

Site Specific Risk Assessment

Risk assessment for proposed land-spreading activity – Bryn Farm, Ferwig, Cardigan, Ceredigion, SA43 1PL

Risk assessment carried out by: Mr Daniel James & Mrs Carys James Date: August 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, organic matter and solids	Surface water pollution	Direct application to surface water, underdrainage and run off	Low	High	Medium	No spread areas, buffer zones in place and accurate spreading with dribble bar.	Comply with COGAP, Sludge Regs and EPR. Spreading to be only undertaken when conditions are suitable. No spreading areas enforced as per plans attached to application.	Low
Groundwater /Soils	Nutrients and PTES	Groundwater pollution and excessive nutrient build up	Over-application to land	Low	High	Low	The materials have low PTEs to be applied at proposed rates as detailed in application. The materials are low in available nitrogen. Phosphate applied is equal to or less than crop recommendations or crop offtake.	Appropriate rate and timing of application. Comply with COGAP, EPR and Sludge Regs. Carry out soil analysis of all fields regularly. Fields spread with accurate dribble bar applicator into growing crops. No spreading within 50m of a spring, borehole or well.	Low
Humans and animals	Spreading activities – physical	Harm to humans or animals	Trespass, accidental contact	Low	Medium	Low	Agricultural areas with limited public access. No public footpaths through fields to be spread.	Application during appropriate conditions & awareness of access issues.	Low
Soils	Physical damage to soil structure	Damage to soil structure and poor subsequent crop yields	Delivery and spreading activity	Low	Medium	Low	Delivery and spreading to be undertaken under appropriate ground conditions using low ground pressure equipment.	Comply with COGAP and Cross Compliance Criteria. Apply only in suitable conditions.	Low

Risk Assessment continued

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Soils	PTE addition	Build-up of PTEs.	Spreading activity	Low	Medium	Low	Low levels of PTEs in wastes.	Comply with COGAP, Cross Compliance and Sludge Regs. Apply at specified rates. Soils sampled regularly.	Low
Soils	Nutrient build up	Reduced yield quality and quantity of subsequent crops, nutrient leaching, runoff to sensitive receptors & surface water	Spreading activity, over application	Low	Medium	Low	Wastes applied at specified rates. The materials are low in available nitrogen. Phosphate applied is equal to or less than crop recommendations/ crop offtake.	Apply according to RB209 recommendations and COGAP. Application rates in agricultural benefit statement not to be exceeded. Carry out soil analysis of all fields regularly.	Low
Air	Odour during temporary storage and spreading activities	Odour issues and complaints	Airborne compounds	Medium	Medium	Medium	Nearby residents can be sensitive to odour.	Spread with a low trajectory dribble bar applicator into growing crops. Prevailing wind direction will be monitored.	Low
Air	Dust during spreading	Dust complaints	Dust during windy conditions	Low	Low	Low	Materials are liquid and have low potential for dust.	Assess wind speed and direction before spreading and proximity to surrounding receptors. Spread when conditions are suitable.	Low
Air/People	Noise	Noise complaints	Noise from delivery, and spreading	Low	Low to Medium	Low	Agricultural machinery in agricultural areas.	Avoid sensitive spreading periods where possible e.g. bank holidays and weekends. Delivery during daylight hours where possible	Low
Hedgerows and trees	Physical damage from spreading equipment	Ecological + landscape	Physical damage from spreading equipment	Low	Low	Low	Experienced operators employed & instructed to take care around trees	Leave a 2.0m minimum buffer zone adjacent to trees, shrubs and hedges.	Low

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Aberarth-Carreg Wylan SSSI	Deterioration of site through contamination, nutrient enrichment, habitat loss, siltation, smothering	Harm to protected site through contamination, nutrient enrichment, disturbance etc.	Spreading activity, airborne compounds, flooding, nutrient run off or leaching	Low	Medium	Medium	No spreading areas to watercourses. Spread with a low trajectory dribble bar applicator into growing crops and spreading at appropriate timings. Closest fields: the spreadable area of field 15 is over 20m from the SSSI at the nearest point after no spread buffers have been applied, field 6 is 185m from SSSI at the nearest point, field 14 is 200m from SSSI at the nearest point. Field 7 is 250m from SSSI at the nearest point.	Assess wind speed and direction before spreading and proximity to surrounding receptors when spreading fields in relation to this SSSI. Spread when conditions are suitable with no or little wind and when the potential of any gusts is not in the direction of the SSSI. Material spread with a low trajectory dribble bar applicator into growing crops at low rates of application. 10m no spread areas enforced to watercourses. No spread buffers in field 15 ensure spreading area is over 20m from SSSI. Ensure field conditions are appropriate for spreading.	Low
Cardigan Golf Club	Odour during temporary storage and spreading activities	Odour issues and complaints, disturbance to golf business and recreational activities	Airborne compounds from spreading activities at Bryn Farm	Medium	Medium	Medium	Nearby outdoor recreational activities can be sensitive to odour.	Spread with a low trajectory dribble bar applicator into growing crops. Prevailing wind direction will be monitored prior & during spreading. This will be done through checking local weather forecasts prior to spreading & monitoring by the spreading team during spreading in case of any odour & gusts/change in wind direction towards golf course if there's any notable odour. Follow odour management plan & relevant actions.	Low

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Afon Teifi SSSI Afon Teifi is of special interest for a range of river types and associated riverside habitats; flowering plants; bryophytes; otter; Cetti's warbler; bottlenose dolphin; brown hairstreak; fish; dragonflies and a variety of other invertebrates as well as both breeding and wintering bird communities and for geomorphological features at Cenarth and Cors Caron. Ten tributaries; the Cych, Clettwr, Grannell, Ceri, Dulas, Piliau, Groes, Tyweli, Cerdin and Brefi, are also included in the site.	Deterioration of site through contamination, nutrient enrichment, habitat loss, siltation, smothering	Harm to protected site through contamination, nutrient enrichment, disturbance etc.	Spreading activity, airborne compounds, flooding, nutrient run off or leaching	Low	Medium	Medium	No spreading areas to watercourses. Spread with a low trajectory dribble bar applicator into growing crops and spreading at appropriate timings. Proximity of fields to SSSI.	Assess wind speed and direction before spreading and proximity to surrounding receptors when spreading fields in relation to this SSSI. Spread when conditions are suitable with no or little wind and when the potential of any gusts is not in the direction of the SSSI. Material spread with a low trajectory dribble bar applicator into growing crops at low rates of application. 10m no spread areas enforced to watercourses. Ensure field conditions are appropriate for spreading.	Low

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Afon Teifi SAC Habitat types and/or species for which this site is designated: Bullhead, River lamprey, Brook lamprey, Floating water plantain, Otter, Clear-water lakes or lochs with aquatic vegetation and poor to moderate nutrient levels, Sea lamprey, Atlantic salmon, Rivers with floating vegetation often dominated by water-crowfoot	Deterioration of site through contamination, nutrient enrichment, habitat loss, siltation, smothering	Harm to protected site through contamination, nutrient enrichment, disturbance etc.	Spreading activity, airbourne compounds, flooding, nutrient run off or leaching	Low	Medium	Medium	No spreading areas to watercourses. Spread with a low trajectory dribble bar applicator into growing crops and spreading at appropriate timings. Proximity of fields to SAC.	Assess wind speed and direction before spreading and proximity to surrounding receptors when spreading fields in relation to this SAC. Spread when conditions are suitable with no or little wind and when the potential of any gusts is not in the direction of the SAC. Material spread with a low trajectory dribble bar applicator into growing crops at low rates of application. 10m no spread areas enforced to watercourses. Ensure field conditions are appropriate for spreading.	Low
Local human population and local environment	Flooding of site	If waste is washed off site, it may contaminate buildings / gardens / natural habitats downstream.	Flood waters	Low	Medium	Medium	Spreading undertaken only on fields at appropriate timings.	No spreading in periods where heavy rain is forecast or if land is waterlogged. Spreading operator to employ 10m no spreading areas as per attached plans to watercourses.	Low