

18 SCHEDULE OF MITIGATION

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18.1 Introduction

18.1.1 The following schedule summarises the mitigation measures which have been outlined in the Environmental Statement. These have been separated into the construction, operational and decommissioning phases and are shown by reference to the corresponding chapter of the ES.

Table 18-1 Construction Schedule of Mitigation			
Number	Chapter	Mitigation Measure	Securing Mechanism
1	6	<p>Trees to be retained are to be protected in accordance with BS 5837:2012.</p> <p>Where existing trees are removed to make way for the spillway infrastructure and pumping station, they will be replaced on a like for like basis.</p> <p>Site compounds and stock piles will be kept within designated areas away from the woodland.</p>	<p>Requirements 6 and 12 requires a tree planting scheme and a tree-roots protection plan as part of the Habitat Management Plan (HMP) to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the HMP as approved.</p>
2	6	<p>Public Rights of Way which have been diverted or closed during construction will be reinstated, with the exception of those around Q1 which will be permanently diverted.</p>	<p>This will be secured through the DCO process</p>
3	6	<p>The power house and pumping station will be clad using local materials (i.e. slate) or rendered in colours appropriate to the local area to help integrate them with the wider landscape context</p>	<p>Requirement 5 requires details of final finishes and external materials to be submitted prior to the commencement of construction.</p>
4	7	<p>Pollution prevention measures in line with current NRW guidelines will be adhered to in order to reduce the likelihood of pollution incidents and subsequent damage to Afon Gwyrfai a Llyn Cwellyn SAC and any other designated sites, any harm to species, or any damage to designated features.</p>	<p>Requirement 6 requires a Code of Construction Practice (CoCP) including a Pollution Prevention Plan (PPP) to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCP as approved.</p>
5	7	<p>A pre-construction survey for invasive and non-native species will be undertaken within the working area of the</p>	<p>Requirement 7 requires a Bio-Security Plan to be submitted to and approved by Gwynedd</p>

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		<p>spillway infrastructure and prior to abstraction starting. Species will be removed prior to works being undertaken in order to help prevent the introduction of invasive or non-native species into Afon Gwyrfa.</p> <p>The presence of Nuttall's pondweed within Llyn Padarn will be included in the Bio-Security Plan and areas shown on a map. The information will be included in the toolbox talk prior to works commencing within Llyn Padarn to make contractor aware of its' location to help prevent disturbance and/or spread of the species.</p> <p>To prevent fish being drawn into the abstraction pipe intake screens must meet statutory requirements under the Salmon and Freshwater Fisheries Act.</p>	<p>Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 7 requires the Applicant to comply with the Bio-Security as approved.</p>
6	7	<p>The Development should seek to use tracks and other areas of hardstanding that are already present within the Order Limits to avoid removing vegetation where possible.</p>	<p>Requirement 6 requires a HMP to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCP including the HMP as approved</p>

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Number	Chapter	Mitigation Measure	Securing Mechanism
7	7	Construction of spillway disturbing lake bed sediment has the potential to cause smothering of spawning gravels, macrophytes, macro-invertebrates, reducing oxygen levels, & increased turbidity within the Llyn Padarn SSSI. As such pollution prevention measures in line with current NRW guidelines will be adhered to.	<p>Requirement 6 requires a PPP to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the PPP as approved.</p>
8	7	<p>Pre-construction surveys will allow presence of otter, badger and water vole within the Order Limits to be ascertained. If any species is present then mitigation will be implemented to help prevent disturbance and/or loss.</p> <p>To avoid the direct destruction of a newly created badger set a walkover survey for newly established setts within 100m will be conducted within 6 months of construction commencing.</p> <p>Any confirmed water vole presence will be monitored by an Ecological Clerk of Works to mitigate the likelihood and extent of noise and vibration effects to water voles. Noise or vibration within 30m (or 100m if blasting or drilling) of a burrow will require a licence. Site inductions and tool box talks will raise awareness of protected species.</p> <p>Noise or vibration within 30m (or 100m if blasting or drilling) of a holt / couch will require a licence.</p> <p>A pre-construction survey for Arctic charr spawning grounds will be undertaken prior to works on the spillway</p>	<p>Requirement 6 requires a CoCP to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCP as approved.</p>

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		<p>infrastructure if programmed during spawning periods. If Arctic charr are found to be spawning within the area, then noise-generating activities will be limited within a 50m radius during spawning season, and vibration-generating activities limited within 500m during spawning season.</p> <p>For floating water plantain an EPS license will be required for works to proceed under an approved Method Statement which will detail the necessary measures required to help prevent loss and/or detrimental disturbance.</p> <p>To help prevent disturbance to red squirrels during the breeding season (March – October) it is recommended that a walkover survey be conducted to identify dreys within a 50m buffer. An ECoW will monitor the dreys for activity and/or camera traps will be used to ascertain usage by grey or red squirrels. If works are deemed to be disturbing red squirrels works will halt and NRW consulted.</p>	
9	7	<p>Light spill during construction onto the woodland edge or shore line of Llyn Padarn has the potential to impact on species utilising those areas of the SSSI such as bats, otter and water vole. Lighting will require to be designed to minimise spillage into surrounding habitats to avoid disturbance to wildlife. Construction and maintenance activities should avoid working at least 1 hour before dusk until 1 hour after dawn, when wildlife is most active.</p>	<p>Requirement 19 requires a lighting scheme to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 16 relates to the working hours to be implemented by the Principal Contractor.</p> <p>Requirement 19 and Requirement 16#requires the Applicant and Principal</p>

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			Contractor to comply with the lighting scheme and working hours as approved.
10	7	<p>Good site working practices will be adhered to. Adjacent habitats to be retained will be fenced off to ensure damage to dry/heath/acid grassland and habitats suitable for invertebrates, amphibians and reptiles is kept to a minimum.</p> <p>To help protect retained habitats that have the potential to support amphibians, good site working practices will be adhered to; adjacent habitats to be retained will be fenced off; and, pollution prevention measures in line with current NRW guidelines will be adhered to.</p>	<p>Requirement 6 requires a CoCP to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 6 requires a HMP to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCP and HMP as approved.</p>
11	7	<p>The construction of the spillway into the Nant-y-Betws and slate mounds have the potential to impact the aquatic environment through pollution of surface water runoff from vehicle fuel, oil, chemicals, silt, dust or aluminium content in any runoff from crushed slate during construction, which could result in discharge of contaminated water.</p> <p>As such pollution prevention measures in line with current NRW guidelines will be adhered to.</p> <p>Runoff from the site will be filtered and attenuated using silt traps and settlement ponds.</p>	<p>Requirement # requires PPP, Water Management Plan (WTMP) to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCP as approved.</p>
12	7	<p>Three lichen species will be removed due to the construction of the Q1 dam. Translocation of slate slabs</p>	<p>Requirement 6 requires a HMP to be submitted to and approved by Gwynedd</p>

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		colonised by notable lichens to areas with similar environmental conditions will be undertaken. Mitigation will help to prevent loss of notable lichens.	Council and NRW in writing as part of the CoCP prior to the commencement of construction. Requirement 6 requires the Applicant to comply with the HMP as approved.
13	7	To prevent pollution and dust during construction smothering vegetation and affecting the ability of invertebrates to use the plants. Pollution prevention measures in line with current NRW guidelines will be adhered to. Similarly the same mitigation will be undertaken to prevent the water bodies and soils within and adjacent to the Development from becoming polluted which could cause long term damage to productivity and diversity of the aquatic and terrestrial habitat, adversely affecting invertebrates.	Requirement 6 requires a Dust Management Plan (DMP), WTMP and PPP to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction. Requirement 6 requires the Applicant to comply with the DMP, WTMP and PPP as approved.
14	7	To prevent injury or killing of reptiles crushed by machinery or foot, habitat management will be undertaken to discourage reptiles from the area before soil stripping. Retained vegetation will be fenced off to prevent injury or killing.	Requirement 6 requires a HMP to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction. Requirement 6 requires the Applicant to comply with the HMP as approved.
15	7	To avoid disturbance to breeding Schedule 1 birds and other breeding bird species, it is recommended that a	Requirement 6 requires a Breeding Bird Method Statement to be submitted to and

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		<p>Breeding Bird Method Statement is produced detailing the programme for the construction phase. It may also include details of when an Ecological Clerk of Works is present within the Order Limits to observe any disturbance to Schedule 1 species during nesting season (March – July inclusive). Access to the known nesting area will be prohibited during nesting season for Schedule 1 species.</p> <p>To avoid disturbance of BOCC Red and Amber List Species nesting birds during construction and operational maintenance, it is recommended that removal of vegetation with the potential to support nesting birds (woodland, trees, bracken and scrub) is to be undertaken outside of breeding bird season (clearance October – February inclusive).</p> <p>If vegetation clearance is undertaken during breeding bird season (from March to September inclusive) the area will first be inspected by an ecologist a maximum of 48 hours before work begins in an area. If any nests are found, work will have to be halted and the nest left undisturbed with a buffer zone until the chicks have fledged. This could take up to six weeks.</p> <p>Any retained vegetation will be fenced off during construction to prevent vehicles, machinery and site staff tracking onto and over it.</p>	<p>approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the Breeding Bird Method Statement as approved.</p>
16	7	To reduce collisions with Pole cats, reduced speed limits will be introduced within the Order Limits. Site inductions	Requirement 6 requires a CoCP to be submitted to and approved by Gwynedd

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		<p>and tool box talks will raise awareness of protected species collisions.</p> <p>Any sightings or collisions will be recorded and submitted to the Local Record Centre to aid local knowledge of the species.</p> <p>To help prevent loss of retained suitable habitat with the potential to support polecat, pollution prevention measures in line with current guidelines will be adhered to.</p>	<p>Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCP as approved</p>
17	7	To avoid badger becoming trapped in excavations during construction trenches and excavations will be closed at night to prevent badgers from entering or be fitted with a ramp to allow mammals to escape.	<p>Requirement 6 requires a CoCP to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCP as approved</p>
18	7	Where sections of Tunnel 2 and 14 can be retained they will be retained for use by bats (as outlined in Volume 3, Appendix 7.15 Bat Mitigation Strategy and Appendix 7.18 Bat License). Exclusion of bats to avoid injury and killing. Enhancement of retained tunnels to retain a roosting resource within the Development.	This has been through an approved Bat License (in Volume 3, Appendix 7.18)
19	7	Where there is potential roost loss in the tunnels bats will be excluded to avoid injury and killing. Enhancement of retained tunnels to retain a roosting resource within the Development will include the installation of at least 10 wooden batons on ceilings and walls into each of Tunnels	This has been through an approved Bat License (in Volume 3, Appendix 7.18)

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		2, 3, 7, 8, 9, and 15 and the bomb store (as outlined in Volume 3, Appendix 7.15 Bat Mitigation Strategy and Appendix 7.18 Bat License).	
20	8	<p>Potential risks to the surrounding environment and health of construction staff from unexploded munitions will be minimised by the preparation of an Ordnance Management Strategy, and compliance with the recommendations of the Zetica report within Appendix 8.5 and 8.6.</p> <p>Preparation and implementation of Ordnance Management Strategy in conjunction with HSE to deal with any remaining munitions</p>	<p>Requirement 7 requires an Ordnance Management Strategy to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 7 requires the Applicant to comply with the Ordnance Management Strategy as approved.</p>
21	8	To appropriately deal with areas of unexpected contaminated ground found, a Land Discovery Strategy will be included in the CoCP.	<p>Requirements 7 and 13 requires a Land Discovery Strategy to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 7 requires the Applicant to comply with the land discovery strategy as approved.</p>
22	9	All works associated with the construction of the Development will be undertaken with due regard to the guidance contained within CIRIA Document C650 “Environmental Good Practice on Site” and the following NRW Pollution Prevention Guidelines (PPGs):	<p>Requirement 6 requires a CoCP, WTMP and PPP to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to</p>

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		<ul style="list-style-type: none"> • PPG01: Understanding Your Environmental Responsibilities; • PPG02 - Above Ground Oil Storage Tanks; • PPG03 - Choosing and using oil separators: prevent pollution ; • PPG05 - Works in, near or over watercourses; prevent pollution; • PPG06 – Construction and demolition sites: prevent pollution ; • PPG07 - Safe Operation of Refuelling Facilities; • PPG08 - Safe Storage and Disposal of Used Oils; and, • PPG21 - Incident Response Planning 	comply with the CoCP, WTMP and PPP as approved.
23	9	<p>To ensure the adequate protection of the water environment, a WTMP will be prepared.</p> <p>To ensure the protection of the environment and watercourses, temporary measures will ensure controlled management of runoff draining from the construction site. The arrangements of such drainage infrastructure will be set out in the detailed design and as appropriate agreed with NRW prior to construction.</p> <p>To minimise the effect on the water quality in the Nant y Betws and the Afon Gwyrfai, measures will be put into</p>	<p>Requirement 6 requires a WTMP to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the WTMP as approved.</p>

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		<p>place to intercept runoff from the construction site above the watercourses.</p> <p>Where slopes are disturbed by the construction works, temporary drainage measures will be designed to prevent the direct discharge of runoff to watercourses. The drainage from the settlement lagoons will be subject to a consent / license issued by NRW.</p> <p>Water arising from the tunnelling operations will have its own dedicated treatment system.</p>	
24	9	<p>Prevention or the potential pollution to the surrounding environment and the health of construction staff and the public due to spillage of potential contaminants will be minimised by training. Emergency procedures to be implemented in the event of a spillage or leakage of any polluting material such as fuel, oil or silt-laden drainage, will be in place on-site and incorporated into the PPP and CoCP. Oil spill kits will be provided on site and oil or similar material will be cleaned away immediately using appropriate absorbent material to prevent it entering any local watercourse.</p> <p>There will be the provision to provide on-site toilet facilities for construction staff. Where necessary any foul drainage generated will be collected in a septic tank and appropriately disposed of off-site.</p> <p>Appropriate drainage and discharge licences will be sought from NRW for both temporary and permanent</p>	<p>Requirement 6 requires a CoCP including a PPP to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCP and PPP as approved.</p>

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		<p>discharges.</p> <p>Prevention or potential pollution of materials leaking from static plant will be minimised by being placed on drip trays wherever practicable. Facilities for washing plant and equipment contaminated with concrete or other chemicals will be provided. If on-site batching facilities are required they will be operated under the conditions of the appropriate authorisation.</p> <p>To avoid contamination of the surrounding environment, chemicals, fuels and oils will be stored in secure and designated storage areas. Storage areas will be located on hardstanding areas so as to prevent the possible infiltration of contaminants into the soil. Stockpiles of dry materials will be stored in locations that prevent contamination of surface waters and materials will not be stockpiled without appropriate safety and mitigation systems in place.</p> <p>Bentonite or drilling fluid will be stored appropriately in bunded tanks holding 110% of its capacity. Any waste or used drilling fluid will be stored and tanked away off-site as appropriate.</p>	
25	9	<p>Implementation of the following in accordance with BS6031:1981 "Code of Practice for Earth Works." Land disturbance will be kept to a minimum and disturbed areas will be stabilised as soon as possible after construction.</p> <ul style="list-style-type: none"> scheduling construction activities to minimise the area 	<p>Requirement 6 requires a CoCP including a PPP to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to</p>

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		<p>and period of time that soil will be exposed, particularly during wetter periods;</p> <ul style="list-style-type: none"> • construction areas will be demarcated from the rest of the site so as to minimise the disturbance of land not required for development; • installation of cut-off drains around the working areas to intercept surface runoff and divert it around the works; • minimising the stockpiling of materials and locating essential stockpiles as far away as possible from watercourses; • implementation of site working practices to minimise the risk of concrete spillages; and • movement of construction vehicles and plant will be strictly controlled to minimise the potential for soil compaction and erosion. 	comply with the CoCP and PPP as approved.
26	9	To monitor any variation in the water quality and the potential impact of this operation on Llyn Padarn, a water quality monitoring programme will be established in conjunction with NRW.	<p>Requirement 6 requires a WTMP to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCPs approved.</p>
27	9	Shoreline works will be required to install the pumping station and the spillway pipework which will rest on the bed	Requirement 6 requires a WTMP to be submitted to and approved by Gwynedd

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		of Llyn Padarn. A WTMP will form part of the CoCP and will outline measures to be taken to minimise suspended soils within the water as a minimum.	Council and NRW in writing as part of the CoCP prior to the commencement of construction. Requirement 6 requires the Applicant to comply with the CoCP as approved.
28	10	Appropriate emergency procedures to be implemented in the event of a flood occurring outside of the flood plain to ensure no increase in flood risk elsewhere. Any requirement for storage of materials within the flood plain will need to be agreed with the NRW.	Requirement 6 requires an Emergency Response and Flood Risk Management Plan (ERFRMP) to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction. Requirement 6 requires the Applicant to comply with the CoCP as approved.
29	10	The installation of an appropriate temporary drainage system which utilises Sustainable Urban Drainage System components where practicable will minimise the risk of surface water flooding and flooding from overland flow.	Requirement 6 requires a CoCP to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction. Requirement 6 requires the Applicant to comply with the CoCP as approved.
30	10	De-watering of excavations may be required to mitigate potential inundation with groundwater. De-watering should be undertaken in a manner which cannot cause an increase in flood risk by its disposal.	Requirement 6 requires a CoCP including a WTMP to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction. Requirement 6 requires the Applicant to

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			comply with the CoCP as approved.
31	11	A program of archaeological work will be prepared including a detailed and targeted mitigation plan, written scheme of investigation, archaeological and building recording and a landscape survey prior to construction. There will also be an archaeologically monitored topsoil strip for other areas including the associated infrastructure and access tracks.	<p>Requirements 7 and 15 requires an Archaeological Compensation and Enhancement Strategy to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 7 requires the Applicant to comply with the Archaeological Compensation and Enhancement Strategy as approved.</p>
32	12	<p>Construction traffic including HGVs will have restricted periods of movements as specified in the detailed Construction Traffic Management Plan (CTMP) which will be included within the finalised CoCP. The CTMP will identify the traffic and delivery routes to the Development.</p> <p>The CTMP will identify how traffic including pedestrian and cyclist traffic will be managed throughout the duration of the construction period.</p> <p>Points of access and egress for the site will be identified and marked with warning signs in accordance with the requirements of the works and the local Highways Authority.</p> <p>During the construction phase, drivers will be briefed regularly, and compliance with the plan will be checked</p>	<p>Requirements 6 and 9 requires a CTMP to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CTMP as approved.</p>

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		regularly.	
33	12	A Health and Safety Plan (HASP) will be required which will include details of good practice methods of reducing dust emissions and wheel washing facilities. The HASP is a CDM requirement and separate to any specific Contractor agreements to minimise the effect of construction traffic.	Requirement 7 requires a HASP to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction. Requirement 7 requires the Applicant to comply with the HASP as approved.
34	12	Where possible, earthwork material from the existing site will be retained for re-use as soft landscape areas and acoustic bunding, therefore minimising the need to import material onto site.	Requirement 6 requires CoCP including a NMP to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction. Requirement 6 requires the Applicant to comply with the CoCP as approved.
35	13	To limit the impact of noise, the following mitigation strategies will be implemented: <ul style="list-style-type: none"> • Construction hours will be 07:00-19:00 Monday to Friday and 07:00-13:00 Saturday. Consent will be sought for any requirement for works outside normal hours. • Speed limit and planning of deliveries throughout the day • Noisy construction activities will be planned for the beginning of the week where possible. • Ensure all processes are in place to minimise noise 	Requirement 6 requires a NMP to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction. Requirement 6 requires the Applicant to comply with the CoCP as approved.

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		<p>before works begin ensure that modern plant is used, complying with the latest EC noise emission requirements.</p> <ul style="list-style-type: none"> • Select of inherently quiet plant where appropriate. • Equipment will be maintained and fitted with silencers or barriers to minimise noise and turned off when not in use. • All major compressors should be 'sound-reduced' models fitted with properly lined and sealed acoustic covers. • All ancillary plant such as generators, compressors and pumps would be positioned so as to cause minimum noise disturbance. • Loading/unloading sites should be located away from residential properties and shielded from those properties where practicable • Arrange the site operations and vehicle routes to minimise the need for reversing movements • No employees, subcontractors and persons employed on the site should cause unnecessary noise from their activities. Staff inductions. • Materials should be lowered whenever practicable and not dropped. Any chutes and skips should be lined with sound attenuating material to reduce effect noise. 	

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		<ul style="list-style-type: none"> Care should be taken when loading / unloading vehicles and dismantling scaffold Plant that is not required to be mobile (such as a crusher unit or batching plant) will be located and oriented with a localised barrier to provide attenuation to NSRs Where particular plant items have been modelled at terrain heights lower than typical surface heights (i.e. within quarries), screening provides considerable attenuation to NSRs. 	
36	13	A local liaison group will be set up to discuss matters relating to noise and vibration effects from the development's construction, with representatives from relevant stakeholders. Works schedule, giving warning to residents regarding periods when higher levels of noise may occur during specific operations, and providing them with lines of communication where complaints can be addressed.	<p>Requirement 6 requires a CoCP to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCP as approved.</p>
37	13	Method Statements regarding construction management, traffic management, overall site management, and resident management, prepared in accordance with good practice and relevant British Standards, can help to minimise effects of construction works. These will be contained within a Noise Management Plan. A NMP will also be prepared and put in place to ensure Best Practicable Means are adopted with regards to each phase of the	<p>Requirement 6 requires a NMP to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCP as approved.</p>

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		proposals. This will help to ensure that the noise effects relating to construction activities are minimised	
38	13	<p>To minimise the effects related to construction traffic, a Construction Traffic Management Plan will be prepared and incorporated into the overall CoCP. Construction traffic effects will be mitigated through management methods, road maintenance and ongoing monitoring</p> <p>Management methods include a speed limit for construction vehicles and the planning of deliveries throughout the day.</p> <p>A smooth road surface is required to be maintained on access routes to Q1 and Q6. Consultation between the applicant and Gwynedd Council should be undertaken to facilitate a process that will ensure that road irregularities do not exceed a 20mm change in the road profile.</p>	<p>Requirements 6 and 9 requires a CTMP to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCP as approved.</p>
39	13	<p>Methods employed to control air overpressure and vibration from blasting operations will need to be agreed with Gwynedd Council prior to any blasting, as well as the frequency of blasting and a 95% confidence limit for blast PPV values at NSRs. A blast monitoring scheme for air overpressure and vibration is recommended to be implemented.</p> <p>All blasts at the site should be monitored and records maintained so that the historical peak particle velocity from blasts can be produced as required.</p>	<p>Requirement 6 requires a NMP to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCP as approved.</p>

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40	14	<p>With regard to the regional meteorology, stockpiles and compounds should not be located near the site boundary or upwind of nearby sensitive receptors. During high winds, extended dry periods or after recent movement of material, stockpiles should be stabilised and/or covered to prevent wind-blown dust. Short-term or temporary controls may include water sprays, although sheeting, grass seeding or high fences may be more suitable depending on the proposed use of the material. The shape of the stockpiles should also be considered, whereby several smaller piles should reduce wind-blown material compared to few, larger piles.</p> <p>The DMP should also outline:</p> <ul style="list-style-type: none"> • An adequate and appropriate monitoring programme, including periodic checks and continuous monitoring; • Ameliorative measures to mitigate effects, such as the provision of wheel-wash facilities, road cleansing, speed restrictions, sheeting of vehicles; and, • Working programmes/site design and layout, with the location of dust emission sources away from sensitive development, protection of loading/unloading activities and materials storage areas, control of soil handling and overburden stripping including timing to suit weather conditions. <p>Any concrete batching that occurs on site should be done in accordance with Process Guidance Note 3/1 (04) and is</p>	<p>Requirements 6 and 10 requires a DMP to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCP as approved.</p>

Table 18-1 Construction Schedule of Mitigation			
Number	Chapter	Mitigation Measure	Securing Mechanism
		<p>regulated under the Environmental Permitting Regulations 2010. Concrete batching will be in accordance with the appropriate permitting regime. Given weather conditions at the site, stockpiles and depots will not be located near the site boundary and away from Q1 and Q6.</p> <p>Prevention or potential pollution events will be minimised by undertaking dust generating activities off-site, however, where this is not possible these activities will be located away from residential properties.</p>	
41	14	A specification for baseline air quality monitoring will be prepared	<p>Requirements 7 and 14 require an Air Quality Baseline Monitoring Plan to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction.</p> <p>Requirement 7 requires the Applicant to comply with the Plan as approved.</p>
42	15	To ensure safety to recreational users during the construction and decommissioning phases, temporary closures and diversions of PRowWs, permissive routes and CROW land will be implemented.	This is to be secured through the DCO
43	16	<p>During night and periods of darkness directional security lighting will be used.</p> <p>To minimise impacts on Environmental Zones in the area, the Development will conform to the requirements of the Obtrusive Light Limitations for Exterior Lighting</p>	<p>Requirement 19 requires an External Lighting Plan to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 19 requires the Applicant to</p>

Table 18-1 Construction Schedule of Mitigation			
Number	Chapter	Mitigation Measure	Securing Mechanism
		Installations as stated in the T&CPA decision.	comply with the Plan as approved.
44	16	<p>A HASP will be prepared to regulate on-site activities and achieve a high level of safety and continuous improvement. Regular training and safety inspections will also be carried out.</p> <p>A Permit to Work system will be used during construction to ensure that only authorised construction personnel are on site and that an accurate record of site based personnel is available in case of emergency. Inductions will be undertaken for all staff and workers onsite.</p> <p>Site security during the construction phase will be strict. Access to the site will be prevented by the use of temporary fencing to prevent unauthorised access. A compound for the temporary storage of equipment or materials will be provided. This will be locked with restricted access.</p>	<p>Requirement 7 requires a HASP to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction.</p> <p>Requirement 7 requires the Applicant to comply with the HASP as approved.</p>
45	16	<p>Principal Contractor will be responsible for the removal and disposal of all packaging and other waste materials that arise during construction and commissioning.</p> <p>Slate waste will be re-used on site wherever possible in dam construction and tracks and excess spoil mounds will be landscaped to encourage natural re-colonisation of vegetation.</p>	<p>Requirements 6 and 8 require a WMP to be submitted to and approved by Gwynedd Council and NRW in writing as part of the CoCP prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCP as approved.</p>

Table 18-2 Operation Schedule of Mitigation			
Number	Chapter	Mitigation Measure	Securing Mechanism
1	4	In order to maintain the security of the Development, appropriate and continuous security fencing will be provided onsite.	<p>Requirement 18 states that a fencing scheme must be submitted to and approved by Gwynedd Council prior to commencement of the authorized development.</p> <p>Requirement 18 states that the Applicant must implement the approved fencing scheme in accordance with the approved details.</p>
2	6	The spoil mounding to the south west of Q1 has been located and designed to minimise visual effect and be sympathetic in scale, gradient and angle of slope to the surrounding post-industrial quarry landscape. The spoil mounds have been designed to encourage natural re-colonisation of vegetation where practical to soften their appearance, reduce erosion, and encourage greater biodiversity.	<p>Requirement 6 states that a Landscaping and Reinstatement Plan must be submitted to and approved by Gwynedd Council in writing as part of the CoCP prior to commencement of the authorised development.</p> <p>Requirement 6 states that the Applicant must implement the approved Plan in accordance with the approved details.</p>
3	6	Existing vegetation which has naturally re-colonised the site will be retained where practicable.	<p>Requirement 6 states that a Landscaping and Reinstatement Plan must be submitted to and approved by Gwynedd Council in writing as part of the CoCP prior to commencement of the authorised development.</p> <p>Requirement 6 states that the Applicant must implement the approved Plan in accordance with the approved details.</p>

Table 18-2 Operation Schedule of Mitigation			
Number	Chapter	Mitigation Measure	Securing Mechanism
4	7	To minimise the likelihood of the system containing nutrient-rich water, water quality will be monitored in the reservoirs and in Llyn Padarn during abstraction.	To be secured though the conditions of the operational Environmental Permits.
5	7	To reduce the likelihood of the Development causing temperature change of the Afon Gwyrfa a low-friction system will be used.	To be secured though the conditions of the operational Environmental Permits.
6	7	Once operational, the operator of the proposed development will liaise directly with NRW on a regular basis to maintain communication about the presence of any new invasive species. Should any new species be identified in Llyn Padarn, the operator will work with NRW to facilitate a treatment programme of the waters contained with the reservoirs as necessary and as appropriate and to stop any planned discharges from Q1 to the Nant-y-Betws. This will prevent cross contamination between catchments.	To be secured though the conditions of the operational Environmental Permits.
7	10	To avoid the potential of flood risk downstream, excess water entering the system through natural inflows or inflows from drainage will need to be released to Llyn Padarn to maintain the levels at or below the normal operating level. An Excess Water Management Strategy will be implemented for any operational discharges	Requirement 20 requires an Excess Water Management Strategy to be submitted to and approved by Gwynedd Council and NRW in writing prior to the commencement of construction. Requirement 20 requires the Applicant to comply with the Excess Water Management Strategy as approved.

Table 18-2 Operation Schedule of Mitigation			
Number	Chapter	Mitigation Measure	Securing Mechanism
9	13	<p>Noise from the power station's turbines, generators and associated equipment will be contained below ground level by significant structural components (concrete slabs, air lock doors, etc.). It is expected that airborne noise flanking between this equipment (at depth) and ground level will be suitably mitigated by design to achieve appropriate operational noise limits at NSRs.</p> <p>Noise levels emitted by the switchgear and workshop can be easily mitigated by the building fabric and mechanical ventilation design, and distance attenuation to NSRs.</p> <p>The rating levels of the noise emissions will be determined following guidance from BS 4142, and will include consideration for any acoustic features such as tonality, impulsivity and intermittency.</p>	<p>Requirements 6 and 11 requires an Operational Noise Assessment to be submitted to and approved by Gwynedd Council and NRW in writing as part of the Noise Management plan required in the CoCP prior to the commencement of construction.</p> <p>Requirement 6 requires the Applicant to comply with the CoCP as approved.</p>
10	16	<p>The plant will have in place a health, safety and environmental integrated management system assured under ISO 18001, ISO 9001 and ISO 14001 or equivalent international standards. The Environmental Management System (EMS) will incorporate environmental control procedures, which will be regularly independently audited and certified.</p>	<p>Through the operator's environmental management system</p>

Table 18-3 Decommissioning Schedule of Mitigation			
Number	Chapter	Mitigation Measure	Securing Mechanism
1	9	Mitigation will be undertaken as per the conditions of the Decommissioning Plan. The rate of discharge and any monitoring regime will be agreed at the appropriate time with NRW.	Requirement 23 requires a Decommissioning Plan to be submitted to and approved by Gwynedd Council and NRW in writing prior to the expiry of the life of the development. Requirement 24 requires the Applicant to comply with the Plan as approved.
2	15	Mitigation includes temporary closures and diversions of PRowS, permissive routes and CROW land within the development site to ensure safety to recreational users during the construction and decommissioning phases	Requirement 23 requires a Decommissioning Plan to be submitted to and approved by Gwynedd Council and NRW in writing prior to the expiry of the life of the development.. Requirement 24 requires the Applicant to comply with the Plan as approved.
3	16	Waste generated during the decommissioning phase will be subject to the Decommissioning Plan and, as stated, the principles of the waste hierarchy will be followed.	Requirement 23 requires a Decommissioning Plan to be submitted to and approved by Gwynedd Council and NRW in writing prior to the expiry of the life of the development. Requirement 24 requires the Applicant to comply with the Plan as approved.