

## **Grange Landfill Site, Rotherham (Dropping Well Tip) – Frequently Asked Questions (FAQs)**

*The information in this document is presented in the form of frequently asked questions (FAQs). The purpose of these FAQs is to provide a response to commonly asked questions regarding the Grange Landfill which is regulated by the Yorkshire Area of the Environment Agency.*

*We will update these FAQs as and when we receive additional questions. You may also find updated information on our on-line Information Page:*

<https://consult.environment-agency.gov.uk/yorkshire/grange-landfill-site-dropping-well-tip>

### **What's new in this issue of the FAQs? (July 2022)**

In this update we have standardised the questions to simplify the document and enable easier access to the response on specific issues of concern.

**New information includes:**

- Who to contact and how we will keep you informed
- The Agency initiated variation (Feb 2022)
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**To assist you in finding the information you need**, the Index below sorts the questions according to specific topics and contains links which will take the reader directly to the question within the document.

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## Who to contact and how we will keep you informed.

To enable us to share information more easily with the community we will use an online page where we will post our updates, newsletters and answers to the questions we are commonly asked: <https://consult.environment-agency.gov.uk/yorkshire/grange-landfill-site-dropping-well-tip/>.

### Who is responsible for the different activities on the site

Several regulated bodies take responsibility for different parts of the site:

The **Environment Agency** regulates against the permit and the waste on site, therefore our regulatory remit only extends to the landfilling activity itself.

Concerns regarding traffic movements fall within the remit of [Rotherham Metropolitan Borough Council](#) as they are responsible for regulating and enforcing the conditions within the planning permission.

Any issues with regards to health and safety on site remains the remit of the [Health & Safety Executive](#).

### Reporting an environmental incident

To report an environmental incident or concern, please call the Environment Agency's free 24 hour pollution incident hotline on:

- Telephone: **0800 80 70 60** or
- Email: [ics@environment-agency.gov.uk](mailto:ics@environment-agency.gov.uk)

Please do not try to contact our officers directly to report an incident - we cannot guarantee that your call will be logged and dealt with in a timely manner unless it is made through the pollution incident hotline. If you would like to receive feedback following your report, please can you confirm this whilst reporting your incident.

## Why was a permit variation granted for this closed landfill site?

When landfilling operations ceased at the site in the 1990's, the existing planning permission and environmental permit which allowed landfilling remained in place.

The Environment Agency were therefore legally obliged to consider any proposal to resume landfilling. We must have regard to due process and legislation when considering applications made to us and providing a business can prove that a site

meets all the legal requirements, including environmental, technological and health requirements, then we are legally obliged to issue a permit.

We had no grounds to refuse the permit holder's (Grange Landfill Ltd) application to resume landfilling. We have, however, ensured that the permit has been updated to require that the new landfilling is governed by modern regulatory standards to protect both the environment and the local community.

We recognise that the resumption of landfilling will be unwelcome in the local community, but we must have regard to due process and legislation, and we can only consider the proposal on the merits of the supporting operating procedures and environmental risk assessments required by the legislation. In this case, we had no cause or grounds to refuse the operating company's application or to subsequently revoke the permit.

### How can re-opening this landfill site be safe?

There will be no excavation into, or disturbance of, the historically deposited waste area. The area to be filled has not been tipped before.

Grange Landfill Limited have provided detailed operating procedures and environmental risk assessments in support of their application to us and, after consideration, we were satisfied that these did demonstrate that the proposed activity complied with the current legislation.

Our specialists are satisfied that we have taken all relevant considerations into account in reaching the decision to allow a resumption of landfilling.

### Why wasn't the community consulted?

We recognise the concerns that the local community were not consulted on the variation application. We consult the public on certain applications for waste operations but not all. The arrangements for consultations are explained in our guidance '[Environmental permits: when and how we consult](#)' which can be found on gov.uk.

This particular application did not require us to formally consult, however we accept that it may have been helpful to speak to Rotherham Metropolitan Borough Council ahead of the variation.

When a consultation is carried out in regard to an environmental permit it is to understand the risk to the environment and human health of the activity, not about where the site is (as that is subject to local authority planning decisions) or who is doing the work (providing they are assessed as being fit and proper). We issue a permit unless evidence shows that there is a risk to the environment or human health.

The evidence available at the time the permit was determined was sufficient for our specialists to understand and consider that risk and include the necessary conditions that the operator must follow. If any relevant evidence is found to the contrary, then there could be a further variation to the permit to ensure mitigation of that risk. However, it is unlikely that in this instance it would result in a situation where the permit could be revoked.

### Won't local roads and traffic be affected by the vehicles to the site?

Our regulatory powers are restricted to the landfill activity itself. We have no powers regarding the regulation of traffic to and from the site and any associated disturbance. Such matters are the remit of Rotherham Metropolitan Borough Council.

Our decision to grant Grange Landfill Limited permit variation application to allow the resumption of landfilling at this site was the subject of detailed internal peer review. We are satisfied that we have acted appropriately in making this decision.

### What do we consider when we determine a permit?

**We can take account of:-**

<b>Operator</b>	
Control of the facility	That the applicant (now the operator) is the person who will have control over the operation of the facility after the grant of the permit. The decision was taken in accordance with Environmental Permitting Regulations – Regulatory Guidance Note 1 - Understanding the meaning of operator.
<b>European Directives</b>	
Applicable directives	That all applicable European directives are considered in the determination of the application. The key Directive for a landfill permit is the Landfill Directive.
<b>The site</b>	
Extent of the site of the facility	Assess the site plan the operator has provided showing the extent of the site of the facility. This plan will be included in the permit and the operator is required to carry on the permitted activities within the site boundary.
Site condition report	Review the information submitted detailing a description of the condition of the site. We review this description in accordance with our guidance on site condition reports and baseline reporting under Industrial Emissions Directive – guidance and templates ( <a href="#">H5</a> ).
Environmental risk	We review the operator's assessment of the environmental risk from the facility. Where additional information is required to fully evaluate environmental risks this information maybe be provided through Pre Operational Conditions listed in the permit. No waste will be allowed on site until the risks have been fully assessed following a review of this information.

Operating techniques	<p>We review the techniques used by the operator and compared these with the relevant guidance notes.</p> <p>The relevant Technical Guidance Note for a landfill permit is TGN 5.02 Landfill and the Environment Agency's Environmental Permitting Regulations (EPR) Inert Waste Guidance: Standards and Measures.</p> <p>We ensure that proposed techniques/emission levels for the facility are appropriate and in line with the benchmark levels contained in the Technical Guidance Note.</p>
<b>The permit conditions</b>	
Waste types	<p>We review the list of wastes which the operator proposes to accept on site for recovery/disposal. The permit will specify the permitted waste types, descriptions and quantities, which can be accepted at the regulated facility. The wastes are inert and to be deposited on a Landfill Directive compliant inert landfill.</p>
Pre-operational conditions	<p>Based on the information in the application, we consider that we need to impose pre-operational conditions:</p> <p>Pre-operational conditions are required for the following issues;</p> <p>The location and design of groundwater monitoring boreholes and establishment of baseline conditions including groundwater compliance limits; installation of in gas monitoring boreholes; the size and location of on-site surface settlement lagoon; and finally, the characterisation of emissions to the surface water sewer.</p> <p>No waste will be deposited on site until these pre-operation conditions are compiled to the satisfaction of the Environment Agency.</p>
Incorporating the application	<p>We require that the applicant must operate the permit in accordance with descriptions in the application, including all additional information received as part of the determination process.</p> <p>These descriptions are specified in the Operating Techniques table in the permit.</p>
Emission limits	<p>Determination of strict emission limits for both groundwater and surface are to be agreed following the completion of Pre-Operational Condition number 1 for groundwater and 4 for surface water.</p> <p>No waste will be deposited on site until these pre-operation conditions are compiled to the satisfaction of the Environment Agency.</p>
Monitoring	<p>Environmental monitoring shall be carried out for the groundwater, surface water and landfill gas.</p> <p>The methods detailed and to the frequencies specified in the permit are in accordance with Environment Agency Guidance TGN02 'Monitoring of Landfill Leachate, Groundwater and Surface Water' (February 2003).</p>
Reporting	<p>There are specific reporting requirements specified within the permit, which require submission of all environmental monitoring undertaken on site. In addition the operator must notify the Environment Agency of any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution.</p>
<b>Operator Competence</b>	



Environment management system	We have reviewed the operators Environment Management System and there is no known reason to consider that the operator will not have the management systems to enable it to comply with the permit conditions.
Fit and Proper Person	We have carried out our Fit and Proper Person assessments appropriately and in accordance with the designated criteria and we consider Grange Landfill Limited is a competent operator.
Relevant convictions	The National Enforcement Database has been checked to ensure that all relevant convictions have been declared. No relevant convictions were found.
Financial provision	No activities authorised by the permit shall be commenced unless the operator has entered into an Agreement with the Environment Agency to secure financial provision from meeting the obligations under the permit and has provided the provision.

### **We cannot take account of**

- Anything outside the remit of the Environmental Permitting Regulations (EPR), e.g., the proposed location of the site, which is done by the local authority via land use planning.
- Whether a site should have a formal designation under Habitats Directive or other conservation legislation.
- Whether the activity should be allowed or not as a matter of principle.
- Land use issues when determining a permit application, even if changing the location of the activity would improve its environmental performance.
- The impact of noise, dust or odour from traffic travelling to and from the site.

We will grant a permit/variation if the operator is able to demonstrate that they can carry out the activity without significant risk to the environment or human health.

### **What is the predicted timescale for the site to be completed?**

The activity involves the deposit of 661,000m<sup>3</sup> of inert waste at a rate of 150,000 tonnes/83,333m<sup>3</sup> per year. Based upon these calculations it is estimated that it will take approximately 8 years to complete. However, this timescale is purely dependent on the volume of inert waste being available. As there is significant variation in the availability of inert waste being available at any one time; in all likelihood the proposed timescale to complete are considered very conservative.

### **What happens when the operator of the site stops taking waste?**

Once a landfill site is full and it cannot accept any further waste, it is closed. After this happens the permit still requires the permit holder to complete the monitoring required by the permit until the waste mass is stable and no pollution is occurring. This can take up to 20 years.

To remove the obligation to comply with the requirements of a permit the operator has to apply to the Environment Agency to surrender the permit. To do this it needs to demonstrate, using site monitoring data that the site no longer presents a

significant risk of pollution or harm to human health. We would only accept a surrender application when this can be demonstrated.

### At what date will the operator be required to restore and surrender the site?

This is purely dependant on the volume of waste accepted per year, this is explained in more detail above in [“What is the predicted timescale for the site to be completed?”](#).

A permit remains in force until it is surrendered or revoked. The permit would not be surrendered, unless an application to surrender the permit was received from the operator and the Environment Agency considered that the site no longer poses a risk to the environment or human health. This surrender process is robust and can only be considered once waste activities have ceased and the site restored in accordance with the permit requirements.

### Agency Initiated Variation

An Environment Agency instigated variation to the current permit on Grange Landfill was issued in January 2022, and can be viewed on our online information page. The requirement of the variation was purely from an administrative perspective, to amend the registered office address and confirm the financial provision agreements. This variation does not authorise an amendment to the current activities already authorised, nor any change in environmental monitoring.

### When will the landfill start to accept waste for disposal?

When all the necessary engineering works to comply with the permit conditions are complete, the operator will submit a validation report for Cell 1 to the Environment Agency. If we are satisfied that all conditions have been met to the required standard, the Operator will be given permission to operate the landfill site.

More detail is available below in [“What happens when all the preparatory works are complete?”](#)

### What types of waste will be able to be tipped at this site?

Grange Landfill is restricted to **inert waste** which is defined as *“waste that does not undergo any significant physical, chemical or biological transformations. Inert waste will not dissolve, burn or otherwise physically or chemically react, biodegrade or adversely affect other matter with which it comes into contact in a way likely to give rise to environmental pollution or harm human health. The total leachability and pollutant content of the waste and the eco-toxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater.”*

It is important to note that there will be no excavation into, or disturbance of, the historically deposited waste (Phase 1).

### What conditions have been put in place to protect the environment and improve the site?

Once we were satisfied that the new activity complied with current landfill regulations and environmental standards, we varied the existing environmental permit to impose conditions requiring Grange Landfill Limited to carry out the landfilling in accordance with their operating procedures and environmental risk assessments.

We also imposed conditions requiring Grange Landfill Limited to install environmental monitoring boreholes around the whole site, including the historically deposited waste, and to monitor the boreholes for an extended period to establish background conditions before landfilling could resume.

Our specialists are satisfied that the conditions we have imposed through the variation are appropriate and provide us with the necessary controls for us to require the operating company to adhere to its operating procedures and environmental risk assessments.

### Are there conditions in place for the removal of the vegetation? Some of this has been growing for over 20 years and will have deep roots.

No details have been provided on the methodology with regards to removal of the vegetative cover on the northern flank of Phase 1. Albeit we will be seeking reassurance from the operator that all precautions are taken whilst undertaking this activity. We will not be requiring removal of established deep roots, rather these trees and shrubs be cut down to the base.

Throughout the construction phase to regularise the slope gradients as far as practical on Phase 1, which may involve the placement of additional subgrade against the flank, this work shall be supervised under Construction Quality Assurance (CQA).

### Is Financial provision in place in accordance with the pre-operational conditions? And what can it be used for?

We can confirm that as of 4 March 2021 financial provision was secured and in place in accordance with Condition 1.21 of the permit. The agreed financial provision is set aside by the operator to cover their costs of meeting all the obligations of the permit including during the aftercare period. Financial provision does not cover the day to day costs of operating the site or the costs of installing operational infrastructure. There are specific circumstances that allows us to call upon the fund to undertake essential pollution prevent works, although funds cannot be used to fulfil planning permission requirements.

## Is there is a time limit for the operator to fulfil the pre-operational conditions in relation to the engineering works?

There is no limit on the time given to complete any pre-operational condition specified within the permit. As the term pre-operational would suggest, the specified activities, namely deposit onto land for disposal cannot commence until all pre-operational work has been completed.

## The permit makes reference to the operator using appropriate measures, what are 'appropriate measures'?

Some of the conditions specified within the permit require the operator to take appropriate measures in order to comply with them. European directives use various terms to describe what type of measures should be taken to prevent pollution such as "all appropriate preventative measures", "reasonable", "best available" and "best practicable". These can all be interpreted slightly differently but have the same general meaning that we call appropriate measures.

It is important that the operator takes all reasonable measures to prevent or minimise pollution. Appropriate measures will be based on those described in industry or sector guidance, good practice and an assessment of the costs and benefits. As a minimum we expect operators to implement the measures described in industry or sector guidance or specified in the management system providing these same level of protection.

## Why is the site not yet fully secure? And will it be, before operations are permitted?

The current permit at Grange Landfill site does not contain any specific condition relating to security, this aspect of site operations is controlled through the site Environmental Management System (EMS). Primarily we require security measures be installed to prohibit unauthorised public access as far as practicable to the operational areas of the site and to prevent unauthorised vehicles gaining access.

Operational areas include:

- areas of the installation where active tipping is taking place;
- leachate and gas plant and
- any area where landfill gas or leachate extraction systems are exposed and could be subject to deliberate damage.

The EMS for this site states: The site entrance and compound will be secured with 2m high palisade fencing and lockable gates. The remainder of the fencing around the site is currently chain link, which will be eventually replaced with stock proof fencing.

Following discussions with the operator in 2018, security fencing was installed around the site. Unfortunately, damage was caused to the fencing by unknown individuals. Repairs were then undertaken by the operator, but damage was caused again. As a temporary measure until the site becomes fully operational the operator constructed security bunds to limit access to the site.

We raised the issue of the damaged fencing with the operator on 23 March 2021. They acknowledged that the fencing needs to be in place, and they are planning to do this when they have a full time presence on site actually working on Grange Landfill. The bund is currently fulfilling the purpose of stopping any unauthorised vehicles entering the site.

### How do you know a person is fit to operate a site?

The Environmental Permitting Regulations (EPR) clearly set out [the criteria](#) which we can take into account when considering someone's suitability at the determination stage as a Fit and Proper Person. The director of Grange Landfill Limited had not been convicted of a relevant offence and did not have a record of continued and serious non-compliances with current permits. We have carried out our Fit and Proper Person assessments appropriately and in accordance with the designated criteria and we consider Grange Landfill Limited is a competent operator.

### What checks were carried out to ensure these individuals / companies have the necessary qualifications / experience?

Before any of the infrastructure works commence we require the Operator to provide the CV for their nominated CQA Engineer and CQA Inspector. We require that CQA Personnel should have the minimum qualifications and experience as specified in our guidance - LFE 4 Earthworks on Landfill Sites.

### Has the operator appointed the CQA Engineer and CQA Inspector?

The Operator has appointed the Arley Consulting Company Limited.

### What investigations were carried out on phase 1 of the existing tip to ensure that it is structurally sound?

A stability risk assessment was carried out in 2016 which considered the basal sub-grade, the global stability of the basal sub-grade and landfill side slopes, and the stability of the restoration layer.

The assessment concludes that the Over Design Factors are greater than 1.00, even with a high leachate level. Therefore we consider the landfill design to be safe.

With regards to the stability of the restoration layer the assessment has considered potential differential settlement between Phase 1 and Phase 2, due to variations in compressibility between the existing waste which has been in place for many years and the new waste. The assessment concludes that the tensile strains in the

restoration layer are less than 3%, even with very conservative differences in compressibility. Again we consider the design to be safe.

### Is there a liquid leachate coming from phase 1?

We have received reports regarding this along with several photographs. The images seemed to suggest that the oily residue is a result of a common phenomenon caused by iron bacteria within the soils naturally producing hydrocarbon that creates an oily-looking film. This can be seen as a sheen where it comes into contact with water and can also lead to slimy rust-coloured iron bacteria deposits.

We considered this was likely to be the cause rather than leaching from Phase 1. To establish this, we undertook a site inspection on the 21 April 2021 and confirmed this to be the case.

### Were heavy metals and radioactive material being dumped at the site by the previous operators as suggested by anecdotal evidence?

There is no evidence that radioactive material has been previously deposited within Phase 1 of the landfill. The site has never been authorised/permited to accept radioactive waste, and a strict regulatory regime applies to the movements of such material.

### How will Grange Landfill Ltd comply with the planning conditions which state the heights for phase 1 and phase 2 must be level?

Although reference to approved final post settlement contours for the restoration of landfill is made within Section 2.2.5.1 of the Environmental Setting & Installation Design (Report 15748/1) dated December 2015 and illustrated on Drawing No 15748/05, the Environment Agency does not regulate the permitted development heights that are stipulated within the planning consent, this is for Rotherham Metropolitan Borough Council to enforce.

The Environment Agency are aware of the issues regarding the height of Phase 1 and that final contours between Phase 1 and Phase 2 may differ to those proposed within the aforementioned report.

### Why won't the operator just do what they want on site?

Our regulatory officers will closely monitor activities at the site. Grange Landfill Limited has a legal obligation to comply with the conditions of the permit and we will use our regulatory powers in accordance with our guidelines in the event of non-compliance.



We will work closely with our partners at Rotherham Metropolitan Borough Council when regulating the site and on associated matters, such as traffic, that fall under the Council's remit.

### How will you ensure that the operator fulfils their requirements to monitor the environment?

The permit contains conditions to provide assurance that the landfill activities do not cause harm to human health or the environment. The permit requires the operator to undertake regular monitoring from groundwater monitoring boreholes that have been installed external to the site, in addition to the surface water and landfill gas monitoring undertaken on site.

This monitoring provides data about any change to the local environment and the data is used to determine the surrender of the permit.

### How will the activities on site be regulated?

The activities on site will be regulated by the Environment Agency in a number of ways:

**Inspection** - where an officer visits the site. Inspections are usually planned but can be unannounced. Environment Agency staff undertake a compliance visit, which is an assessment of the activities being undertaken on site in line with the environmental permit.

**Compliance Assessment** - The Environment Agency undertake compliance assessments which are desk-based reviews of whether the site is complying with permit requirements, for example reviewing submitted environmental monitoring data and waste returns data.

The Environment Agency may take action if they suspect that a breach of permit conditions has occurred. Our actions might include:

- giving advice and guidance,
- amend permit conditions,
- serving an enforcement notice, which will state what have to be done to bring activities back into compliance and by when,
- serving a suspension notice if there's a risk of pollution,
- prosecuting if we believe it's in the public interest.

### How often will the Environment Agency undertake routine site inspections?

In December 2019 we agreed with Rotherham MBC (RMBC) that we will seek to undertake routine site inspections on quarterly basis until further notice. However, the impact of the Coronavirus pandemic severely restricted our ability to deliver on this agreement. We, like many other regulatory bodies, had to prioritise what we do and ensure we all make the right choices about where and how to work and our environmental focus was on preventing serious harm to the environment. That means, for example, continuing as far as possible to regulate high risk and high

impact industries; responding to major pollution incidents; and fulfilling our legal duties. As Grange Landfill is considered a low risk site, as it was not yet operational, we were unable to commit to undertaking inspections on quarterly basis.

Since the lifting of government restrictions in 2021 we have resumed more regular site inspections and copies of inspection reports (CAR forms) are now published on our Information Page. We expect quarterly inspections to continue, however this will be subject to whether any further government restrictions are imposed.

It is important to be aware that there are other regulatory activities that the Environment Agency undertakes for each site in addition to our physical site inspections.

We need to be flexible in our regulatory approach to ensure that focus is placed on those sites that pose the greatest risk to the environment. The annual subsistence charges paid by permit holders are based upon the costs to the Environment Agency of providing an effective level of regulation of those activities. Consequently, our regulatory activities need to be consistent with the charges it receives from permit holders and should reflect the site's performance.

### How will you protect the children that play football at the Juniors Football club yards from the tip site, from the particles that will be in the air?

The onus is on the permit operator to comply with their permit. Our officers will closely monitor activities at the site. If the permit holder fails to comply then we can take regulatory action in accordance with our Enforcement and Sanctions Policy, providing we have robust evidence, gathered by an appropriate officer to show that the conditions have been breached. There are also several operational management procedures referred to in the permit, which the operator must abide by.

These operational management procedures are regularly reviewed to ensure they are fit for purpose. Where we consider that additional safeguards are required we can initiate a permit variation to include them. Permit reviews are completed periodically by ourselves, this is typically, but not always every 6 years for operational sites.

### What further preparatory works are to be undertaken on site before waste for disposal can be authorised on site.

The majority of the preparatory works on site have now been completed.

### What happens when all the preparatory works are complete?

When all the necessary engineering works to comply with the permit conditions are complete, the operator will submit a validation report for Cell 1 to the Environment Agency. If we are satisfied that all conditions have been met to the required standard, the Operator will be given permission to operate the landfill site.



We currently expect the validation report for Grange Landfill to be submitted sometime during August 2022. We then have 28 days to review the report and make our decision on whether to approve the report and so enable waste tipping to commence, or to reject it pending further works.

### Why are Grange Landfill Ltd being allowed to bring waste onto site before they have the official go-ahead?

Waste can be imported to the site for 2 purposes related to the preparation of the site prior to being operational:

1. Firstly, up to 5000 tonnes of material can be used under the U1 exemption to construct the haul road and a base for the compound.
2. Secondly, waste can be imported under the conditions of the environmental permit in order to engineer the containment bund which forms part of the geological barrier. This is a requirement for all landfills under the Landfill Directive.

### How will you monitor the amount and type of waste being imported for construction under the U1 exemption?

We have undertaken a number of site inspections whilst the preparatory works to construct the site compound and access road were undertaken. There is no evidence to show that any of the wastes accepted on site as part of these preparatory works are not suitable in accordance with the U1 Exemption.

We cannot inspect every load that is accepted on the site. However, mechanisms are in place that require waste producers, waste carriers and operators to take all reasonable steps to ensure the safe management of waste to protect human health and the environment.

Not only is the operator required to comply with the waste acceptance requirements specified within the permit, under the Duty of Care (DoC) requirement they must also keep all records of waste movements and ensure that the waste is accurately described.

The waste streams authorised by the U1 exemption for use in construction are restricted to ensure the waste is suitable; records kept in accordance with the DoC requirement must meet with these waste stream restrictions. No issues were raised during our site inspections with respect to waste being accepted as part of the U1 activities.

## Why are the Environment Agency permitting these bunds - what is the reason?

A geological barrier is a fundamental requirement for all landfills under the Landfill Directive. The geological barrier is necessary to provide sufficient attenuation to prevent a potential risk to soil and groundwater, and the containment bund forms part of the geological barrier.

The acceptance of waste for the construction of the external bunds is an authorised activity specified within Table S1.2 of the permit (R5 – Recycling/reclamation of other inorganic material). The engineered bunds must be in place and its construction approved by us, prior to any waste being accepted at the site for disposal.

Construction of the engineered bund is subject to a detailed specification and Construction Quality Assurance plan. This is standard procedure for the development of any new landfill phase. In accordance with Condition 2.5.1 of the permit, landfill infrastructure construction proposals were submitted to the Environment Agency for approval, subsequent approval of the engineering proposals were confirmed on the 20/12/2018. Condition 2.5.2 of the permit specifies that construction of landfill infrastructure shall take place only in accordance with the approved construction proposals unless;

- (a) any change to the approved construction proposals would have no impact on the performance of any element of the design; or
- (b) a change has otherwise been agreed in writing by the Environment Agency.

## How big do the containment bunds need to be??

The construction of the bund is subject to a detailed specification and Construction Quality Assurance plan. This is standard procedure for the development of any new landfill phase. The containment bund will be 3 m high with a crest width of 2m and side slopes set at a 1:3 gradient which determines the bund's basal width. Concerns have been raised about the size of the bund and we requested that the Operator speak to the CQA engineers and provide drawings to match what is being built.

A subsequent site inspection was carried out on 1 June 2022 where this issue was discussed, revised drawings detailing what has been constructed shall be submitted by the CQA Engineers. Work to resolve this matter is ongoing.

## How many boreholes are on site?

There are 6 groundwater monitoring boreholes around the site: (BH01, BH02, BH03, BH04 BH05 & BHA.) However, BH05 was found to be vandalised in 2019 and no longer functional.

## What happened to borehole 5 (BH05)?

BH05 was found to be vandalised in Oct/Nov 2019. An investigation was undertaken into allegations made that the borehole was out of commission for some time prior to

being reported to the Environment Agency and therefore allegedly false monitoring data from the borehole was being submitted. No evidence was found to support these allegations.

### Will Borehole BH05 be re-instated?

We have informed Rotherham MBC that reinstatement of BH05 would be our preference. We understand that the operator has requested a grant of access on to the land owned by RMBC so that BH05 can be reinstated on the eastern boundary of the site.

### What will happen if the borehole is not reinstated?

The reinstatement of BH05 is preferable but not essential to the monitoring of any impacts from the landfill site. If it were in place, it would give a fuller picture to demonstrate that the landfill is performing as designed and to provide reassurance that site is not having a discernible impact upon groundwater, by reference to a pre-established baseline reading.

If no agreement can be made regarding reinstatement of BH05, then any potential cross-gradient impact on the groundwater from Phase 1 cannot be determined, which was one of the primary reasons for its installation, along with determining baseline conditions.

However, failure to reinstate BH05 is not critical in terms of permit regulation as there remains sufficient up-gradient and down gradient groundwater monitoring boreholes on site to assess any potential groundwater impact.

### Is a proper functioning BH05 a requirement of the site's permitting conditions?

Reinstatement of BH05 will ensure there is an enclosing envelope around the site footprint to enable accurate determination of any potential impact upon groundwater from the site. It would also enable us to identify when a site no longer presents a significant risk of pollution or harm to human health enabling an application for a certificate of completion to be made, and thereby formally end the licensing or permitting process and the legal duty to monitor.

Ultimately if no agreement can be made regarding reinstatement of BH05, then any potential cross-gradient impact on the groundwater from Phase 1 cannot be determined, which was one of the primary reasons for its installation, along with determining baseline conditions.

However, as sufficient information is available to determine the baseline conditions before activities on site have commenced; and there remains sufficient up-gradient and down gradient groundwater monitoring boreholes on site to assess any potential groundwater impact, then failure to reinstate BH05 is not critical in terms of permit regulation.

What are you doing to investigate the nuisance of dust affecting residents, and to ensure that the operator is fulfilling their obligations to ensure that dust suppression measures are in place?

We have received a number of reports from the community relating to:

**i. Dust being generated both from the HGV's travelling back and forth along the haul road leading up to the site.**

Dust generated from the use of the haul road leading up to the site is outside the remit of the Environment Agency. This will be regulated as part of the Planning Permission and issues should be referred to Rotherham Metropolitan Borough Council.

**ii. Dust blowing off the site.**

The operator should be using appropriate measures to prevent or where that is not practicable, to minimise the risk of dust blowing off site. As part of our routine inspections we review the appropriate measures being deployed on site to minimise the risk of dust and mud on road, and the measures currently in place are adequate to minimise the risks posed, provided they are adhered to at all times.

For clarity the following appropriate measures detailed within the Operator's Environment Management System shall be deployed at all times to minimise the risk of dust:

- Generation of dust from the operational area is minimised by keeping the operational area to a minimum to minimise open surfaces which may generate dust.
- Tipping will be suspended during periods of high winds if dust is observed to be carried beyond the site boundary onto neighbouring land.
- The access road will be inspected during periods of dry weather and when required will be damped down using a bowser to keep dust generation to a minimum.
- The access road will be swept to remove dried mud which may become a source of windblown dust.
- A speed limit of 10 mph on the access road and 5 mph on operational areas will be imposed on all site traffic to help reduce dust generation.

We have communicated both verbally and in writing with the Operator and reminded them of their duty to comply with permit requirement and ensure that measures are stringently maintained to prevent, or where that is not practicable, to minimise dust being emitted beyond the site boundary.

We have also undertaken an unannounced site inspection in response to reports of dust coming from the site. On that occasion we found appropriate measures were being deployed and no dust related issues were recorded.

Unfortunately, we cannot attend each and every report we receive, we have to prioritise the deployment of our resources to ensure we are able to respond to the incidents which pose the greatest risk to the environment. We take all reports of environmental pollution seriously and your report has provided us with useful information and has been combined with other data and information we hold. This will help us to build a picture of environmental threat the site may pose. Please do continue to report any new, recurring or worsening pollution on our free incident hotline: **0800 80 70 60**.

In April 2021, there was a fire at a site in Sheffield also managed by the operator of Grange Landfill. Do you still consider them to be suitable operators for the disposal of waste?

With respect to Grange Landfill Limited, we have no immediate concerns regarding their suitability as an operator.

What would the effects of a similar fire at Grange Landfill be to the waste already deposited in Phase 1?

Grange Landfill is only permitted to accept inert waste on site therefore the risk of fire is minimal. In addition all waste deposits within Phase 2 of the landfill will be physically separated from those wastes deposited within Phase 1.

Conclusion of South Yorkshire Fire & Rescue Service (SYFRS) investigation into the fire (April 2021) at MHH site on Carlisle Street, Sheffield.

Following the investigation by SYFRS their findings conclude that the fire was accidental and was a result of accumulation of stacked mixed waste which had been in position for a number of years. The Environment Agency has accepted the SYFRS report and is not conducting any further investigation into the cause of the fire.

We will continue to work with the operator to ensure the site is compliant and operates within the permit conditions and regulatory framework.

What was the outcome from the investigation regarding alleged irregularities in the environmental monitoring data submitted by the site operator?

We received multiple complaints alleging irregularities in the environmental monitoring data submitted by the site operator, relating to borehole BH05. We take all complaints extremely seriously and we have thoroughly investigated the complaints.

Upon reviewing correspondence obtained from a number of sources and discussions held with the operator we concluded that BH05 was not destroyed in April 2017 as alleged, although we are aware that damage to the head works was caused to BH03, BH04 and BH05 in 2017. Work was undertaken to repair the damage to BH03, BH04 & BH05, following which the operator has continued to obtain samples from these boreholes, other than BH05, which became no longer serviceable from November 2019 onwards.

We are certain that groundworks were undertaken in the area around BH05 by a third party contractor in April 2019. Millmoor Juniors football club were instructed to repair the track by RMBC, after the club had used it to access land they lease from RMBC. There was no specific request as part of these groundworks to remove BH05.

On 30 January 2020 we received from the Operator the Annual Monitoring Report – 2019 for the Site (Report number 15748/13). This annual report is required to be submitted in accordance with Condition 4.2.2 of the permit. Sections 3.6 & 3.14 of the report make reference that BH05 was vandalised and that samples were unable to be taken in November 2019. We challenged the operator's ability to locate and obtain groundwater samples after these groundworks had been undertaken. Without definitive evidence it is not possible for us to dispute the operator's version of events that BH05 was still serviceable up until October 2019 after which time it became no longer serviceable.

Therefore we found no evidence to suggest that the site operator had falsely submitted sampling data from the borehole once it had fallen out of service.

### What did you do about the reports (June 2018) that trees were cut down or were in danger of harm?

Environment Agency officers visited the landfill site and met with the Operator on 13 June 2018, following several reports of concern about the trees that had been cut back during bird nesting season. This may be a breach of the Wildlife and Countryside Act 1981, subject to investigation by the Police's Wildlife Crime Officer, however this is not a breach of the Environmental Permit.

Our Biodiversity team provided advice and guidance to the Operator and informed the Wildlife Crime Officer in South Yorkshire Police.

In regard to concerns about Walkworth Woods, we reviewed the exact area that is designated as ancient woodland and its proximity to the Grange Landfill permit. The ancient woodland is neither within nor adjacent to the Grange Landfill Permitted area. We understand, that the woods are protected within the planning system, for which we are not the competent authority. [End]