Environmental Impact Assessment (EIA) Report

LT384 Tealing to Westfield Overhead Line (OHL) 400 kV Upgrade

November 2024

VOLUME 2: CHAPTER 16 – SUMMARY OF EFFECTS

Figures (Volume 3 of this EIA Report)

There are no figures associated with this chapter.

Appendices (Volume 4 of this EIA Report)

There are no Appendices associated with this chapter.

16. SUMMARY OF EFFECTS

16.1 Introduction

16.1.1 The findings of the EIA for the Proposed Development are presented within the technical assessments contained within Volume 2 of this EIA Report.

16.1.2 The significance of these effects has been assessed using criteria defined in the topic chapters. Unless stated otherwise in the technical assessments, the significance of effects are adverse and have been categorised as major, moderate, minor or negligible, with effects assessed as being of 'major' or 'moderate' considered to be significant effects in the context of the EIA Regulations.

16.1.3 Mitigation measures have been identified to prevent, reduce or remedy any potentially significant adverse environmental effects identified where practicable, beyond that already taken into account as normal good practice (i.e., embedded mitigation), such as the Construction Environmental Management Document (CEMD). Such measures will be implemented during detailed design, construction and/or operation of the Proposed Development. Each technical chapter of this EIA Report details the measures recommended to mitigate any identified significant effect, and a summary of the recommended mitigation measures is provided in Chapter 17 (Volume 2). Any remaining effects following implementation of available mitigation measures are known as 'residual effects'.

16.1.4 The purpose of this chapter is to provide a summary of the environmental effects identified within Volume 2 of this EIA Report, which is provided in Table 16-1.

16.1.5 Following implementation of available mitigation measures, no likely significant residual effects have been identified for the Proposed Development.

Table 16-1 Residual Effects and Significance

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Landscape Character and Visual Impact (Chapter 7)				
Megginch Castle GDL	Changes to landscape character arising from construction activities.	Negligible.	None.	Negligible (Not significant).
Dipslope Farmland LCT and Lowland Hill Ranges LCT	Changes to landscape character arising from construction activities associated with Tower 155 and Tower 156.	Negligible.	None.	Negligible (Not significant).
Firth Lowlands LCT	Changes to landscape character arising from construction activities associated with Tower 129 and Tower 132.	Minor adverse.	None.	Minor (Not significant).
Visual receptors near Tower 155 and Tower 156	Changes to visual amenity arising from construction activities.	Minor adverse.	None.	Minor (Not significant).
Visual receptors near Tower 129 and Tower 132	Changes to visual amenity arising from construction activities.	Minor adverse.	None.	Minor (Not significant).
Megginch Castle GDL	Tree removals, selective crown reduction of broadleaves and conifers, localised pruning.	Negligible.	None.	Negligible (Not significant).
Dipslope Farmland LCT and Lowland Hill Ranges LCT	Changes to landscape character arising from increase in height of Tower 155 and Tower 156.	Negligible.	None.	Negligible (Not significant).
Firth Lowlands LCT	Changes to landscape character arising from increase in height of Tower 129 or Tower 132.	Negligible.	None.	Negligible (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Visual receptors near Tower 155 and Tower 156	Changes to visual amenity arising from increase in height of Tower 155 and Tower 156.	Negligible.	None.	Negligible (Not significant).
Visual receptors near Tower 129 and Tower 132	Changes to visual amenity arising from increase in height of Tower 129 or Tower 132.	Negligible.	None.	Negligible (Not significant).
Ecology (Chapter 8)				
River Tay SAC and Firth of Tay and Eden Estuary SAC	Mainly, negligible pollution risk.	Negligible.	None required, embedded pollution controls sufficient.	Negligible (Not significant).
Inner Tay Estuary SSSI / Inner Tay Estuary LNR / Tay Reedbeds RSPB Reserve	Mainly, negligible pollution risk.	Negligible.	None required, embedded pollution controls sufficient.	Negligible (Not significant).
Lochmill Loch SSSI	Temporary habitat loss associated with construction of a new temporary stone road.	Negligible.	Track constructed southwards where possible, not within SSSI boundary without NatureScot authorisation.	Negligible (Not significant).
	Pollution of tributaries which feed into Lochmill Loch.	Negligible.	Embedded design mitigation sufficient – clearance or works avoided within 10 m of springs/ streams feeding the SSSI.	Negligible (Not significant).
LEP woodland on AWI	Permanent habitat loss.	Permanent adverse effect of Local significance.	BNG enhancement measures as prescribed in the BNG Report.	Minor adverse (Not significant).
	Damage to ground flora/tree roots.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant).
	Pollution.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant).
Woodland (Excluding Other Coniferous Woodland and LEP Woodland) and Scattered Trees	Permanent loss of Scots pine dominated coniferous plantation.	Permanent adverse effect of Site significance.	BNG enhancement measures as prescribed in the BNG Report.	Permanent adverse effect of Site significance (Not significant).
	Permanent loss of LMDW.	Negligible.	BNG enhancement measures as prescribed in the BNG Report.	Negligible (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	Permanent loss of Wet woodland.	Permanent adverse effect of Site significance.	BNG enhancement measures as prescribed in the BNG Report.	Permanent adverse effect of Site significance (Not significant).
	Permanent loss of other woodland and scattered trees.	Negligible.	BNG enhancement measures as prescribed in the BNG Report.	Negligible (Not significant).
	Damage to ground flora/ tree roots.	Temporary adverse effect of Site significance.	None required, embedded mitigation sufficient.	Temporary adverse effect of Site significance (Not significant).
Other SBL Priority Habitats, Annex I Habitats and GWDTE	Temporary habitat loss.	Negligible.	BNG enhancement measures as prescribed in the BNG Report.	Negligible (Not significant).
	Pollution risk.	Negligible.	None required, embedded pollution controls sufficient.	Negligible (Not significant).
Bats	Loss of foraging/ commuting habitat.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant).
	Loss of roosting habitat.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant).
	Disturbance of roosting/ foraging/ commuting bats.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant).
Otter	Destruction of one otter layup.	No effect.	Oak tree retained unless unavoidable.	No effect (Not significant).
	Disturbance of resting otter (excluding OL01).	Negligible.	Maintain a 30 m buffer around otter refuges where possible and obtain a derogation licence where not possible.	Negligible (Not significant).
	Disturbance of resting otter using OL01.	No effect.	Obtain a derogation licence to permit works liable to cause disturbance within 30 m of OL01.	No effect (Not significant).
	Disturbance of commuting/foraging otter.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	Loss of commuting/ foraging habitat.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant).
	Alteration of prey availability through pollution.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant).
	Injury/mortality to otter.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant).
Beaver	Loss of foraging habitat.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant).
	Damage to burrows and dams.	Temporary adverse effect of Site significance.	Plan works to avoid damage to dams and burrows. If this is not possible, obtain a derogation licence.	Negligible (Not significant).
	Barrier to movement.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant).
	Injury/mortality to beaver.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant).
Badger	Habitat loss (temporary or permanent).	Negligible.	BNG enhancement measures as prescribed in the BNG Report (Appendix 8.7 (Volume 4)).	Negligible (Not significant).
	Barriers to movement/ habitat fragmentation.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant).
	Temporary closure and permanent loss of badger setts.	Temporary adverse effect of Site significance.	Plan works to avoid damage to badger setts as much as possible. Where this is not possible, obtain a derogation licence.	Negligible (Not significant).
	Disturbance of resting badger.	Negligible.	Maintain a 30 m buffer from badger setts where possible, obtain a derogation licence where not possible.	Negligible (Not significant).
	Injury/mortality to badger.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant).
Pine marten	Permanent habitat loss.	Negligible.	BNG enhancement measures as prescribed in the BNG Report (Appendix 8.7 (Volume 4)).	Negligible (Not significant).
	Habitat fragmentation.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	Permanent loss of two den sites.	Negligible.	Avoid pine marten dens where possible and obtain derogation licence where not possible.	Negligible (Not significant).
	Disturbance of resting pine marten.	Negligible.	Maintain a 30 m buffer from dens where possible and obtain derogation licence if not possible.	Negligible (Not significant).
	Injury/mortality to pine marten.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant).
Red squirrel	Permanent habitat loss.	Negligible	BNG enhancement measures as prescribed in the BNG Report (Appendix 8.7 (Volume 4)).	Negligible (Not significant).
	Loss of dreys.	Negligible	Avoid red squirrel dreys if identified during pre-construction surveys where possible and obtain derogation licence where not possible.	Negligible (Not significant).
	Disturbance of red squirrel.	Negligible.	Maintain an appropriate buffer around red squirrel dreys where possible and obtain a derogation licence where not possible.	Negligible (Not significant).
	Barrier to movement.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant).
Great crested newt	Temporary habitat loss.	Negligible.	Reduce the extent of habitat loss near TW07 where great crested newt are present.	Negligible (Not significant).
	Injury or mortality of great crested newt.	Permanent adverse effect of Local significance.	Obtain a derogation licence and implement associated mitigation (including timing of works and pre-works checks).	No effect (Not significant).
	Habitat fragmentation.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant).
	Pollution risk.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant).
Atlantic salmon	Barriers to migration.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant).
	Loss of spawning habitat.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant).
	Aquatic pollution.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	Injury or mortality of Atlantic salmon.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant).
Other fish species	Barriers to migration.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant).
	Loss of spawning habitat.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant).
	Aquatic pollution.	No effect.	None required, embedded mitigation sufficient.	No effect (Not significant).
	Injury or mortality of Atlantic salmon.	Negligible.	None required, embedded mitigation sufficient.	Negligible (Not significant).
Ornithology (Chapter 9)				
European sites and Ramsar sites	Integrity of sites.	Negligible.	None.	Negligible (Not significant).
Wintering birds	Disturbance during construction.	Negligible.	None.	Negligible (Not significant).
Forestry (Chapter 10)				
Dronley Wood	Extended management felling of trees beyond the wayleave.	Minor adverse.	Woodland edge management in situ and commitment to off-site compensatory planting.	Minor (Not significant).
Murie Wood/Broadlie Burn	Extended management felling of trees beyond the wayleave.	Minor adverse.	Woodland edge management in situ and commitment to off-site compensatory planting.	Minor(Not significant).
Pitmedden Wood	Extended management felling of trees beyond the wayleave.	Minor adverse.	Woodland edge management in situ and commitment to off-site compensatory planting.	Minor (Not significant).
Existing forestry tracks	Ground reprofiling / upgrades to tracks.	Minor beneficial / Negligible	None.	Minor beneficial / Negligible (Not significant).
Cultural Heritage (Chapter 11)				

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Megginch Garden and Designed Landscape (GDL00278)	Potential loss of trees / crown reduction and ground disturbance associated with proposed upgrades to access tracks and the installation of temporary track panels.	Minor adverse.	Archaeological monitoring to be undertaken during construction and ground works (i.e., stripping for access tracks, bell-mouths, and tower foundation upgrades) in areas where archaeological remains have been recorded. An Archaeological Strategy to be agreed pre-construction with the relevant Local Planning Authority Archaeological Advisor and approved via a WSI. Expected that day-to day works on site will be under the supervision of an Archaeological Clerk of Works. Periodic site monitoring visits from Local Planning Authority Archaeological Advisor likely during construction. To be agreed as part of the WSI.	Minor adverse (Not significant).
			Track upgrade to be restricted in width to avoid removal of historic landscape features such as dry-stone walls, removal of trees, and large scale changes to aspects such as current access track character. An Archaeological Strategy to be agreed pre-construction with HES and the relevant Local Planning Authority Archaeological Advisor and approved via a WSI. Expected that day-to day works on site will be under the supervision of an Archaeological Clerk of Works. Periodic site monitoring visits from HES and Local Planning Authority Archaeological Advisor likely during construction. To be agreed as part of the WSI.	

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Wynton Crop Mark Site (NO33NE0033)	Ground disturbance associated with upgrades to the foundations of Tower 177.	Minor adverse.	Archaeological monitoring to be undertaken during construction and ground works (i.e., stripping for access tracks, bell-mouths, and Tower foundation upgrades) in areas where archaeological remains have been recorded. An Archaeological Strategy to be agreed pre-construction with the relevant Local Planning Authority Archaeological Advisor and approved via a WS). Expected that day-to day works on site will be under the supervision of an Archaeological Clerk of Works. Periodic site monitoring visits from Local Planning Authority Archaeological Advisor likely during construction. To be agreed as part of the WSI.	Minor adverse (Not significant).
Wynton Crop Mark Site (NO33NE0034)	Ground disturbance associated with upgrades to the foundations of Tower 176.	Minor adverse.	As above.	Minor adverse (Not significant).
Dundee to Newtyle Railway between Auchterhouse and Pitpointie (NO33NW0057)	Ground disturbance associated with works to access track to Tower 172 adjacent to the former railway.	Negligible.	As above.	Negligible (Not significant).
Dronley Station and Section of Dundee to Newtyle Railway (NO33NW0051 and NO33NW0052)	Ground disturbance associated with an access track (trackway panels) to access Tower 166.	Negligible.	As above.	Negligible (Not significant).
Carmichael Cottages Cropmark Site and Archaeological Remains (MPK5125 and MPK19616)	Ground disturbance associated with upgrades to the foundations of Tower 144 and	Minor adverse.	As above.	Minor adverse (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	an associated access track (trackway panels) within the area of the cropmarks.			
Castle Huntley Holdings Cropmark Site (MPK7064)	Ground disturbance associated with upgrades to the foundations of Tower 144 and an associated access track (trackway panels) within the area of the cropmarks.	Minor adverse.	As above.	Minor adverse (Not significant).
South Inchmichael and East Inchmichael Cropmark Sites (MPK5171; MPK4650; and MKP4675)	Ground disturbance associated with foundation upgrades to Towers 118 and 119, and an associated access track required to access Towers 118 to 121.	Minor adverse.	As above.	Minor adverse (Not significant).
Inchcoonans Ring Ditch Cropmark Site (MPK4722)	Ground disturbance associated with foundation upgrades to Tower 112, and associated access track works required to access Tower 122 (trackway panels) partially within the area of the cropmark.	Minor adverse.	As above.	Minor adverse (Not significant).
Ardgaith Cropmark Sites (MPK4732; MPK6797)	Ground disturbance associated with foundation upgrade to Tower 106, and associated access track works required to access Tower 106 (mix of trackway panels and upgrade to existing road) partially within the area of the cropmarks.	Minor adverse.	As above.	Minor adverse (Not significant).
Gallowflat Cropmark Sites (MPK6792)	Ground disturbance associated with access tracks required to	Minor adverse.	As above.	Minor adverse (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	access Towers 99 and 100 (mix of trackway panels and upgrade to existing road) immediately adjacent to cropmarks.			
Priorland Ring Ditch Cropmark Site (MPK6807)	Ground disturbance associated with the construction of a new temporary access road to Towers 91-93 that is within the eastern limits of the cropmark.	Minor adverse.	As above.	Minor adverse (Not significant).
River Earn Pier (MPK15050)	Ground disturbance associated with an access track (trackway panels and upgrades to an existing road) to access Tower 85.	Negligible.	As above.	Negligible (Not significant).
Crop Mark Sites (NO33NE0023; NO33NE0025; MPK6204; MPK16899; 367900)	While the current design will not impact on these assets, the full extent of many of them is not well understood and there is the potential for elements to continue into the areas of disturbance if stripping is required for elements such as access tracks, bell mouths, or tower foundations.	Minor adverse.	Archaeological monitoring to be undertaken during construction and ground works (i.e. stripping for access tracks, bell-mouths, and Tower foundation upgrades) in areas in close proximity to previously recorded archaeological remains, or where the archaeological potential is considered to be higher due to aspects such as limited ground disturbance. An Archaeological Strategy to be agreed pre-construction with the relevant Local Planning Authority Archaeological Advisor and approved via a WSI. Expected that day-to day works on site will be under the supervision of an Archaeological Clerk of Works. Periodic site monitoring visits from Local Planning Authority Archaeological Advisor likely during construction. To be agreed as part of the WSI.	Minor adverse (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Traffic and Transport (Chapter 12)				
Emmock Road	Severance of communities.	Negligible.	Implementation of Construction Traffic Management Plan (CTMP) throughout construction.	Negligible (Not significant).
Tealing Road		Negligible.		Negligible (Not significant).
Bridgefoot		Negligible.		Negligible (Not significant).
U324 Jeanfield		Negligible.		Negligible (Not significant).
U333 Dronley		Negligible.		Negligible (Not significant).
Dronley Burn		Negligible.		Negligible (Not significant).
East Adamston		Negligible.		Negligible (Not significant).
B954		Negligible.		Negligible (Not significant).
A923 Muirhead		Negligible.		Negligible (Not significant).
A923 Piperdam		Negligible.		Negligible (Not significant).
Benvie Road		Negligible.		Negligible (Not significant).
Berryhill Road		Negligible.		Negligible (Not significant).
Main Street		Negligible.		Negligible (Not significant).
The Drive		Negligible.		Negligible (Not significant).
U143 Castle Huntly		Negligible.		Negligible (Not significant).
Moncur Road		Negligible.		Negligible (Not significant).
Inchture Station		Negligible.		Negligible (Not significant).
Horn Road		Negligible.		Negligible (Not significant).
Errol Station		Negligible.		Negligible (Not significant).
U155 Inchcoonans		Negligible.		Negligible (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
North Murie		Minor.		Negligible (Not significant).
U155 Glendoick		Negligible.		Negligible (Not significant).
Ross Road		Negligible.		Negligible (Not significant).
C484 St Madoes		Negligible.		Negligible (Not significant).
Cairnie Road		Negligible.		Negligible (Not significant).
Inchyra Road		Negligible.		Negligible (Not significant).
A912 Bridge of Earn		Negligible.		Negligible (Not significant).
A913		Negligible.		Negligible (Not significant).
Easter Rhynd Road		Minor.		Negligible (Not significant).
Ferryfield Road		Negligible.		Negligible (Not significant).
B936 Burnside		Negligible.		Negligible (Not significant).
U093 Lochmill Loch		Moderate.		Minor (Not Significant).
Emmock Road	Fear and intimidation on and by road users.	Negligible.	Implementation of CTMP throughout construction.	Negligible (Not significant).
Tealing Road		Negligible.		Negligible (Not significant).
Bridgefoot		Negligible.		Negligible (Not significant).
U324 Jeanfield		Negligible.		Negligible (Not significant).
U333 Dronley		Negligible.		Negligible (Not significant.)
Dronley Burn		Negligible.		Negligible (Not significant).
East Adamston		Negligible.		Negligible (Not significant).
B954		Negligible.		Negligible (Not significant).
A923 Muirhead		Negligible.		Negligible (Not significant).
A923 Piperdam		Negligible.		Negligible (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Benvie Road		Negligible.		Negligible (Not significant).
Berryhill Road		Negligible.		Negligible (Not significant).
Main Street		Negligible.		Negligible (Not significant).
The Drive		Negligible.		Negligible (Not significant).
U143 Castle Huntly		Negligible.		Negligible (Not significant).
Moncur Road		Negligible.		Negligible (Not significant).
Inchture Station		Negligible.		Negligible (Not significant).
Horn Road		Negligible.		Negligible (Not significant).
Errol Station		Negligible.		Negligible (Not significant).
U155 Inchcoonans		Negligible.		Negligible (Not significant).
North Murie		Negligible.		Negligible (Not significant).
U155 Glendoick		Negligible.		Negligible (Not significant).
Ross Road		Negligible.		Negligible (Not significant).
C484 St Madoes		Negligible.		Negligible (Not significant).
Cairnie Road		Negligible.		Negligible (Not significant).
Inchyra Road		Negligible.		Negligible (Not significant).
A912 Bridge of Earn		Negligible.		Negligible (Not significant).
A913		Negligible.		Negligible (Not significant).
Easter Rhynd Road		Negligible.		Negligible (Not significant).
Ferryfield Road		Negligible.		Negligible (Not significant).
B936 Burnside		Negligible.		Negligible (Not significant).
U093 Lochmill Loch		Negligible.		Negligible (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Emmock Road	Road user and pedestrian safety.	Negligible.	Implementation of CTMP throughout construction.	Negligible (Not significant).
Tealing Road		Negligible.		Negligible (Not significant).
Bridgefoot		Negligible.		Negligible (Not significant).
U324 Jeanfield		Negligible.		Negligible (Not significant).
U333 Dronley		Negligible.		Negligible (Not significant).
Dronley Burn		Negligible.		Negligible (Not significant).
East Adamston		Negligible.		Negligible (Not significant).
B954		Negligible.		Negligible (Not significant).
A923 Muirhead		Negligible.		Negligible (Not significant).
A923 Piperdam		Negligible.		Negligible (Not significant).
Benvie Road		Negligible.		Negligible (Not significant).
Berryhill Road		Negligible.		Negligible (Not significant).
Main Street		Negligible.		Negligible (Not significant).
The Drive		Negligible.		Negligible (Not significant).
U143 Castle Huntly		Negligible.		Negligible (Not significant).
Moncur Road		Negligible.		Negligible (Not significant).
Inchture Station		Negligible.		Negligible (Not significant).
Horn Road		Negligible.		Negligible (Not significant).
Errol Station		Negligible.		Negligible (Not significant).
U155 Inchcoonans		Negligible.		Negligible (Not significant).
North Murie		Negligible.		Negligible (Not significant).
U155 Glendoick		Negligible.		Negligible (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Ross Road		Negligible.		Negligible (Not significant).
C484 St Madoes		Negligible.		Negligible (Not significant).
Cairnie Road		Negligible.		Negligible (Not significant).
Inchyra Road		Negligible.		Negligible (Not significant).
A912 Bridge of Earn		Negligible.		Negligible (Not significant).
A913		Negligible.		Negligible (Not significant).
Easter Rhynd Road		Negligible.		Negligible (Not significant).
Ferryfield Road		Negligible.		Negligible (Not significant).
B936 Burnside		Negligible.		Negligible (Not significant).
U093 Lochmill Loch		Negligible.		Negligible (Not significant).
Emmock Road	Non-motorised user amenity.	Negligible.	Implementation of CTMP throughout construction.	Negligible (Not significant).
Tealing Road		Negligible.		Negligible (Not significant).
Bridgefoot		Negligible.		Negligible (Not significant).
U324 Jeanfield		Negligible.		Negligible (Not significant).
U333 Dronley		Negligible.		Negligible (Not significant).
Dronley Burn		Negligible.		Negligible (Not significant).
East Adamston		Negligible.		Negligible (Not significant).
B954		Negligible.		Negligible (Not significant).
A923 Muirhead		Negligible.		Negligible (Not significant).
A923 Piperdam		Negligible.		Negligible (Not significant).
Benvie Road		Negligible.		Negligible (Not significant).
Berryhill Road		Negligible.		Negligible (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Main Street		Negligible.		Negligible (Not significant).
The Drive		Negligible.		Negligible (Not significant).
U143 Castle Huntly		Negligible.		Negligible (Not significant).
Moncur Road		Negligible.		Negligible (Not significant).
Inchture Station		Negligible.		Negligible (Not significant).
Horn Road		Negligible.		Negligible (Not significant).
Errol Station		Negligible.		Negligible (Not significant).
U155 Inchcoonans		Negligible.		Negligible (Not significant).
North Murie		Minor.		Negligible (Not significant).
U155 Glendoick		Negligible.		Negligible (Not significant).
Ross Road		Negligible.		Negligible (Not significant).
C484 St Madoes		Negligible.		Negligible (Not significant).
Cairnie Road		Negligible.		Negligible (Not significant).
Inchyra Road		Negligible.		Negligible (Not significant).
A912 Bridge of Earn		Negligible.		Negligible (Not significant).
A913		Negligible.		Negligible (Not significant).
Easter Rhynd Road		Minor.		Negligible (Not significant).
Ferryfield Road		Negligible.		Negligible (Not significant).
B936 Burnside		Negligible.		Negligible (Not significant).
U093 Lochmill Loch		Moderate.		Minor (Not significant).
Emmock Road	Non-motorised user delay.	Negligible	Implementation of CTMP throughout construction.	Negligible (Not significant).
Tealing Road		Negligible.		Negligible (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Bridgefoot		Negligible.		Negligible (Not significant).
U324 Jeanfield		Negligible.		Negligible (Not significant).
U333 Dronley		Negligible.		Negligible (Not significant).
Dronley Burn		Negligible.		Negligible (Not significant).
East Adamston		Negligible.		Negligible (Not significant).
B954		Negligible.		Negligible (Not significant).
A923 Muirhead		Negligible		Negligible (Not significant).
A923 Piperdam		Negligible.		Negligible (Not significant).
Benvie Road		Negligible.		Negligible (Not significant).
Berryhill Road		Negligible.		Negligible (Not significant).
Main Street		Negligible.		Negligible (Not significant).
The Drive		Negligible.		Negligible (Not significant).
U143 Castle Huntly		Negligible.		Negligible (Not significant).
Moncur Road		Negligible.		Negligible (Not significant).
Inchture Station		Negligible.		Negligible (Not significant).
Horn Road		Negligible.		Negligible (Not significant).
Errol Station		Negligible.		Negligible (Not significant).
U155 Inchcoonans		Negligible.		Negligible (Not significant).
North Murie		Minor.		Negligible (Not significant).
U155 Glendoick		Negligible.		Negligible (Not significant).
Ross Road		Negligible.		Negligible (Not significant).
C484 St Madoes		Negligible.		Negligible (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Cairnie Road		Negligible.		Negligible (Not significant).
Inchyra Road		Negligible.		Negligible (Not significant).
A912 Bridge of Earn		Negligible.		Negligible (Not significant).
A913		Negligible.		Negligible (Not significant).
Easter Rhynd Road		Minor.		Negligible (Not significant).
Ferryfield Road		Negligible.		Negligible (Not significant).
B936 Burnside		Negligible.		Negligible (Not significant).
U093 Lochmill Loch		Moderate.		Minor (Not significant).
Emmock Road	Road vehicle driver and passenger delay.	Negligible.	Implementation of CTMP throughout construction.	Negligible (Not significant).
Tealing Road		Negligible.		Negligible (Not significant).
Bridgefoot		Negligible.		Negligible (Not significant).
U324 Jeanfield		Negligible.		Negligible (Not significant).
U333 Dronley		Negligible.		Negligible (Not significant).
Dronley Burn		Negligible.		Negligible (Not significant).
East Adamston		Negligible.		Negligible (Not significant).
B954		Negligible.		Negligible (Not significant).
A923 Muirhead		Negligible.		Negligible (Not significant).
A923 Piperdam		Negligible.		Negligible (Not significant).
Benvie Road		Negligible.		Negligible (Not significant).
Berryhill Road		Negligible.		Negligible (Not significant).
Main Street		Negligible.		Negligible (Not significant).
The Drive		Negligible.		Negligible (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
U143 Castle Huntly		Negligible.		Negligible (Not significant).
Moncur Road		Negligible.		Negligible (Not significant).
Inchture Station		Negligible.		Negligible (Not significant).
Horn Road		Negligible.		Negligible (Not significant).
Errol Station		Negligible.		Negligible (Not significant).
U155 Inchcoonans		Negligible.		Negligible (Not significant).
North Murie		Negligible.		Negligible (Not significant).
U155 Glendoick		Negligible.		Negligible (Not significant).
Ross Road		Negligible.		Negligible (Not significant).
C484 St Madoes		Negligible.		Negligible (Not significant).
Cairnie Road		Negligible.		Negligible (Not significant).
Inchyra Road		Negligible.		Negligible (Not significant).
A912 Bridge of Earn		Negligible.		Negligible (Not significant).
A913		Negligible.		Negligible (Not significant).
Easter Rhynd Road		Negligible.		Negligible (Not significant).
Ferryfield Road		Negligible.		Negligible (Not significant).
B936 Burnside		Negligible.		Negligible (Not significant).
U093 Lochmill Loch		Negligible.		Negligible (Not significant).
Hydrology, Hydrogeology and Geology (Chapter 13)				
Auchtermuchty WFD Groundwater body	Foundation Improvements – groundwater contamination.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	Foundation Improvements – change in groundwater flow direction and local flow patterns.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).
Glenfarg WFD Groundwater body	Foundation Improvements – groundwater contamination.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).
	Foundation Improvements – change in groundwater flow direction and local flow patterns.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).
Bridge of Earn WFD Groundwater body	Foundation Improvements – groundwater contamination.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).
	Foundation Improvements – change in groundwater flow direction and local flow patterns.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).
Starthearn Sand and Gravel WFD Groundwater body	Foundation Improvements – groundwater contamination.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).
	Foundation Improvements – change in groundwater flow direction and local flow patterns.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).
Perth WFD Groundwater body	Foundation Improvements – groundwater contamination.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).
	Foundation Improvements – change in groundwater flow direction and local flow patterns.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).
The Carse Coastal WFD Groundwater body	Foundation Improvements – groundwater contamination.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).
	Foundation Improvements – change in groundwater flow direction and local flow patterns.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Dundee WFD Groundwater body	Foundation Improvements – groundwater contamination.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).
	Foundation Improvements – change in groundwater flow direction and local flow patterns.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).
Sidlaw Hills WFD Groundwater body	Foundation Improvements – groundwater contamination.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).
	Foundation Improvements – change in groundwater flow direction and local flow patterns.	Minor.	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant).
Private Water Supplies	Foundation Improvements – groundwater contamination	Moderate.	Implementation of CEMP, standard mitigation and embedded mitigation. Testing and monitoring of water quality before during and after construction.	Minor (Not significant).
	Water Quality- Pollution	Moderate.	Implementation of CEMP, standard mitigation and embedded mitigation. Testing and monitoring of water quality before during and after construction.	Minor (Not significant).
	Water Quality- Sediment Run-off	Moderate.	Implementation of CEMP, standard mitigation and embedded mitigation. Testing and monitoring of water quality before during and after construction.	Minor (Not significant).
Trig to Tryne (TW1)	Water Quality – Sediment Laden Runoff.	Negligible.	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant).
	Water Quality – Spillage Risk	Negligible.	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant).

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Name and Shame (TW2)	Water Quality – Sediment Laden Runoff.	Negligible.	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant).
	Water Quality – Spillage Risk.	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Unnamed watercourse (TW3)	Water Quality – Sediment Laden Runoff.	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Water Quality – Spillage Risk.	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
Unnamed watercourse (TW4)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Unnamed watercourse (TW5)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation. Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation. Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Unnamed watercourse (TW6)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation. Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible		Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Netly Burn (TW7)	Water Quality – Sediment Laden Runoff	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Water Quality – Spillage Risk	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
River Earn (TW8)	Water Quality – Sediment Laden Runoff	Moderate	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Water Quality – Spillage Risk	Moderate	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Hydromorphology – foundation Improvements	Moderate	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
River Tay (TW9)	Water Quality – Sediment Laden Runoff	Moderate	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Water Quality – Spillage Risk	Moderate	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Hydromorphology – foundation Improvements	Moderate	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
Unnamed watercourses (TW10)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – foundation Improvements	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Unnamed watercourses (TW11)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Unnamed watercourses (TW12)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Broadlie Burn (TW13)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – foundation Improvements	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Unnamed watercourse (TW14)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – foundation Improvements	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Pow of Errol (TW15)	Water Quality – Sediment Laden Runoff	Moderate	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Water Quality – Spillage Risk	Moderate	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Hydromorphology – foundation Improvements	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Unnamed watercourse (TW16)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Grange Pow (TW17)	Water Quality – Sediment Laden Runoff	Moderate	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Water Quality – Spillage Risk	Moderate	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Hydromorphology – foundation Improvements	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Unnamed watercourse (TW18)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Unnamed watercourse (TW19, TW20, TW21)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – foundation Improvements	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Inchmatrine Pow (TW22)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Erskine Pow (TW23)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Unnamed watercourse (TW24, TW25, TW26, TW27)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – foundation Improvements	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Unnamed watercourse (TW28)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – foundation Improvements	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Huntly Burn (TW29)	Water Quality – Sediment Laden Runoff	Moderate	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Water Quality – Spillage Risk	Moderate	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
Unnamed watercourse (TW30, TW31, TW32)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – foundation Improvements	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Dron Burn (TW33)	Water Quality – Sediment Laden Runoff	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Water Quality – Spillage Risk	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
Unnamed watercourse (TW34)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – foundation Improvements	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Blacklaw Burn (TW35)	Water Quality – Sediment Laden Runoff	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Water Quality – Spillage Risk	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Hydromorphology – foundation Improvements	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Balruddery Burn (TW36)	Water Quality – Sediment Laden Runoff	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Water Quality – Spillage Risk	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
Piperdam Burn (TW38)	Water Quality – Sediment Laden Runoff	Moderate	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Water Quality – Spillage Risk	Moderate	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Hydromorphology – foundation Improvements	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
Lundie Burn (TW39, TW40)	Water Quality – Sediment Laden Runoff	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Water Quality – Spillage Risk	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Hydromorphology – foundation Improvements	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
Unnamed watercourses (TW37)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Dronley Burn (TW41)	Water Quality – Sediment Laden Runoff	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Water Quality – Spillage Risk	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
Unnamed watercourse (TW42)	Water Quality – Sediment Laden Runoff	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Water Quality – Spillage Risk	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
	Hydromorphology – foundation Improvements	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Fallaws Burn (TW43)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Unnamed watercourse (TW44)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – foundation Improvements	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Fithie Burn (TW45)	Water Quality – Sediment Laden Runoff	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	Water Quality – Spillage Risk	Minor	Implementation of CEMP, standard mitigation and embedded mitigation.	Minor (Not significant)
Unnamed watercourse (TW46)	Water Quality – Sediment Laden Runoff	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Water Quality – Spillage Risk	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
	Hydromorphology – foundation Improvements	Negligible	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)
Pitlowie GCR and SSSI	Potential adverse impact and/or damage to sensitive geological receptors (i.e., the GCR / SSSI sites located within the study area)	Very High	Implementation of CEMP, standard mitigation and embedded mitigation. Control of working areas and marking out of the designated sites will be employed to avoid disturbance to these areas from construction plant and activities.	Negligible (Not significant)
	An adverse effect on geological setting from pollution, fuel, oil, concrete or other hazardous substances (from construction plant and equipment).	Very High	Implementation of CEMP, standard mitigation and embedded mitigation. Control of working areas and marking out of the designated sites will be employed to avoid disturbance to these areas from construction plant and activities.	Negligible (Not significant)
Inchcoonans Clay Pit GCR and SSSI	Potential adverse impact and/or damage to sensitive geological receptors (i.e., the GCR / SSSI sites located within the study area)	Very High	Implementation of CEMP, standard mitigation and embedded mitigation. Control of working areas and marking out of the designated sites will be employed to avoid disturbance to these areas from construction plant and activities.	Negligible (Not significant)
	An adverse impact on geological setting from pollution, fuel, oil, concrete or other	Very High	Implementation of CEMP, standard mitigation and embedded mitigation.	Negligible (Not significant)

Topic / Receptor	Description of Impact	Effect Significance (Pre-Mitigation)	Additional Mitigation	Residual Effects and Significance (Post Mitigation)
	hazardous substances (from construction plant and equipment).		Control of working areas and marking out of the designated sites will be employed to avoid disturbance to these areas from construction plant and activities.	
Noise and Vibration (Chapter 14)				
Construction works	Noise impacts from construction works during the day and in the evenings, including at the weekends. Activities include felling, dismantling and removing the conductor, foundations and stringing the conductor.	Major adverse (significant)	A more detailed construction noise assessment with a CNMP, in accordance with the guidance and procedures outlined in BS 5228-1, will need to be conducted by the Principal Contractor and embedded in the CEMD.	Minor (Not significant)
	Vibration from foundation works at Tower 140.	Moderate adverse (significant)	The Principal Contractor should update this assessment when information is made available. BS 5228-2 guidance suggests that prior warning should be given to local residents for a vibration level of 1.0 mms^{-1}. At distances greater than 57 m and given the maximum conservative assumptions, the vibration level would no longer exceed 1.0 mms^{-1}, therefore any NSRs within this range should be given prior warning.	Minor (Not significant)
	Vibration due to traffic on access routes.	Minor	None.	Minor (Not significant).
Operation	Operational noise at all NSRs, excluding NSR 109.	Negligible	None.	Negligible (Not significant).
	Operational noise at NSR 109.	Minor	None.	Minor (Not significant).
	Internal noise in the nighttime.	Negligible	None.	Negligible (Not significant).