

ENVIRONMENTAL ALERT FORM

To be completed by the Design Engineer

Select and fill in spaces to make your assessment. Please submit a further page with extra information if needed.

	Kier Design Team Lead	HE SPM/Sponsor	Project Number (HE PIN and Kier WO number):	HE Pin: 569243 WON: 1610204	
Project Manager:	[REDACTED]	[REDACTED]			
Scheme Name & Location (inc. marker posts and/or Grid Reference):	A45 Great Doddington to Wellingborough Geotechnical		Date form submitted:	05/07/2019	
			EAF required by Date:	19/07/2019	
	Grid Reference:	Marker Posts	Design Completion Date:	30/10/2019	
CRITICAL!	Start: 487231, 264848 End: 487497, 265220	179/4 to 179/9 WB + EB			
Expected project cost and budget type:	[REDACTED]	[REDACTED]	Expected works start date:	01/09/2019	
	Type of Scheme:	Technical Survey			
	Scheme Stage:	Technical Survey/ Investigation			
Does this scheme form part of another scheme?				No	
If "YES" what is the scheme (PIN/ WO) No that this scheme is in relation to?					
Scheme area (in hectares) (including, access and storage areas):	2.9 (1.45 westbound + 1.45 eastbound) (Inc. carriageway)	Expected duration of works:	4 days	During what periods are the works expected to be executed:	Day
Who is the Principal Contractor?				To be appointed	
Brief description of project: (please provide relevant drawings/maps/photos etc)					
<p>Site location: A defective section of the A45 east and westbound earthwork has been identified on the Highways Agency Geotechnical Data Management System (HAGDMS) on Earthworks 40983 and 40831, comprising of three slipped sections on cuttings on either side of the carriageway (one westbound, two eastbound).</p> <p>Scheme purpose: The purpose of this scheme is to:</p> <ul style="list-style-type: none"> Identify the likely cause of the defects Develop an understanding of the local geology, geomorphology, hydrology and hydrogeology in context with the surrounding area Identify any environmental constraints that may need to be considered in the development of a scheme Identify the requirement for any surveys that may be required within the defective section of the network Design remedial works and stabilise the earthworks. <p>At this stage it is believed that the defect is likely caused by a shallow slip plane within the surface geology. As a result, the remedial actions proposed include granular replacement of the slipped material. At present, a topographical survey is required to aid in the design of potential remediation works.</p> <p>Construction activities to be executed (On site only): Site walkover survey (Environmental and Topographical).</p> <p>Construction activities to be executed (Off site only): None</p>					
Summary of Alternative Design Options Considered:					

How will the site be accessed? (attach plan)				Access from A45 under traffic management (lane closure)		
Will access from 3 rd party land be required?				No		
Will the scheme affect any access? e.g. to residence, farmland, public rights of way.				No		
If required, where will the site compound be located?				N/A for Topo		
Are the works entirely within the Highway Boundary (including compound etc)?				Yes		
If NO, how much and what type of land is being expected to be acquired/leased?				-		
What part of the Highways estate will the works be carried out in?				Soft estate		
Will sub-contractors be involved?				yes		
Is any part of the scheme or associated traffic management going to disturb the soft estate (including use of SPECS, storage of machinery or material on the verge and including trial holes)?				Yes		
What traffic management is likely to be required?				Lane 1 closure: Coned for Topo		
Are traffic diversions anticipated for this scheme?				No		
Has any previous Environmental Assessment been undertaken within the scheme extent or form part of the handover pack?				No		
Is the site likely to be contaminated?				No		
If YES, with what?		-				
Does the work involve excavation?				No		
If yes, approximately how much?						
If YES, has it been excavated in the past?				Yes		
If YES, what material will be excavated and where will it be retained?						
Does the scheme involve construction or excavation under the canopy or within 5m of the canopy of any trees?					No	
What wastes will be produced?						
Waste Type	Soft Veg Clearance	Hard Veg Clearance			Choose an item.	Choose an item.
Approximate Qty	200m ³	20m ^{3**}				
If other please list:	**Well established trees do not need to be removed. Only vegetation clearance with branch trimming.					
What recycling/reuse options could be adopted for any waste produced?				All waste materials must be removed from site in order to carry out the topo		
Is there an Asbestos Survey for this section of carriageway/structure?				No		
Will hazardous wastes be produced as part of this works?				No		
If YES, what types?						

Where will material (including waste) and machinery be stored onsite? (attach plan)		Cleared vegetation will be removed from site accordingly. Machinery (Site vehicle) and equipment will be stored in the lane closure during Topo Survey.						
Where in the design process has a sustainability option been included/ considered?		Throughout						
Has or will the Sustainable Highway Design Toolkit been utilised in this design?		Yes						
How will this improve sustainability in the design?	TBA							
Have carbon savings options have been considered for this scheme?		No						
If YES, please summarise.								
Are the works within 20m of a watercourse or flood defence structure?		No						
Will the works include concrete barrier?		No						
Does the scheme include drainage works?		No						
If YES, please summarise.								
Will there be any discharge of water from construction activities?		No						
If YES, where to?								
Are there properties which have a view of the site?		No						
Are any of the following locations within close proximity to the site?		Other						
		Choose an item.						
		Choose an item.						
		Choose an item.						
If other, please list: Sports field at crest of eastbound cutting (Wellingborough Rugby Club)								
Will the scheme affect noise, vibration, air quality or odour levels?		No						
Is there any evidence of wildlife? e.g. badger or rabbit holes.		Yes						
If yes, describe:	Will advise following site visit							
Are there any highway structures within 20m of the works? (e.g. bridges, culverts, etc)		No						
Please list Culvert/ Bridge ID no's within close proximity to the site:		-						
Does the scheme involve removing/disturbing vegetation? e.g. concreting/ paving over the soft estate, tree clearance, severance of tree roots, trial holes etc.		Yes						
If YES, how much and what type:	Grassland:	Yes	Trees:	Yes	Hedgerow (linear metre):	No	Wetland (m ²):	No
Other:	The above to be identified during walkover survey. Estimated in waste produced section.							
Is there any anticipated environmental mitigation required? e.g. replanting of trees, grass seeding etc.		Yes						
If yes describe:	Improved planting mix grasses and wildflowers where topsoil has been replaced over granular fill. Replanting/ mitigation planting to be undertaken following main remedial works.							

Please list any additional relevant Information in the box below:					
Additional information – local clearance to facilitate the Topo survey. Only ground vegetation clearance and branch trimming.					
Please describe the biodiversity gain opportunities that have been or will be considered for incorporation into the design (click link for more info):					
1.	<u>Amphibian Tunnels</u>	No	11.	<u>Butterfly Scrapes</u>	No
2.	<u>Trees</u>	No	12.	<u>Bee Banks</u>	Yes
3.	<u>Wildlife Ponds/Ground Scrapes</u>	No	13.	<u>Bee/Insect Hotels</u>	Yes
4.	<u>Grassless greensward</u>	Yes	14.	<u>Species Rich Grasslands</u>	Yes
5.	<u>Natural Materials Support Methods</u>	No	15.	<u>Otter Ledge/Ramps</u>	No
6.	<u>Nest Boxes</u>	Yes	16.	<i>If other please list:</i>	Choose an item.
7.	<u>Canopy Linkage</u>	No	17.		Choose an item.
8.	<u>Dead Wood Habitats</u>	No	18.		Choose an item.
9.	<u>Improving Wildlife Corridors</u>	Yes	19.		Choose an item.
10.	<u>Wildlife Kerbs</u>	No	20.		Choose an item.
Provide a description if you have answered 'Yes' for any of the opportunities above Will take advice from environment team about potentially viable options					
Please forward completed form along with an appropriately sized plan indicating location and extent of works, and any other relevant information (e.g. photographs if available, proposed designs) to the Environment Team.					
Details of Project scope provided and EAF requested by:					

SCREENING ASSESSMENT**To be completed by the Environment Team in response to all Environmental Alert Forms**

Note: When looking at each topic, consider the vulnerability of the project to risks of major accidents and/or disasters and any consequential changes in the predicted effects of that project on each topic listed below. Furthermore, any impacts of the project on national and local Policies and Plans should be considered on a topic by topic basis. Will the project be impacted by heat and radiation? If so make a note in Geology and Soils and scope in as a separate topic. Additional Guidance: [SHEMS-GUI-HIG-025-MPI-57-052017 Environmental Impact Assessment](#)

	Considerations	Scoping Required?		Reasons
		Yes	No	
Air Quality	<p>Will the scheme affect atmospheric particulate levels (e.g. dust) permanently?</p> <p>Are there any areas which are already subject to pollution e.g. AQMAs?</p> <p>Will there be any impact to human health?</p>	No		<p>Air Quality Management Areas There are no Air Quality Management Areas (AQMAs) within 1km of the survey extents.</p> <p>Receptors The following receptors are located within 200m of the work area: <i>Residential properties</i> None. The closest residential receptors are located over 400m from the scheme extents.</p> <p><i>Industrial and businesses</i></p> <ul style="list-style-type: none"> Wellingborough Rugby Club Grounds, Cut Throat Lane, 150m from carriageway <p><i>Other (e.g. bus stops)</i> None.</p> <p>The following work activities may contribute to reduced local air quality on a temporary basis:</p> <ul style="list-style-type: none"> The use of machinery and vehicles which produce emissions Vegetation disturbance and clearance, such as strimming, could lead to debris mobilisation under dry conditions Traffic Management requirements may impact the movement and flow of traffic through the local area <p>It is expected there will be a short term, small scale impact on local air quality for the duration of the survey. See required actions.</p> <p>Due to the nature of the works as a survey only, air quality will not be permanently affected by the works.</p> <p>See Required Actions. No significant impact is expected, no further assessment is required.</p>

Cultural Heritage	<p>Impacts on designations and any other potential archaeology and heritage.</p> <p>Cultural heritage within 300m incl. Scheduled Ancient Monuments; registered historic parks and gardens, battlefields; conservation areas; world heritage sites.</p>	<p>No</p>	<p>Designated assets</p> <p>There are no statutory designated historic assets within 300m of the proposed survey area.</p> <p>Non-designated assets</p> <p>Query of the Northamptonshire Historic Environment Record returns non-designated cultural heritage records or historical finds of importance within 300m of the works extent:</p> <ul style="list-style-type: none"> • HER 3887/1/1 Possible major Roman road, in field 250m N of A45 • HER 6163/0/1 Possible Roman road, 45m N of A45 • HER 10195/0/1 Undated Road, 25m N of A45 • Monument No. 1412458, WWII Royal Observer Corps (1946) Monitoring Post, located in the grounds of the Wellingborough Rugby Club car park. <p>There is no statutory protection associated with these records. All records were identified outside of the highway boundary.</p> <p>Work activity will be conducted on previously disturbed ground, confined to highway verges. The works will not involve breaking ground and will be restricted to handheld equipment and vegetation removal therefore it is unlikely that the survey works would encounter any previously unidentified archaeology and heritage artefacts.</p> <p>As such, there are no anticipated significant impacts to cultural heritage assets.</p> <p>No significant impact is expected, no further assessment is required.</p>
Landscape	<p>Impact to designated areas.</p> <p>Visual impacts on Local properties or landscape.</p> <p>Identify landscape designations within 500m incl. AONB, National Parks, Natural Area, and Joint Character Areas. Area of Great Landscape Value (AGLV).</p> <p>Offsite Land use.</p>	<p>No</p>	<p>Landscape</p> <p>The works do not impact a Conservation Area. There are no other landscape designations within the scheme extent.</p> <p>The local National Character Area (NCA) is Northamptonshire Vales, characterised by low-lying clay vales and river valleys. Settlements are often visually dominant, as are major road networks traversing the area.</p> <p>The surrounding land uses to the works area include arable enclosed farmland, fringed with hedgerows and farm access tracks. There is a lack of overall woodland cover owing to the agricultural setting. The settlements of Great</p>

			<p>Doddington lies to the southeast of the scheme extents, whilst the village of Wilby lies to the north. Further from the extents is the settlement of Earls Barton and the large, dominating urban expanse of Wellingborough town centre and suburbs.</p> <p>Works involve technical (topographical) surveys only restricted to the highway estate. No new landscape features will be introduced as part of the works. Surrounding land use will not change as a result of these works.</p> <p>Vegetation clearance has been proposed as a part of the survey works in order to facilitate access. This will likely consist of ground vegetation / bramble briar strimming and tree branch trimming where required. As such, this will affect overall proportion of ground vegetation / scrub cover on the highway verges, however, this will be selective and will not involve wholesale clearance. <u>Trees will be retained and will not be removed without prior consent of the overseeing organisation.</u> Ground vegetation cutting will be to temporary effect only (natural regeneration will occur) and will not significantly reduce integrity or provision of roadside screening.</p> <p>Visual</p> <p>There are no residential receptors with an immediate view of the carriageway. Works will be undertaken during the daytime; no task lighting is required.</p> <p>Strimming of vegetation will remove provision of vegetation on the verges, however natural regeneration will occur, and existing scrub is in poor condition. Any vegetation cutting to facilitate access to the verge will be minor and will not significantly detract from the baseline greenspace provision along the road corridor – vegetation will not be permanently removed and will re-establish. <u>No permanent tree or hedge removal is permitted.</u></p> <p>The scheme will not result in permanent negative changes to the visual experience of the proposed location.</p> <p>No significant impact is expected, no further assessment is required.</p>
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<p>Nature Conservation</p>	<p>Potential for impact on recorded or unrecorded protected species.</p> <p>Potential for impact on designated sites and sites with ecological value.</p>	<p>No</p>	<p>Designated sites</p> <p>There are designated sites for nature conservation within 1km of the works extent</p> <p>The Upper Nene Valley Gravel Pits SPA/Ramsar site falls within 2km of the scheme (1.15km at closest point); however, due to the distance from works, nature of works and lack of impact to qualifying features (overwintering birds), an Annex C/Appropriate Assessment was not deemed necessary.</p> <p>Soft estate</p> <p>The highway soft verges consist of mostly linear, continuous flanks of broadleaved plantation woodland, fringed with scattered hawthorn and blackthorn scrub, grading into bramble briar. To the rear of the soft estate are unmanaged hedgerows. Semi-improved open grassland swards with species-poor tall ruderal cover were also noted, whilst narrow strips of maintained grass border filter drain media at the edge of the carriageway.</p> <p>Suitability for protected and notable species</p> <p>Historic species records available on NBN Gateway and EnvIS were queried within a 1km radius of the proposed survey work extents. The soft estate was appraised for its suitability to support species of interest during a site walkover on 10/07/2019; full details available in the Ecological Report (HE569243-KIER-EGN-A45_GT_DODDINGTON-RP-LE-02_ECOLOGY_SITE_VISIT_REPORT). A synopsis is provided below:</p> <ul style="list-style-type: none"> • <i>Badger</i> <p>There are records within 1km, including sett records (1997 – 2017). A badger roadkill carcass was noted during site walkover at SP 87474 65213.</p> <p>Well-worn pathways were noted through woodland on the verges, suggesting animals are actively using the area. The work does not involve excavation and no setts were found within 30m of proposed scheme extent. See required actions.</p> <ul style="list-style-type: none"> • <i>Bats</i> <p>No mature trees will be removed under the survey scope. Structures will also not be impacted. Bat activity in the local vicinity would likely be limited to foraging and commuting along the wooded</p>
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			<p>belts of the verges. Due to daytime scheduling of the survey works, no disturbance is anticipated. If the timing of surveys changes to night-time, habitual flight paths may be disturbed; see required actions. Works scheduled for day time.</p> <ul style="list-style-type: none"> • <i>Birds</i> <p>34 species have been recorded within 1km, including common garden and farmland birds. Trees suitable for nesting will not be removed as part of the survey requirements; tree cover must be retained where possible.</p> <p>The current timing of works does not coincide with the breeding bird season (March – August inclusive), however, should the timing of works change the risk to this group must be mitigated. See required actions.</p> <ul style="list-style-type: none"> • <i>Widespread reptiles</i> <p>There are historical records within 1km (2006). No observations of reptiles were made during site survey. The habitat is sub-optimal for basking opportunities, whilst some potential hibernating habitat (log and rubble piles) was noted within the verges, however these will not be disturbed by the survey works.</p> <ul style="list-style-type: none"> • <i>Water vole, otter, white clawed crayfish, dormice, great crested newts</i> <p>No records present within 1km and no suitable habitat on site. No impacts anticipated.</p> <ul style="list-style-type: none"> • <i>Other mammals</i> <p>Rabbit diggings were noted, along with other mammal holes. Feeding remains of a fox was noted at SP 87117 64737. No impacts anticipated due to the scope of works and highly transient nature of any mammals likely to be encountered in the local landscape.</p> <p>Biosecurity</p> <p><i>Invasive species</i></p> <p>There are no records of invasive plant species within 1km of the proposed scheme extent. No invasive species were noted during site surveys.</p> <p><i>Pests and diseases</i></p> <p>Ash dieback has been noted within 10km (Forestry Commission, 2017). Ash trees are present in the verges. Best practice for biosecurity to be adhered to; see required actions.</p>
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			See Required Actions. No significant impact is expected, no further assessment required.
Geology and Soils	Identify soil resources that could be impacted by the project incl. designated sites, RIGS (Regionally important geological sites), organic matter, erosion, compaction and sealing.	No	<p>Geology The scheme will not impact upon any Regionally Important Geological Sites (RIGS).</p> <p>Soils The natural soil resources throughout the area are freely draining, lime-rich loamy soils.</p> <p>The works do not require any disturbance of soil and are restricted to topographical surveys only.</p> <p>There are no historic landfills within 1km of the survey work extents.</p> <p>No significant impacts to soil and geological resources are therefore expected.</p> <p>No significant impact is expected, no further assessment required.</p>
Materials	<p>To include both machinery and material use including disposal (waste).</p> <p>Consider asbestos, and resource efficiency.</p>	No	<p>Any vegetation trimmed to facilitate access to the verges, including potential for branch trimming, to be left as arisings on site in discrete habitat piles within planting plots situated away from the carriageway edge, boundary fence, hedgerow, ditch and any other street furniture and within areas inaccessible to members of the general public.</p> <p>No soils or items likely to contain asbestos (ACMs) will be disturbed under the survey scope.</p> <p>No other wastes than green waste anticipated. Waste management is the responsibility of the Principal Contractor; See required actions.</p> <p>See required actions. No significant impact is expected, no further assessment required.</p>
Noise & Vibration	<p>Noise and vibration disturbance on local community.</p> <p>Are there any noise sensitive receptors in close vicinity?</p> <p>Will human health be affected?</p>	No	<p>Noise Important Areas There are no Noise Important Areas within proximity to the scheme.</p> <p>Baseline Receptors to 200m are detailed within Air Quality. Receptors most likely to experience any impacts of noise due to the survey works are those located at:</p> <ul style="list-style-type: none"> • Great Doddington <p>Survey works are currently scheduled for daytime working. Baseline noise levels on the</p>

			<p>A45 during daytime hours (07:00 - 23:00) are 75.0+ in the inner carriageway, reducing to under towards the closest residences in Great Doddington (DEFRA, 2012). Works are expected to produce temporary impacts only associated with equipment and vehicle noise, restricted to working hours only.</p> <p>Survey works will produce minimal noise and will be largely undertaken by hand; noise will be associated with any vegetation cutting required for access (e.g. strimming). Noise associated with equipment to be minimised as far as practicable; See required actions.</p> <p>There will be no long-term / permanent impacts to local baseline noise levels.</p> <p>See required actions. No significant impact is expected, no further assessment required.</p>
People and Communities	<p>Will the work impact on physical, mental and social wellbeing?</p> <p>Are there sensitive land uses e.g. schools? Are the works in previously undeveloped land (greenfield)?</p> <p>Will the works result in social changes and/or result in changes to population and human health?</p> <p>Are there plans for any future land use on or near the works?</p> <p>Impacts to vehicle travellers and pedestrians through journey time, route alterations, amenity value and PRowS.</p>	No	<p>Road accessibility <i>General</i></p> <p>Traffic Management requirements to facilitate the survey works will involve lane closure only. Due to daytime working, this has the potential for delays and disruption, however this will be minimal as compared to diversions or road closures.</p> <p>Appropriate Traffic Management procedures are to be followed; see required actions.</p> <p>There will be no permanent changes to routes or journey times as a result of the survey works.</p> <p><i>Local travel</i></p> <p>There are residential dwellings within proximity to the scheme extent. Any requirements for Traffic Management may result in some delays to local travellers accessing/egressing from Junction 11, however this impact is reduced due to lane closures rather than full closures.</p> <p><i>Access</i></p> <p>There are no properties with direct access/egress to the A45 affected by lane closures to require dedicated Traffic Management considerations.</p> <p>Non-motorised users (NMUs) <i>Public Rights of Way (PRow)</i></p> <p>There are Public Rights of Way (PRow) within proximity to the works; 1no. crossing via overbridge (farm accommodation bridge). The</p>

			<p>overbridge will not be affected by surveys, no footpaths will require closure as part of the works.</p> <p><i>Pavements</i></p> <p>There are no dedicated footways to be affected by works, therefore no requirements for NMU provisions.</p> <p>Amenity value</p> <p>There will be no change in land use as a result of the works. Amenity value will not be affected.</p> <p>See Required Actions. No significant impact expected. No further assessment required.</p>
Road Drainage and the Water Environment	<p>Identify water courses and floodplains that could be impacted by the project incl. rivers, ditches, and ponds etc. that are linked to/within 10m of the proposed works area.</p> <p>Pollution to water resources/soil contamination, quality and quantity.</p> <p>Impact on designated sites via water supply.</p> <p>Are there any areas which are already subject to pollution?</p> <p>Will there be any impact to human health?</p>	No	<p>Water features</p> <p>Water features within 300m of works:</p> <ul style="list-style-type: none"> • <i>Primary (Main) rivers</i> None. • <i>Ordinary watercourses</i> None. • <i>Ditches and drains</i> There is one field drain/ditches present within the surrounding fields, 300m from the survey extents, which is unconnected to the scheme area. There were no ditches (wet/dry) noted during site walkover. • <i>Ponds and reservoirs</i> There are no ponds or waterbodies within 300m of the survey works. • <i>Highway drainage</i> There is roadside drainage present, consisting of filter drain, catchpits, and gullies in the central reservation. There will be no alteration to road drainage or discharge of water as a result of the works. <p>Flood Risk</p> <p>The survey extent is not located within a Flood Zone (Flood Zone 1 – Lowest probability).</p> <p>Survey works will not impact baseline flood risk or vulnerability at this site.</p> <p>Groundwater / Pollution</p> <p>The bedrock and superficial deposits at this location holds secondary aquifer features. The A45 and verges are not classed as having any groundwater pollution vulnerability, however to the north and south of the scheme extents there</p>

			<p>are localised, isolated areas of major (principal) aquifer with high to intermediate vulnerability to groundwater pollution.</p> <p>The works are not located within a Groundwater Source Protection Zone.</p> <p>Suitable pollution prevention measures must be in place to protect roadside drainage and ensure debris/arising from vegetation cutting do not end up in the highway drainage system and subsequent aquatic pollution risk is minimised; See required actions.</p> <p>See required actions. No significant impact is expected, no further assessment required.</p>
Climate	<p>What effects will the work have on climate (e.g. GHG) and how vulnerable is the project to climate change (e.g. predict change that the project will introduce in comparison to the baseline)?</p>	No	<p>Emissions produced by operational vehicles and equipment will be temporary and restricted to the work (construction) phase only. The works will not lead to net long-term emissions (operational phase) and therefore will not impact baseline climate vulnerability.</p> <p>Habitat complexity and connectivity will not be significantly impacted by any vegetation cutting proposals, and therefore the works are not anticipated to have any bearing on the ability of protected species to adapt to climate change.</p> <p>No significant impact is expected, no further assessment required.</p>

Required Actions	<p><i>This assessment is based on the scope as described in the Brief Project Description (Environmental Alert Form, Page 1). Any change to the scope which may constitute a new impact, or increase the significance of identified impacts, will render this Environmental Screening Assessment invalid and a re-assessment will be required. Should a re-assessment be required, please contact the Kier Environment Team.</i></p> <p>All below required actions must be integrated into the Principal Contractor's RAMS: these must be submitted for review and approved prior to works by the overseeing organisation.</p> <p><u>Kier Design Team to inform Principal Contractor of the following actions:</u></p> <p>Air Quality</p> <ul style="list-style-type: none"> • Odour and other emissions must be minimised using best practice methods, including minimal idling of vehicles on site. • Where possible, materials which minimise emissions, in accordance with the most recent British Standard, must be integrated into the scheme's design and followed up by the Principal Contractor.
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Nature Conservation

Trees and shrubs are not to be cleared or permanently removed – if required, the Contractor must gain prior consent from Highways England Asset Team.

General

- No parking allowed on soft estate at any time due to the potential impacts upon protected species or tree roots via compaction. The soft estate must not be used for refuelling, storage of materials or equipment.
- A site induction must be conducted for all onsite workers. This will detail those protected species that may be found on site (badgers, birds) and the protocols which are to be followed if protected species be encountered.
- Report any sightings of protected / invasive species to Highways England Environment Team to update their records.
- Branches and ground vegetation may be hand cut where access is required for personnel or equipment only.
- No tree or shrub over 150mm Diameter Breast Height (DBH = 1.5m above ground level) removal is permitted. Trees or shrubs must not be felled and removed unless by specific instruction from Highways England.
- Best practice biosecurity measures in order to reduce ash dieback spread to be adhered to on site, as per Forestry Commission guidelines.

Species-specific actions**Nesting birds**

- Localised woody vegetation branch trimming works is currently scheduled to take place outside of the main bird nesting season in September. However, some species can breed all year round. Contractors should remain vigilant for active nests during clearance of trees and scrub. If any are observed within the works area, the Overseeing Organisation should be contacted.
- Where possible any tree/shrub clearance required should be undertaken outside of the bird nesting season. Bird nesting season is from March to August inclusive.
- If vegetation clearance works scheduled coincide with the nesting season, an ecologist must check the impacted vegetation for active bird nests prior to removal and this must be undertaken within 24 hours prior of the vegetation clearance.
- If an active bird's nest is found on site during the works, works in the area must cease and a 5m buffer zone around the nest must be applied to prevent disturbance. The exclusion zone must be maintained until any young have fledged and left the area; overseen by an appointed ECoW. Should this occur the overseeing organisation's environment team must be contacted for advice.
- Within areas of dense bramble briar and scrub, where visibility is limited, it is recommended that the ecologist continues to check for nests as vegetation is removed and accessibility improves during cutting.

Badger

- Contractors should be aware of the potential for badger to be present within the verge side woodland through a Toolbox Talk. Works should temporarily stop if badger is observed and animals be allowed to move away freely.
- If a badger sett is found prior to, or during, vegetation clearance, works should stop immediately, and Highways England Environmental Team consulted. A 20m exclusion zone in which no activity can take place should be clearly marked out.
- If applicable, night time task lighting should not be directed onto adjacent habitats. No vehicles should encroach onto the soft estate or machinery/equipment be stored there.

Noise and Vibration

- All site operatives must adhere to the British Standard 5228 Parts I/II - *Noise in relation to construction*.
- Best practical means to minimise the likelihood of nuisance caused by the scheme, and reduce the impact of noise and vibration, should be enacted wherever safety considerations permit.

People and Communities / Effects on All Travellers

- Appropriate TTRO and Traffic Management procedures are to be followed.
- Signing prior to works should inform road users of possible delays on the route across specified dates. Signing during works should be adequate to inform users of temporary alterations to: speed limits, diversion routes and/or road layout. This should include any necessary details to inform members of the public as to the reasons for restrictions.
- Communication must be upheld with Local Authorities throughout to ensure smooth delivery of the scheme, including necessary diversions.

Road Drainage and the Water Environment

- All works must be carried out in accordance with site-specific Risk Assessments, CIRIA documents and Environment Agency Pollution Prevention Guidelines (PPGs), in particular *PPG1 General*.
- Legal compliance in relation to pollutants through the aquatic environment must be strictly adhered to.
- The contractors' site-specific RAMS must be reviewed and approved by the overseeing organisations' Environment Team to ensure the risks to surface and groundwater pollution and the wider drainage environment have been adequately considered prior to works commencing.
- The contractor must ensure that they have a robust Pollution Response Plan in place before works start.
- Adequately sized spill kits must be made available on site at all times in the instance oil or fuel are spilled near watercourses.
- Any pollution incident must be contained and cleaned up on the carriageway and reported.
- No storage of oils or chemicals allowed within 10m of an exposed drain or watercourse.

Materials

- Any vegetation arisings (i.e. vegetation strimmed to facilitate access to the verges, including potential for branch trimming) to be removed from site.
- It is the responsibility of the waste producer to carry out testing of waste to determine appropriate waste streams and legal disposal of any waste products generated.
- It is the responsibility of the waste producer to comply with any relevant legislation and duty of care with regards to waste.
- Where legal, practicable and safe to do so, materials must be considered for recycling or reusing on site to reduce waste going to landfill. This includes vegetation; Principal Contractor to recycle non-hazardous vegetation (green waste) within a legally compliant waste stream where practical.
- Any Highways England (HE) delivery contractors will be required to comply with HE waste reporting requirements.

Required Actions	Time Required	Target Response time/ date
N/A		

Requirement for additional documentation			Reason
Is this deemed to be a "Project" and require an Appropriate Assessment Screening Matrix? As defined by DMRB Volume 11, Section 4, Chapter 2, Part 1 HD 44/09	Yes	No	The works are a technical survey only and are not deemed to be a 'Project'. The survey works are located within 2km, or 30km where bats are a qualifying interest, of a European Designated Site, however an AASM was not deemed necessary given distance from works and lack of direct/indirect impact.
Is a Record of Determination required?	Yes	No	The survey works are not an improvement scheme and are not deemed to be either an Annex II relevant project or Annex II projects likely to cause significant effects under Annex III.
Does the Principal Contractor require a Construction Environmental Management Plan?	Yes	No	The survey works are not considered to have the potential for environmental impacts during construction. Responsibility of the Principal Contractor.
Will the Principal Contractor require a Material Resources Assessment?	Yes	No	The survey value is not estimated to be above £300K and therefore requires an assessment of material resources in accordance with DMRB Vol 11 IAN153/11. Responsibility of the Principal Contractor.
Is an Environmental Permit or a Land Drainage Consent & Water Management Plan required?	Yes	No	The survey works are not considered to have the potential for environmental impacts on a main watercourse (i.e. is not within 16 metres of a tidal watercourse or 10 metres of a non-tidal watercourse). Responsibility of the Principal Contractor.
Is an Options Report required?	Yes	No	The survey works are not considered to have the potential for significant environmental impacts.

Summary of Assessment findings
(to be completed by the Environment Team)

Air Quality

- No Air Quality Management Areas (AQMAs) within 1km.
- No residential receptors within proximity; sole receptor is Wellingborough Rugby Club, only likely to be temporarily affected by emissions associated with localised vegetation clearance works and Traffic Management.
- Best practice measures to be followed to maintain air quality.
- No further assessment required.

Cultural Heritage

- No required actions.
- No further assessment required.

Nature Conservation

- Upper Nene Valley Pits SPA/Ramsar 1.2km from works; No impact on designated sites expected due to lack of connectivity and impact on qualifying features.
- Records of badger and birds within 1km. Badger roadkill and mammal runs observed during site visit.
- No evidence of invasive species identified during site visit.
- Works are currently scheduled outside of bird nesting season. If vegetation clearance works are to be undertaken during nesting season (March – August inclusive), a competent ecologist will be required under watching brief to ensure no active bird nests are destroyed or animals are harmed.
- No further assessment required.

Landscape and Visual

- No required actions.
- No further assessment required.

Noise and Vibration

- No Noise Important Areas within scheme extent. Survey works do not involve noisy operations; any noise associated with localised vegetation clearance will be temporary only. Daytime working reduces nuisance to any local receptors.
- Best practice working methods to reduce noise to be adhered to on site.
- No further assessment required.

People and Communities / Effects on All Travellers

- Traffic Management (lane closure) to be in place; communications with Local Authority to be upheld to ensure smooth delivery of scheme and minimisation of disruption.
- No Public Rights of Way or footways will be affected by the scheme; no Pedestrian Traffic Management required.
- No further assessment required.

Road Drainage and the Water Environment

- Survey works will occur in a Flood Zone 1 area [Low risk].
- There are no Main Rivers within the works extent. No Flood Activity Permit is required.
- Roadside drainage (filter drains) present. Protection measures to ensure water quality is maintained to be included in scheme specification. Best practice to be upheld throughout works; the contractor must ensure that they have a robust Pollution Response Plan in place before works start.
- No further assessment required.

Materials

- Vegetation arisings to be removed from site. Waste disposal is the duty of the Principal Contractor.
- No further assessment required.

Geology and Soils

- No further assessment required.
- No required actions.

Climate

- No further assessment required.
- No required actions.

Version	Author	Date	Checked and Authorised for Issue	Date