Risk Assessment – Fields Farm

Farm Name: Fields Farm
Address: Fields Farm, Field Lane, Willington, Tallarn Green,

Site Specific Risk Assessment for: Mobile Plant for Landspreading – SR2010No4 – Spreading EWC's 02 02 04, 02 02 02

Risk Assessment Carried out by: R G Street Date: 30/03/2026

Receptor What is the risk? What do I wish to protect?	***Source*** The agent or process with potential to cause harm	***Harm*** The harmful consequences if things go wrong	***Pathway*** How the receptor might come into contact with the source	***Probability of exposure*** How likely is contact?	***Consequence*** Severity of the consequences if this occurs	***Magnitude of risk*** The overall magnitude of the risk	***Justification for magnitude*** Basis of my judgement	***Risk management*** How I can best manage the risk to reduce the magnitude	***Residual risk*** Magnitude of the risk after management
Well Rough and Long Plantation *SSSI*	Nutrient enrichment (Nitrogen and Phosphorus]) pH-altering compounds (e.g. lime or alkaline waste materials) Potentially Toxic Elements (PTEs) Dust and particulates Odour Noise and light disturbance	Eutrophication Soil chemistry alteration Reduced biodiversity Harm to sensitive ground flora and fauna Impacts on watercourses and associated habitats	Surface runoff Leaching to groundwater or nearby watercourses Airborne deposition, volatilisation and dispersion Physical disturbance from agricultural machinery Noise and light disturbance during operations	Low	High	Moderate	The risk is moderate Ecologically Sensitive nature of the SSSI Proximity of spreading area and storage locations to the SSSI <500m Flora Sensitive to soil changes pH Waste is spread in accordance with COGAP.	• 10m buffer zone on all water courses, Ditches • Waste spread in accordance with COGAP. • Operations carried out using best available techniques. • Spreading to be carried out during appropriate weather conditions. • Regular checks of watercourses in the area surrounding the spreading operations • No travelling on the SSSI • SSSI clearly marked on deployment maps. • SSSI situated 490m North of deployment boundary. • Waste streams analysis	Low
Tallarn Green Moated site Scheduled monument	Physical damage of the monument	Damage to Tallarn Green Moated site	Physical disturbance from agricultural machinery	Low	High	Moderate	Waste is spread in accordance with COGAP.	• No spread zone implemented across the site • Monument clearly marked on site plans	

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Traditional Orchards Protected Habitat	Nutrient enrichment (Nitrogen and Phosphorus]) pH-altering compounds (e.g. lime or alkaline waste materials) Potentially Toxic Elements (PTEs) Dust and particulates Odour Noise and light disturbance	Soil chemistry alteration Reduced biodiversity Harm to protected orchards	Surface runoff Leaching to groundwater or nearby watercourses Airborne deposition, volatilisation and dispersion Physical disturbance from agricultural machinery Noise and light disturbance during operations	Low	High	Moderate	The risk is moderate Sensitive nature of the Orchards Proximity of spreading area and storage locations to the Orchards <500m Waste is spread in accordance with COGAP.	• 10m buffer zone on all water courses, Ditches • Waste spread in accordance with COGAP. • Operations carried out using best available techniques. • Spreading to be carried out during appropriate weather conditions. • No travelling on the orchard site • Waste streams analysis	Low
Purple Moor Grass and Rush Pastures Protected Habitat	Nutrient enrichment (Nitrogen and Phosphorus]) pH-altering compounds (e.g. lime or alkaline waste materials) Potentially Toxic Elements (PTEs) Dust and particulates Odour	Soil chemistry alteration Reduced biodiversity Harm to protected habitat	Surface runoff Leaching to groundwater or nearby watercourses Airborne deposition, volatilisation and dispersion Physical disturbance from	Low	High	Moderate	The risk is moderate Sensitive nature of the Orchards Proximity of spreading area and storage locations to the Orchards <500m Waste is spread in accordance with COGAP.	• 10m buffer zone on all water courses, Ditches • Waste spread in accordance with COGAP. • Operations carried out using best available techniques. • Spreading to be carried out during appropriate weather conditions. • No travelling on the protected habitat • Waste streams analysis	Low

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	Noise and light disturbance		agricultural machinery Noise and light disturbance during operations						
Protected Species	Nutrients (N, P), pH-altering compounds, PTEs Dust Odour	Altered cave water chemistry, Damage to calcareous features Nutrient enrichment altering soil and cave chemistry	Surface run off & leaching. Karst leaching Airborne Deposition/Volatilization Within the waste material	Low	High	Moderate	The risk is moderate due to the Sensitive nature/features of the SSSI Proximity to SSSI <500m SSSI Proximity to storage <500m Waste streams have low potential to produce dust Waste is spread in accordance with COGAP.	• 10m buffer zone on all water courses, Ditches – 50m buffer Springs/wells and boreholes • Waste spread in accordance with COGAP. • Operations carried out using best available techniques. • Spreading to be carried out during appropriate weather conditions.ie avoid wet conditions • Regular visual monitoring of nearby watercourses • Waste streams and soil analysis • No travelling/activity on the SSSI • SSSI clearly marked on deployment maps. SSSI situated 418m south of deployment boundary	Low
Ancient Woodlands Ancient woodland soils, ground flora,	Waste material Volatilised nitrogen/ammonia PTEs Dust and odour	Alteration of soil chemistry. Suppression of native woodland species	Surface run off & leaching. Surface run-off Aerial deposition. Dust drift	Low	High	Moderate	The risk is moderate due to the nature of the SSSI Proximity of spreading area and storage locations to the SSSI <500m	• 10m buffer zone on all water courses, Ditches • Low application rates • Waste spread in accordance with COGAP. • Operations carried out using best available techniques.	Low

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fungal and mycorrhizal communities, woodland-edge habitat	Machinery disturbance	Increased dominance of nutrient-loving plants Disturbance to woodland edge structure and microhabitats |	Trampling/disturbance by machinery				Waste streams have low potential to produce dust Waste is spread in accordance with COGAP.	• Spreading to be carried out during appropriate conditions. • Regular checks of watercourses in the area surrounding the spreading operations • No travelling on the woodland • Ancient woodland clearly marked on deployment maps.	

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Generic Risk Assessment for landspreading: Mobile Plant for Landspreading

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Local Human Population	Fugitive releases – litter and mud on road	Nuisance, risk of accident	Vehicles entering and leaving site	Medium	Medium	Medium	Road Safety, tractors / spreaders trailing mud and debris from fields	• Operations carried out in accordance with COGAP – ***Section 5.4 Timing of application.*** • Operators/drivers to carry out visual check on road – notify Field Manager	Low

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								• Storage tanks / stockpiles located to reduce the risk of mud on road. • Road sweeping to clean roads that are affected.	
Local Human Population	Releases of airborne dusts/ particulate matter	Harm to human health - respiratory irritation and illness.	Air transport then inhalation	Low	Medium	Low	Wastes spread are typically sludge or dewatered sludge with a very low potential to produce bio-aerosols and particulate matter	• Operations carried out in accordance with COGAP – Section 5.4 Timing of application. • Operators/drivers to carry out visual check on road – notify Field Manager • Storage tanks / stockpiles located to reduce the risk of mud on road. • Road sweeping to clean roads that are affected.	Low
Local Human population	Odour	Nuisance	Air transport	Medium	Medium	Medium	Local resident's sensitive to odour. Waste types have odour potential.	• Refer to Odour Management Plan • Operation to be carried out during normal agricultural working hours	Low
Local Human population	Noise and Vibration	Nuisance, loss of amenity, loss of sleep	Noise through the air and vibration through the ground	Low	Medium	Medium	Local residents often sensitive to noise and vibration.	• Specify equipment that does not cause excessive noise and vibration. • Regular maintenance/ checks to ensure equipment is operating as specified and not causing noise/vibration at nuisance levels. • Operation to be carried out during normal agricultural working hours.	Low
Local Human population	Scavenging birds and animals	Harm to human health, nuisance, and loss of amenity	Transport through air	Low	Medium	Medium	Wastes to be spread are unlikely to attract scavenging animals	• Wastes are unlikely to attract scavenging animals. • Where possible, wastes will be incorporated into the soil as soon as practical	Low
Local Human population	Pests (e.g., flies)	Harm to human health, nuisance	Transport through air	Low	Medium	Medium	Some potential for pests.	• Where possible, wastes will be incorporated into the soil as soon as practical.	Low
Local Human Population	Flooding of site	If waste is washed off site, it may contaminate buildings / gardens / natural habitats downstream.	Flood waters	Medium	Medium	Low	Waste is stored securely prior to land spreading	• Waste will be spread in accordance with COGAP – • If the site is in imminent danger of flooding, operations will cease, and equipment will be removed from risk area.	Low

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Local Human Population and / or livestock after gaining unauthorised access to the waste operation	All on site hazards, wastes, machinery, and vehicles	Bodily injury	Direct physical contact	Low	Low	Low	Waste is applied to private land with limited public access. Limited vehicle movement on site	• When site is unattended, operators will lock vehicles/plant and remove keys. • Site gates will be kept closed when site is unmanned. • Warning signs placed on plant/equipment.	Low
Local human population and local environment.	Arson and / or vandalism causing the release of polluting materials to air (smoke or fumes), water or land.	Respiratory irritation, illness, and nuisance to local population. Injury to staff, fire fighters or arsonists/vandals. Pollution of water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	Medium	Low	Low	Waste is applied to private land with limited public access.	• When site is unattended, operators will lock vehicles/plant and remove keys. • Site gates will be kept closed when site is unmanned. • Storage tanks valves and lids will be closed when the site is unmanned. • Operators will carry out a daily visual check of plant and equipment. • Refer to Environmental Accident Risk Assessment.	Low
Local human population and local environment.	Accidental fire causing the release of polluting materials to air (smoke or fumes), water or land.	Respiratory irritation, illness, and nuisance to local population. Injury to staff, fire fighters. Pollution of water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	Low	Low	Medium	Vehicles are maintained as per O-Licence requirements. Low potential of accident occurring	• Fire Extinguishers will be provided in all company vehicles. • Smoking in company vehicles is prohibited. • No wastes shall be burned on site and any fire at the site will be treated as an emergency.	Low
Surface Waters, ditches, and watercourses	Spillage of liquids, or leachate from stored wastes, contaminated rainwater run-off	Surface water pollution **Acute effects**: eutrophication, fish kill and algal blooms.	Run-off, leaching, land drains or direct contact with waste	Medium	Medium	Medium	Operation carried out on agricultural land that is likely to have surrounding watercourses and land drains.	• Minimum 10m buffer zone from all watercourses • Spreading/storage carried out in compliance with COGAP- • Site plan will identify watercourses/ditches.	Low

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		Closure of abstraction intakes. **Chronic effects:** deterioration of water quality						• Regular checks of watercourses / land drains in the area surrounding spreading/storage operations	
Local human population	Contaminated waters used for recreational purposes.	Harm to human health - skin damage or gastro-intestinal illness.	Direct contact or ingestion	Low	Medium	Low	Unlikely to occur	• See above	Low
Groundwater	Concentrations of nutrients in the waste	Contamination of groundwater: **Chronic effects:** contamination of groundwater, requiring treatment of water or closure of borehole.	Leaching through the soil	Medium	Medium	Medium	Waste is recycled to land and there is the potential to cause pollution	• No Spreading within 50m of any spring, well or borehole used to supply water for domestic or food production purposes. • No spreading within Groundwater Source Protection Zone 1 • Spreading/storage carried out in compliance with COGAP. • Limited application rates	Low
Local residents	Odour carried to public areas or centres of habitation during spreading	Public odour nuisance	Airborne	Low	Medium	Low	Sludge has low odour. Proximity and density of houses to proposed spreading activity.	• Operations carried out in accordance with Odour Management Plan • Spreading is carried out using Best Available Techniques to reduce potential of odour emissions.	Low
General public	Direct Contact with the waste. Odour from the sludge	Harm to humans or animals	Direct contact with waste	Medium	Low	Medium	Footpaths crossing all fields	• Application during appropriate conditions and awareness of public access to site. • Signs at site entrance to notify public of activities. • Footpaths noted on site plan.	Low

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Humans and animals	Spreading activities – physical	Harm to humans and animal health	Trespass, accidental contact	Low	Medium	Low to medium	Agricultural area with limited public access.	• Application during appropriate conditions and awareness of public access to site. • Signs at site entrance to notify public of activities. • Footpaths noted on site plan.	Low
Soil's structure	Physical damage from spreading activities.	Compaction, damage to soil structure, Build-up of contaminants	Spreading activities	Medium	Medium	Medium	Permitted wastes may contain contaminants	• Wastes analysed regularly to identify nutrient, PTE content and application rate set accordingly to comply with current regulations and limits. • Waste spread in accordance with COGAP • Waste spread in accordance with site deployment form. • Regular soil analysis	Low