

Risk Assessment for Metal Shredding Installation

Table A - Assessment of Odour Risks

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the Overall Risk?
<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>		<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High / Very High)</i>
Release of odour from infeed	Human receptors detailed in Sensitive Receptor Plan and Table	Air	Waste Acceptance Procedures enforced through site's EMS ensure odorous wastes are not accepted on site.	Very Low	Nuisance - odour annoyance will have more impact in summer when people are outdoors and temperatures are higher Loss of amenity	Very Low
Release of odour from shredder residue	Human receptors detailed in Sensitive Receptor Plan and Table	Air	Daily odour inspections carried out in accordance with Site Inspection Sheet. Stockpile limits and prompt dispatch of shredder residue to disposal facility. Odour Management Plan to be created in the unlikely event of odour becoming an issue. Operation in accordance with EMS and Waste Acceptance Procedure prevent the acceptance of odorous waste which prevent the generation of odorous shredder residue.	Very Low Shredder residue has very low associated odour	Nuisance - odour annoyance will have more impact in summer when people are outdoors and temperatures are higher Loss of amenity	Very Low

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Release of odour from fuels or oil	Human receptors detailed in Sensitive Receptor Plan and Table	Air	<p>Fuels and oils stored within double skinned or bunded tanks and containers.</p> <p>Daily checks completed on containers as per Site Inspection Sheet.</p> <p>Odour Management Plan to be created in the unlikely event of odour becoming an issue.</p> <p>Filling, storage and dispatch of oils and fuel completed in accordance with EMS.</p>	Very Low	<p>Nuisance - odour annoyance will have more impact in summer when people are outdoors and temperatures are higher</p> <p>Loss of amenity</p>	Very Low
Release of odour from fixed plant engines and generators	Human receptors detailed in Sensitive Receptor Plan and Table	Air	<p>Generators and engines are regularly inspected as part of pre-use checks.</p> <p>Generators and engines undergo regular maintenance and servicing to ensure efficient operation.</p> <p>Odour Management Plan to be created in the unlikely event of odour becoming an issue.</p>	Low	<p>Low</p> <p>Nuisance - odour annoyance will have more impact in summer when people are outdoors and temperatures are higher</p> <p>Loss of amenity</p>	Low



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Table B - Assessment of Noise and Vibration Risks

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the Overall Risk?
<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will be completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High / Very High)</i>
Noise and vibration created by mobile plant (cranes, shovel loaders etc.)	Human receptors detailed in Sensitive Receptor Plan and Table	Noise - through the air Vibration through the ground	Operation in accordance with EMS. Regular maintenance of mobile plant and timely servicing in line with manufacturer guidelines. Mobile plant switched off when not in use. Noise and vibration assessments are completed as part of pre-use checks. Waste Acceptance Procedure minimises the probability of moving waste into the Quarantine Area using mobile plant.	Low to Medium	Nuisance Loss of amenity Disruption at weekend to human receptors as noise and vibration would have more impact when more people are at home Loss of sleep to human receptors as noise and vibration would have more impact at night Potential increased noise and vibration annoyance in summer when people are outdoors and have windows/door open	Low



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Table B - Assessment of Noise and Vibration Risks

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the Overall Risk?
<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High / Very High)</i>
Noise and vibration created by handling/loading of scrap metal into shredder	Human receptors detailed in Sensitive Receptor Plan and Table	Noise - through the air Vibration through the ground	Operation in accordance with EMS. Site layout and staff understanding of operations minimises the waste handling. During vehicle tipping/unloading, waste movement and shredder infeed is placed rather than dropped. Noise Management Plan to be created if noise was identified as being a significant issue.	Medium	Nuisance Loss of amenity Disruption at weekend to human receptors as noise and vibration would have more impact when more people are at home Loss of sleep to human receptors as noise and vibration would have more impact at night Potential increased noise and vibration annoyance in summer when people are outdoors and have windows/door open	Low to Medium



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Table B - Assessment of Noise and Vibration Risks

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the Overall Risk?
<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will be completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High / Very High)</i>
Noise and vibration created by shredders (and associated infrastructure)	Human receptors detailed in Sensitive Receptor Plan and Table	Noise - through the air Vibration through the ground	Operation in accordance with EMS. Shredders are only operational when there is sufficient infeed. Shredders are maintained by experienced Operatives who understand the plant and complete regular maintenance when required. Shredders are maintained by experienced Operatives who have a greasing/lubricating regime on the shredders to reduce noise.	Medium	Nuisance Loss of amenity Disruption to weekend to human receptors as noise and vibration would have more impact when more people are at home Loss of sleep to human receptors as noise and vibration would have more impact at night Potential increased noise and vibration annoyance in summer when people are outdoors and have windows/door open	Low to Medium



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<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High / Very High)</i>
Noise and vibration created by flame events within shredder	Human receptors detailed in Sensitive Receptor Plan and Table	Noise - through the air Vibration through the ground	Waste Acceptance Procedure, Quarantine Area and wider operations in accordance with the EMS. ENICOR receives waste from trusted, long-standing Suppliers or contractors with minimal gate trade. This allows for ENICOR to have strong control over the waste received and accepted on site. ENICOR breaks open bales to inspect waste before shredding. Shredder operations are monitored by experienced Operatives who can identify fire very quickly and take required action.	Low to Medium	Nuisance Loss of amenity Disruption at weekend to human receptors as noise and vibration would have more impact when more people are at home Loss of sleep to human receptors as noise and vibration would have more impact at night Potential increased noise and vibration annoyance in summer when people are outdoors and have windows/door open	Low to Medium



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<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will be completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High / Very High)</i>
Noise and vibration created from fixed plant engines and generators	Human receptors detailed in Sensitive Receptor Plan and Table	Noise - through the air Vibration through the ground	Blending of grades ensures smooth and efficient shredding and a consistent use of power to minimise noise and vibration. Generators and engines undergo regular maintenance and servicing to ensure efficient operation. Generators and engines are regularly inspected as part of pre-use checks. Odour Management Plan to be created in the unlikely event of odour becoming an issue.. Operation of shredder is continual rather than stop/start.	Low	Nuisance Loss of amenity Disruption to weekend to human receptors as noise and vibration would have more impact when more people are at home Loss of sleep to human receptors as noise and vibration would have more impact at night Potential increased noise and vibration annoyance in summer when people are outdoors and have windows/door open	Low



Risk Assessment for Metal Shredding Installation

Table C - Assessment of Fugitive Emission Risks

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the Overall Risk?
<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will be completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High / Very High)</i>
Release of particulate matter (dust) from loading of infeed	Human receptors detailed in Sensitive Receptor Plan and Table Nature receptors detailed in Sensitive Receptor Plan and Table	Air	Waste Acceptance Procedure and EMS prevent the acceptance of excessively dusty wastes. Wastes unsuitable for shredding to be removed and placed in the Quarantine Area. Waste is placed rather than dropped onto infeed conveyor. Ongoing checks on particulate generation completed by experienced Operatives using visual inspection and CCTV.	Low	Respiratory irritation and illness	Low



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<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will be completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High / Very High)</i>
Release of particulate matter (dust) from shredding process	Human receptors detailed in Sensitive Receptor Plan and Table Nature receptors detailed in Sensitive Receptor Plan and Table	Air	Water injection into the shredding chamber Waste Acceptance Procedure and EMS prevent the acceptance of excessively dusty wastes.	Low	Respiratory irritation and illness	Low



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<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will be completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High / Very High)</i>
Release of particulate matter (dust) from post-shredding separation processes and conveyors	Human receptors detailed in Sensitive Receptor Plan and Table Nature receptors detailed in Sensitive Receptor Plan and Table	Air	Damp shredding process/water injection into shredding chamber so outputs will be damp. Post-shredding separation is completed in enclosed plant. Use of conveyors reduces release of particulates.	Low	Respiratory irritation and illness	Low
Release of particulate matter (dust) from stockpiling of wastes and residues.	Human receptors detailed in Sensitive Receptor Plan and Table Nature receptors detailed in Sensitive Receptor Plan and Table	Air	All residues are damp due to water injection into the shredding chamber during the process. ENICOR minimises the quantity and storage time of residues on site with prompt dispatch for disposal or further recycling at alternative sites. Inspection by Operatives in accordance with the Site Inspection Sheet. Overall good housekeeping followed in accordance with the EMS.	Medium	Respiratory irritation and illness	Low to Medium



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Raising of particulate matter (dust) from site surface	Human receptors detailed in Sensitive Receptor Plan and Table Nature receptors detailed in Sensitive Receptor Plan and Table	Air	Waste storage and treatment areas are on impermeable concrete paving which assists in dust control. Dampening of impermeable concrete paving when required. Inspection by Operatives in accordance with Site Inspection Sheet. Overall good housekeeping followed in accordance with EMS.	Medium	Respiratory irritation and illness	Low to Medium



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Release of particulate matter (dust) from flame events	Human receptors detailed in Sensitive Receptor Plan and Table Nature receptors detailed in Sensitive Receptor Plan and Table	Air	Waste Acceptance Procedure, Quarantine Area and wider operations in accordance with the EMS. ENICOR receives waste from trusted, long-standing Suppliers or contracts with no gate trade accepted. This allows for ENICOR to have strong control of the waste received and accepted on site. Water injection into the shredding chamber so stored residues are damp during post-shredding storage. Minimise quantity and storage time of residues on site. 'Site Fire Procedure' in Accident Mananagement Plan. Fire Prevention Plan EA approved. ENICOR follow the FPP guidelines.	Low to Medium	Respiratory irritation and illness	Low to Medium



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Release of Volatile Organic Compounds (VOCs) from fuel and oil storage areas	Human receptors detailed in Sensitive Receptor Plan and Table Nature receptors detailed in Sensitive Receptor Plan and Table	Air	Fuels and oils are stored on impermeable concrete paving with a sealed drainage system. Fuels and oil stored in bunded or double skinned tanks. Where possible, fuel and oil are locked away when not in use. Any associated pipework is placed over drains and/or within the bund. Operatives trained in using and storing oil and fuel to minimise spillage. Operatives are trained in dealing with fuel or oil spillage.	Low	Respiratory irritation and illness	Very Low

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Contaminated site run-off or processing waters	Controlled waters	Direct run-off from site across ground surface or via drainage system	ENICOR does not discharge water from the sealed and bunded drainage system.	na	na	na



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Contaminated site run-off or processing waters	Groundwater	As above	As above	na	na	na
Litter	Human receptors detailed in Sensitive Receptor Plan and Table Nature receptors detailed in Sensitive Receptor Plan and Table	Air transport and deposition	Wastes accepted by ENICOR are not usually associated with the generation of litter. Waste Acceptance Procedure and accordance with the EMS. Inspection by Operatives in accordance with Site Inspection Sheet. >4m high perimeter boundary to prevent any litter being blown off site.	Low	Nuisance Loss of amenity Harm to human or animal health	Low



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Mud and debris	Human receptors detailed in Sensitive Receptor Plan and Table	Vehicles entering and leaving the site	Impermeable concrete paving across waste storage and treatment areas reduce the mud available for distribution. Dampening of shredder residue preventing distribution on site. Minimise waste storage time on site. Inspection by Operatives in accordance with Site Inspection Sheet. Good overall housekeeping maintained in accordance with EMS. >4m high perimeter boundary to prevent any litter being blown off site.	Low to Medium	Nuisance Loss of amenity Road traffic accidents	Low



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Pests (vermin, flies etc)	Human receptors detailed in Sensitive Receptor Plan and Table Nature receptors detailed in Sensitive Receptor Plan and Table	Air transport and over land	Waste Acceptance Procedures and accordance with the EMS. Waste types unlikely to attract scavenging animals and birds. Operator checks in accordance with the Site Inspection Sheet. Creation of Pest Management Plan in the unlikely event of this being identified as an issue.	Very Low Accepted waste types are not readily biodegradable and unlikely to attract vermin or flies	Harm to human health from waste carried off sites and faeces Nuisance Loss of amenity	Very Low



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Scavenging animals and birds	Human receptors detailed in Sensitive Receptor Plan and Table	Air transport and over land	Waste Acceptance Procedures and accordance with the EMS. Waste types unlikely to attract scavenging animals and birds. Operator checks in accordance with the Site Inspection Sheet. Creation of Pest Management Plan in the unlikely event of this being identified as an issue.	Very Low Accepted waste types unlikely to attract scavenging birds or animals	Harm to human health from waste carried off sites and faeces Nuisance Loss of amenity	Very Low



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Table D - Assessment of Accident Risks

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the Overall Risk?
<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High / Very High)</i>
Flame event within shredder causing the release of polluting materials to air (smoke, dust and fumes)	Human receptors detailed in Sensitive Receptor Plan and Table Nature receptors detailed in Sensitive Receptor Plan and Table	Air transport of smoke and dust and/or shock waves.	Waste Acceptance Procedure, Quarantine Area and wider operations in accordance with the EMS. Enicor receives waste from trusted, long-standing Suppliers or contracts with minimal gate trade. This allows for Enicor to have strong control of the waste received and accepted on site thus reducing risk of releasing pollutants to air from shredder fire. All waste is inspected before shredder feeding and during the shredding process by experienced Operatives by CCTV so unauthorised wastes can be identified quickly.	Low to Medium	Respiratory irritation Illness and nuisance to local population Injury to staff or fire fighters	Low to Medium



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Table D - Assessment of Accident Risks

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Fire: Ignition of waste materials causing the release of smoke.	Human receptors detailed in Sensitive Receptor Plan and Table Nature receptors detailed in Sensitive Receptor Plan and Table	Air transport of smoke.	As above. Wastes are segregated and stored away from ignition sources. Operatives trained in extinguishing fires on site where possible and the Site Fire Procedure in Accident Management Plan. Good housekeeping in accordance with the Site Inspection Sheet. Waste stockpiles size and storage time are minimised. Designated fire fighting equipment and exclusive extinguishing water.	Low	Respiratory irritation Illness and nuisance to local population Injury to staff or fire fighters	Low to Medium



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Table D - Assessment of Accident Risks

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Fire causing contaminated surface water or fire fighting water	Nature receptors detailed in Sensitive Receptor Plan and Table	Direct run-off of fire fighting waters from site across ground surface, or via drainage system	Enicor does not discharge water from the sealed and banded drainage system. All water is retained on site.	Low	Acute effects: oxygen depletion, fish kills and algal blooms.	Low
Arson and/or vandalism causing the release of polluting materials to air (smoke and fumes)	Human receptors detailed in Sensitive Receptor Plan and Table Nature receptors detailed in Sensitive Receptor Plan and Table Injury to staff, vandals or fire fighters	Air transport of smoke.	Vast security measures due to the high value of waste, including: >4m perimeter boundary physical security presence on site during non-operational hours, 24/7 monitored CCTV, lockable front gates.	Low	Respiratory irritation Illness and nuisance to local population Injury to staff or fire fighters	Low to Medium



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Arson and/or vandalism causing contaminated surface water or fire fighting waters	Nature receptors detailed in Sensitive Receptor Plan and Table	Direct run-off of fire fighting waters from site across ground surface, or via drainage system	As above. All waste storage and treatment areas are on impermeable concrete paving with a sealed drainage system. No water discharged from site.	Low	Acute effects: oxygen depletion, fish kills and algal blooms.	Low
Arson and/or vandalism causing contaminated surface water or fire fighting waters	Groundwater	As above	As above.	na	na	na

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Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the Overall Risk?
<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High / Very High)</i>
On-site hazards: wastes, machinery and vehicles	Injury to unauthorised persons	Direct physical contact.	Vast security measures due to high value of waste, including: >4m perimeter boundary, physical security presence on site during non-operational hours, 24/7 monitored CCTV, lockable front gates.	Low	Bodily injury or death	Low
Spillages or leaks of fuel or oil from storage tanks or plant	Nature receptors detailed in Sensitive Receptor Plan and Table	Direct run-off from site across ground surface, or via drainage system	Fuel and oils only stored on impermeable concrete paving with a sealed drainage system. Tanks are double skinned, contained and locked away when not in use. Staff are trained in using fuel and oil effectively. Staff are trained in the Liquid Spillage Procedure. Integrity of fuel and oil storage tank is checked in accordance with the Site Inspection Sheet. All site plant are subject to pre-use checks and maintenance as well as being serviced in accordance with manufacturer guidelines.	Low	Acute effects: oxygen depletion, fish kills and algal blooms	Low



Risk Assessment for Metal Shredding Installation

Table D - Assessment of Accident Risks

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the Overall Risk?
<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High / Very High)</i>
Spillages or leaks of fuel or oil from storage tanks or plant	Nature receptors detailed in Sensitive Receptor Plan and Table	Direct run-off from site across ground surface, or via drainage system	As above.	Low	Chronic effects:pollution of groundwater requiring treatment of water or closure of boreholes	Low
Contaminated wastes, fuels or oils transported by flood	Human receptors detailed in Sensitive Receptor Plan and Table Nature receptors detailed in Sensitive Receptor Plan and Table	Flood waters	Fuel and oils only stored on impermeable concrete paving with a sealed drainage system. Tanks are double skinned, contained bunded and/or locked away when not in use. Site layout/construction means that site design, sealed drainage system, bunding and interceptor system will prevent the release of fuels and oils leaving the site. No water discharge point.	Low	Contamination of buildings, gardens and natural habitats downstream	Low

Enicor Ltd, South Fen Road, Bourne, Lincolnshire, PE10 0DN

Risk Assessment for Metal Shredding Installation

Table E - Assessment of Particulate Emissions to Air from Point Sources

NB - Enicor does not have any point source emissions to air.



Enicor Ltd, South Fen Road, Bourne, Lincolnshire, PE10 0DN

Risk Assessment for Metal Shredding Installation

Table F - Assessment of Emissions to Controlled Waters from Point Sources

NB - Enicor does not have any point source emissions to water.





Risk Assessment for Metal Shredding Installation

Table G - Assessment of risks posed by climate change

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the Overall Risk?
<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will be completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High)</i>
<p>Increased summer daily maximum temperature; Potential for increased waste reactions and fires involving:</p> <p>heat sensitive or combustible waste oil contaminated swarf frag light fractions oily rags</p>	<p>Human receptors (see sensitive receptor plan)</p> <p>Nature and Conservation Sites (see sensitive receptor plan)</p>	<p>Air transport of smoke and dust and/or shock waves.</p> <p>Direct run-off of fire fighting waters from site across ground surface, or via drainage system</p>	<p>See Accidents table.</p> <p>Site operated in accordance with a Fire Prevention Plan.</p> <p>Batteries are sorted, segregated and stored away from all other waste streams in accordance with the Environmental Permit.</p> <p>All flammable non-waste liquids are stored within the operational area which is guarded by the aforementioned security measures.</p> <p>Effective housekeeping in accordance with the EMP.</p> <p>Waste (quantities and duration) are stored in accordance with the Fire Prevention Plan.</p> <p>Oily rags stored safely in protected areas (in shaded buildings or under cover) and dispatched quickly.</p> <p>Burning operations are not completed on site as it is not authorised by the Environmental Permit</p> <p>All waste storage and treatment areas are on impermeable concrete paving with a sealed drainage system.</p> <p>The integrity of the impermeable concrete paving and sealed drainage system is inspected in accordance with the EMP. Any damage and any required repairs and/or remedial works are recorded and completed as soon as practically possible.</p>	Medium	<p>Respiratory irritation</p> <p>Illness and nuisance to local population</p> <p>Injury to staff or fire fighters</p> <p>Pollution of water and/or land</p>	Low

Enicor Ltd, South Fen Road, Bourne, Lincolnshire, PE10 0DN



Risk Assessment for Metal Shredding Installation

Table G - Assessment of risks posed by climate change

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the Overall Risk?
<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will be completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High)</i>
Increased summer daily maximum temperature; Dry vegetation in and around hot cutting areas, leading to increased fire risk.	Human receptors (see sensitive receptor plan) Nature and Conservation Sites (see sensitive receptor plan)	Air transport of smoke and dust and/or shock waves.	As above. Any hot works will be conducted in accordance with the Fire Prevention Plan and hot works permit. Effective housekeeping prevents the build up of vegetation on site.	Medium	Respiratory irritation Illness and nuisance to local population Injury to staff or fire fighters Pollution of water and/or land	Low



Risk Assessment for Metal Shredding Installation

Table G - Assessment of risks posed by climate change

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<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will be completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High)</i>
Increased summer daily maximum temperature: Potential increase in high temperature expansion and stress of plant, pipework and fittings. - increased noise, dust, accidents etc.	Human receptors (see sensitive receptor plan) Nature and Conservation Sites (see sensitive receptor plan)	Air	As above. All equipment (including ELV depollution equipment and shredders) is maintained and serviced in line with manufacturer guidelines as well as in accordance with LOLER and PUWER where applicable. Pre-use checks are completed on all plant. Appropriate training (e.g. H&S) is delivered to staff and refresher training is given when required.	Low	Nuisance to local receptors Loss of amenity Disruption at weekend to human receptors as noise and vibration would have more impact when more people are at home Loss of sleep to human receptors as noise and vibration would have more impact at night Potential increased noise and vibration annoyance in summer when people are outdoors and have windows/door open	Low

Risk Assessment for Metal Shredding Installation

Table G - Assessment of risks posed by climate change

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the Overall Risk?
<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will be completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High)</i>
<p>Increased summer daily maximum temperature: Potential increased dust emissions from processing areas and site roads</p>	<p>Human receptors (see sensitive receptor plan) Nature and Conservation Sites (see sensitive receptor plan)</p>	<p>Air</p>	<p>All waste treatment and storage areas are on impermeable concrete paving within the sealed drainage system.</p> <p>The integrity of the impermeable concrete paving and sealed drainage system is inspected in accordance with the EMP. Any damage and any required repairs and/or remedial works are recorded and are completed as soon as practically possible.</p> <p>Inspection of wastes at the weighbridge and when unloading on site when being segregated by grade minimises the probability of receiving unauthorised, dusty wastes. The onsite inspection areas are covered by 24/7 CCTV.</p> <p>Metal grades are stored on site for the maximum duration specified in the Fire Prevention Plan.</p> <p>Metals are not dusty waste streams.</p> <p>Deployment of hand-sweeping and dampening the site surface when required.</p> <p>Dust and particulate emissions are inspected daily.</p> <p>Effective housekeeping followed in accordance with EMP.</p>	<p>Medium</p>	<p>Respiratory irritation and illness</p>	<p>Low</p>

Risk Assessment for Metal Shredding Installation

Table G - Assessment of risks posed by climate change

Hazard	Receptor	Pathway	Risk Management	Probability of Exposure	Consequence	What is the Overall Risk?
<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will be completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High)</i>
Increased summer daily maximum temperature: Stockpiled metal food and drink containers attracting pests and odours	Human receptors (see sensitive receptor plan)	Air transport and over land	Inspection of wastes at the weighbridge and when unloading on site when being segregated by grade minimises the probability of receiving unauthorised wastes which are likely to attract pests and vermin. The onsite inspection areas are covered by 24/7 CCTV Metal wastes and ELVs (including associated parts and components) are not readily biodegradable and unlikely to attract vermin or flies Regular pest checks and trap deployment where required. Implementation of a Pest Management Plan in the unlikely event of this being identified as an issue. Effective housekeeping and cleaning	Low	Harm to human health from waste carried off sites and faeces Nuisance Loss of amenity	Very Low
Winter daily maximum temperature: Increased risk of pipework freezing; could cause downtime, exceed waste storage, start up noise and accidents.	Human receptors (see sensitive receptor plan) Nature and Conservation Sites (see sensitive receptor plan)	Air transport and over land	ENICOR operate a contingency plan during breakdowns. Equipment is checked daily and downtime is minimised through pre-use checks and regular maintenance. Minimal exposed pipework. ELV depollution completed in depollution shed. ENICOR will insulate any exposed pipework as required.	Medium	Harm to human health from waste carried off sites and faeces Nuisance Loss of amenity	Low



Risk Assessment for Metal Shredding Installation

Table G - Assessment of risks posed by climate change

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Daily extreme rainfall; Potential for increased site surface water and flooding resulting in drainage systems and interceptors being overwhelmed and contamination leaving the site.	Human receptors (see sensitive receptor plan) Nature and Conservation Sites (see sensitive receptor plan)	Direct run-off from site across ground surface or via drainage system	External areas where wastes are handled or stored are provided with contained drainage the site drainage system and effluent treatment plant has sufficient storage and treatment capacity. Site operated in accordance with Fire Prevention Plan, including containing fire water. The integrity of the impermeable concrete paving and sealed drainage system is inspected in accordance with the EMS. Any damage and any required repairs and/or remedial works are recorded and completed as soon as practically possible. Site is bunded and water reused in the recycling process. No discharge point to fail. Water can be tankered off site if required.	Medium	Acute effects: oxygen depletion, fish kills and algal blooms	Low
Average winter rainfall; Potential for increased site surface water and flooding; contamination leaving the site	Human receptors (see sensitive receptor plan) Nature and Conservation Sites (see sensitive receptor plan)	Direct run-off from site across ground surface or via drainage system	As above, Provision of emergency pumps to remove floodwater and identification of lowest risk location for discharge of floodwaters. Provision of tankered removal if necessary. No discharge point to fail. Contingency plan if the site must close. Protection of control and electrical systems.	Medium	Acute effects: oxygen depletion, fish kills and algal blooms. Loss of amenity. Injury	Low

Risk Assessment for Metal Shredding Installation

Table G - Assessment of risks posed by climate change

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Average winter rainfall; Potential for drainage systems and interceptors to be overwhelmed; contamination leaving the site	Human receptors (see sensitive receptor plan) Nature and Conservation Sites (see sensitive receptor plan)	Direct run-off from site across ground surface or via drainage system	As above, Drainage systems and bunds are inspected and maintained. External areas where wastes are handled or stored are provided with contained drainage. The site drainage system and effluent treatment plant has sufficient storage or treatment capacity.	Medium	Acute effects: oxygen depletion, fish kills and algal blooms. Loss of amenity. Injury	Low
Sea level rise	na	na	Not a coastal site.	na	na	na
Drier summers; Potential increase in dust emissions from a site.	Human receptors (see sensitive receptor plan) Nature and Conservation Sites (see sensitive receptor plan)	Air	See Fugitive Emissions table. ENICOR ensure regular site cleaning and use of dust suppression systems when necessary.	Medium	Respiratory irritation and illness. Nuisance Loss of amenity	Low
Drier summers; Potential increased use and reliance on mains water for dust suppression, cleaning and fire water.	Human receptors (see sensitive receptor plan) Nature and Conservation Sites (see sensitive receptor plan)	Air	ENICOR review and minimise water use (such as to maximise collection and use of rainfall). Water storage on site in accordance with the Fire Prevention Plan. Water collected, stored and used for recycling activities. Water for dust suppression will be sourced elsewhere, such as roadsweepers.	Medium	Respiratory irritation and illness. Nuisance Loss of amenity	Medium

Enicor Ltd, South Fen Road, Bourne, Lincolnshire, PE10 0DN



Risk Assessment for Metal Shredding Installation

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<i>What has the potential to cause harm?</i>	<i>What/who is at risk? What/who do I wish to protect?</i>	<i>How can the hazard get to the receptor?</i>	<i>What measures will completed to reduce the risk? If it occurs, who is responsible for what?</i>	<i>How likely is exposure? (Very Low / Low / Medium/ High / Very High)</i>	<i>What harm can be caused?</i>	<i>What is the risk that still remains based on exposure and consequence? (Very Low / Low / Medium/ High)</i>
River flow: potential increased impact of discharge to watercourse from on-site drainage systems where connected to water courses	na	na	No discharge from site	na	na	na
River flow: Increased risk of watercourse flows being too high to allow discharge and drainage backing up on site.	na	na	No discharge from site	na	na	na

Sensitive Receptors within 1 km Plan



Client: Enicor Limited, South Fen Rd, Bourne

Job Title: EMS


Drawing Title: Sensitive receptors within 1 km plan


June 2023

Version: Version 1

Key:

 Permit boundary

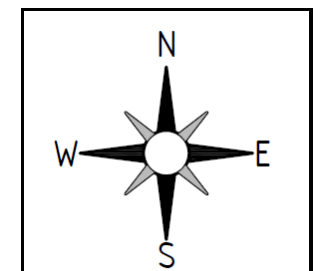
 1 km boundary

 Identified receptors

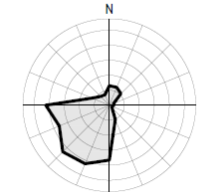
Scale:

1m

600m



Wind Rose



RAF Wittering (EGXT) approx. 19 km to SW



Sensitive Receptors within 1 km Table

Receptor Type	Receptor Description	Map Reference Number	Location
<i>Residential</i>	<i>Residential properties on South Fen Road</i>	<i>1</i>	<i>Immediately adjacent on North-western boundary.</i>
<i>Residential</i>	<i>Further residential properties on South Fen Road to the East and West and Counter Drain Drove to the West of the site.</i>	<i>2</i>	<i>Three locations approximately 650 m – 900 m East and 750 m West of site.</i>
<i>Residential</i>	<i>Residential properties on Counter Drain Drove</i>	<i>3</i>	<i>Approximately 950 m South/Southeast of site.</i>
<i>Commercial/Industrial</i>	<i>Enva Plastics Limited (01775 670226 or 0 505 321 000)</i>	<i>4</i>	<i>Immediately adjacent on Western boundary.</i>
<i>Commercial/Industrial</i>	<i>Commercial and industrial, warehouse businesses. Farming activities</i>	<i>5</i>	<i>Two locations approximately</i>

Sensitive Receptors within 1 km Table

			950 m East and 900-950 m West of site.
Public Facility	Windmill Farm Caravan Park 01775670154	6	Approximately 1000 m to the South/Southeast of site.
Water Body (potential fire fighter water source)	River Glen	7	Various. Approximately 650 m to the East of site at closest.
Water body (potential fire fighter water source)	Bourne Eau	8	Various. Approximately 350 m to the North of site at closest.
Environments / public facility	Priority Habitat Inventory - Deciduous Woodland (BAP Priority habitat) (including Baston Fen Nature reserve, which is also a designated SSSI)	9	Various. Approximately 850 m to the South/Southeast and 650 m Northwest of site.
Environments	Priority Habitat Inventory - Coastal and Floodplain Grazing Marsh (BAP Priority habitat)	10	Various. Approximately 350 m to the North of site at closest. Also, East and South.
Environments / commercial	Miscellaneous agricultural and grazing land, including Countryside Stewardship Schemes	11	Various. Immediately South of site.
Environments	Drainage / Irrigation ditches and Water Abstraction Points	12	Various. Closest within 200 m South of site.
Other	132 kV Overhead Electricity Transmission Line Pylon (Bourne - South Holland)	13	Approximately 120 m South of site.
Example Irrigation drain (Potential fire fighter water source)	Unnamed irrigation ditch	14	Approximately 300 m East of site.