

Environmental, Health, Safety Management System, Section 2.3, Environmental Aspect and Impact Register

23rd August 2016

Document Control Information

Approvals / Authorisations

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Related Documents

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1. ENVIRONMENTAL ASSESSMENT

1.1 Rating Matrix

The Environmental Rating Matrix should have the following headings:

- **Activity**
- **Aspects**
- **Impacts**
- **Direct /Indirect**
- **Legal requirement**
- **Volume**
- **Magnitude**
- **Impact**
- **Level of significance Definitions**

The environmental activity, aspect and impact should be completed using the Register of Environmental Activities, Aspects and Impacts.

The HSEQ Manager and HSEQ Representatives should then review the Register of Environmental Legislation to see what legislation and regulation applies to each activity. Consideration should then be given as to how the relevant pieces of legislation will affect the overall level of significance for each aspect.

1.2 Assessment

Each activity then needs to be assessed by assigning a value to the following headings:

Volume	This is in relation to the actual amount the company uses. For example, petrol stored on site. If the amount is low then a lower score needs to be given. See 5.12 for scoring system.
Likelihood	This is where legal controls will have their greatest impact. For example, the amount of petrol on site may be very high but legal requirements on the storage of petrol may mean that the likelihood of it having an environmental impact is low. See 5.12 for scoring system.
Magnitude	This is the worst case scenario. If an aspect does get into the environment, what would be the size of the impact to the environment? For example, the amount of petrol stored on site may be low and the likelihood of an impact low but if it did leak into the environment the actual magnitude of the impact might be high.

1.3 Calculation

The scores for each activity and relating aspect should be allocated as follows:

- 1 = low
- 2 = average
- 3 = medium
- 4 = high
- 5 = very high

2. ENVIRONMENTAL ASPECT & IMPACT REGISTER

Date of Assessment: 22/4/2020

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
1	Normal	General site activities during fibre installation	Natura sites	Ecology (Flora/ fauna)	Impact of Natura sites – see www.npws.ie/protected-sites ; including Natural Heritage Areas (NHA), Special Areas of Conservation (SAC), Special protection Areas (SPAs), Wildfowl Sanctuaries, OSPAR sites, National Parks and Nature Reserves. Sites of Special Scientific Interest Contamination of aquatic habitats, wind blown dust on ecologically sensitive areas. Vegetation and habitat due to site clearance or layout.	Direct	3	2	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Avoidance of sensitive sites where possible, but as a minimum the highlighting of how to identify such site by Contractors control measures near sensitive areas and information and signage for workers. Use of existing site access where possible. Control of construction works to prevent contamination. No stockpiling of spoil. Reduction of the storage of oils or chemical in vicinity of aquatic habitats. Provision of emergency spill kits.
2	Normal	General site activities during fibre installation	Natura sites	Works sites are close to / in Natura sites	Potential risk that any pollution incident may affect the Natura sites. Damage to wild life flora and fauna.	Direct	3	2	1	6	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Review of potentially damaging activities. Control of access and egress. Awareness training and briefings. Undertake activities that could cause pollution well away from the immediate area. Provision of spillage kits and training in their use. Work with client to develop an Environmental Incident Control Plan.

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
3	Normal	General site activities during fibre installation		Emissions to Air: (Dust, odours, pollution)	Nuisance impacts of dust, smoke and fumes on local community. Localised significant impact during dry conditions. Dust/ smoke damage to vegetation, archaeological structures. Impact on local air quality.	Direct	2	2	1	4	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Damping down of surfaces during dry weather. Enclosure of stockpiles of loose materials. Monitoring dust levels. Select/substitute Materials / equipment which will reduce fumes. Sealed chemical storage areas. Turn off engines of vehicles and equipment when not in use.
4	Normal	General site activities during fibre installation		Archaeology and Heritage	Damage /interference to archaeological areas, ancient monuments conservation areas, listed buildings. Discovery of archaeological burials sites	Direct	2	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Avoidance of sensitive sites where possible. Use of existing site access and depots where possible. Client consultation with relevant archaeological groups. Client control measures near sensitive areas and information and signage for workers
5	Normal	General site activities during fibre installation	Tree Preservation	Trees may be affected by works	Potentially significant should trees become damaged.	Direct	2	2	1	4	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Area of trees to be identified and protected, consent to be obtained

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
												prior to any works which directly affect trees. Warning notices erected. Briefings conducted. Identification within specific method statements.
6	Normal	General site activities during fibre installation	Contaminated Land	Release / disturbance of leachate and or gas.	Possible impact should the release of gases occur during the works.	Direct	1	1	4	4	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Minimise the disturbance of the railway ballast and level crossings. Client to undertake risk assessment to establish risk posed by the presence of landfill gas.
7	Normal	General site activities during fibre installation	Contamination – COSHH products - Spillage	Discharge to Controlled Water	Potential risk that any pollution incident may contaminate water courses and or ground waters.	Direct	2	2	4	1 6	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Undertake activities that could cause pollution well away from the drains or water courses. Environmental awareness and the provision/ training in the use of spillage kits.
8	Normal	General site activities during fibre installation	Disruption	Community	Disruption to community, business, public services, private landowners and/or development restriction areas. Significant impact if there is a long period disruption. Roads/ footpaths temporary closure. Nuisance from the works to local community.	Direct	2	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Client consultation with affected community. Alternative accesses. Ensure client community liaison prior and during the works phase. Potential public services to be relocated.

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
												Client information provided to the local community prior to the commencement of works
9	Normal	General site activities during fibre installation	Noise	Personnel	Disruption / disturbance to neighbours from construction worksites, compounds and distribution sites.	Direct	2	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Ensure noisy activities are conducted during daytime if practicable. Briefings to site personnel. To adopt a quiet working ethic at night and to be considerate to the public always
10	Normal	General site activities during fibre installation	Intrusion	Light	Lights used at the works sites and site compounds/depots.	Direct	1	1	1	1	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Work lights to be directed away from residential properties if practicable. Lights to be switched off when not required
11	Normal	Vehicle use		Transport	Disruption from vehicle movements. Silt and oil/ spilled materials being deposited on the roads and subsequently being washed into the adjacent watercourses.	Direct	2	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Client traffic management plan implemented. Consultation with local highway authority if appropriate Vehicle maintenance.

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
												Materials to be supplied bagged where possible. Vehicles carrying loose material such as aggregates shall be covered. SIRO RASC, Vehicle/Driving Policies, & GPS devices
12	Normal	Business Travel, Vehicle use (Inc Motorcycles) Taxi use		Transport	Add to amount of CO2 produced through generation of energy. Increased transport and congestion problems. Emissions to the atmosphere (CO2).	Direct	2	3	2	1 2	M	Minimise use where possible using public transport or maximising vehicle occupancy less vehicle use. Taxis for short journeys when interfacing with public transport only Use of telephone conferencing where available. SIRO RASC, Vehicle/Driving Policies, & GPS devices
13	Normal	Business Travel Public Transport (bus, train etc)		Transport	Add to amount of CO2 produced through generation of energy. Increased transport and congestion problems. Emissions to the atmosphere (CO2).	Indirect	2	3	2	1 2	M	Public transport is preferred method of travel when commuting to/from urban areas, cities etc/long distances. Use of telephone conferencing where available. SIRO RASC, Vehicle/Driving Policies, & GPS devices
14	Normal	Business Travel Aeroplane/Boat use		Transport	Add to amount of CO2 produced through generation of energy. Emissions to the atmosphere (CO2).	Indirect	2	3	2	1 2	M	Low use, used for international travel only. Use of telephone conferencing where available. SIRO RASC, Vehicle/Driving Policies, & GPS devices
15	Normal	Vehicle use		Noise & Vibration	Disruption / disturbance to neighbours from vehicles at accesses to work sites, compounds and distribution sites..	Direct	2	3	2	1 2	M	Client traffic management plan implemented. Vehicle maintenance. Engines of vehicles or equipment turned off when not in use or waiting to enter the site. SIRO RASC, Vehicle/Driving Policies, & GPS devices
16	Normal	Material Procurement	Material Usage	Material Resources	Use of environmentally hazardous chemicals. High energy use appliances.	Direct	2	2	3	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
					Environmental impact from the manufacturing, or production source of the materials/ energy used.							Management Plans incl. Waste Management. Substitute existing products where possible and use of biodegradable, non-environmentally hazardous materials. Use of low energy appliances and renewable energy resources where possible. Reuse of part used materials Recyclable resources to be utilised where possible.
17	Normal	Material Procurement		Material Resources	Use of environmentally hazardous chemicals. High energy use appliances. Environmental impact from the manufacturing, or production source of the materials/ energy used.	Indirect	2	2	3	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Supplier selection. Influence our major suppliers to minimise the negative impact of their operations on the environment.. Recyclable resources to be utilised where possible.
18	Normal	Material Procurement	Material Usage	Material Resources	Management of office consumables, Paper , Toner ,Ink Cartridges,	Direct	3	3	1	6	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Reduce product use where possible through education of staff on planning and of economic as well as environmental impact. Reuse of part used materials Recyclable resources to be utilised where possible.
19	Normal	General site activities	Waste	Disposal of waste	Waste management of office consumables, Paper , Toner ,Ink Cartridges,	Direct	3	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management.

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
												Waste reduction through the reduction of product use where possible. Reuse of part used materials All waste recycled where possible .Only registered waste carriers and licensed disposal sites to be used.
20	Normal	General site activities	Waste	Recovery/ disposal of redundant materials	Waste and redundant material left at work sites. Potential visual impact on landscape and danger to flora and fauna. Potential for contamination of watercourses or ground water. Recovery of materials / hazardous wastes.	Direct	2	3	3	18	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Return unused free issued material to client. Preservation of materials during delivery, and storage on site. Waste Skips identified and secure with type of waste permitted. Monitoring and supervision of site operations. Only registered waste carriers and licensed disposal sites to be used. Records of waste transfer notes and other statutory documentation maintained. Hazardous Waste removal /WAC test may be required,
21	Normal	General site activities	Waste	Disposal of waste including WEEE products	Client Contractor to be subject to 'Duty of Care' disposal of waste. Registered contractors are required.	Indirect	2	3	3	18	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Selection of suitable contractor by the client. Records of waste transfer notes and other statutory documentation maintained. WEEE registered suppliers and returns policy.

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
22	Normal	General site activities	Asbestos	Condition of the asbestos in the working area.	Possible impact should further asbestos be found during the works	Direct	2	3	5	15	M	All areas where the presence of asbestos will be identified by the client prior to commencement of work. Client supplied Specialist Contractors will be utilised for the removal and disposal of asbestos waste.
23	Normal	General site activities	Noise & Vibration	The works may be very close to sensitive neighbours	Short-term impacts envisaged at each location.	Direct	1	2	3	6	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Agreement on noise limits with local authority via client. Ensure adequate community liaison prior and during the works phase.
24	Normal	General site activities		Rubbish, Smoke	Visual impact, damage to habitats and water courses	Direct	1	3	2	6	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Undertake environmental awareness training. Monitoring and supervision of staff
25	Normal	Use of plant and equipment	Noise & Vibration	Construction Noise (long term)	Possible long-term significant impacts expected from the works site at any location.	Direct	2	1	3	9	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Agreement on noise limits with local authority via client. Use of portable or permanent noise insulation screens and low noise plant. Maintenance and operation of plant in accordance with Manufacturers instruction Monitoring and supervision of use of equipment.

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
												Ensure adequate client/community liaison prior and during the works phase.
26	Normal	Use of plant and equipment	Noise & Vibration	Construction Noise (short term)	Short-term disturbance to local community at each location due to construction works.	Direct	2	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Use of portable or permanent noise insulation screens and low noise plant. Maintenance and operation of plant in accordance with Manufacturers instruction Monitoring and supervision of use of equipment. Ensure adequate client/community liaison prior and during the works phase.
27	Normal	Use of plant and equipment		Storage / refuelling activities	Spillage/leakage from stored diesel/petrol.	Direct	1	3	5	1 5	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Location of storage facilities. Storage facilities are suitably bunded Provision and training in the use of spill kits. Monitoring of storage facilities and refuelling activities.
28	Normal	Use of vehicles, plant and equipment	Exhaust fumes	Emissions to Air: (odours, pollution)	Nuisance impacts of smoke and fumes on local community. Smoke damage to vegetation, archaeological structures. Impact on local air quality.	Direct	1	2	3	6	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Select /substitute Materials / equipment which will reduce fumes. Turn off engines and equipment when not in use.

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
29	Normal	Use of a blow torch heat gun	Gas emission	Emissions to Air: (odours, pollution)	Small amounts of LPG (propane/ butane gas). Co2 NoX Low impact	Direct	1	2	1	2	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Auto ignition to reduce a reduction of purge gas. Fuel savings and Co2 reduction can be achieved by shutting off the gas supply when the torch is not in use.
30	Normal	Excavation	Waste spoil	Recovery / disposal of Waste spoil	Waste spoil left at work sites. Potential visual impact on landscape and danger to flora and fauna. Potential for contamination of watercourses or ground water. Recovery of materials / hazardous wastes.	Direct	2	3	3	1 8	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Monitoring and supervision of site operations. Only registered waste carriers and licensed disposal sites to be used. Records of waste transfer notes and other statutory documentation maintained. Hazardous Waste removal /WAC test may be required,
31	Normal	Cutting and grinding activities		Noise, Dust,		Direct	1	4	2	7	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Damping down. Selection and maintenance of tools, Briefings, Monitoring and supervision of staff
32	Normal	Construction of, location bases, REB bases/mass concrete base		Ecology, Visual, Water courses	Damage / disturbance	Direct	2	3	3	1 8	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management.

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
												Permit to dig, Hazardous Waste removal /WAC test may be required, Monitoring and supervision of staff
33	Normal	Installation of Cable route and cable		Ecology (Flora/ fauna)	Damage / disturbance to protected habitats and species.	Direct	2	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Undertake environmental awareness training. Site surveys and material management. Monitoring and supervision of staff
34	Normal	Vegetation Clearance		Ecology (Flora/ fauna)	Noise and air quality disturbance to local residents Damage / disturbance to protected habitats and species Pollution of watercourses or groundwater Disposal of waste to landfill – Hazardous waste. Visual impact.	Direct	1	3	2	6	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Where possible undertake vegetation clearance during winter. Consents and licences Undertake environmental awareness training. Segregation of vegetation and appropriate disposal
35	Normal	Vegetation Clearance	Waste	Disposal of waste	Client Contractor to be subject to 'Duty of Care' disposal of waste. Registered contractors are required.	Indirect	2	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Selection of suitable contractor by the client. Records of waste transfer notes and other statutory documentation maintained.
36	Emergency	1) Use of plant and equipment	Fire/Spillage	Release of substances to Watercourses	Railway lines and track drains all discharge into watercourses with the	Direct	1	2	5	1 0	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
		2) Storage of hazardous material 3) Use of a blow torch heat gun 4) UPS battery /cell installation		(Chemicals, Fuel Oils or Silt)	potential discharge of substances onto the ground could have a significant impact on controlled water. Potential significant impacts from the contamination and or destruction/ interference of controlled waters, wildlife, ecological habitats and archaeological areas.							Mapping, Environmental Management Plans incl. Waste Management. Undertake activities that could cause pollution well away from the drains or watercourses. Environmental awareness and the provision/ training in the use of spillage kits. Environmental Incident Control Plan Implementation Contain released material on site if practicable and inform emergency services, Environment Agency or sewerage. Environment Incident Report
37	Emergency	1) Use of plant and equipment 2) Storage of hazardous material 3) Use of a gas blow torch heat gun 4) UPS battery /cell installation	Fire/Spillage	Emissions to Air: (Dust, odours, pollution)	Impacts of dust, smoke and fumes on local community. Potential localised significant impact during dry conditions. Dust or smoke cover of local vegetation, Dust or smoke cover of archaeological structures, potential significance.	Direct	1	2	5	10	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Environmental Incident Control Plan Implementation. Contain released material on site if practicable and inform emergency services and/or Environment Agency promptly as appropriate. (English Nature should SSSI or NNR be involved, or English Heritage should a listed building be affected) Undertake environmental awareness and pollution incident clean up training.
38	Emergency	Transportation	Accident / Incident	Road Traffic accident/Transportation Incident	Damage to flora and fauna, property/ buildings	Indirect	3	2	3	15	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management.

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
												Interface emergency services where required Emergency plan
39	Emergency	General Site Activities	Flooding	Personnel/Equipment/Storage of materials	Flooding due to adverse weather (heavy rainfall, freezing conditions bursting pipes.	Direct	1	2	4	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Interface emergency services where required Flood Plan. Ensure fuels and hazardous substances are banded and/or kept in flammable storage cabinets. All chemicals to be kept 1m above ground level. (Including cleaning products)

The following calculation should then be done to give the actual level of significance for each activity:

$$\text{Volume} \times \text{Likelihood} \times \text{Magnitude} = \text{Level of significance.}$$

The following levels of significance should be assigned to each result:

0 – 10	= Low level of significance
11 – 30	= Medium level of significance
31 – 50	= High level of significance

Activities with a high level of significance should then have objectives and targets set against them and environmental management programmes developed to reach those targets. See Environmental Objectives and Targets process EHSIP.

3. ENVIRONMENTAL ASPECT & IMPACT REGISTER

Date of Assessment: 10/4/2018

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
1	Normal	General site activities during fibre installation	Natura sites	Ecology (Flora/ fauna)	Impact of Natura sites – see www.npws.ie/protected-sites ; including Natural Heritage Areas (NHA), Special Areas of Conservation (SAC), Special protection Areas (SPAs), Wildfowl Sanctuaries, OSPAR sites, National Parks and Nature Reserves. Sites of Special Scientific Interest Contamination of aquatic habitats, wind blown dust on ecologically sensitive areas. Vegetation and habitat due to site clearance or layout.	Direct	3	2	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Avoidance of sensitive sites where possible, but as a minimum the highlighting of how to identify such site by Contractors control measures near sensitive areas and information and signage for workers. Use of existing site access where possible. Control of construction works to prevent contamination. No stockpiling of spoil. Reduction of the storage of oils or chemical in vicinity of aquatic habitats. Provision of emergency spill kits.
2	Normal	General site activities during fibre installation	Natura sites	Works sites are close to / in Natura sites	Potential risk that any pollution incident may affect the Natura sites. Damage to wild life flora and fauna.	Direct	3	2	1	6	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Review of potentially damaging activities. Control of access and egress. Awareness training and briefings. Undertake activities that could cause pollution well away from the immediate area. Provision of

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No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
												spillage kits and training in their use. Work with client to develop an Environmental Incident Control Plan.
3	Normal	General site activities during fibre installation		Emissions to Air: (Dust, odours, pollution)	Nuisance impacts of dust, smoke and fumes on local community. Localised significant impact during dry conditions. Dust/ smoke damage to vegetation, archaeological structures. Impact on local air quality.	Direct	2	2	1	4	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Damping down of surfaces during dry weather. Enclosure of stockpiles of loose materials. Monitoring dust levels. Select /substitute Materials / equipment which will reduce fumes. Sealed chemical storage areas. Turn off engines of vehicles and equipment when not in use.
4	Normal	General site activities during fibre installation		Archaeology and Heritage	Damage /interference to archaeological areas, ancient monuments conservation areas, listed buildings. Discovery of archaeological burials sites	Direct	2	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Avoidance of sensitive sites where possible. Use of existing site access and depots where possible. Client consultation with relevant archaeological groups. Client control measures near sensitive areas and information and signage for workers
5	Normal	General site activities	Tree Preservation	Trees may be affected by works	Potentially significant should trees become damaged.	Direct	2	2	1	4	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
		during fibre installation										Management Plans incl. Waste Management. Area of trees to be identified and protected, consent to be obtained prior to any works which directly affect trees. Warning notices erected. Briefings conducted. Identification within specific method statements.
6	Normal	General site activities during fibre installation	Contaminated Land	Release / disturbance of leachate and or gas.	Possible impact should the release of gases occur during the works.	Direct	1	1	4	4	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Minimise the disturbance of the railway ballast and level crossings. Client to undertake risk assessment to establish risk posed by the presence of landfill gas.
7	Normal	General site activities during fibre installation	Contamination – COSHH products - Spillage	Discharge to Controlled Water	Potential risk that any pollution incident may contaminate water courses and or ground waters.	Direct	2	2	4	16	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Undertake activities that could cause pollution well away from the drains or water courses. Environmental awareness and the provision/ training in the use of spillage kits.

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
8	Normal	General site activities during fibre installation	Disruption	Community	Disruption to community, business, public services, private landowners and/or development restriction areas. Significant impact if there is a long period disruption. Roads/ footpaths temporary closure. Nuisance from the works to local community.	Direct	2	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Client consultation with affected community. Alternative accesses. Ensure client community liaison prior and during the works phase. Potential public services to be relocated. Client information provided to the local community prior to the commencement of works
9	Normal	General site activities during fibre installation	Noise	Personnel	Disruption / disturbance to neighbours from construction work sites, compounds and distribution sites.	Direct	2	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Ensure noisy activities are conducted during daytime if practicable. Briefings to site personnel. To adopt a quiet working ethic at night and to be considerate to the public always
10	Normal	General site activities during fibre installation	Intrusion	Light	Lights used at the works sites and site compounds/depots.	Direct	1	1	1	1	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Work lights to be directed away from residential properties if practicable. Lights to be switched off when not required

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
11	Normal	Vehicle use		Transport	Disruption from vehicle movements. Silt and oil/ spilled materials being deposited on the roads and subsequently being washed into the adjacent watercourses.	Direct	2	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Client traffic management plan implemented. Consultation with local highway authority if appropriate Vehicle maintenance. Materials to be supplied bagged where possible. Vehicles carrying loose material such as aggregates shall be covered. SIRO RASC, Vehicle/Driving Policies, & GPS devices
12	Normal	Business Travel, Vehicle use (Inc Motorcycles) Taxi use		Transport	Add to amount of CO2 produced through generation of energy. Increased transport and congestion problems. Emissions to the atmosphere (CO2).	Direct	2	3	2	1 2	M	Minimise use where possible using public transport or maximising vehicle occupancy less vehicle use. Taxis for short journeys when interfacing with public transport only Use of telephone conferencing where available. SIRO RASC, Vehicle/Driving Policies, & GPS devices
13	Normal	Business Travel Public Transport (bus, train etc)		Transport	Add to amount of CO2 produced through generation of energy. Increased transport and congestion problems. Emissions to the atmosphere (CO2).	Indirect	2	3	2	1 2	M	Public transport is preferred method of travel when commuting to/from urban areas, cities etc/long distances. Use of telephone conferencing where available. SIRO RASC, Vehicle/Driving Policies, & GPS devices

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
14	Normal	Business Travel Aeroplane/Boat use		Transport	Add to amount of CO2 produced through generation of energy. Emissions to the atmosphere (CO2).	Indirect	2	3	2	1 2	M	Low use, used for international travel only. Use of telephone conferencing where available. SIRO RASC, Vehicle/Driving Policies, & GPS devices
15	Normal	Vehicle use		Noise & Vibration	Disruption / disturbance to neighbours from vehicles at accesses to work sites, compounds and distribution sites..	Direct	2	3	2	1 2	M	Client traffic management plan implemented. Vehicle maintenance. Engines of vehicles or equipment turned off when not in use or waiting to enter the site. SIRO RASC, Vehicle/Driving Policies, & GPS devices
16	Normal	Material Procurement	Material Usage	Material Resources	Use of environmentally hazardous chemicals. High energy use appliances. Environmental impact from the manufacturing, or production source of the materials/ energy used.	Direct	2	2	3	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Substitute existing products where possible and use of biodegradable, non-environmentally hazardous materials. Use of low energy appliances and renewable energy resources where possible. Reuse of part used materials Recyclable resources to be utilised where possible.
17	Normal	Material Procurement		Material Resources	Use of environmentally hazardous chemicals. High energy use appliances. Environmental impact from the manufacturing, or production source of the materials/ energy used.	Indirect	2	2	3	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Supplier selection. Influence our major suppliers to minimise the negative impact of their operations on the environment..

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No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
												Recyclable resources to be utilised where possible.
18	Normal	Material Procurement	Material Usage	Material Resources	Management of office consumables, Paper , Toner ,Ink Cartridges,	Direct	3	3	1	6	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Reduce product use where possible through education of staff on planning and of economic as well as environmental impact. Reuse of part used materials Recyclable resources to be utilised where possible.
19	Normal	General site activities	Waste	Disposal of waste	Waste management of office consumables, Paper , Toner ,Ink Cartridges,	Direct	3	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Waste reduction through the reduction of product use where possible. Reuse of part used materials All waste recycled where possible .Only registered waste carriers and licensed disposal sites to be used .
20	Normal	General site activities	Waste	Recovery/ disposal of redundant materials	Waste and redundant material left at work sites. Potential visual impact on landscape and danger to flora and fauna. Potential for contamination of	Direct	2	3	3	1 8	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Return unused free issued material to client.

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No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
					watercourses or ground water. Recovery of materials / hazardous wastes.							Preservation of materials during delivery, and storage on site. Waste Skips identified and secure with type of waste permitted. Monitoring and supervision of site operations. Only registered waste carriers and licensed disposal sites to be used. Records of waste transfer notes and other statutory documentation maintained. Hazardous Waste removal /WAC test may be required.
21	Normal	General site activities	Waste	Disposal of waste including WEEE products	Client Contractor to be subject to 'Duty of Care' disposal of waste. Registered contractors are required.	Indirect	2	3	3	18	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Selection of suitable contractor by the client. Records of waste transfer notes and other statutory documentation maintained. WEEE registered suppliers and returns policy.
22	Normal	General site activities	Asbestos	Condition of the asbestos in the working area.	Possible impact should further asbestos be found during the works	Direct	2	3	5	15	M	All areas where the presence of asbestos will be identified by the client prior to commencement of work. Client supplied Specialist Contractors will be utilised for the removal and disposal of asbestos waste.
23	Normal	General site activities	Noise & Vibration	The works may be very close to sensitive neighbours	Short-term impacts envisaged at each location.	Direct	1	2	3	6	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management.

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No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
												Agreement on noise limits with local authority via client. Ensure adequate community liaison prior and during the works phase.
24	Normal	General site activities		Rubbish, Smoke	Visual impact, damage to habitats and water courses	Direct	1	3	2	6	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Undertake environmental awareness training. Monitoring and supervision of staff
25	Normal	Use of plant and equipment	Noise & Vibration	Construction Noise (long term)	Possible long-term significant impacts expected from the works site at any location.	Direct	2	1	3	9	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Agreement on noise limits with local authority via client. Use of portable or permanent noise insulation screens and low noise plant. Maintenance and operation of plant in accordance with Manufacturers instruction Monitoring and supervision of use of equipment. Ensure adequate client/community liaison prior and during the works phase.
26	Normal	Use of plant and equipment	Noise & Vibration	Construction Noise (short term)	Short-term disturbance to local community at each location due to construction works.	Direct	2	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management.

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
												Use of portable or permanent noise insulation screens and low noise plant. Maintenance and operation of plant in accordance with Manufacturers instruction Monitoring and supervision of use of equipment. Ensure adequate client/community liaison prior and during the works phase.
27	Normal	Use of plant and equipment		Storage / refuelling activities	Spillage/leakage from stored diesel/petrol.	Direct	1	3	5	1 5	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Location of storage facilities. Storage facilities are suitably bunded .Provision and training in the use of spill kits. Monitoring of storage facilities and refuelling activities.
28	Normal	Use of vehicles, plant and equipment	Exhaust fumes	Emissions to Air: (odours, pollution)	Nuisance impacts of smoke and fumes on local community. Smoke damage to vegetation, archaeological structures. Impact on local air quality.	Direct	1	2	3	6	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Select /substitute Materials / equipment which will reduce fumes. Turn off engines and equipment when not in use.
29	Normal	Use of a blow torch heat gun	Gas emission	Emissions to Air: (odours, pollution)	Small amounts of LPG (propane/ butane gas). Co2 NoX Low impact	Direct	1	2	1	2	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management.

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
												Auto ignition to reduce a reduction of purge gas. Fuel savings and Co2 reduction can be achieved by shutting off the gas supply when the torch is not in use.
30	Normal	Excavation	Waste spoil	Recovery/ disposal of Waste spoil	Waste spoil left at work sites. Potential visual impact on landscape and danger to flora and fauna. Potential for contamination of watercourses or ground water. Recovery of materials / hazardous wastes.	Direct	2	3	3	1 8	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Monitoring and supervision of site operations. Only registered waste carriers and licensed disposal sites to be used. Records of waste transfer notes and other statutory documentation maintained. Hazardous Waste removal /WAC test may be required,
31	Normal	Cutting and grinding activities		Noise, Dust,		Direct	1	4	2	7	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Damping down. Selection and maintenance of tools, Briefings, Monitoring and supervision of staff
32	Normal	Construction of, location bases, REB bases/mass concrete base		Ecology, Visual, Water courses	Damage / disturbance	Direct	2	3	3	1 8	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Permit to dig, Hazardous Waste removal /WAC test may be required, Monitoring and supervision of staff

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							V	L	M	S T	S L	
33	Normal	Installation of Cable route and cable		Ecology (Flora/ fauna)	Damage / disturbance to protected habitats and species.	Direct	2	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Undertake environmental awareness training. Site surveys and material management. Monitoring and supervision of staff
34	Normal	Vegetation Clearance		Ecology (Flora/ fauna)	Noise and air quality disturbance to local residents Damage / disturbance to protected habitats and species Pollution of watercourses or groundwater Disposal of waste to landfill – Hazardous waste. Visual impact.	Direct	1	3	2	6	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Where possible undertake vegetation clearance during winter. Consents and licences Undertake environmental awareness training. Segregation of vegetation and appropriate disposal
35	Normal	Vegetation Clearance	Waste	Disposal of waste	Client Contractor to be subject to 'Duty of Care' disposal of waste. Registered contractors are required.	Indirect	2	3	2	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Selection of suitable contractor by the client. Records of waste transfer notes and other statutory documentation maintained.
36	Emergency	1) Use of plant and equipment	Fire/Spillage	Release of substances to Watercourses (Chemicals, Fuel Oils or Silt)	Railway lines and track drains all discharge into watercourses with the potential discharge of	Direct	1	2	5	1 0	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental

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No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
		2) Storage of hazardous material 3) Use of a blow torch heat gun 4) UPS battery /cell installation			substances onto the ground could have a significant impact on controlled water. Potential significant impacts from the contamination and or destruction/ interference of controlled waters, wildlife, ecological habitats and archaeological areas.							Management Plans incl. Waste Management. Undertake activities that could cause pollution well away from the drains or watercourses. Environmental awareness and the provision/ training in the use of spillage kits. Environmental Incident Control Plan Implementation Contain released material on site if practicable and inform emergency services, Environment Agency or sewerage. Environment Incident Report
37	Emergency	1) Use of plant and equipment 2) Storage of hazardous material 3) Use of a gas blow torch heat gun 4) UPS battery /cell installation	Fire/Spillage	Emissions to Air: (Dust, odours, pollution)	Impacts of dust, smoke and fumes on local community. Potential localised significant impact during dry conditions. Dust or smoke cover of local vegetation, Dust or smoke cover of archaeological structures, potential significance.	Direct	1	2	5	10	L	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Environmental Incident Control Plan Implementation. Contain released material on site if practicable and inform emergency services and/or Environment Agency promptly as appropriate. (English Nature should SSSI or NNR be involved, or English Heritage should a listed building be affected) Undertake environmental awareness and pollution incident clean up training.
38	Emergency	Transportation	Accident/ Incident	Road Traffic accident/Transportation Incident	Damage to flora and fauna, property/ buildings	Indirect	3	2	3	15	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental

No	Operating Condition	Activity	Issue	Aspect	Potential Impact	Direct/ Indirect	Significance					Mitigation
							V	L	M	S T	S L	
												Management Plans incl. Waste Management. Interface emergency services where required Emergency plan
39	Emergency	General Site Activities	Flooding	Personnel/Equipment/Storage of materials	Flooding due to adverse weather (heavy rainfall, freezing conditions bursting pipes.	Direct	1	2	4	1 2	M	CMP 12 requirement for contractors to complete Appropriate Assessments, Environmental Mapping, Environmental Management Plans incl. Waste Management. Interface emergency services where required Flood Plan. Ensure fuels and hazardous substances are bunded and/or kept in flammable storage cabinets. All chemicals to be kept 1m above ground level. (Including cleaning products)