OAKFIELD
ARBORICULTURAL SERVICES

Arboricultural Impact Assessment

Newall Plant Ltd, Besthorpe

OAS 20-047-AR01
Rev B
March 2023

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DISCLAIMER

While all reasonable efforts have been made to identify defects in the subject trees, the statements made in this report do not take into account the effects of extreme weather events, vandalism, accidents or changes to the site that may affect trees that have taken place since the date of the survey. Oakfield Arboricultural Ltd does not accept any responsibility in connection with these factors. The comments and observations made within this report will cease to be valid either within two years of the date of the survey (unless specifically stated elsewhere within the report), or when site conditions change or any works to trees take place that have not been specified within this report, whichever is the sooner.

1.0 Introduction

1.1.1 Oakfield Arboricultural Services were instructed to undertake a tree survey and provide arboricultural advice on the site known as Newall Plant Ltd, Besthorpe to accompany a planning application.

1.1.2 A detailed survey was undertaken in June 2020 and was carried out in accordance with BS 5837: 2012 'Trees in Relation to Design, Demolition and Construction – Recommendations'

1.2 Scope of Works

1.2.1 The scope of 'Trees in relation to construction' is to provide recommendations and guidance on how trees and other vegetation may be satisfactorily integrated into construction and development projects. The overall aim of this is to ensure the continued longevity and quality of amenity contribution that trees appropriate for retention and protection provide. This report and its appendices follow precisely the strategy for arboricultural appraisal and input intended to provide councils with evidence that trees have been properly considered throughout the development process.

1.2.2 This is a preliminary assessment from ground level and observations have been made solely from a visual perspective for the purposes of assessment in terms relevant to planning and development. No invasive or other detailed internal decay detection devices have been used in assessing internal conditions.

1.2.3 Any conclusions relate to conditions found at the time of inspection. Any significant alteration to the site that may affect the trees that are present or have a bearing on planning implications (including level changes, hydrological changes, extreme climatic events or other site works) will necessitate a re-assessment of the trees and the site and render any previous advice/ findings invalid.

1.2.4 This is an arboricultural report and no such reliance must be given to comments relating to buildings, engineering, soil or ecological issues.

1.3 Documentation

1.3.1 The following documentation has been made available

- OS map

2.0 Site & Tree Discussion

2.1 Site Description

2.1.1 The site is part of the commercial land associated with Newall Plant Ltd an aggregate and ground work company located at Heron Farm in Besthorpe. The site area is located to the NE quadrant of the site and is currently used for storage of materials. There are buildings located to the west, farmland to the north and east, with further company land to the south. The east boundary is dominated by a high earth bund. Access to the area is gained from the west from the main site.

2.2 Tree Discussion

2.2.1 A total of four individual trees and one group of trees have been assessed in detail from ground level by visual means only. The Tree Survey Schedule, at Appendix 1, details the trees in respect of dimension and quality in accordance with the methodology set out in the British Standard 5837:2012.

2.2.2 The trees are all located to the east boundary between the Newall Plant site and agricultural land. All the larger individual trees and one group were of Ash and in varying condition from moderate decline to dead. All Ash stems showed visible signs of Ash dieback infection again from moderate to severe. There is also an understorey hedge with Hawthorn, Blackthorn and further self-set Ash being noted, this hedge is of poor quality and of no overall significance.

2.2.3 Overall the surveyed vegetation was of low value with all Ash likely to succumb to the Ash dieback infection or other secondary infection within the next 10 years and as such none would be considered a constraint to any proposal.

3.0 Development Implication Assessment

3.1 The proposal

3.1.1 The proposal is to construction a demolition and excavation waste recycling facility in the red hatched area on the plan to allow the recycling of construction materials up to 60k tonnes.

3.1.2 The area is located within an existing area allowing the open area of storage of materials and recycling of inert materials such as soil; this is all separated from the surveyed vegetation by a large bund and as such has no material effect on the trees. However it should be noted that most of the surveyed vegetation is in poor condition and that some redial works may be required to remove dead or significantly declined stems should they pose any risk to persons and or property, this is realistically, due to the bund , only going to pose a risk to the farmland adjacent the trees so is therefore considered of low risk.

3.2 Construction

3.2.1 All construction activity is located away from the retained trees and as such there are no arboricultural concerns.

3.3 Cultural implications for retained trees

3.3.1 There are no concerns with regards to proximity to trees and therefore no increase in pressure to remove trees.

3.4 Tree protection

3.4.1 Due to the large bund separating the trees for the proposed storage area there is no requirement for protective fencing to be installed.

4.0 Conclusions

4.1.1 The proposal will have no material effect on the surveyed vegetation and as such there are no arboricultural concerns.

4.1.2 .No protection measures are required as the existing bund will prevent any access to the within the root areas of all trees.

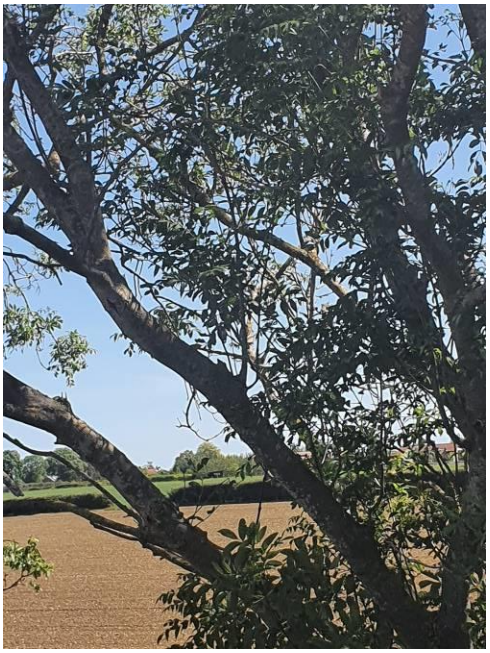
Appendix 1 Tree Survey Schedule

			Canopy Spread													
Tree Ref. No.	Species (Common Name)	Height (m)	N	E	S	W	Grnd Clrnc	DBH (mm)	RPR (cm)	RPA (m)	Age class	Gen Cond	Structural Defects/Comments	Estimated remaining contribution (BS 5837)	BS Cat	BS Sub Cat	Prelim Tree Work Recommendations
T1	Ash	14	5	5	5	5	2	550	660	136.78	MA	F	Minor dieback visible in crown	10+	U	1	
T2	Ash	14	5	5	5	5	1	350	420	55.39	MA	F	Moderate dieback visible in crown	<10	U	1	
T3	Ash	17	6	6	7	7	1	500	600	113.04	MA	F	Moderate dieback visible in crown	<10	U	1	
T4	Ash	15	0	0	0	0	1	400	480	72.35	MA	F	Dead standing tree. Ash dieback symptoms visible on remaining parts of tree	<10	U	1	
G1	Ash	15	4	5	3	5	1	500	600	113.04	MA	F	Group of Ash approx. 10 x stems. All showing visible signs of Ash dieback with differing states of decline	10+	U	1	
T1	Ash	16	7	6	8	6	2	550	660	136.78	MA	F	Ivy to stem minor dieback in crown	10+	C	1	

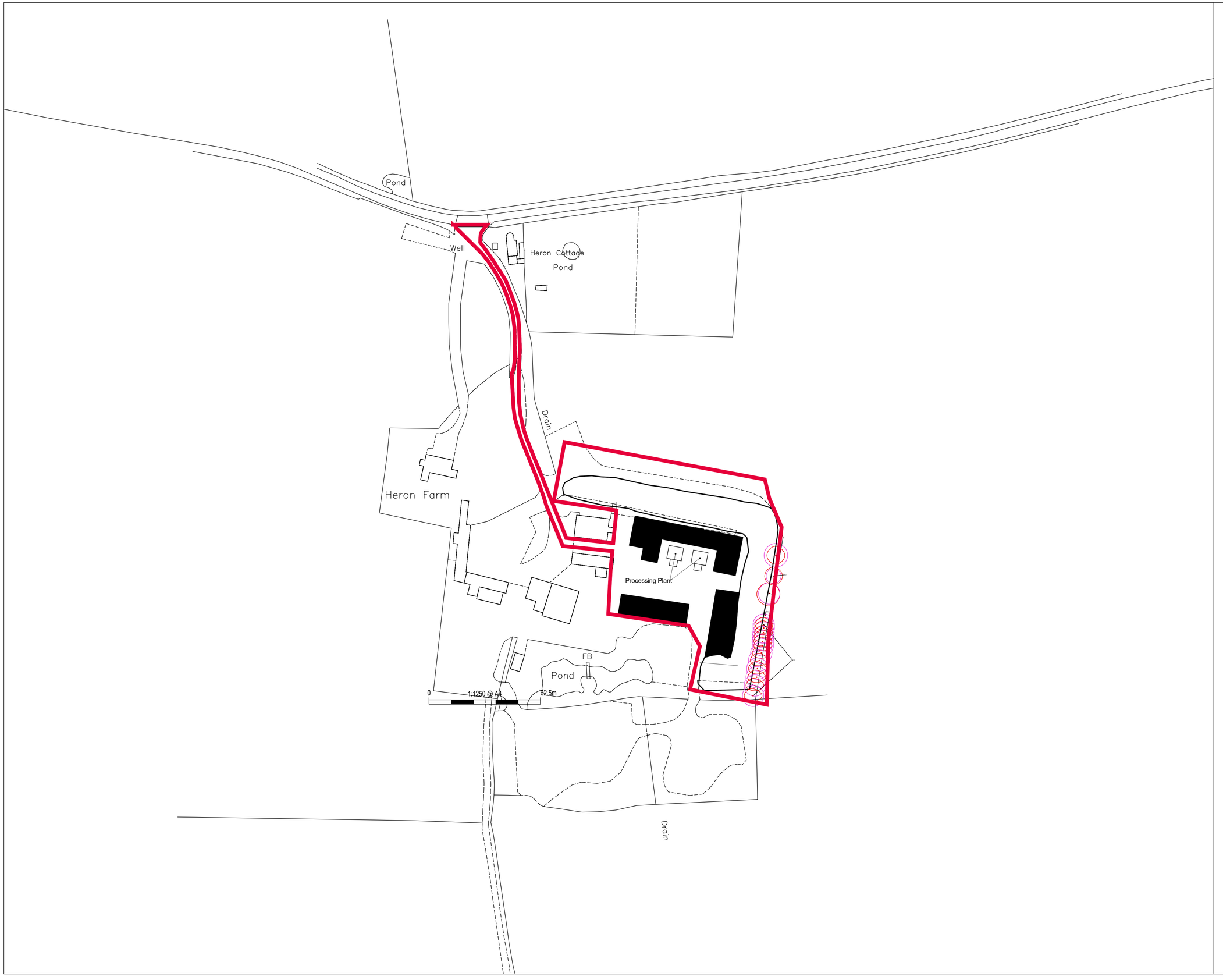
Tree Schedule Explanatory Notes

Ref.no	Identifies trees, groups and hedges on the accompanying plan.
Species	Common names are provided to aid wider comprehension.
Height	Describes the approximate height of the tree measured in metres from ground level
Canopy Spread	Indicates the crown radius from the base of the tree in four compass directions, recorded to the nearest metre.
Ground Clearance	Height of crown clearance above adjacent ground in metres.
DBH (mm)	DBH is the diameter of the stem measured in cm at 1.5m from ground level for single stemmed trees or just above root flare for multi-stemmed trees. Stem Diameter may be estimated where access is restricted.
RPR (cm)	Root Protection Radius (RPR) is area required to be protected measured radially from the trunk centre.
RPA (m^2)	Root Protection Area (RPA) is the minimum rooting area in m^2 which should remain undisturbed around each tree.
Age Class	Age of the tree expressed as Y- Young, MA- Middle-Aged, EM- Early Mature, M- Mature or OM- Over-Mature
General Condition	Overall condition of tree expressed as :Good, Fair, Poor, Dead
Structural defects/Comments	May include general comments about growth characteristics, how it is affected by other trees and any previous surgery works. Also specific problems such as dead wood, pests, diseases, broken limbs. Etc
Estimated Remaining Years	Categorised in year bands of less than 10, 10+, 20+, 40+
BS Category	B.S. Cat refers to (BS 5837:2005 Table 1) and refers to tree/overall group quality and value; 'A' - High; 'B' - Moderate; 'C' - Low; 'U' - Remove.
Sub Category	Sub Cat refers to the retention criteria values where 1 is arboricultural, 2 is landscape and 3 is cultural including conservational, historic and commemorative

Appendix 2 Photos



Appendix 3 Tree Constraints Plan



KEY

T1 Existing Tree colour referenced in accordance with BS 5837 2005.

Red – Cat R Trees that are dead or showing signs of irreversible decline

Root Protection Area as calculated in accordance with BS 5837

N

CLIENT: Newall Plant Ltd			DWG. TITLE: Tree Constraints Plan		
SITE: Newall Plant Ltd, Besthorpe					
DRAWN BY: SPM	CHECKED BY: SPM	SCALE: 1:200 @A1	DATE: March 2023	DWG NO.: OAS 20-047-TS01	REV.: B.

Processing Plant

FB

Pond

62.5m

T2

T4

G1

KEY

T1 Existing Tree colour referenced in accordance with BS 5837 2005.

Red – Cat R Trees that are dead or showing signs of irreversible decline

Root Protection Area as calculated in accordance with BS 5837

N

CLIENT Newall Plant Ltd			DWG. TITLE Tree Constraints Plan		
SITE: Newell Plant Ltd, Besthorpe					
DRAWN BY SPM	CHECKED BY SPM	SCALE 1:200 @A1	DATE March 2023	DWG NO. OAS 20-047-TS02	REV. -