

Risk Assessment

**Risk assessment for land spreading activity at The Dderw Farm, Llyswen, Brecon, LD3 0UT.
Risk assessment Reviewed by Dawn Loos December 2025.**

| Data | | | | Judgement | | | | Action | |
|---|--|--|--|---|---|---|---|--|--|
| <i>Receptor</i> What is at risk? What do I wish to protect? | <i>Source</i> The agent or process with potential to cause harm | <i>Harm</i> The harmful consequences if things go wrong | <i>Pathway</i> How the receptor might come into contact with the source | <i>Probability of exposure</i> How likely is this contact? | <i>Consequence</i> Severity of the consequences if this occurs | <i>Magnitude of risk</i> The overall magnitude of the risk | <i>Justification for magnitude</i> Basis of my judgement | <i>Risk management</i> How I can best manage the risk to reduce the magnitude | <i>Residual risk</i> Magnitude of the risk after management |
| Surface water – ditches, watercourses and ponds | Nutrients, aluminium, and organic matter | Surface water pollution | Surface run-off | Medium | High | Medium | Proximity of ditches and under drainage. Low pollution potential of material. | Comply with Water Code, NVZ, Cross Compliance, Sludge Regs and EPR. No spreading areas to be observed as per attached plans. | Low |
| Groundwater | Nutrients, Aluminium, PTE's | Groundwater pollution | In appropriate application. | Medium | Medium | Low | WTW Sludge has very low concentrations of PTE's, and nutrients. Aluminium insoluble. Rate and timing of application as per PQA. | Comply with Water Code NVZ, EPR and Sludge Regs. | Low |
| Soils | Physical damage to soil structure | Damage to soil structure and poor subsequent crop yields | Delivery and spreading activity | Low | Medium to high | Low | Delivery and spreading to be undertaken when e ground conditions are suitable. | Comply with Soil Code and Cross Compliance Criteria. Apply only in suitable conditions. | Low |
| Soils | Nutrients, Aluminium, and PTE's | Build up of nutrients. and/or PTE's | Spreading activity | High | Medium to high | Low | WTW sludge analysis. Soil analysis. Appropriate rates of application. | Apply per PQA, RB209 and Soil Code. | Low |

Risk Assessment continued

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| Local human population and wildlife | Spreading activities – physical | Harm to humans or animals | Trespass, accidental contact | Low | Medium | Low | Agricultural areas with limited public access. Minimum 3 week non-utilisation period. | Application during appropriate conditions and awareness of access issues. | Low |
| Local human population | Odour during spreading activity | Odour issues/complaints | Airborne compounds | Low | Low | Low | WTW sludge has no odour. | Comply with Air Code. | Low |
| Local human population | Releases of airborne dusts/ particulate matter | Harm to human health - respiratory irritation and illness. | Air transport then inhalation | Low | Medium | Low | Waste has a low potential to produce airborne dust and particulate matter. | Waste will be applied in accordance with CoGAP and EMS. | Low |
| Local human population | As above | Nuisance dust on cars, clothing etc. | Deposition from air | Low | Low | Low | As above | As above | Low |
| Local human population | Emissions; litter | Nuisance loss of amenity and harm to pet health | Transport through air | Low | Low | Low | Waste does not contain litter as it derives from a controlled manufacturing process. | Waste will be applied per Codes of Good Agricultural Practice and SR2010No4 EMS. | Low |
| Local human population | Noise | Noise complaints | Noise from delivery, and spreading | Low | Low to Medium | Low | Agricultural machinery in agricultural areas. | Avoid sensitive spreading periods e.g. e.g. bank holidays and weekends. Delivery during daylight hours. | Low |
| Local human population | Pests (e.g. flies) | Harm to human health, nuisance, loss of amenity | Air transport and over land | Low | Low | Low | WTW sludge does not attract scavenging animals and flies. | WTW sludge will be stored, transported and spread in accordance with conditions set in SR2010No4 permit, CoGAP and Duty of Care. | Low |

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| Local human population and local environment | Emissions; litter and mud on local roads | Nuisance, loss of amenity, risk of accident | Vehicles entering and leaving site | Medium | Medium | Medium | Road safety. Tractors/spreaders trailing mud and debris from fields. | Operation will not cause any additional effects on surrounding roads than normal agricultural practice occurring in the surrounding area. Application of waste will condition the soil and improve workability, which reduces environmental impact associated with spreading. | Low |
| Hedgerows and trees | Physical damage from spreading equipment | Ecological & landscape | Physical damage from spreading equipment | Low | Low | Low | Professional contractors employed instructed to take care around trees. | Leave a 2.0m, minimum buffer zone adjacent to trees and hedgerows. | Low |
| Derw Wood SINC | Nutrients PTEs Dusts Noise | Ecological Protection of habitat, flora and fauna | -Surface run-off Airborne compounds Noise from delivery and spreading | Low | Medium | Medium | Proximity of protected site (within 500m) Particularly sensitive nature of site Waste streams have low potential to produce airborne dust and particulate matter Agricultural machinery in agricultural areas Delivery to storage area is >250m away from designated area | Apply according to PQA Non-spreading buffer zone applied to where SINC borders fields No activity to take place within designated areas | Low |

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|---|-------------------------------------|---|---|-----|--------|--------|---|--|-----|
| Restored Ancient Woodland | Nutrients PTEs Dusts Noise | Ecological Protection of habitat, flora and fauna | -Surface run-off Airborne compounds Noise from delivery and spreading | Low | Medium | Medium | Proximity of protected site (within 500m) Particularly sensitive nature of site Waste streams have low potential to produce airborne dust and particulate matter Agricultural machinery in agricultural areas Delivery to storage area is >250m away from designated area | Apply according to PQA Non-spreading buffer zone applied to where SINC borders fields No activity to take place within designated areas | Low |
| SSSI River Wye/Afon Gwy & SAC River Wye/ Afon Gwy | Nutrients PTEs Dusts Noise | Ecological Protection of habitat, flora and fauna | -Surface run-off Airborne compounds Noise from delivery and spreading | Low | High | Medium | Proximity of protected site (within 500m) Particularly sensitive nature of site (otters/fish/plant species) Waste streams have low potential to produce airborne dust and particulate matter Agricultural machinery in agricultural areas Delivery to storage area is >250m away from designated area | Apply according to PQA 20m non-spreading buffer zone applied to where SSSI borders fields and to watercourses that run directly into SSSI Avoid sensitive spreading periods eg. breeding season No activity to take place within designated areas | Low |