA provided it is constructed using suitable methods. This may include the use of a cellular confinement system which avoids the need to excavate and protects the soil structure by spreading the weight of the load bearing surface.

4.3 Social proximity

4.3.1 Proposed buildings should be designed to take account of existing trees, their ultimate size and density and the effect that these will have on the availability of light. As such the buildings should positioned in such a way as to minimise the shadow cast by the tree and consideration should be given to the position of the habitable rooms within the house.



4.3.2 The woodland on the north and west boundary (W4) is a significant arboricultural feature of the site. This woodland is situated on third party property and forms part of the Lymm Dam Nature Reserve. As such any designs for the site should give due consideration to the woodland edge. The built form must be a sufficient distance away from the woodland edge to prevent future residents wishing to prune these trees.

4.4 Access and transport

4.4.1 We have been provided with the Access and Transport Appraisal (66027/TN02) which outlines suitable vehicular and pedestrian access points. This reports identifies one main access route into site which would be positioned on the east boundary. The position of this access point is outside the RPA of the existing trees and will therefore have no arboricultural impact.

4.5 Conclusions

- 4.5.1 The site offers opportunity for development whilst retaining the key arboricultural features, most noticeably the A category trees situated within the site boundary and the woodland edge forming part of the Lymm Dam Nature Reserve.
- 4.5.2 Where possible category A and B trees should be retained and any works within their RPAs should be undertaken in a sympathetic manner. Although C category trees should not be a constraint to development, it may be desirable to retain them as part of the wider landscape proposals.
- 4.5.3 Shading of buildings by trees can be a problem, particularly where there are rooms which require natural light. Proposed buildings should be designed to take account of existing trees, their ultimate size and density of foliage, and the effect that these will have on the availability of light.

Appendix 1 - Tree Data Schedule

The following pages contain information gathered during the site survey. The reader should refer to Appendix 2 in order to correctly interpret the tree data. All images within the Tree Data Schedule are diagrammatical only. Their purpose is to indicate, at a glance, the relative dimensions of each tree. The images are computer generated based on measurements recorded for stem diameter, crown spread, crown height and overall height.

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (mm)	Crown Spread (m) W E S	Scaled Tree Diagram (m)	Notes	Recomm	Inspect Frea (Vrs)	Physiological Condition Structural Condition	Life Expectancy (yrs) Retention Category
71	Mature Oak	15	2	980	av 7 7 7 7	25	 Very large cavity at base due to fire damage. Leaning on the side of the cavity. Potentially hazardous if footfall increased. Deadwood throughout crown. 	Mor		Fair	10-20
	Quercus petraea				each	0	5: Fungal brackets at base.	Moderat	e 1	Poor	C
T2	Mature Oak	11	4	740	av 6 6 6		1: Significant dieback to upper crown.	Crown c dead		Poor	20-40
	Quercus petraea				6 each	0		Low	1	Fair	В
T3	Semi-Mature Mixed	8	2	350	3 3 3		 Mixed group consisting of oak and sycamore. Situated on third party land. 	No a requ		Good	40+
	Species				3	0		n/a	3	Good	C
W4	Mature Mixed	av 14	av 2	av 550	av 5 5 5	20	 1: Mixed woodland consisting of oak, beech, elm, poplar and hawthom. 2: Situated on third party land. 3: High value woodland. 	No action required.		Good	40+
	Species			11	5 each	0	a. high value woodand.	n/a	3	Good	A
T5	Mature Oak	13	4	840	7.5 7.5 7.5	-	1: Good specimen. 2: Open grown form. 3: High value.	No a requ		Good	40+
	Quercus petraea			1	7.5	0		n/a	3	Good	A
T6	Mature Oak	12	1	690	6 6 6		1: Good specimen. 2: Open grown form. 3: High value.	No a requ		Good	40+
	Quercus petraea				6	a 🗢 🏂		n/a	3	Good	A
17	Early-Mature Copper Beech	10	2	890			 Reduced vigour. Minor deadwood throughout crown. Acceptable condition at present. 	Mor	nitor.	Fair	10-20
	Fagus sylvatica 'purpurea'	Ĺ.			6,5			Moderat	ė 1	Fair	В

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (mm)	Crown Spread (m) W E S	Scaled Tree Diagram (m)	Notes	Recommendations Priority Inspect Free (vrs)	Physiological Condition Structural Condition	Life Expectancy (yrs) Retention Category
T 8	Mature Oak	14	3	700	7 7 7 7		1: Good specimen. 2: Open grown form. 3: High value.	No action required,	Good	40+
G9	Quercus petraea Semi-Mature Cherry	av 6	av 1	av 200	av 2 2 2		1: Situated on third party land. 2: No significant defects observed.	n/a 3 No action required.	Good Good	A 40+
	Prunus sp	Ľ.			2 each	0 🖤 🤎		n/a 3	Good	C
T10	Mature Oak	16	2	1200	8 8 8 8	THE .	 Excellent specimen. Deadwood throughout crown. Cavity on large limb in upper crown. 	No action required.	Good	40+
	Quercus petraea	1		L.,		0		n/a 3	Good	A
111	Mature Horse Chestnut Aesculus	13	Į	920	7 7 7 7		 Early signs of decline with crown dieback. Leaf minor and bleeding canker present. Acceptable condition at present. 	Monitor.	Fair Fair	20-40 B
T12	hippocastanum Mature Lime	12	3	690	5 5 5		1: Minor deadwood throughout crown. 2: Good specimen.	Moderate 1 No action required,	Good	40+
	Tilia sp				5	0		n/a 3	Good	В
T13	Mature Horse Chestnut	17	3	920	8 8 8		1: Dieback throughout crown and reduced vigour. 2: Deadwood throughout crown.	Monitor for signs of decline.	Fair	20-40
	Aesculus hippocastanum				8	A		Moderate 1	Fair	В
T14	Mature Horse Chestnut	15	2	800	8 8 8		 Dieback present throughout crown. Epicormic growth around stem. Deadwood throughout crown. 	Monitor for signs of decline.	Fair	20-40
	Aesculus hippocastanum				8	2 A		Moderate 1	Fair	В

Reference G = Group H = Hedge	Age & Species	Height (m)	Crown Ht (m)	Diameter (mm)	Crown Spread (m N W E S		Notes	Recomme	Inspect Frea (Vrs)	Physiological Condition Structural Condition	Life Expectancy (yrs) Retention Category	
T15	Mature Lime	19	0.5	900	6.5 6.5 6. 6.5	5	 Dense epicormic growth throughout (as per species). Minor deadwood throughout crown. High value. 	No ac requi	tion	Good	40+	
	Tilia sp					0		n/a	3	Good	A	
T16	1	20	2 10	1000	7 7 7 7			1: Tight union at 1.5m with potential inclusion. 2: Adjacent to road. 3: Prominent tree. 4: Acceptable condition at present.	Monitor.		Good	20-40
	Fagus sylvatica		. L.			0		Moderate	1	Fair	A	
G17	Mature Mixed	16	3	750	6		 1: Outside red edge boundary. 2: One horse chestnut and one sycamore. 3: Prominent high value trees. 	No ac requi	C 2010	Good	40+	
	Species			Ľ	6	0		n/a	3	Good	A	

Appendix 2 - Tree Schedule Definition of Terms

Tree Referencing	Individual Trees T (+number) Grouped Trees G (+number) Hedgerows H (+number) Woodlands W(+number)								
Age Category	Young Usually <15 years Semi-mature Significant growth expected, approximately one third of life expectancy complete Full height achieved with further significant growth possible, up to two thirds of life expectancy complete Mature Full height has been achieved with possible spreading of the canopy, usually past two thirds of overall life expectancy Veteran Usually a tree of significant age with characteristics that give additional cultural, landscape and conservation benefits, Over-mature A tree declining due to age as indicated by deterioration in the health and condition of its crown and trunk.								
Species	Botanical Name - conforming to the International Code of Nomenclature for algae, fungi, and plants (ICN). For universal plant recognition. Common Name - commonly used names usually on a local and national scale.								
Tree Height	The vertical distance between the base of the tree (where soil and buttress meet) and the tip of the highest branch on the tree.								
Crown Height	Measured from ground level to the height at which the main crown begins.								
Stem Diameter (DBH)	Stem diameter is measured at 1.5 m above ground level								
	A diagrammatical representation of the tree taken from measurements of stem diameter, crown height and spread, and overall height.								
Crown	Measurements taken from all four cardinal points in metres.								
Notes	Notes are made to inform of any possible defects, peculiarities or points of interest that may relate to the trees position, physiology, safety and possible effects on developments.								
Recommendations	Recommendations are made in accordance to good arboricultural practice. Recommendations are made regardless to the end usage of the site.								
Priority Scale	Priority is given dependent on the perceived threat and the likelihood of failure given to a possible hazard. The priority of work is given regardless of the end usage of the site. Urgent To be carried out as soon as possible. Very High To be carried out within 1 month. High To be carried out within 3 months. Moderate To be carried out within 1 year. Low To be carried out within 3 years.								
Physiological Condition:	Good Usually healthy with no symptoms of poor health or disease. Fair Exhibiting signs of poor health or minor disease infections that are not considered to be hazardous. Poor Disease present in considerable quantities or with very poor physiological vigour. Very Poor Tree is in a moribund state in extremely poor condition, usually with little chance at recovery.								
Structural Condition:	Good A tree with no significant structural defects. Fair Minor defects may have been observed but are not considered to be immediately hazardous. Poor Significant defects found. Tree requires moniforing or remedial works. Very Poor Major defects that require immediate remedial work or the removal of the tree.								
Life Expectancy:	The estimated number of years before the tree may require removal should no unexpected mechanical or environmental impacts occur to the tree.								
Retention Category:	Please refer to Tree retention categorisation table on the next page.								

Appendix 3 – Tree Retention Category

Trees to be removed					
Category U Includes trees of very low quality that offer little or no amenity value.	Trees that are in such a condition that they should be removed as a matter of good arboricultural practice regardless of given proposals.	RED			
Trees to be considered for retention					
Category A Trees of a high quality, with an estimated life of expectancy of at least 40 years	Trees that are excellent examples of their species, usually mature, especially if rare or unusual including veteran trees. Category A trees are likely to enhance a development and should be retained wherever possible.	GREEN			
Category B Trees of moderate quality with an estimated remaining life expectancy of at least 20 years.	Trees that are good examples of their species. B category trees are usually mature or younger trees with the potential to reach A category in the future. Although the retention of these trees is desirable, some losses may be acceptable.	BLÜE			
Category C Trees of low quality with an estimated remaining life expectancy of at least 10 years, or young trees with a stem diameter below 150 mm.	Unremarkable frees of very limited merit or such impaired condition that they do not qualify in higher categories.	GREY			

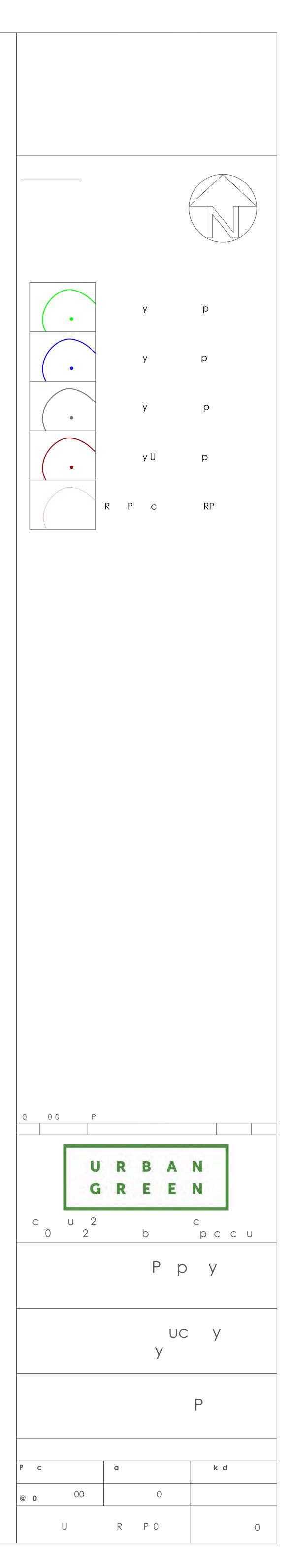
Appendix 4 – Site Plans

The site plans referred to in the report follow this page which include the following:

• Tree Constraints Plan

Although included plans are usually to scale, they are only intended to indicate positions of surveyed trees and dimensions should not be taken from these drawings.





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