



Site Inspection Report

Norwich Northern Distributor Road

29 April 2019

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1 Introduction

Mott MacDonald has previously been appointed in the consultancy role of Landscape Architect for the Norwich Northern Distributor Road (NNDR) project on behalf of Norfolk County Council (NCC), producing the Development Consent Order (DCO) approved detailed proposals and written specifications for the soft landscaping design.

As part of our agreed scope with NCC (and as a DCO requirement) a Mott MacDonald landscape architect is to regularly inspect the works during the construction period, each time producing a report of the inspection to be issued to the NNDR Project Manager for consideration/action. This report outlines the general issues that are relevant across the scheme and provides commentary on individual plots, highlighting issues and recommended actions to ensure the implemented scheme meets the requirements of the approved drawings and specification and hence the DCO application.

Norse are the main landscape contractor, with Reg 13 Personal Data (Grounds Manager) as the main point of contact and Reg 13 Personal Data (operations manager) the main on-site contact. The intended construction period is due to end in March/April 2020.

This site inspection was carried out on Wednesday 24th and Thursday 25th April 2019 by Reg 13 Personal Data (CEC) of Mott MacDonald. The inspection took the form of a site walkover, conditions were bright and sunny on the 24th, with a temperature of approximately 18 degrees and overcast with a temperature of approximately 12 degrees on the 25th; the ground conditions were generally damp, but firm underfoot.

This site inspection report summarises the key findings from the inspection and recommended actions for consideration going forward. The aim of this report is to ensure the scheme complies with the DCO approved landscape plan and specification and that the landscaping scheme is implemented following best practice in accordance with the specification, establishing successfully in the long-term.

Item	Text	Action on
Inspection 24th/25th April 2019		
General		
1. Weed Control	<p>1.1 Specification states:</p> <p><i>Weed control shall be required throughout the site including temporary soil storage heaps, in accordance with sub-Clause 3002.1 and 2, for the duration of the contract period including the maintenance period, to be inspected once every two months during the growing season April-September, for infestations of injurious weeds.</i></p> <p>1.2 Inspection:</p> <p>Common Ragwort, Creeping Thistle and Spear Thistle are present across a number of plots, some of these are highlighted in the detailed plot section below. However, as per the Series 3000 Landscape Specification all plots should be inspected again in June and August to determine any further infestations.</p>	Norse
2. Weed Control by Pulling/ Hand-weeding	<p>2.1 Specification states:</p> <p><i>Weeds shall be removed by hand from tree guards and shrub shelters in accordance with sub-Clause 3002.8</i></p> <p><i>3002.8: Hand-weeding shall consist of removal of the entire weed, including roots, by digging, forking, hoeing or pulling. Weeds shall be removed prior to flowering and the arisings removed in accordance with sub-Clause 10 of this Clause.</i></p> <p>2.2 Inspection:</p> <p>During the site visit it was noted that within a number of plots the tree guards and shrub shelters were overgrown with grass and/or weeds across the scheme. Therefore, these shelters require hand-weeding in accordance with the prescr bed specification clause noted above, and an improved regime of inspection and maintenance from the contractor going forward to ensure weed-ingress is maintained.</p> <p>This departure from the Series 3000 Landscape Specification was highlighted in our previous Site Inspection Reports. This will result in restricted plant growth or where plants have not succeeded a potential loss of up to 2 years growth. Therefore, all shelters should be hand-weeded immediately. This will give the plants the best opportunity in the new growing season and allow the number of failures to be determined (once the plant is in leaf). Once the number of failures has been determined these should be replaced in the next planting season with plants same as the original stock at the time of planting, except that it shall be an additional year older for each year that has elapsed since the original stock was planted, in line with the requirements of the Series 3000 Landscape Specification.</p>	Norse
3. Grass and Wildflower Maintenance	<p>3.1 Specification states:</p> <p><i>Grass and wildflower areas shall be maintained in accordance with sub-Clauses 3007.1 to 7</i></p> <p><i>The grass cutting operation shall include cutting around all obstacles such as trees, posts and signs. Strimmers may be used where appropriate. No cutting shall take place within 300mm of any individual tree or shrub.</i></p> <p><i>Grass clippings and arisings within all planted areas shall be dispersed evenly over the sward. All other areas sown with wildflower seed mixes arisings shall be removed off site.</i></p> <p><i>Grass Cutting: medium frequency</i></p>	Norse

	<p><i>Cutting requirements for swale areas shall be as set out in sub-Clauses 3007.13 as follows:</i></p> <ul style="list-style-type: none"> • <i>First Cut after Winter/Spring. The areas shall be cut when the grass reaches a height of 75 - 100 mm to a height between 50 - 70 mm and the cuttings removed off Site.</i> • <i>Subsequent Cuts. The areas shall be cut to a height between 50 - 60 mm at least 6 times per year during the growing season and the cuttings removed off Site.</i> <p><i>Grass Cutting: minimal frequency</i></p> <p><i>A single cut shall be undertaken in accordance with sub-Clause 3007.18 to 21 for 1m width from the edge of the carriageway and visibility splays.</i></p> <p><i>Grass cutting: Areas of planting</i></p> <p><i>Cutting shall be undertaken annually in accordance with sub-Clause 3007:23 to 25 in all Woodland, Linear Belts of Trees and Shrubs, Shrubs as shown on drawings MMD-339156</i></p> <p><i>Wildflower Areas</i></p> <p><i>Cutting of all wildflower areas shall be undertaken in accordance with sub-Clause 3007.26 to 27 twice a year for years 2 and 3 following establishment. Cutting for years 4 and 5 shall be undertaken annually in autumn. Weed control shall be undertaken annually in accordance with sub-Clause 3002.7 and 8 and 3007.29 and 30.</i></p> <p>3.2 Inspection:</p> <p>During the site visit it was evident that limited grass maintenance has been undertaken across the scheme, either recently or during the summer months. This is resulting in the failure and/or the inhibition of growth of plants across the scheme as detailed below.</p> <p>The majority of plots require grass maintenance immediately, in accordance with the prescribed specification clause noted above, and an improved regime of inspection and maintenance from the contractor going forward to ensure grass maintenance is maintained.</p>	
<p>4. Mulching</p>	<p>4.1 Specification states: <i>Mulches: Ground Preparation</i></p> <p><i>Timber mulch is to be used in accordance with sub-Clause 3006.55 to 57. Mulch shall be spread evenly:</i></p> <ul style="list-style-type: none"> • <i>over a 1 m diameter circle around feathered trees, to a depth of 75 mm after settlement;</i> • <i>over 300mm diameter circle around transplants and shrubs, to a depth of 75mm after settlement; and</i> • <i>along the hedge trench to a width of 600mm, to a depth of 75mm after settlement.</i> <p>4.2 Inspection:</p> <p>During the site visit it was noted that the majority of new season planting across the plots has not been mulched. As previously advised the mulching should be undertaken as soon as possible after planting, ideally on a plot by plot basis, to retain moisture and act as weed suppressant. Mulching undertaken on an ad-hoc basis will negate the purpose of the mulching and lead to a reduction in plant growth and increased failures, due to weed competition and potential droughts.</p> <p>4.3 Specification states: <i>The depth of mulch shall be inspected once per year in March and new mulch laid to restore the depth to 75mm in accordance with sub-Clause 3009.12.</i></p>	<p>Norse</p>

	<p>4.4 Inspection: The plots planted in the 2016/2017 and the 2017/2018 season fall under Establishment Maintenance criteria and require re-mulching. Those plots requiring re-mulching are detailed below.</p>	
5. Establishment Maintenance for Planting	<p>5.1 Weed Control: Young Trees and Shrubs in Grass Plots: Plant circles shall be defined as the area within a 500 mm radius of an individual tree or shrub, within which weed control operations are carried out.</p> <p>5.2 Inspection: The plots planted in the 2016/2017 and the 2017/2018 season fall under Establishment Maintenance criteria and require weed control. Those plots requiring weed control are detailed below.</p>	
6. Management of Waterbodies Weed Control	<p>6.1 Specification states: <i>Undesirable species or areas of vegetation to be subject to weed control shall be detailed by a Landscape Architect or an Ecologist.</i></p> <p><i>Where required, weeds in the waterbodies shall be removed by handweeding in accordance with sub-Clause 3002.8</i></p> <p>6.2 Inspection: The new ponds at Gazebo Farm are largely overgrown by a combination of, most notably, Typha latifolia (Bulrush) and other pond species and weeds and require management (see figures 3 and 4). Due to the sensitive nature of the area and protected species locally. This should only be undertaken at the correct time of the year and in conjunction with fully trained ecologists.</p>	Norse

Plot	Inspection comments	Date planted
Plot 1.0	<p>Losses across the northern part of the plot are of an acceptable level. However, across other areas within this plot the failure rate is very high and of an unacceptable level. Across the southern part of the plot there are 70-80% losses between chainage 250-400, with approximately 40% losses across the remainder of the southern part of the plot.</p> <p>Determine species lost and record; remove dead plants and shelters; trim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.</p>	Planted 2016/2017
Plot 1.1	<p>Roundabouts not reviewed due to H&S issues crossing live carriageway. However, noted one tree on side, check and re-stake or replace.</p> <p>Strim plot; spray around remaining plants; re-mulch.</p>	Planted 2016/2017
Plot 1.2	Phragmites – not reviewed	-
Plot 1.3	Phragmites – not reviewed	-
Plot 1.3A	95% lost – Remove dead plants and shelters; trim; spray; recultivate and replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 1.4	<p>33% Betula lost, north part of plot 95% shrub losses.</p> <p>Determine species lost and record; remove dead plants and shelters; trim plot; handweed shelters; spray around remaining plants; remulch remaining plants. Replace lost plants as advised by Landscape Architect.</p>	Planted 2017/2018
Plot 1.4A	100% losses north side of road, acceptable south of road.	Planted 2017/2018

	Determine species lost and record; remove dead plants and shelters; trim plot; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	
Plot 1.5	100% Betula lost, 50% losses across remainder of plot. Determine species lost and record; remove dead plants and shelters; trim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 1.5A	Not planted.	
Plot 1.6	Mulch and remove plastic ties.	Planted 2018/2019
Plot 1.7	60% loss of Betula and 20% loss of shrubs west of chainage 1050. East of chainage 1050, patchy losses. Determine species lost and record; remove dead plants and shelters; trim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 1.8	Strim plot; handweed shelters; spray around remaining plants; remove shelters from plants outgrowing shelters; re-mulch remaining plants.	Planted 2016/2017
Plot 2.0	Strim plot; handweed shelters; spray around remaining plants; remove shelters from plants outgrowing shelters; re-mulch remaining plants.	Planted 2016/2017
Plot 2.1	Quercus planted and should be Betula. However, 70% Quercus lost and to be replaced with Betula. Remove dead plants and shelters; trim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Plant completed 2017/2018
Plot 2.2	Strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants.	Planted 2017/2018
Plot 2.3	Phragmites – not reviewed	-
Plot 2.4	Phragmites – not reviewed	-
Plot 2.4A	Not planted.	Not planted.
Plot 2.5	Roundabouts not reviewed due to H&S issues crossing live carriageway.	Planted 2016/2017
Plot 2.6	Pines ok, 100% losses remainder of plot. Determine species lost and record; remove dead plants and shelters; recultivate and replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 2.7	Shrubs not planted. Re-mulch remaining plants; cultivate remainder of plot; plant shrubs as per specification.	Trees planted 2016/2017 For maintenance period purposes plot not considered complete until shrubs planted. Therefore, maintenance period will begin once entirety of planting

		complete – likely 2019/2020 season.
Plot 2.8	Strim plot; handweed shelters; spray around plants.	Planted 2018/2019
Plot 2.9	Determine species lost and record; remove dead plants and shelters; strim plot; handweed remaining shelters; spray around remaining plants; remove shelters from plants outgrowing shelters; remulch remaining plants. Replace lost plants as advised by Landscape Architect. In addition, plot not planted in its entirety, bridge embankments require planting.	Planting completed 2017/2018
Plot 2.9A	Quercus lost – replace as per specification	Planted 2017/2018
Plot 2.10	80% lost – Remove dead plants and shelters; strim; handweed shelters; spray around remaining plants; recultivate and replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 2.10A	Strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants.	Planted 2017/2018
Plot 2.11	Approximately 40% losses. Determine species lost and record; remove dead plants and shelters; strim plot; handweed remaining shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2016/2017
Plot 2.12	Approximately 60% losses. Determine species lost and record; remove dead plants and shelters; strim plot; handweed remaining shelters; spray around remaining plants; remove shelters from plants outgrowing shelters; remulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 2.13	Strim plot; spray around plants; re-mulch plants.	Planted 2017/2018
Plot 2.13A	Strim plot; spray around plants; re-mulch plants.	Planted 2016/2017
Plot 2.14	Quercus lost – replace as per specification. Shrubs - Determine species lost and record; remove dead plants and shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 2.15	Strim plot; spray around plants; remulch plants.	Planted 2016/2017
Plot 2.16	West of chainage 2500, plot not planted in its entirety, bridge embankments require planting. Strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants.	Planted 2017/2018 For maintenance period purposes plot not considered complete until shrubs planted. Therefore, maintenance period will begin once

		entirety of planting complete – likely 2019/2020 season.
Plot 2.17	Strim plot; handweed shelters; spray around remaining plants; remove shelters from plants outgrowing shelters; re-mulch remaining plants.	Planted 2017/2018
Plot 3.0	Strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants.	Planted 2017/2018
Plot 3.1	Phragmites – not reviewed	-
Plot 3.2	Strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants.	Planting completed 2017/2018
Plot 3.3	Roundabouts not reviewed due to H&S issues crossing live carriageway.	Planted 2016/2017
Plot 3.4	Newly planted, losses appear significant but difficult to determine. Suggest review end of May 2019. Plastic ties require removal and plants require mulching.	Planted 2018/2019
Plot 3.5	Strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants.	Planted 2017/2018
Plot 3.6	Phragmites – not reviewed	-
Plot 3.7	100% Trees dead. Patchy losses across shrubs. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2018/2019
Plot 3.7A	Highlighted as completed by Norse, but not planted.	Not planted.
Plot 3.8	Requires mulching.	-
Plot 3.9	Approximately 90% Trees dead. Patchy losses across shrubs. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 3.10	Patchy losses resulting in approximately 40% losses across the plot and no mulch. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 3.11	Newly planted, losses appear significant but difficult to determine. Suggest review end of May 2019.	Planted 2018/2019
Plot 4.0	Phragmites – not reviewed	-
Plot 4.1	Phragmites – not reviewed	-
Plot 4.2	Patchy losses across the plot. Determine species lost and record; remove dead plants and shelters; strim plot; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2018/2019
Plot 4.3	Requires mulching.	Planted 2018/2019
Plot 4.3A	Not planted.	Not planted.

Plot 4.4	Roundabouts not reviewed due to H&S issues crossing live carriageway.	Planted 2017/2018
Plot 4.5	Phragmites – not reviewed	-
Plot 4.6	Phragmites – not reviewed	-
Plot 4.7	Quercus lost – replace as per specification. Patchy losses across shrubs, approximately 60%. Determine species lost and record; remove dead plants and shelters; trim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 4.7A	Requires mulching.	Planted 2018/2019
Plot 4.8	Patchy losses across shrubs and trees. Determine species lost and record; remove dead plants and shelters; trim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planting completed 2017/2018
Plot 4.9	100% Trees lost – replace as per specification. Patchy losses across shrubs, approximately 60%. Determine species lost and record; remove dead plants and shelters; trim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 4.10	Quercus lost – replace as per specification. Patchy losses across shrubs, approximately 60%. Determine species lost and record; remove dead plants and shelters; trim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 4.10A	Requires mulching.	Planted 2017/2018
Plot 4.11	Quercus lost – replace as per specification. Strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants.	Planted 2017/2018
Plot 4.12	Patchy losses across shrubs and trees. Determine species lost and record; remove dead plants and shelters; trim plot; handweed shelters; spray around remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 5.0	Patchy losses across shrubs and trees. Determine species lost and record; remove dead plants and shelters; trim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2018/2019
Plot 5.1	Patchy losses across shrubs and trees. Determine species lost and record; remove dead plants and shelters; trim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 5.2	Requires mulching.	Planted 2018/2019
Plot 5.2A	Not planted.	Planted 2018/2019

Plot 5.3	Partially mulched, requires finishing.	Planted 2018/2019
Plot 5.3A	Requires mulching.	Planted 2018/2019
Plot 5.4	Phragmites – not reviewed	-
Plot 5.5	Phragmites – not reviewed	-
Plot 5.6	Roundabouts not reviewed due to H&S issues crossing live carriageway.	Planted 2017/2018
Plot 5.7	Phragmites – not reviewed	-
Plot 5.8	Quercus lost – replace as per specification. Strim plot; spray around remaining plants; mulch plot.	Planted 2018/2019
Plot 5.9	Requires mulching.	Planted 2018/2019
Plot 5.10	Requires mulching and plastic ties removing.	Planted 2018/2019
Plot 6.0	Phragmites – not reviewed	-
Plot 6.1	Patchy losses across shrubs and trees. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 6.2	Patchy losses across shrubs and trees. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 6.3	Roundabouts not reviewed due to H&S issues crossing live carriageway.	Planted 2017/2018
Plot 6.4	Patchy losses across shrubs and trees. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 6.5	Patchy losses across shrubs and trees. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 6.5A	Requires mulching.	Planted 2017/2018
Plot 6.6	Phragmites – not reviewed	-
Plot 6.7	80% Trees lost – replace as per specification. Acceptable losses across shrubs. Determine species lost and record; remove dead plants and shelters; mulch plot. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 6.8	Patchy losses across shrubs and trees. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 6.8A	Requires mulching.	Planted 2017/2018

Plot 6.9	Patchy losses across shrubs and trees. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 7.0	Quercus 100% lost – replace as per specification. Patchy losses across remaining shrubs and trees. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 7.1	Quercus 100% lost – replace as per specification. Patchy losses across remaining shrubs and trees. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 7.2	Requires mulching.	Planted 2017/2018
Plot 7.3	Approximately 90% Losses across trees and shrubs. Plastic ties require removal and plants require mulching. Determine species lost and record; remove dead plants and shelters. Replace lost plants as advised by Landscape Architect.	Planted 2018/2019
Plot 7.4	Requires mulching.	Planted 2017/2018
Plot 7.5	Not planted.	Not planted.
Plot 7.6	Newly planted, losses appear significant but difficult to determine. Suggest review end of May 2019. Plastic ties require removal and plants require mulching.	Planted 2018/2019
Plot 7.7	Requires mulching.	Planted 2017/2018
Plot 7.8	Top and base not planted to date.	Not Planted
Plot 7.9	Approximately 90% Losses across trees and shrubs. Plastic ties require removal and no mulching undertaken. Determine species lost and record; remove dead plants and shelter. Replace lost plants and mulch as advised by Landscape Architect.	Planted 2018/2019
Plot 7.10	Not planted, removed from scheme.	-
Plot 7.10A	Not planted.	Not planted.
Plot 7.11	Phragmites – not reviewed.	-
Plot 7.12	Requires mulching.	Planted 2017/2018
Plot 7.13	Not planted.	Not planted.
Plot 7.14	Patchy losses across shrubs and trees west of chainage 11250. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; mulch remaining plants. Replace lost plants as advised by Landscape Architect. East of chainage 11250 losses acceptable. Strim plot; spray around remaining plants; handweed shelters; mulch plot.	Planting completed 2017/2018

	Injurious weeds identified across plot, apply weed control as per landscape specification before 2019/2020 planting season.	
Plot 7.15	Not planted. Injurious weeds identified across plot, apply weed control as per landscape specification before 2019/2020 planting season.	Not planted.
Plot 7.15A	Not planted.	Not planted.
Plot 7.16	Determine number of Pine losses and replace with alternative species, suggest <i>Alnus glutinosa</i> and <i>Populus tremula</i> to tie in with neighbouring plots. Strim plot; handweed shelters; spray around remaining plants; handweed shelters; mulch plot.	Planting completed 2017/2018
Plot 8.0	Determine number of Pine losses and replace with alternative species, suggest <i>Alnus glutinosa</i> and <i>Populus tremula</i> to tie in with neighbouring plots. Strim plot; handweed shelters; spray around remaining plants; mulch plot.	Planted 2017/2018
Plot 8.0A	Not planted.	Not planted.
Plot 8.0B	Not planted.	Not planted.
Plot 8.1	Partially planted, but not mulched.	Planted 2017/2018 For maintenance period purposes plot not considered complete until shrubs planted. Therefore, maintenance period will begin once entirety of planting complete – likely 2019/2020 season.
Plot 8.2	Not planted.	Not planted.
Plot 8.3	Roundabouts not reviewed due to H&S issues crossing live carriageway.	Planted 2017/2018
Plot 8.4	Approximately 50% Losses across trees. Determine species lost and record; remove dead plants and shelter. Replace lost plants and mulch as advised by Landscape Architect.	Planted 2017/2018
Plot 8.5	Approximately 60% Losses across trees and shrubs. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; remulch plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 8.6	Phragmites – not reviewed.	-
Plot 8.6A	<i>Quercus</i> 100% lost – replace as per specification.	Planted 2017/2018
Plot 8.7/8.7A	3No <i>Quercus</i> lost – replace as per specification.	Planted 2017/2018
Plot 8.8	Strim plot; spray around remaining plants; handweed shelters; mulch plot.	Planted 2017/2018

Plot 8.8A/8.9	Trees acceptable losses, approximately 90% Losses across shrubs. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 8.10	Phragmites – not reviewed.	-
Plot 8.11	Phragmites – not reviewed.	-
Plot 8.12	Not planted, removed from scheme.	-
Plot 8.13	Trees acceptable losses approximately 80% Losses across shrubs. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planting completed 2017/2018
Plot 9.0	Approximately 60% Losses across trees and shrubs. Determine species lost and record; remove dead plants and shelters; strim plot; handweed shelters; spray around remaining plants; re-mulch plants. Replace lost plants as advised by Landscape Architect.	Planted 2018/2019
Plot 9.1	Patchy losses across shrubs and trees west of chainage 13750. Determine species lost and record; remove dead plants and shelters; handweed shelters; spray around remaining plants; re-mulch remaining plants. Replace lost plants as advised by Landscape Architect. East of chainage 13750 losses acceptable. Spray around remaining plants; handweed shelters; mulch plot.	Planted 2016/2017
Plot 9.2	Approximately 60% of plot requires replanting east of chainage 13750. High success rate across plants remaining. West of chainage 13750 patchy losses. Determine species lost and record; remove dead plants and shelters; spray around remaining plants; remove shelters from plants outgrowing shelters; handweed shelters; mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2017/2018
Plot 9.3	Patchy losses across shrubs and trees west of chainage 14000. East of chainage 14000 up to approximately 80% losses of trees and shrubs - replace as per specification. Determine species lost and record; remove dead plants and shelters; spray around remaining plants; handweed shelters; mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2016/2017
Plot 9.4	Approximately 30% losses trees and shrubs. Determine species lost and record; remove dead plants and shelters; mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2018/2019
Plot 9.5	Requires remulching.	Planted 2018/2019
Plot 9.6	Roundabouts not reviewed due to H&S issues crossing live carriageway.	Planted 2017/2018
Plot 9.7	Strim plot; spray around plants; mulch plants.	Planted 2018/2019
Plot 9.8	Strim plot; spray around plants; mulch plants.	Planted 2018/2019
Plot 9.9	Strim plot; spray around plants; mulch plants.	Planted 2018/2019
Plot 9.9A	Phragmites – not reviewed.	-

Plot 9.10	Approximately 40% losses trees and shrubs. Determine species lost and record; remove dead plants and shelters; mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2018/2019
Plot 9.10A	Not planted.	Not Planted
Plot 9.11	100% Trees dead, shrubs not planted. Determine species lost and record; remove dead plants and shelters. Cultivate and replace lost plants as advised by Landscape Architect.	Planted 2018/2019
Plot 9.11A	Strim and spray plot; handweed shelters; mulch plot.	Planted 2018/2019
Plot 9.11B	Phragmites – not reviewed.	-
Plot 9.12	Phragmites – not reviewed.	-
Plot 9.13	Requires mulching.	Planted 2018/2019
Plot 9.14	Requires mulching.	Planted 2018/2019
Plot 9.15	Phragmites – not reviewed.	-
Plot 9.15A	Phragmites – not reviewed.	-
Plot 9.16	Requires mulching.	Planted 2018/2019
Plot 9.17	Requires mulching.	Planted 2018/2019
Plot 9.17A	Requires mulching.	Planted 2018/2019
Plot 9.18	Requires mulching.	Planted 2018/2019
Plot 9.18A	Requires mulching.	Planted 2018/2019
Plot 9.19	Requires mulching.	Planted 2018/2019
Plot 9.20	Approximately 80% Losses across trees and shrubs. Determine species lost and record; remove dead plants and shelters; strim plot; spray around remaining plants; mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2018/2019
Plot 9.21	Requires mulching.	Planted 2018/2019
Plot 9.22	Approximately 50% Losses across trees and shrubs. Determine species lost and record; remove dead plants and shelters; strim plot; spray around remaining plants; mulch remaining plants. Replace lost plants as advised by Landscape Architect.	Planted 2016/2017
Plot 9.23	Approximately 50% Losses across trees and shrubs. Determine species lost and record; remove dead plants and shelters; strim plot; spray around remaining plants; mulch remaining plants. Replace lost plants as advised by Landscape Architect. Injurious weeds identified across plot and surrounding area, apply weed control as per landscape specification before 2019/2020 planting season.	Planted 2016/2017
Plot 9.24	Strim and spray plot; handweed shelters; re-mulch plot. Injurious weeds identified across plot and surrounding area, apply weed control as per landscape specification before 2019/2020 planting season.	Planted 2016/2017
Plot 10.0	Requires mulching.	Planted 2018/2019

Plot 10.1	Requires mulching.	Planted 2018/2019
Plot 10.1A	Requires mulching.	Planted 2018/2019
Plot 10.2	Requires mulching.	Planted 2018/2019
Plot 10.3	Requires mulching.	Planted 2018/2019
Plot 10.4	Requires mulching.	Planted 2018/2019
Plot 10.5	Requires mulching.	Planted 2018/2019
Plot 10.6	Requires mulching.	Planted 2018/2019
Plot 10.7	Requires mulching.	Planted 2018/2019
Plot 10.8	Requires mulching.	Planted 2018/2019
Plot 10.9	Requires mulching.	Planted 2018/2019
Plot 10.10	Requires mulching.	Planted 2018/2019
Plot 10.10A	Requires mulching.	Planted 2018/2019
Plot 10.11	Requires mulching.	Planted 2018/2019
Plot 10.12	Requires mulching.	Planted 2018/2019
Plot 10.13	Requires mulching.	Planted 2018/2019
Plot 10.14	Requires mulching.	Planted 2018/2019
Plot 10.15	Roundabouts not reviewed due to H&S issues crossing live carriageway.	-
Plot 10.16	Phragmites – not reviewed.	-
Plot 10.17	Requires mulching.	Planted 2018/2019
Plot 10.18	Phragmites – not reviewed.	-
Plot 10.19	Requires mulching. Planting of plot not complete.	Planted 2017/2018 For maintenance period purposes plot not considered complete until shrubs planted. Therefore, maintenance period will begin once entirety of planting complete – likely 2019/2020 season.

Plot 10.20	Requires mulching.	Planted 2018/2019
Plot 10.21	Requires mulching. Planting of plot not complete.	Planted 2017/2018 For maintenance period purposes plot not considered complete until shrubs planted. Therefore, maintenance period will begin once entirety of planting complete – likely 2019/2020 season.
Plot 10.22	Requires mulching.	Planted 2018/2019
Plot 10.23	Requires mulching.	Planted 2018/2019
Plot 10.24	Requires mulching.	Planted 2018/2019
Plot 10.25	Requires mulching.	Planted 2018/2019
Plot 11.0	Strim plot; spray around plants; mulch plants.	Planted 2018/2019
Plot 11.1	Requires mulching.	Planted 2018/2019
Plot 11.2	Phragmites – not reviewed.	-
Plot 11.3	Requires mulching.	Planted 2018/2019
Plot 11.4	Requires mulching.	Planted 2018/2019
Plot 11.5	Phragmites – not reviewed.	-
Plot 11.6	Requires mulching.	Planted 2018/2019
Plot 11.7	Roundabouts not reviewed due to H&S issues crossing live carriageway.	Planted 2018/2019
Plot 11.8	Requires mulching.	Planted 2018/2019
Plot 11.9	Requires mulching.	Planted 2018/2019
Plot 11.9A	Requires mulching.	Planted 2018/2019
Plot 11.10	Requires mulching.	Planted 2018/2019
Plot 11.11	Requires mulching.	Planted 2018/2019
Plot 11.12	Requires mulching.	Planted 2018/2019
Plot 11.13	Requires mulching.	Planted 2018/2019

Plot 11.14	Only trees planted, requires mulching.	Planted 2017/2018 For maintenance period purposes plot not considered complete until shrubs planted. Therefore, maintenance period will begin once entirety of planting complete – likely 2019/2020 season.
Plot 11.15	Requires mulching.	Planted 2018/2019
Plot 11.16	Phragmites – not reviewed.	-
Plot 11.17	Not on plan.	-
Plot 11.18	Requires mulching.	Planted 2018/2019
Plot 11.19	Requires mulching.	Planted 2018/2019
Plot 11.20	Requires mulching. Planting of plot not complete.	Planted 2017/2018 For maintenance period purposes plot not considered complete until shrubs planted. Therefore, maintenance period will begin once entirety of planting complete – likely 2019/2020 season.
Plot 11.21	Requires mulching.	Planted 2018/2019
Plot 11.22	Requires mulching.	Planted 2018/2019
Plot 11.23	Requires mulching.	Planted 2018/2019
Plot 11.24	Phragmites – not reviewed.	-
Plot 12.0	Only trees planted, requires mulching and strimming.	Planted 2017/2018 For maintenance period purposes plot not

		considered complete until shrubs planted. Therefore, maintenance period will begin once entirety of planting complete – likely 2019/2020 season.
Plot 12.0A	Requires mulching.	Planted 2018/2019
Plot 12.1	Not planted.	Not planted.
Plot 12.2	Not planted.	Not planted.
Plot 12.3	Not planted.	Not planted.
Inset A	15 Quercus lost to north of plot– replace as per specification. Strim plot; spray around plants; mulch plants. No water bags provided to date, as proposed by Norse at meeting of the 19.03.2019.	Planted 2017/2018

Summary

This site inspection has shown that there are a number of issues that remain unresolved and require immediate rectification. This relates principally, although not entirely, to the undertaking of establishment maintenance. The Series 3000 Landscape Specification, as found within the Norwich Northern Distributor Road (NNDR) Landscape and Ecological Management Plan (LEMP), sets out clear and specific instructions on how planting should be undertaken, from Ground Preparation through to Establishment Maintenance. It is a requirement of the Development Consent Order for the Scheme that the LEMP is followed. This is to ensure that the planting performs the ecological, visual amenity and landscape character mitigation roles highlighted within the NNDR Environmental Statement.

Overall, it is not considered that the planting and maintenance has not been undertaken as per the Landscape Specification. This has contributed to widespread plant losses across the scheme, as highlighted in the individual plot assessment. As such, in line with the Landscape Specification, any losses from the 2016/2017 season shall be replaced with plant stock 2 years older and any losses from the 2017/2018 season shall be replaced with plant stock 1 year older. All plant stock/species ordered should be as advised by the Landscape Architect to assist in minimising losses in new stock.

Summary of actions highlighted from the site inspection to be completed immediately:

- All plants to be mulched as per Landscape Specification.
- A number of shrub guards across the scheme are full of grass and weed growth, providing competition for the young plant stock. Remove weeds and grass by hand.
- Strimming required across the scheme to manage grass and weed growth.
 Weed control to be undertaken as part of Establishment Maintenance requirements immediately.
- Mulch to be added as part of Establishment Maintenance requirements immediately.

- All arisings from planting operations to be removed off Site and disposed of in accordance with the site waste management plan.
- Newt ponds at Gazebo Farm require management.

