

Odour Management Plan

PD Ports
Teesport
Middlesbrough
TS6 6UD

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EA Guidance Documents:

Odour Management - Comply with your environmental permit - December 2025

Control and monitor emissions for your environmental permit - December 2025.

Best Available Techniques – Environmental permits – January 2026.

Non-hazardous and inert wastes – appropriate measures for permitted facilities - August 2023.

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1. Introduction and Site description:

This Odour Management plan is to be read alongside the environmental permit application for PD Teesport for a proposed waste storage facility.

The aim of the Odour Management Plan (OMP) is to ensure that odour is controlled or eliminated so not to cause a nuisance and it is a working document with the specific aims to ensure that:

- Odour is primarily controlled at source by good operational practice.
- All appropriate measures are taken to prevent odorous emissions from the facility.
- Appropriate monitoring is to take place.
- Actions and contingencies are clearly specified to address problems should they arise.
- Regular reviews of the effectiveness of the odour control are undertaken.

The site is located on Tees Dock Road, Middlesbrough TS6 6UD. The surrounding area is comprised of port related industry (Drawing 01).

The North Sea is situated approximately 4.5km north and the site is located on the Tees Dock, part of the mouth of the River Tees which flows north of the Tees Dock. The total area of the proposed facility is approximately 3.6 hectares and is situated in the wider port area.

The proposed facility will handle two principal 2 waste streams.

- Metals
- Baled Refuse Derived Fuel (RDF)

Metals are not considered odorous, therefore only the Baled RDF has the potential for odour emission, which will be considered in this document.

Storage time of waste on site will be minimised wherever possible depending on customer demand and shipping schedules.

PD Ports is accredited under ISO 14001 and operates an approved Environmental Management System, which is readily available on site.

The waste storage area is a section of the existing dock space and therefore an impermeable concrete surface is laid across the entire site to create a sealed impervious base. The site has kerbing to allow for secure containment and it has a drainage system with interceptor prior to discharge. Piped mains water supply is existing.

The Tees Dock lies directly adjacent the site to the north beyond which the proposed site is surrounded by industrial and commercial premises for example large warehousing and container storage, British Steel industries and large engineering manufacturing businesses.

The site is situated alongside the main dock working area and has 24-hour security, site access by manned gatehouse only and has its own weighbridge and digital stock management system.

The closest nearest residential receptor is 3km to the Northeast, there are no sensitive receptors within 500 metres of the proposed site.

2. Receptors

The site is located within the port boundary and is surrounded by typical port related industry including industrial and manufacturing businesses.

The closest nearest residential receptor is 3km to the Northeast, there are no sensitive receptors within 500 metres of the proposed site.

The predominant wind direction at Teesport is from the southwest, leading across the port basin out towards the sea.(Diagram 2 – Global Wind Atlas)

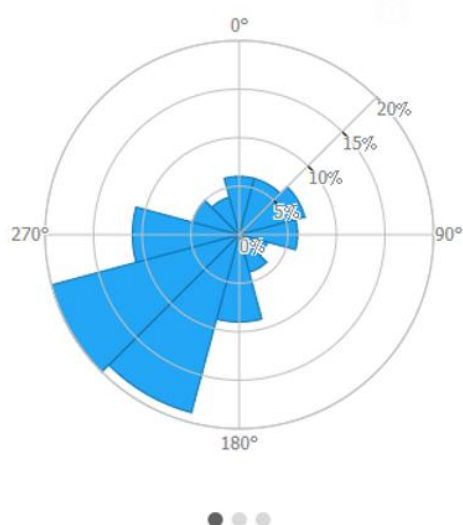
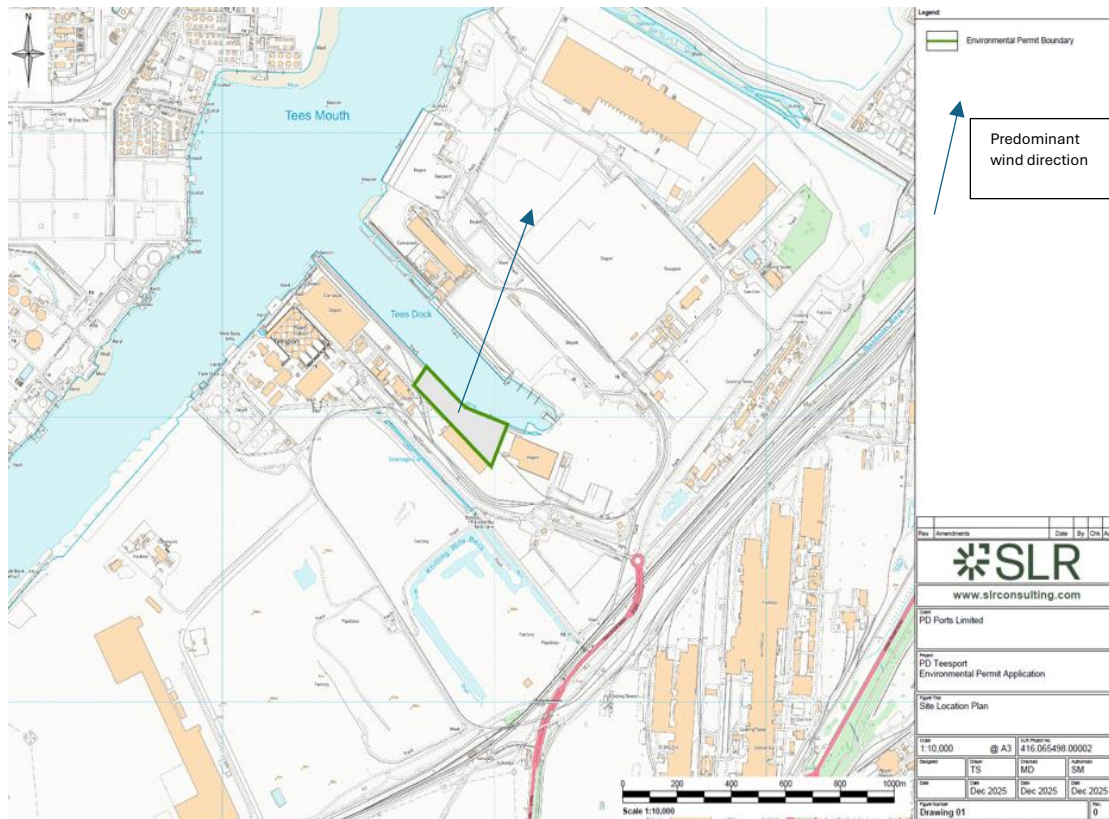


Diagram 2 – Wind Rose - Showing predominate wind from south west at Teesport.

3. Sources of odour and site processes

Metal waste is not odorous and only baled RDF will be accepted at site, which has the potential to emit odour.

As part of the Environmental Management system all waste enquiries will undergo screening via Pre-Waste Acceptance. This initial assessment requires each customer to describe the waste and includes a question regarding odour. No waste will be accepted should it be classed as odorous in the waste declaration.

Only baled RDF will be accepted and each bale is typically wrapped securely in polythene type wrapping. Each load will be delivered by curtain sided road vehicles, weighed in over the weighbridge, and directed to the waste storage area.

When the vehicle arrives for offload the sides are opened and the load will be visually inspected by the site operator to ensure no visible damage to the bales and also an initial odour assessment will be recorded.

Subject to satisfactory inspection the bales will be carefully offloaded and a further visual inspection will be undertaken. Only then will the waste be accepted into site and transferred for storage. All waste storage is external.

Source	Pathway	Receptor	Mitigation	Risk
Odour from receipt of RDF	Air	Adjacent commercial and industrial workplaces	Pre-acceptance where waste is screened prior to acceptance. Waste acceptance – only non-odorous wastes will be accepted into storage. Only securely wrapped RDF bales will be accepted and all loads will be visually inspected upon receipt. Daily monitoring will be undertaken. Care will be taken during unloading and handling and only trained FLT drivers will be employed to ensure wrapping is not damaged.	Low
Odour from storage of RDF bales	Air	Adjacent commercial and industrial workplaces	Waste acceptance – only non-odorous wastes will be accepted. Only securely wrapped RDF bales will be accepted and all loads will be visually inspected upon receipt. Daily monitoring will be undertaken. Care will be taken during unloading and handling and only trained FLT drivers will be employed to ensure wrapping is not damaged. A strict FIFO system will be implemented, to ensure minimum storage time. Daily housekeeping routine, including mechanical sweeping and washdown if applicable. Odour monitoring undertaken by designated staff. Site weather conditions including wind and temperature records.	Low
Odour from storage of baled RDF in summer months	Air	Adjacent commercial and industrial workplaces	RDF can begin to chemically degrade and emit an odour at around 75 degrees centigrade. Waste acceptance ensures only securely wrapped bales will be accepted. Bales will be stored and stacked lower in summer months to prevent trapped heat buildup. A strict FIFO system will be implemented, to ensure minimum storage time. Area is monitored by thermal cameras; any sudden temperature spike can be isolated immediately. Daily site odour checks, additional odour monitoring if required. Site weather conditions including wind and temperature records.	Low

Should any excessive or unusual odour be detected then the waste will not be accepted and either offloading will cease immediately or the waste will be moved to the quarantine area and the non-conforming waste process will be initiated.

4. Odour Control during normal operations.

Odour control during normal operations relies on source prevention and active containment and monitoring.

The site will be subject to regular housekeeping and a daily inspection incorporating odour will be undertaken and recorded.

Regular cleaning of operational areas and equipment will be undertaken using both mechanical sweeping and wash down when required. Collected sweepings will be disposed of via licenced waste contractor. Any wash waters will be collected within the drainage system and processed after testing prior to discharge or sent off site for disposal.

Mobile plant is regularly maintained by the in-house maintenance team and is subject to a planned preventative maintenance schedule.

RDF bales will only be accepted into storage once they have been inspected after unloading. They will be stored and stacked as low as possible to ensure minimise heat buildup. A strict first in, first out regime will be in place reducing the storage time on site to a minimum.

Olfactory surveys will be undertaken as a minimum of once per day around the vicinity of the storage area by nominated individuals and any odour noted will be recorded and investigated.

5. Routine monitoring, Recording and Reporting

The monitoring of odour emissions will be undertaken at least once per day to ensure there are no nuisance releases.

To evaluate the performance of the control techniques the company will monitor odour in the following ways:

- Daily programme of odour monitoring
- The potential of odour migration will be undertaken by nominated personnel (typically the site supervisor) using the sniff test method, which is sensory and the human nose is used as the detector.
- Sniff testing will be undertaken as part of the daily site daily inspection , at least once per day and any odour will be recorded.
- Additional sniff testing will be undertaken at the site boundary during periods of adverse weather, breakdown or another abnormal event.
- Occasionally non-operational staff will be invited to attend external odour surveys as operational staff may become desensitised over time to evaluate the effectiveness of the control measures.

6. Contingency and Control measures:

The site manager/supervisor shall be aware of the types and source of waste expected daily and consider those against prevailing weather conditions, equipment availability, and shipping schedules etc.

On site odour monitoring will be undertaken around the site boundary and should an external complaint be received then off-site odour surveys would be undertaken.

Should a nuisance odour be detected then the following actions will be initiated:

- Inspection of recent load documentation to ascertain that waste which may have contributed to the odour.
- Consultation with operational staff
- If the waste can be identified then the non-conforming waste procedure will be initiated and then arrange speedy removal from site.
- Ensure all complaints and actions are recorded in the Evotix incident reporting system and the company complaints procedure is followed and recorded.

Due to the site location, it is not envisaged that external complaints from members of the public will be an issue, however, should one be received then the complaint and actions/response will be recorded in the Evotix incident database and the correct protocol followed.

Diagram 3: Screenshot of Evotix database incident report relating to odour complaint



The screenshot shows a web form for reporting an incident. It includes the following fields and options:

- Incident type***: A dropdown menu with "Environmental" selected.
- Incident Sub Type***: A dropdown menu with "Nuisance" selected.
- Environmental Sub Type**: A dropdown menu with "Odour" selected.
- External Complaint?**: A checkbox that is currently unchecked.
- Instructions**: A purple box containing the text "If yes, please attach the GROUP ENVIRONMENTAL COMPLAINT FORM to this incident".

PD Ports will maintain records of all monitoring undertaken under this OMP. The records will be retained as required by the environmental permit.

7. Document updates, reviews, and management.

The facility has a site manager who has overall responsibility for the operation of the site and a dedicated compliance co-ordinator to ensure standards are adhered to.

Routine preventative maintenance and breakdown repair is the responsibility of the inhouse engineering team.

The site is manned and has security 24 hours per day , 7 days per week, with strict security and access controls in place including the Harbour Authority Police who regularly patrol the port area.

Operational staff are responsible for maintaining an awareness of general process performance during their day-to-day activities. They are instructed to note, observe, and report any unusual odour occurrences.

All staff at the facility are fully aware of the need to be vigilant with site odour control and the management and monitoring procedures.

Training records for all site personal will be maintained , especially those whose actions may have an impact on the environment.

The company has a mature procedure for complaint handling and all records will be maintained on the Evotix database.

The OMP will be reviewed and updated at least annually in line with EA recommendations. It is however a live document and will be updated more frequently should there be any notable change to the plant, operational practices, management structure and should a complaint be received which upon investigation results in further control measures being required.