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Hazard	Receptor	Pathway	Risk Management Techniques	Probability of Exposure	Consequences	Overall Risk (following mitigation)
Point Source\ Releases to Air	Atmosphere	Airborne	• There will be no point source emissions to air from the facility.	Low: offsite receptor impact	Air Pollution	**VERY LOW** due to the proposed processes on site
Emissions to water	Ground water, Surface water, Permeable ground	Water borne	• There are no point source emissions to surface waters. • There will be no changes to the drainage arrangements on site. • There will be no hazardous wastes delivered to site. • All treatment, storage and transfer will be on sealed drainage. • All liquids shall be provided with secondary containment (applies to wastes and non- wastes such as fuels). • Activities will not be carried out within 50m of any well, spring or borehole used for the supply of water for human consumption including private water supplies.	Low: all runoff is controlled on site, in line with standard rules permits therefore the probability of exposure is low	Contamination	**VERY LOW** Due to the proposed management techniques and drainage arrangement
Emissions to land	Ground water / Permeable ground	Spills / Leaks	• There will be no point source emissions to land arising from the proposed facilities. • Spill kits will be strategically located around site. These are subject to regular checks in the planned preventative maintenance system. • Staff will be trained in how to deal with a spill. • Minor spills to be cleaned up immediately using spill kits. Resultant materials to be placed in container for offsite disposal to appropriate facility. • Immediate action to be taken in event of any major spills. Spillage to be cleared immediately and placed in containers for offsite disposal at an appropriate facility. EA to be informed.	Low: spills / leaks could potentially contaminate the ground / groundwater- Underneath the site.	Contamination	**VERY LOW** Due to the proposed risk management techniques
Noise and vibration	Dwellings 100m E Local wildlife 50m W	Airborne / ground	• Vehicle deliveries will only take place during daytime hours (06:00 – 17:00 Monday to Friday). • On site, vehicles will be fitted with 'white noise' reversing alarms where practicable. • No activities will take place at night under normal circumstances. • Activities after 18:00pm will be conducted with minimal operators/ mobile plant use/ plant equipment used to reduce generation of noise on site.	Low – due to the minimal operation of the site (on an ad-hoc basis and only during daylight hours), location of sensitive receptors and all other mitigation measures described.	Nuisance noise and vibration	**LOW** due to the management techniques, modern equipment,

			• Speed limits in place of 7mph to reduce noise generation on the site. • All equipment has been designed to ensure that any noise does not present an issue to the employees at the site under the Control of Noise at Work Regulations. • Employee noise assessments are conducted in line with the company's monitoring and measurement programme. • All waste treatment will take place within a building. • The plant will only be used on an 'as needed' basis. Plant and equipment will only be running when treatment is required. • All vehicles/ mobile plant and equipment will be switched off when not in use. • The site operates a complaints investigation procedure, which forms part of the IMS (ISO 9001:2015, 14001:2015, ISO 45001:2018) which involves efficient mitigation if a complaint is found to be substantiated. All complaints are recorded and reviewed regularly. • The distance between stockpiles of recoverable materials and vehicles to be loaded is kept to minimum to reduce vehicle movement. • Sensitive receptors have been identified. • The perimeter walls act as sound shield and reduce impact on wildlife activities/ local receptors. • In the event of an increase in noise complaints a noise impact assessment would be carried out.			
Odour	Local Residents	Airborne	• Waste contracts will be in place to ensure the consistency of the waste is continuous. • To prevent excessively odorous waste from arriving on site, the site has stringent waste acceptance procedures waste will be rejected by site should it be deemed unpleasant. • Waste streams of card and paper are not odorous. • Inspections will happen daily to inspect the site for odours. Any odorous waste will be prepared for removal off site immediately. • Sumps will be regularly cleaned and the site will employ good housekeeping measures. • Any complaints will be actioned in accordance with the site complaints procedure and recorded in the site diary. • Waste types to be accepted are not odorous by nature. • General waste/ municipal waste is not accepted on site.	Low: due to the activities being managed with waste acceptance criteria and waste storage.	Nuisance	**VERY LOW** due to the proposed risk management technique

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Dust	Local Residents	Airborne	• All loaded incoming and exporting vehicles will be covered. • All treatment of recovered material will be within a building/ shelter. • Surfaces will be swept/ mobile plant attachment used to reduce dust. • Any complaints will be actioned in accordance with the site complaints procedure and recorded in the site diary. • Operations likely to generate dust will not be carried out in high winds. • Site surfaces will be kept free from mud and dust and if required an increased use of mobile plant attachments used to sweep will be deployed.	Low: due to equipment and methods being employed	Nuisance	**VERY LOW** due to the proposed risk management techniques
Litter	Local Residents	Airborne & migration	• All loads incoming/ outbound will be covered. • Loading/ unloading of materials in baled form. • Material deposited on ground to be collected as soon as reasonably practicable using mobile plant sweeping attachments. • Material collected will be baled. • The site access and site services shall be cleared as necessary. • The site shall be inspected daily by the site manager and any litter or accumulated debris shall be dealt with immediately. • Any complaints will be actioned in accordance with the site complaints procedure and recorded in the site diary • Litter will be collected on a daily basis. • Perimeter walls provide coverage from wind/ contain windborne materials within site boundaries. • All baling of recovered material will be within a building/ shelter.	Low: due to management techniques and methods of delivery/ treatment.	Nuisance	**LOW**
Pest	Local Residents	Airborne and migration	• A pest control company is contracted to undertake monthly inspections of the site. • The waste types do not attract pests. • Vermin baited traps will be located on the site on a permanent basis. • Should pests be identified, reasonable measures will be taken to use commercially available products and services to control pests.	Low: due to management techniques.	Nuisance	**VERY LOW** due to the proposed risk management techniques

Vandalism	Operator	Vandalism/ arson	• The site has a CCTV system with motion sensors across the site. • Alarm • The site entrances are secured by lockable gates. • Access to site is through telecom-controlled barrier gates/ pedestrian gate. • The entire site is secured by masonry boundaries. • Unauthorised access is prohibited onsite. • The site perimeter is inspected daily by operations staff to identify deterioration and damage and the need for repair. • Perimeter is maintained and repaired to ensure its continued integrity. If damage is sustained, repair will be made within the same working day. If this is not possible, suitable measures will be taken to prevent unauthorised access to the site and permanent repairs will be affected as soon as is practicable. • All visitors to the site are required to register in the visitor's book and sign out again on exit, thereby minimising the risk of unauthorised visitors on the site.	Low: the occurrence of vandalism taking place on site is highly unlikely due to security measures.	Nuisance, damage or fire	**VERY LOW** due to the proposed risk management techniques
Fire	Operator / Residential Properties	Windborne	• A planned preventative maintenance system is in operation for all plant and equipment. This will reduce the likelihood of fire starting at this source. • Arson by intruders is controlled via CCTV, main steel security gates, perimeter walls and fences. • The sites building is equipped with a fire suppression system. • The site is well lit and secured. • Machinery is regularly cleaned to remove any dust, etc; • All equipment on site is equipped with dedicated fire suppression. • A number of fire extinguishers and hose reels are placed at strategic locations around the plant. • The potential for sparks is regularly monitored by site staff. • The risk of damaged or exposed electrical cables is controlled via the regular inspection and maintenance programme. • Staff and visitors are not permitted to smoke on site. • There is no smoking permitted within the operational area of the site. • The site will operate under an approved Fire Prevention Plan.	Low: the occurrence of a fire taking place due to preventative measures and Fire Prevention Plan.	Fire	**LOW** Due to control measures and fire prevention plan

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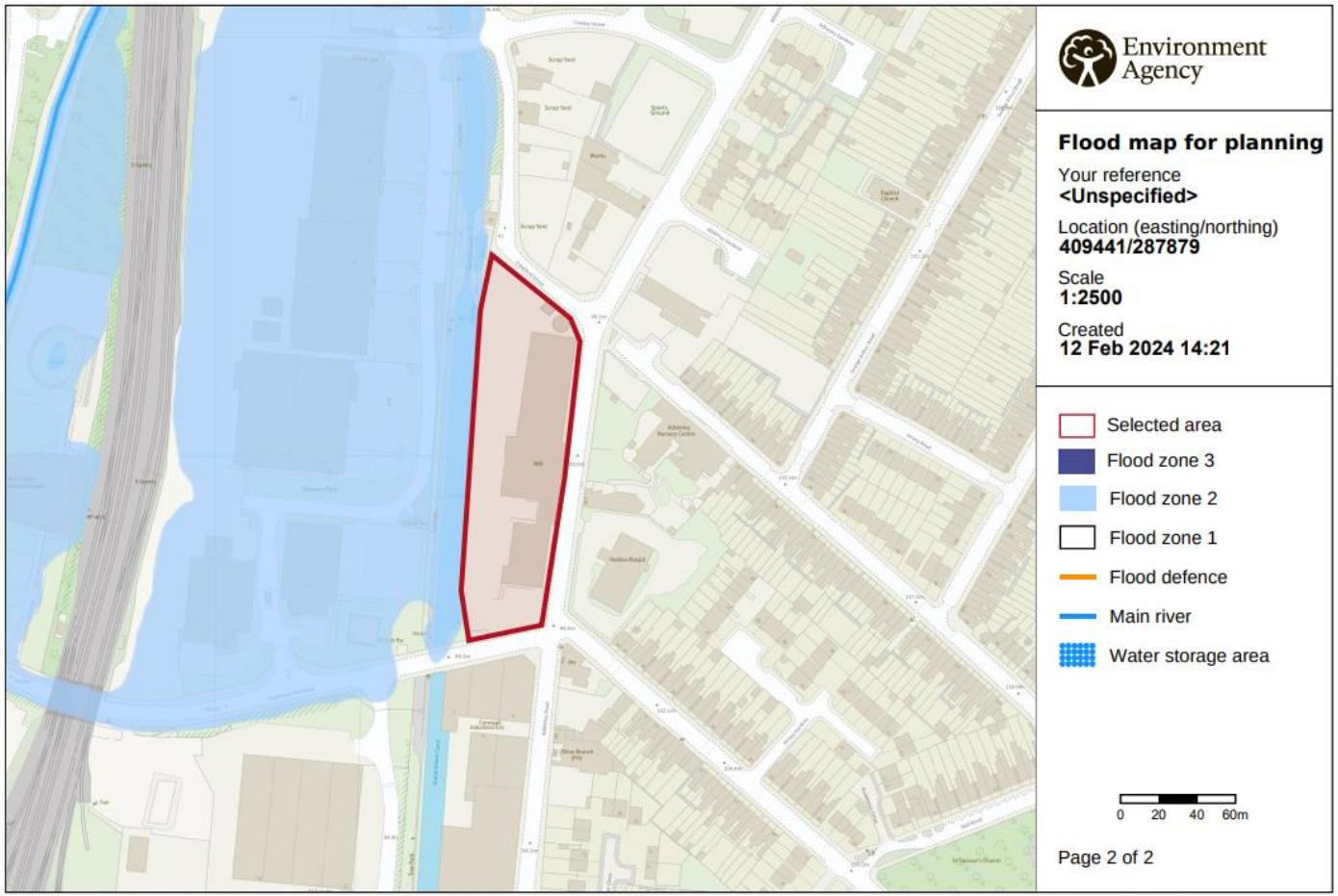
Non target material acceptance	Operator / Residential Properties	Incorrect waste acceptance	• All recoverable materials accepted onto site have been subject to 'pre-acceptance' in accordance with the sites Environmental Management System. • Waste acceptance procedures are implemented, which control all incoming wastes. • Any non-conforming waste will be quarantined and rejected from site in accordance with the sites Integrated Management System (IMS) and waste acceptance procedures.	Low: off-site receptor impacts	Nuisance /Adverse Emissions	**VERY LOW** due to the proposed risk management techniques
Accidents	Operator	Accidents	• In the event of any incident or accident that would cause operational disruption such as the ability to process or accept waste alternative action would be taken. • If waste could not be treated for a foreseeable period of time, waste would be managed in line with the Fire Prevention Plan. If the Fire Prevention Plan could not be adhered to for reasons such as storage times and volumes waste would be removed to other permitted or exempt waste facilities. • If the site could not accept waste, again other permitted or exempt waste facilities. Additionally operated sites can be found at Tamworth/ Nottingham.	Low: off-site receptor impacts	Accidents / Incidents	**VERY LOW** due to the proposed processes and management techniques as described within the summary IMS
Flooding	Operator	Surface and coastal waters	• The site will not accept or store any wastes that would pose a risk to the watercourse. • The site is housed at gradient of 4m uphill/ above adjacent canal. • If flooding is expected, where possible all waste will be removed from the site. • If flooding is expected, efforts will be made to ensure drains remain unblocked on site. • If drainage system is unable to remove flood water, efforts will be made to contain and tank water from the site's lowest point. • If flooding is expected, efforts will be made to ensure trade effluent does not escape site by unauthorised means. • All incoming wastes would be diverted to other permitted or exempt waste facilities. Additionally operated sites can be found at Tamworth/ Nottingham.	Low: pollution to water course	Flooding	**VERY LOW** due to the proposed processes and management techniques as described within the summary IMS

Perimeter

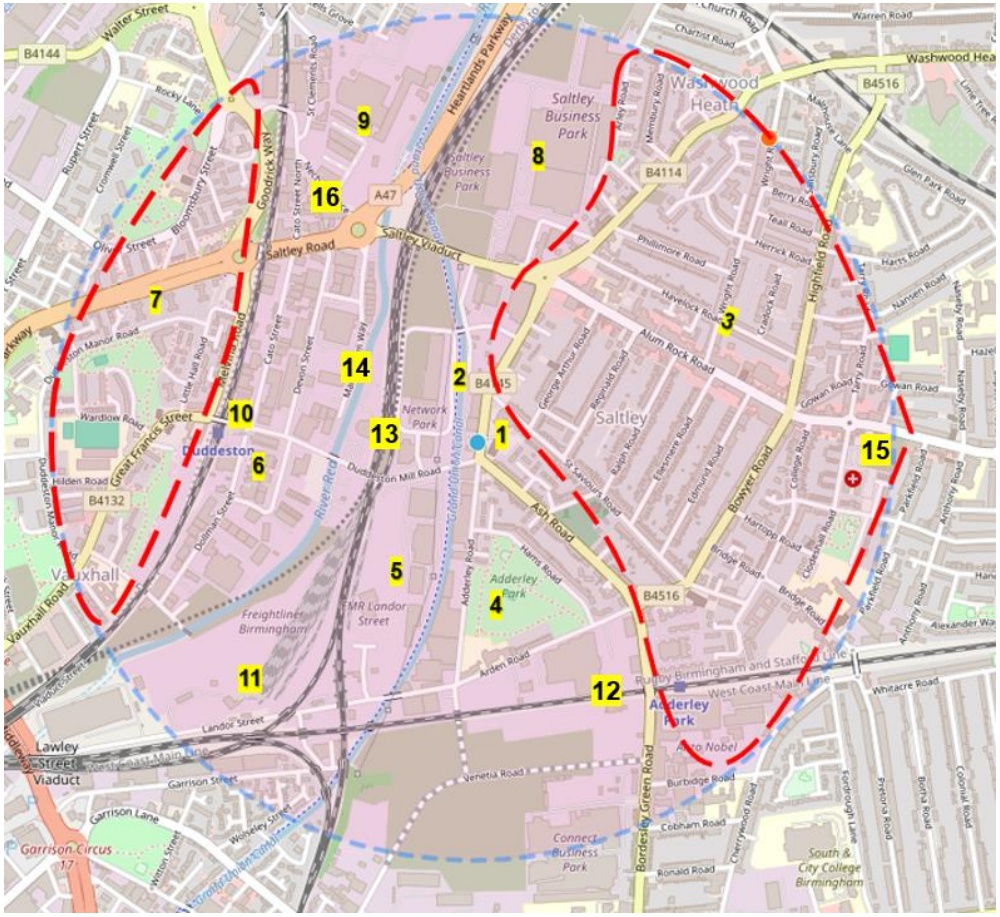
Figure 1: East facing perimeter

Figure 2: West facing perimeter

Environment Agency Flood Map for Planning



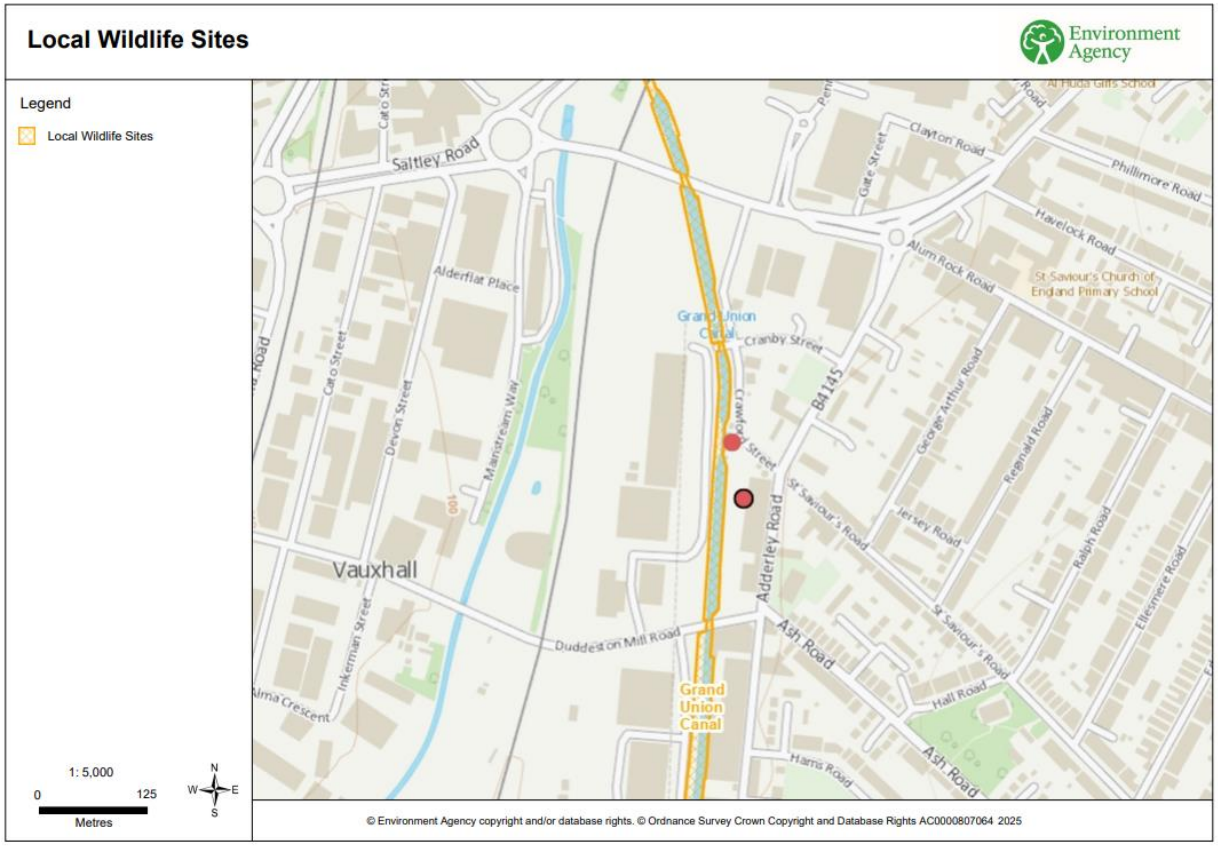
Sensitive Receptors



Ref	Receptor	Description	Direction from site boundary	Approximate distance from Site Boundary (m)
1	Mosque/ school	Community/ Religious centre	E	50
2	Grand union canal	Protected site/ area	W	50
3	Dwellings	Area East of site (highlighted)	E	100 - 1000
4	Playing fields	Communal park space	S	350
5	Business park	Duddeston mill trading estate	SW	300
6	Business park	Vauxhall trading estate	W	500
7	Dwellings	Area West of site (Highlighted)	W	650
8	Business park	Saltley business park	N	650
9	Paper Mill	Smurfit Westrock Paper Mill (SSK)	NW	700
10	Railway	Duddeston Railway station	W	500
11	Railway	Freightliner terminal station	SW	800
12	Railway	West coast main line	S	900
13	Railway	Rugby/ Birmingham main line	W	350
14	River Rea	Water source	W	400
15	Medical centre	Community medical centre	E	1000
16	Dual carriageway	Saltley Rd – Heartlands Parkway	NW	700

Local wildlife sites

Grand union canal



Hazard	Receptor	Pathway	Consequences	Judgement of risk	Managing the risk	Overall Risk (following mitigation)
Risk to Local Wildlife site	**Local Wildlife site:** **Grand union canal**	**Air, water, land**	Contamination to water source. Disruption to local wildlife. Windborne material/ nuisance dust entering water source. Degradation of air quality. Attraction of vermin/ birds. Noise generated deter wildlife.	at risk from any source and by any pathway. The risk of harm to protected sites includes (but are not limited to) the following: -contaminated surface water run off -disturbance -predation -Dust -Windborne material	Dust: • The mobile plant and plant equipment will be thoroughly cleaned on site following good Housekeeping practices. • The perimeter wall and production building will act as wind breaks to minimise wind whip and dust from stockpiles and the treatment area. • Plant shall be inspected daily and managed to ensure it is operating to minimise the generation of dust. • Plant and the areas around it and including access roads shall be cleaned to prevent dust generation. • The site will operate an approved Dust/ Emissions Management Plan Surface water: • The site is laid to hardstanding meaning there are no impermeable surfaces to generate run-off that may enter the watercourse. • In the event of fire, contaminated water is to be contained within site and drains covered to prevent escape. Noise • Mobile plant are to be used for activities only, when not use they are parked up with ignition off. • Perimeter wall and production building will act as sound breaks. Litter • Accepted material is baled to reduce the risk of windborne material escaping site. • Site perimeter is inspected daily for escaped material. Disturbance • The operation has been operating under exemption since 2005 (Smurfit Kappa) with no deterioration of the Local Wildlife site Predation • None of the waste streams accepted at the site will attract vermin or birds. • The site manages vermin/ birds on site using contractors.	**Low**