

Emm Brook Pond: Environmental Risk Assessment

Version 1.0

Table 1 – Environmental Risk Assessment for construction of Emm Brook Pond

Ref	Hazards	Receptor / Pathway	Consequences	Methodology / Risk Management Technique	Risk Level
1	Non-native organisms	Surrounding environment via plant machinery and personnel	Environmental impact by spreading unwanted organisms around the site and exporting off-site	Follow DEFRA's 'Check, Clean, Dry' guidance. All staff, contractors and volunteers to be reminded of biosecurity measures whenever coming onto site. Inclusion of biosecurity in site inductions, risk assessments and method statements. Training of site operatives to ensure they understand the importance of biosecurity, can identify species which pose a biosecurity risk, and are fully aware of the potential vectors for INNS species. Mechanical cleaning and disinfection of personnel, kit, tools and machinery before entering and leaving site. PPE and clothing will be cleaned before being brought on and off site to eliminate transferal of any unwanted alien diseases or species. Vehicles are to be parked away from site on suitable parking area. All tools, equipment and clothing to be checked for propagules prior to being brought onto site.	Med -> Low
2	Protected Species	Protected species impacted by works	Injury, disturbance or death to protected species	Preliminary Ecological Appraisal was undertaken in 2023. Habitat in the project area is suitable for protected species including bats, otters and great crested newts. A walkover survey of the works area and buffer zone prior to construction by will be conducted. Although great crested newts are not known to be present on site (negative eDNA results), work will take place under a precautionary method statement. Toolbox talks delivered to all contractors to understand otters, bats, great crested newts and their ecology.	Med -> Low

				SERT will continuously monitor for signs of any BAP or protected species and pause works if works are likely to cause harm to these species. <i>*Works are likely to support protected species in the long term by providing high value habitat on site.</i>	
3	Large, heavy plant machinery	Protected species and other wildlife impacted	Injury, disturbance or death to wildlife	All plant to utilise bio-degradable hydraulic oil as per Environment Agency guidance. A daily check of machinery stored near to the watercourse overnight, to ensure no otters are present within the machinery. A daily check of track routes and excavations will take place each morning to ensure no wildlife present within work area at risk of harm before daily work commences.	Med -> Low
4	Noise and vibration	Surrounding environment & local residents by machinery	Disturbance, injury or death caused by stress	Use of heavy and loud plant to be restricted to between 8am and 6pm. Use of low ground pressure tracks on plant.	Med -> Low
5	Pollution	Surrounding environment and local residents by heavy plant machinery. Pollution can be airborne or through water	Contamination of water or pollution of air as a result of fumes, oil or rubbish	All plant to utilise biodegradable hydraulic oil. Fuel to be kept in double banded fuel container, and as far from watercourse as possible within the compound area. Appropriate spill kits in each item of plant. Plant nappies to be placed under machinery when not in use and overnight Use of low emission plant. Refuelling of plant to take place in a designated area on spill trays, as far from watercourse as possible. Personnel to take rubbish home and recycle where possible.	Med -> Low
6	Ground Damage	Surrounding environment by heavy plant machinery	Compacted soil and damage to flora	Use of low ground pressure tracks on plant. Plant / machinery to adhere to agreed access routes. Use correct size of plant for the job. Root protection zones will be marked out prior to construction. Works to be timed when the ground is as dry and hard as possible. SERT will reinstate affected ground after works. Existing Greenway will be protected with ground protection where trackways at risk of damage. SERT will reinstate any affected section of Greenway after works.	Med -> Low

7	Flooding	Households affected, land. Waterborne illnesses.	Households / land flooded	Project Manager to ensure restoration works follow consented plans. All materials and tools to be removed from floodplain prior to leaving site. Works discussed with EA FRAP team and outside of the FRAP consent. SERT will sign up to Environment Agency flood warnings and obtain regular weather data updates. <i>*Works will not affect flood risk in the long term.</i>	Low -> Low
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