Environmental Management System

Version 7: November 2023

A1 Services (Manchester) Limited
Overman Way
Agecroft Commerce Estate
Salford
M27 8BQ

CONTENTS

APPENDICES

Appendix 1 - Emergency Procedures

Appendix 2 – Forms & Records:

- Site inspection Form
- Complaints Procedure
- Training Form
- Maintenance Checklist
- Accident/Incident Record

Appendix 3 – Environmental Risk Assessment

Appendix 4 - Climate Change Risk Assessment

Appendix 5 - Drawings:

- Site Location Plan

- Site Layout Plan

REVISION LOG

Date	Details	Version
February 2020	Update of operations and procedures for permit variation to include additional waste codes	4
June 2020	Addition of total storage limit of haz waste in section 3.3	5 draft
August 2020	Update of risk assessment for permit determination	5 draft
September 2020	Change of company name to A1 services	6
November 2023	Updated to include: - change of permit reference number - management changes including wamitab holder and removal of contact numbers and names of staff who are no longer employed -reference to mixed waste not being currently accepted, only construction demolition and excavation waste - reference to dust management plan under dust control - inclusion of climate change risk assessment at Appendix 4	7

1. GENERAL

1.1 Permitted Site

The transfer station is located off Overman Way on the Agecroft Commerce Park in Salford. The whole area was formerly dominated by the Agecroft Colliery and is now an established industrial estate. The plot measures 3.7 hectares. To the east is also the Manchester to Bury Railway and the now disused Manchester, Bolton and Bury Canal. The site is accessed from the north off Overman Way (via Lamplight Way).

The site address:

A1 Transfer Station
Overman Way
Agecroft Commerce Park
Salford
M27 8UJ.

The Environmental Permit reference for the site is EPR/JB3701XB.

The site shall meet all applicable legislation (both Environmental and Health/Safety) for the reception, storage, treatment and transfer of material stored at the site.

1.2 Waste Types and Quantities

The permitted waste types are listed in Schedule 2 of the Environmental Permit. This includes a wide range of household, commercial and industrial waste. The annual throughput is 750,000 tonnes. The maximum storage capacity is 100,000 tonnes.

1.3 Hours of Operation

Operating hours are in accordance with the planning permission.

1.4 Waste Management Licence, Planning Permission and Operational Plan

The Environmental Permit, Planning Permission and Management Plan will be held at the site office.

1.5 Contact Details

Contact names and numbers for use where emergency access is required are written on the Site Identification board at the entrance to the site.

1.6 Staffing and Management

Whenever the site is open to receive or dispatch waste the site shall be supervised by at least two members of staff who are suitably trained and fully conversant with the requirements of the Permit and the Management Plan with respect to:

a) Waste acceptance and control procedures
b) Operational controls and monitoring
c) Maintenance
d) Record keeping
e) Emergency action plans

The appointed manager is responsible for the day-to-day operations at the site, including waste storage and processing, general housekeeping and maintenance.

The appointed manager is able to call upon the services of specialist contractors, e.g. Pest Control, Engineers etc., to deal with specific problems and emergencies should they occur.

All personnel employed at the site receive training and instruction on the responsibilities and procedures described in the Management Plan, and the provisions of the Permit.

1.7 Emergency Situations

For the purposes of this Management Plan an emergency shall be a situation in which there is an imminent danger of:

i) serious pollution to the environment; and/or
ii) serious harm to human health; and/or
iii) the activities authorised become seriously detrimental to the amenities of the locality

2. SITE INFRASTRUCTURE

2.1 Site Layout

The site comprises a 3.7 Hectare plot of land alongside the Manchester to Bolton railway line in Agecroft. Vehicular access is only via Overman Way at the north of the site, with the main waste operations being undertaken at the south of the plot. An internal roadway runs N-S down the western boundary.

Site offices, parking and weighbridge facilities are located close to the site entrance. A maintenance garage is also housed on site.

A wide range of non-hazardous waste is permitted but currently the site only accepts construction, demolition and excavation waste type waste. This is stored and treated on site as shown on the Site Plan (appended). Screening, crushing and washing is carried out to produce aggregate products which are tested in accordance with an End of Waste protocol.

All waste is stored outside on the yard.

2.2 Site Access

Vehicular access to the site is by lockable gates. Gates are locked outside of daytime operating hours other than in an emergency, and in any case at all times when the site is not manned. Access is also required for the Coal Authority in order to inspect and monitor sealed mine shafts.

All vehicles can access and exit the site in forward gear.

2.3 Site Security and Fencing

The majority of the site is surrounded by 2.5m palisade security fencing to prevent unauthorised access. Its integrity will be regularly checked and any breaches noted and remedied. This is especially important given the public right of way (PROW) which skirts the southern end of the site.

2.4 Site Identification Board

A Site Identification Board will be prominently displayed at the site entrance.

The board will be easily readable in daylight hours, and display the following information:

- Site Name and Address
- Permit Holder
- Operator Name
- Emergency Contact Telephone Number (Out of Hours)
- Statement that the site is licensed by the Environment Agency
- Agency national number
- Days and hours site is open to receive waste

In the event of damage or defect, the board shall be repaired or replaced.

2.5 Warning Notices

Notices shall be erected and maintained at the entrance to the site warning persons of the danger of trespass, and the appropriate safety provisions for visitors.

2.6 Site Office

The site office is the secure base for maintenance and record keeping of all records relating to the site. Toilet and washing facilities are situated for the use of staff operating the facility. First Aid supplies and PPE for operatives will be stored in the site office.

A notice board will be provided at the site office to display relevant information.

2.7 Surfacing &Site Drainage

The northern area of the site is concrete surfaced and drains via interceptor to sewer. All surface drainage flows to drains which run along the centre of the site. There are two 4 chamber interceptors along the mid line of the site which discharge into the sewer system.

All water falling within the western yard area is harvested for use on site. The yard is concreted and laid to a fall towards the centre where there are a line of surface water grids and a sub-surface drain for water collection. This drain feeds an underground storage tank with a capacity of 75,000 L. Water is pumped from this tank via the pump house to a 35,000 L storage tank. The system includes a valve to divert surplus water to sewer if both storage tanks are full. Roof water is also collected for use and stored in the 35,000 L tank.

The southern extent of the site and the HGV parking area is hardstanding. Site surfacing is shown on the site layout plan.

All concrete surfaces, drains and interceptors will be inspected on a weekly basis and any remedial works undertaken as soon as possible. Should an area of concrete become so damaged as to be permeable, that area will cease to be used for waste transfer until repair works are completed.

2.8 Traffic Restriction Measures

There is a traffic speed restriction of 15 mph on the main access and designated routes in place and a 10mph restriction within waste and working areas.

3. WASTE RECEPTION

The types of waste deposited and stored at the facility shall consist only of those listed in the permit.

3.1 Waste Acceptance

New waste enquiries are assessed through the pre-acceptance process, during which the customer will confirm in writing the following information:

- The EWC code
- the process producing the waste
- the quantity of waste
- the form of the waste
- other properties including odour and dust potential
- chemical analysis (if applicable)
- how it will be delivered to site

Materials entering the site will be visually checked for compliance at the weighbridge or at the reception area.

The scheduled load will be weighed in at the weighbridge. The vehicle registration number is logged by the Weighbridge Operator (WO) and the customer account details checked.

The WO inspects the accompanying consignment note or waste transfer note to ensure the waste is permitted and the relevant sections of the form have been completed in line with duty of care requirements.

If there is a breach of duty of care the WO will notify the Appointed Manager (AM) who will record it in the site diary. The AM will decide whether the load should be rejected. In the case of hazardous waste the EA will be informed if the load is rejected.

The WO will produce a weighbridge ticket and direct the load to the waste reception area.

Construction, demolition and excavation waste is deposited in the yard. Soils are dispatched to permitted sites. Hardcore is processed by crushing and screening to produce aggregate products.

3.2 Rejection Procedure

Waste may be unsuitable for acceptance due to:

- odour
- attractive to pests
- free phase liquid

The AM will contact the customer and detail the reasons for rejection. Waste will be isolated to prevent emissions until it's removal is arranged from site. Removal from site will be in accordance with Duty of Care and the Hazardous Waste Regulations.

Records of rejected waste will be maintained and discussed during management reviews.

On visual inspection should any waste not fall within that covered by the Permit it will be immediately rejected and the waste removed from the site. If items are discovered at a later stage, such as LPG gas bottles, lead/acid batteries etc, these will be placed in the quarantine area for temporary storage prior to removal from site.

3.3 Hazardous Waste (WEEE and Asbestos)

Asbestos waste will be double bagged and stored in a dedicated container for specialist removal. No more than 10 tonnes will be stored on site at any time.

Although not currently accepted, WEEE will be stored in a lockable shipping container fitted with racking and drip trays. Any items that may contain fluids such as transformers and capacitators would be stored on a drip tray. The container will house small quantities of hazardous and non-hazardous WEEE but the two waste types will not be mixed, they will be separated and labelled. This waste will be stored for onward transfer only, not treated. Not more than 50 tonnes would be stored on site.

The combined total of hazardous waste (asbestos and WEEE) stored on site shall not exceed 50 tonnes.

4. SITE OPERATIONS

4.1 Plant & Equipment

The plant and equipment used at the yard will include but not be limited to:

- loading shovels/excavators
- concrete crushing plant
- soil screeners
- trommel
- washing plant
- grab

4.2 Maintenance of Plant & Equipment

All plant and equipment is regularly maintained. A maintenance record is held in the site office.

In the event of a breakdown arrangements will be made immediately to remedy repairs using a retained contractor. The date and time of any such breakdown will be recorded in the site diary. If required, an alternative machine will be sourced from a local plant hire company whilst repairs are underway. Should processing capacity be reduced due to such downtime, then waste will be taken to alternative transfer stations in the meantime.

4.3 Spillages of Waste

Spill-kits will be available in the garage, and these will consist of absorbent granules and/or sand. Due to the nature of the waste, the only risk of spillage is hydraulic or fuel leakage from the plant and wagons.

The time, date and nature of any spillage or leak, and the subsequent action to clean it up, shall be recorded in the site diary.

4.4 Control of Odours

An Odour Management Plan is in place which contains further detail on the prevention and control of odours.

Biodegradable waste is not currently accepted, only construction, demolition and excavation waste which does not generate odours.

4.5 Control of Vermin

Precautions are taken to prevent the attraction of and minimise infestation by birds, vermin and insects. If required, a suitable contract will be put in place for a Pest Control Company to put in place appropriate remedial measures.

4.6 Control of Litter

Litter is not considered to be a problem for construction, demolition and excavation waste, which is the bulk of the business for the site.

4.7 Control of Fires

A Fire Prevention Plan has been produced to provide further details in line with EA guidance. There will be no burning of waste in any form on site. On-site fire fighting provisions will fully address the requirements of the Health & Safety at Work Guide and associated legislation. In the event of a fire the Site Emergency Plan will be mobilised.

All plant and machinery are fitted with fire extinguishers.

Combustible waste is not currently accepted on site.

4.8 Control of Dust

The site operates according to a Dust Management Plan.

5. RECORD KEEPING

5.1 Waste Removed

The appointed manager will keep a daily record of all outgoing waste materials, to include:

1. Weight and type of waste material(s) comprising each load
2. Name of driver and registration number of vehicle
3. Destination point or disposal site for the waste
4. Date & time of removal from the site
5. Treatment method

Records will be maintained for 6 years in accordance with permit requirements.

In all cases waste materials will only be transferred to persons either registered or exempt from registration under the Controlled Waste (Registration of Carriers and Seizure of Vehicles) Regulations 1991 and in such a way as will comply with section 34 of the Environmental Protection Act 1990.

5.2 Site Diary

A Site Diary will be maintained in the site office. This diary is used to record a daily log of events relating to the operation of the site and includes details of site inspections, complaints received, breakdowns, spillages, rejected loads, emergencies, abnormal events and action taken, problems with waste received and actions taken, damage to fencing, gates, hard surfaces and storage bays. The diary will be kept up-to-date and will be made available for inspection.

5.3 Visitors Book

All visitors must report to the site office upon arrival and sign the Visitors Book.

5.4 Accident Book

The Accident Book is to be kept in the main office. All accidents must be reported at the earliest opportunity and the appointed manager informed. Requirements under RIDDOR will be observed where appropriate.

5.5 Staff Training

Staff training is carried out and records are held in the site office.

Appendix 1: Emergency procedures

INTRODUCTION

It is not possible to remove completely the possibility of accidents at waste transfer stations. In all such cases it is important that corrective action be taken immediately to reduce the danger to site personnel and site visitors. It is not possible to foresee every eventuality but this procedure:

- Lays down the principles to be applied in case of emergency
- Lists immediate actions that should be taken in certain situations
- Lists secondary actions to be considered as soon as immediate actions have been taken

The content of this document will be reviewed on a regular basis, in light of experiences and as and when further changes are made at the site.

EMERGENCY FIRE PROCEDURE

- Assess the risk to personnel and site.
- Summon Fire Service if in any doubt about ability to extinguish fire.
- Summon Ambulance Service if required.
- Clear the site of 3rd parties; clear vehicles from site only if it safe to do so.
- Arrange for emergency services to be admitted, ensuring an unobstructed route and clear directions to fire.
- Ensure full roll-call of all personnel is taken and all personnel on site are accounted for.
- Direct fire fighting operations using fire hose/extinguisher, if appropriate, without risk to self.
- Assess actual or potential effect on plant and property and instruct any necessary actions to make safe.
- Co-ordinate with Fire Service Senior Officer on arrival ensuring he is aware of special risks (e.g. gas bottles, electrical supply, waste oils, etc).
- Evacuate the site if required or asked to do so by Emergency Services.
- Notify the relevant management team
- Advise Environment Agency to inform of site fire.

EMERGENCY SPILLAGE PROCEDURE

- Assess extent of spillage, type of material and determine action required.
- Direct operations if applicable, without personal risk.
- All leaks/spillages can be dealt with by site personnel- professional services should not be necessary.
- Spill kits are available on site; the sand and absorbent granules of which should be used to contain and soak up any liquids.
- Once the spill has been absorbed, the spent absorbent will be collected and containerised for disposal, ensuring proper labelling, etc, as appropriate.
- No spillages are to be washed down any drains.
- Notify the relevant management team
- Record spillage in site diary.

A spillage kit will be provided on site that will contain absorbent materials.

ACCIDENT - INCLUDING MAJOR INJURY

- Go directly to site of accident and assess any further risk to personnel and determine action required.
- If required summon Ambulance Service.
- Arrange for emergency services to be admitted via main gate, ensuring an unobstructed route and clear directions to incident.
- Direct rescue operations if applicable, without risk to self.
- Assess actual or potential effect on operations and instruct any necessary actions to make safe.
- Co-ordinate with ambulance service upon arrival, give them as much information as possible about the accident, inform them of any special risks (e.g. electrical supply, gas bottles, etc).
- Notify the relevant management team
- Record incident in site diary.

Appendix 2: Records & Forms

- Site inspection Form
- Complaints Procedure
- Training Form
- Maintenance Checklist
- Accident/Incident Record

Title	Site Inspection Form
number	

Date	Weather conditions
Operator	

Item	*Check*	*Comments*
Site fences & gate		
Management plan		
Concrete surfaces		
Staffing levels		
Machine/plant downtime		
Waste types		
Waste quantities		
Site diary		
Quarantine area		
Safety signs		
Compound condition		
Vermin		
Spillages / spill kits		
Drainage/sumps/catchpits/interceptors		
Plant		
Fuel		
PPE stock		
First aid kits		
Fire fighting equipment		

General comments and actions to be taken:

Complaints Record:

Details of Complainant Name	
Address Phone No.	
Date & Time of Complaint	
Nature of Complaint	
Who else was aware of the complaint?	
What caused the problem?	
Actions taken to prevent reoccurrence	
Was there any significant pollution or nuisance caused (eg dust, odour, noise, spills)?	
Have you informed the Environment Agency ?	When? Who?
Have you written to the local EA office ?	Y/N Date?
Print & Sign your name:	

Training Record:

	Manager		*Foreman*		*Operatives*	
	Required?	date	Required?	date	Required?	date
Technical Competency	Y		-		-	
Permit Awareness	Y		Y		Y	
General Health& Safety	Y		Y		Y	
Receipt of Waste	Y		Y		-	
Waste Separation & Storage	Y		Y		Y	
Plant maintenance	Y		Y		-	
Emergency Procedures	Y		Y		Y	

Maintenance Checklist (environmental protection infrastructure):

Item requiring maintenance	Frequency						Person Responsible
	daily	weekly	monthly	annually	2 yearly	5 yearly	
Concrete surfaces (internal)							
Concrete surfaces (external)							
Fencing & gates							
Settlement Tank /Interceptors							
Noise bund height							

Accident/Incident Record:

Date & Time of Incident	
What happened?	
Who else was aware of this?	
What caused it?	
What has been done to prevent reoccurrence?	
Was there any significant pollution or nuisance caused (eg dust, odour, noise, spills)?	
Have you informed the Environment Agency (0800 807060)?	When ?
Have you written to the local EA office ?	Y/N Date
Print & Sign your name:	

Appendix 3: Environmental Risk Assessment:

A1 Waste Transfer Station Environmental Risk Assessment

Who is at Risk	What is the Agent	Consequences	Method of contact	Likelihood	Consequences	Magnitude	Basis of Judgement	Management Techniques to Reduce Risk	Residual Risk
Local human population	Airborne asbestos fibres	Respiratory illness, cancer	Air transport and inhalation	L	H	M	Exposure potential is low due to occupational H&S controls	*Asbestos sheets (only) stored in sealed bags inside lockable/sealed container.*	L
Local human population and railway	Release of dusts	Respiratory illness	Air transport and inhalation	H	M	H	Dusts, powders, fibres not accepted. Treatment activities will produce particulate matter so there is potential exposure for local population.	*Dust management plan.* *Dust suppression at screener/crusher* *Good screening (dense vegetation and buildings) between site and residential areas.* *Use of water-bowser on internal roads and stockpiles* *Dust suppression on boundary if required.* *Hardcore stockpiles protect/enclose inert processing.* *Nearest housing is Kay St-located 216 m from site boundary.* *Railway line is 25m from inert processing point. Dense vegetation between site and houses.*	L
Local human population	Release of dust	Nuisance – cars, clothing etc	Air transport and inhalation	M	L	L	Residents often sensitive to dust	*As above*	L
Local human population	Litter	Nuisance, loss of amenity	Air transport and deposition	M	M	M	Residents often sensitive to litter	*Potentially littering waste is enclosed inside a storage bay* *Litter picking on boundary and at entrance.* *All incoming/outgoing loads sheeted.* *Litter netting along railway*	L
Local human population	Mud on roads	Nuisance, loss of amenity, RTAs	Tracked on vehicle wheels	M	M	M	Road safety – residents sensitive to mud on roads	*Concreted access road and yard* *Regular sweeping of yard and roads*	L
Local human population	Odours	Nuisance, loss of amenity	Air transport and inhalation	M	M	M	Residents often sensitive to odour	*No putrescible wastes are accepted* *Max 2 week turnaround on all*	L
Local human population	Noise and vibration	Nuisance, loss of amenity	Noise through air, vibration through ground	M	M	M	Residents often sensitive to noise and vibration	*Crushing and screening plant located behind acoustic barrier/bund (8m) Good screening (dense vegetation and buildings) between site and residential areas.*	L

Local human population	Scavenging animals, birds	Harm to human health. Loss of amenity and nuisance.	Air transport and overland	M	M	M	Permitted wastes may attract animals and birds. Some outside wastes may become nesting/breeding sites.	*Putrescible waste not accepted.*	L
Local human population	Flies	Harm to human health. Loss of amenity and nuisance.	Air transport and overland	M	M	M	Insect pests can multiply in summer months.	*As above*	L
Local human population and environment	Flooding	Contamination of floodwater with waste	Flood waters	L	M	L	Hazardous waste (asbestos and WEEE) stored in lockable containers, won't wash away. All other waste is non-haz. Not located in flood risk *zone*	*In the event of flooding site will suspend waste acceptance*	L
Local human population	All on site hazards- wastes, machines, vehicles etc	Bodily injury	Direct physical contact	M	M	M	As above	*Site security- 2.5m palisade fencing, lockable steel gates, 24 hour CCTV.*	L
Local human population and environment	Vandalism, Arson and resulting fumes and smoke	Respiratory irritation, illness and nuisance. Injury. Pollution of water or land	Air transport of smoke. Spillages and firewater- direct and indirect runoff.	M	M	M	No sludges or liquids accepted. The only haz waste is bonded asbestos and WEEE, therefore medium magnitude risk.	*As above.* *See emergency procedures*	L
Local human population and environment	Accidental fire- release to air, water and land	Respiratory irritation, illness and nuisance. Injury. Pollution of water or land	As above	M	M	M	Moderate risk of accidental combustion of waste.	*Fire prevention plan details separation distances, control of ignition sources, fire-fighting measures, containment of firewater*	L
All surface waters downstream of site	Spillages, leachate, rainwater runoff eg suspended solids	Acute effects, oxygen depletion, fish kill, algal blooms.	Direct runoff, via sw drains, ditches etc	M	M	M	No sludges or liquids. Possibility of contaminated rainwater runoff from outside wastes.	*No direct run-off to surface water, all directed through interceptor and to surface sewer.* *Fuel stored in bunded tanks in garage.* *Spill kits available at strategic locations.* *Emergency action plan.*	L
All surface waters downstream of site	As above	Chronic effects; deterioration of water quality	As above Indirect run off via soil layer	M	L	L	Apart from asbestos, all other wastes are non-haz, therefore harm is likely to be temporary and reversible.	*As above*	L
Abstraction of surface water or groundwater downstream	As above	Acute effects, closure of intakes	No downstream surface water abstractions within 500 m, closest GW abstraction 1.7 km to North of site	L	L	L	No pathway linkage	*As above*	L

Groundwater	As above	Chronic effects- contamination of GW requiring treatment or BH closure	Transport thru soil/GW then abstraction at BH	M	M	M	Concrete surfaces, all run off to surface water sewer via interceptors	*As above*	L
Local human population	Contaminated waters used for recreational purposes	Harm to human health- skin damage and gastro illness	Direct contact or ingestion	L	M	L	Unlikely to occur but may restrict recreational value.	*No recreational waters nearby.*	L
Protected sites- European sites	Any	Harm to protected site thru toxins, nutrients, smothering, disturbance, predation.	Any	L	H	M	Operations may cause deterioration of nature conservation sites.	*No such protected sites within locality.*	L
Local Nature Sites	Any	Loss of amenity or ecological value	Any	M	M	M	Sites of local importance close by	*No pathway for run-off due to sealed surfaces;* *Controls on nuisance and amenity issues as listed above*	L

November 2023 – See Report No 109/1 Environmental Risk Assessment. Covers permit changes including addition of soil washing, consolidation with the Chartrange permit, extending the permit boundary to include the product storage area to the west and increase of annual throughput to 600,000 tn per year and storage capacity to 100,000 tn per year.

Appendix 4 – Climate Change Risk Assessment

Climate Change Risk Assessment

In accordance with EA guidance on www.gov.uk and based on 'Adapting to climate change: industry sector examples for your risk assessment' for non-hazardous waste treatment

Site	A1 Transfer Station
Operator	A1 Services (Manchester) Limited
Address	Overman Way Agecroft Commerce Park Swinton, Manchester M27 8BQ
Permit No	EPR/JB3701XB
Permitted activities	Commercial, household and industrial waste transfer station - bespoke permit Note - site currently only accepts construction, demolition and excavation waste
Version and Date	14/11/2023 - Original

Review and Ammendments:

Climate change effect	Impact	Relevent to site?	Justification/Mitigation
1. Summer daily temperature	Potential for increased waste reactions or fires involving heat sensitive or combustible waste.	No	Waste currently accepted are not combiustible.
	Potential for fire if the temperature exceeds the heat rating of components in electrical equipment or components are subjected to intense and direct sunlight.	Yes	Electrical equipment fixed inside cabinets or switch rooms, away from direct sunlight.
	Potential increase in high temperature expansion and stress of plant, pipework and fittings. UV degradation of plastic pipes and hoses causing them to fail.	Yes	Regular inspection and preventative maintenance of site, plant and equipment.
	Potential increased dust emissions from processing areas, stockpiled material and site roads. Reduced availability of water for dust suppression.	Yes	Regular site cleaning and use of dust suppression
			Capturing, collecting and storing uncontaminated rain water from the yard areas and buildings in place
	Long periods of hot and dry weather could lead to a drought and may have an impact on water supplies for: emergency water usage; cooling systems; fire fighting; processes that require water as input for example aggregate and soil washing plants	Yes	Water used for dust supression
			Water is harvested and stored at the site for use in onsite processes. Underground storage tank collects surface water, above ground tank collects roof water.
	Potential increased risk of pests and scavengers from stockpiled waste such as food and drink containers, food contaminated wastes and ‘black bag’ type wastes.	No	Waste types do not include readily biodegradable waste or food waste
	Potential increased risk of wildfires impacting the site	No	Site is located on an industrial estate

Climate change effect	Impact	Relevent to site?	Justification/Mitigation
2. Winter daily temperatures	Slightly higher winter maximums could generate regular odour complaints and pest infestations.	No	Waste types largely inert
	Lower winter temperatures could result in an increased risk of pipes (or similar) freezing.	Yes	Regular inspection and preventative maintenance of site, plant and equipment.
3. Daily extreme rainfall	Potential for increased site surface water and flooding.	No	Site is in flood zone 1 with low probability fo flooding
	There is potential for drainage systems and interceptors to be overwhelmed.	Yes	Site is fitted with water storage tanks
4. Average winter rainfall	Potential for increased site surface water and flooding.	No	Site is in flood zone 1 with low probability fo flooding
	Potential for drainage systems and interceptors to be overwhelmed.	Yes	Site is fitted with water storage tanks
5. Sea level rise	If a site is located near the coast there is potential increased risk of flooding.	No	Site is inland
6. Drier summers	Long periods of hot and dry weather could lead to a drought and may have an impact on water supplies for: emergency water usage; cooling systems; fire fighting; processes that require water as input for example aggregate and soil washing plants	Yes	Water use in dry weather is greater as it is used to damp down dust
			Water is harvested and stored at the site for use in onsite processes. Underground storage tank collects surface water, above ground tank collects roof water.
	There is potential increased impact of discharge to watercourse from on-site drainage systems where connected to water courses	No	Site drainage not directly connected to watercourse
7. River flow	Increased impact from on-site drainage systems where they are connected to watercourses.	No	Site drainage not directly connected to watercourse

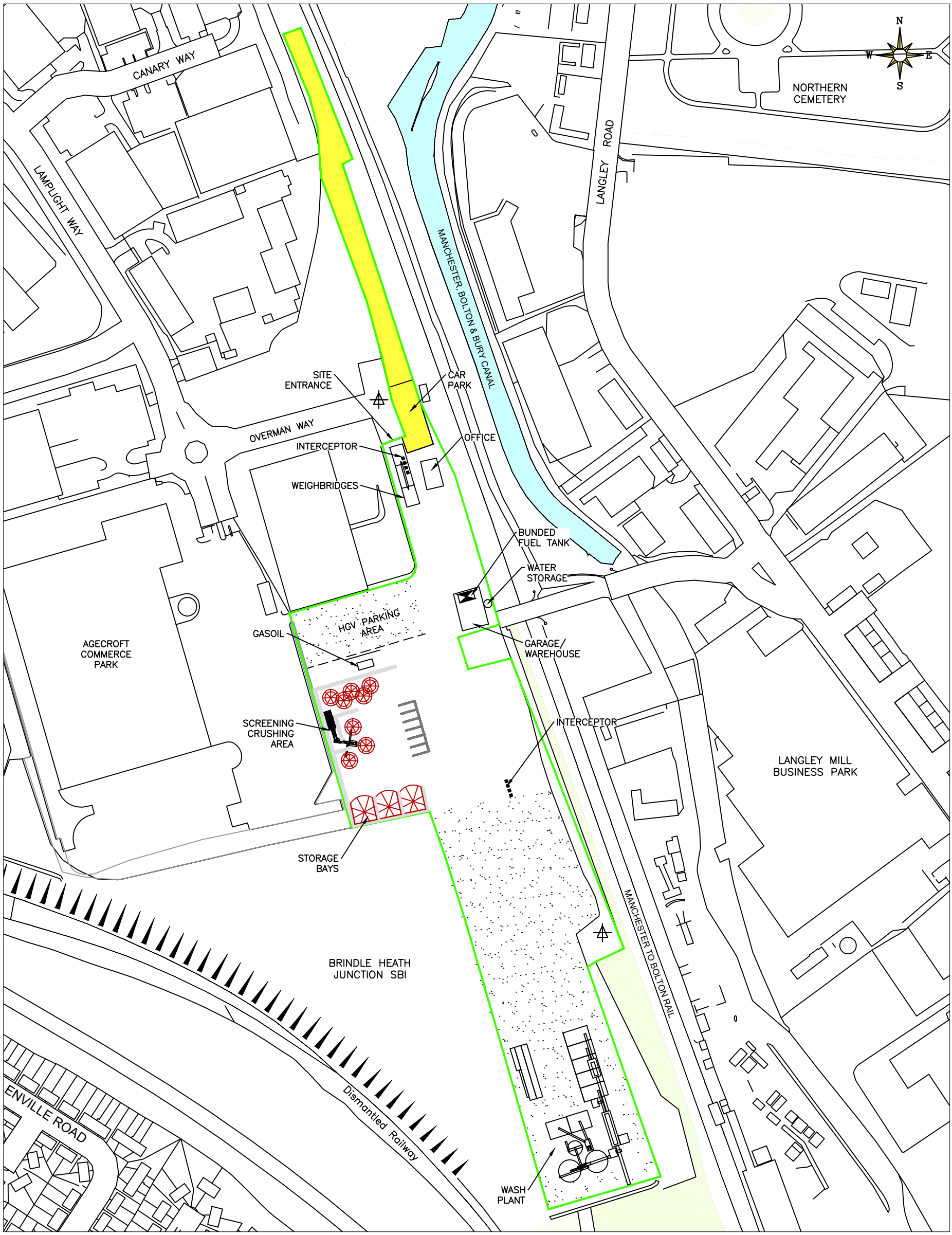
Climate change effect	Impact	Relevent to site?	Justification/Mitigation
8. Storms	Potential for high winds to damage buildings and infrastructure and blow waste from the site.	Yes	Reviewing buildings and infrastructure to identify vulnerable areas to high winds and measures to protect them and mitigate any impacts from damage
			reviewing prevailing winds to identify sensitive receptors downwind of the site
			identifying preventative measures such as wind breaks or alternative stockpile locations that will reduce the potential impact on downwind receptors
			enhancing housekeeping and cleaning measures to sure particulates on external surfaces are minimised
			being prepared for system failures during stormy weather and potential need for unplanned shutdown or mobile backup generators
	Potential for high winds to cause problems with stability of above ground storage tanks on jacks. This poses a risk to staff, plant infrastructure and the potential to release the contents of the storage tank.	No	No storage tanks on jacks
	Potential for lightning strikes to damage buildings and infrastructure.	Yes	assessing the potential and impact of lightning strikes on buildings, equipment and plant
			assessing the need to install lightning conductors

Appendix 5: Drawings

EXTRACT FROM OS LANDRANGER MAP 109 MANCHESTER, BOLTON & WARRINGTON

STARLING ENVIRONMENTAL LIMITED
67 Chorley Old Road, Bolton,
Greater Manchester, BL1 3AJ
www: starlingenvironmental.co.uk
email: claire@starlingenvironmental.co.uk
Tel: 07989 673122

CLIENT: A1 SERVICES (MANCHESTER) LIMITED		DRAWN BY: M.Y.B	APPROVED BY: C.G
JOB TITLE: A1 WASTE TRANSFER STATION		DATE: 26/10/23	DRAWING No.: 109/02
DRAWING TITLE: SITE LOCATION PLAN		SCALE @ A4.: 1:50,000	



STARLING ENVIRONMENTAL LIMITED
67 Chorley Old Road, Bolton,
Greater Manchester, BL1 3AJ
www: starlingenvironmental.co.uk
email: claire@starlingenvironmental.co.uk
Tel: 07989 673122

CLIENT: A1 SERVICES (MANCHESTER) LIMITED		DRAWN BY: M.Y.B	APPROVED BY: C.G
JOB TITLE: A1 WASTE TRANSFER STATION		DATE: 26/10/23	DRAWING No.: 109/02
DRAWING TITLE: SITE LAYOUT PLAN		SCALE @ A3: 1:1,250	

A1 Services Manchester
Tippers - Grabs - Aggregates

MUCK-SHIFTS - NATIONWIDE TIPPER & GRAB HIRE - AGGREGATES