

REPORT

Sandsfield Gravel Company Ltd
Milegate Eastern Extension Quarry and Landfill

Site Condition Report

Submitted to:

Sandsfield Gravel Company Ltd

Catwick Lane
Brandesburton
Driffield
East Yorkshire
YO25 8SA

Submitted by:

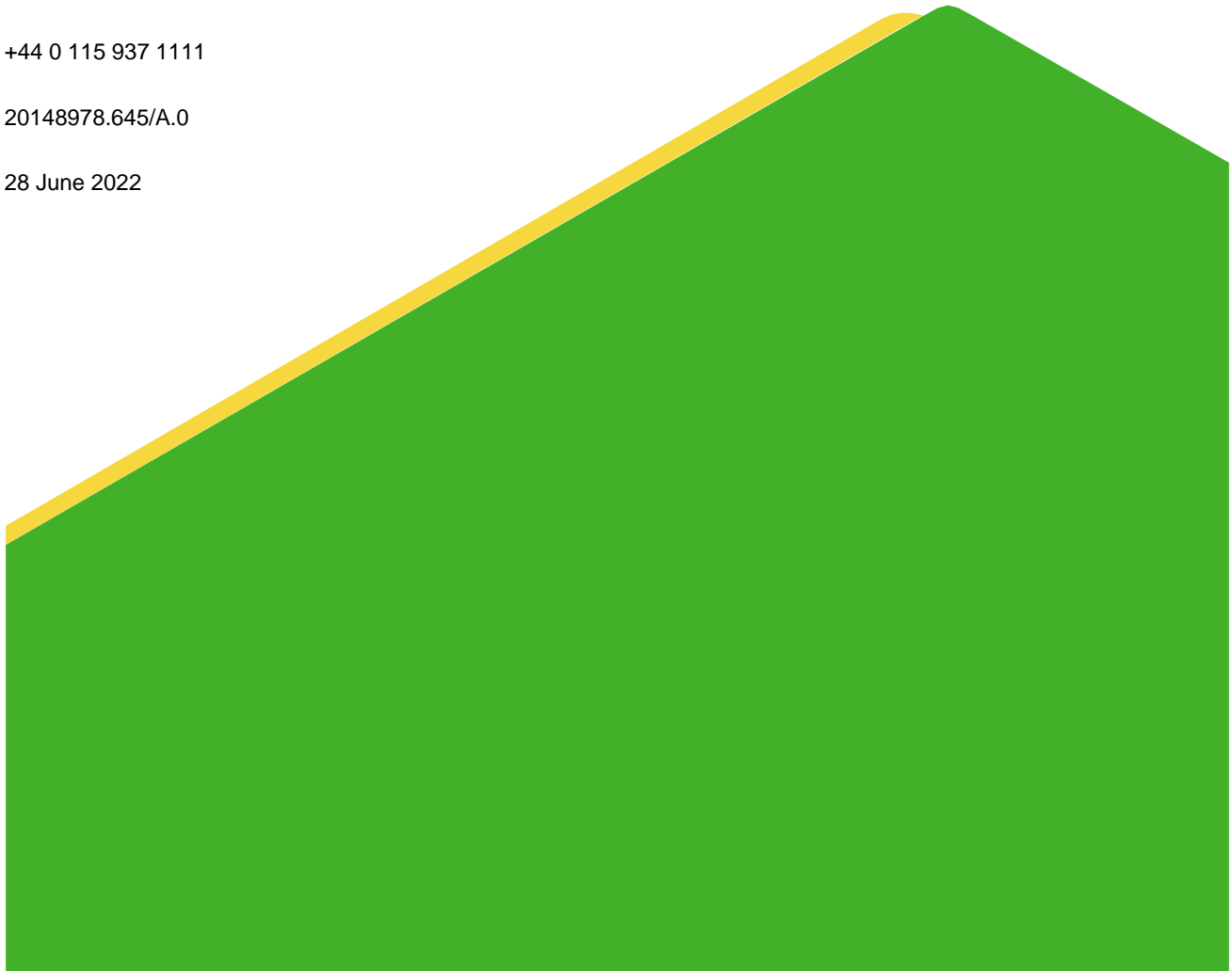
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1.0 SITE CONDITION REPORT

A Site Condition Report was submitted as part of the original PPC application, contained within the Environmental Setting and Installation Design (ESID) report 03523539.501/A.0 dated November 2004. In updating the ESID for this variation application, the Site Condition Report is also updated and the information carried forward into the sections below.

1.1 Site Details

Name of Applicant:

- Sandsfield Gravel Company Ltd.

Activity Address:

- Milegate Extension Landfill, Catwick Lane, Brandesburton, Driffield, East Yorkshire, YO25 8SA.

National Grid Reference:

- TA 130472.

Document Reference and dates for Site Condition Report at permit application and surrender:

- The Site Condition Report for the landfill was submitted as part of the Environmental Setting and Installation Design (ESID) Report (ref. 03523539.501) dated November 2004;
- The Site Condition Report for the northern strip and area of leachate holding tanks was submitted as a part of the previous Permit Variation Application (ref. 1671322.628) dated June 2018; and
- The Site Condition Report for the Eastern Extension is provided in this variation application.

Document references for site plans (including location and boundaries):

- Environmental Setting and Installation Design Report including drawings (ref. 20148978.632).

1.2 Condition of the Land at Permit Issue

Environmental Setting including:

- Geology – see Section 3.2, ESID (ref. 20148978.632);
- Surface Waters – see Section 3.4, ESID (ref. 20148978.632); and
- Hydrogeology – see Section 3.5, ESID (ref. 20148978.632).

Pollution History including:

- Pollution incidents that may have affected land – see Section 2.1, ESID (ref. 20148978.632);
- Historical land-uses and associated contaminants – see Section 1.3, ESID (ref. 20148978.632);
- Any visual/olfactory evidence of existing contamination – see Section 1.3 ESID (ref. 20148978.632) which notes the presence of Milegate landfill (closed) to the west; and
- Evidence of damage to pollution prevention measures – not applicable.

Evidence of historic contamination, for example historical site investigation assessment, remediation and verification reports:

- None.

Baseline soil and groundwater reference data:

- Sections 3.2, 3.4 and 3.5 ESID (ref. 20148978.632), plus environmental monitoring and reporting undertaken in accordance with the Permit.
- The Eastern Extension is only partially bounded by the existing boreholes and monitoring infrastructure along its western edge, therefore additional ground investigation has been carried out.

1.3 Permitted Activities

1.3.1 Permitted Activities

An application to operate the existing Milegate Extension Landfill under the Pollution Prevention and Control (PPC) Regulations was submitted to the EA in November 2004, and subsequently Permit BX1942IX was issued by the EA on 3 March 2006.

Environmental Permit (EP) EPR/BX1942IX was issued by the EA in 2006 and last varied (Variation Notice V003) in February 2020 which allowed the site to expand landfilling activities northwards in accordance with ownership boundary. The EP allows Sandsfield to dispose of non-hazardous waste under the listed activity of Section 5.2 Part A(1)(a) of the Environmental Permitting (England and Wales) Regulations and the Site can accept up to 75,000 tonnes of waste per year for landfilling. The following directly associated activities (DAAs) are also permitted:

- Storage of leachate in two above ground storage tanks and associated pipework;
- Leachate pumping, extraction and removal off Site;
- Flaring of landfill gas for disposal in an appliance;
- Discharge of site drainage from the landfill (surface water management); and
- Storage of fuel for operation of plant and equipment.

The currently operating landfill is divided into ten cells, Cells 1 to 8 with cells 2 and 4 split into A and B, and the Eastern Extension will consist of six cells, Cells 9 to 14. Landfilling commenced in 2007 in Cell 1 and subsequently proceeded in a westerly direction to Cells 3, 5, and 7. Subsequently, filling of the northern part of the site commenced starting with Cell 8 and progressing eastwards to Cells 6, 4A and 4B. Cell 4B is currently (May 2022) in its early stages of filling with waste. Cell 4A will shortly be restored alike the cells that have already been filled. Cell 2A is the next active cell and the future landfilling will progress in an easterly direction through Cells 2B, 9, and 10, and then from north to south through Cells 11, 12, 13, and 14.

In the past landfill gas was collected from the waste but was not sufficient to power a landfill gas engine; as such, gas was flared at the Site. The quantity of extracted landfill gas is deemed adequate for gas engine operation which is planned to be installed at the site in the near future. Leachate is collected and directed to two above-ground holding tanks and discharged to sewer via a 750 m long buried pipe, infrastructure that was installed in late 2016.

1.3.2 Non-Permitted Activities

None.

1.3.3 Documents

The activity layout of Milegate Extension Landfill is described in Environmental Setting and Installation Design (ESID) Report (ref. 20148978.632) and **Drawing ESID4 – Site Layout and Waste Deposition**.

As part of the current variation application, quantitative risk assessments are presented for hydrogeology, stability and landfill gas, and qualitative risk assessments have been carried out for nuisance and health.

1.4 Changes to the Activity

This variation application is to allow the landfilling activity to:

- Extend landfill operations by about 200 m eastwards in line with Sandfield's ownership boundary and thus increase the capacity of the landfill;
- Obtain retrospective permission for moving the location of the gas flare from the southeast corner to the northwest corner of the existing site; and
- Enable installation of gas engines in accordance with the described operating techniques.

This variation application is to change the Permit boundary. Quantitative risk assessments for hydrogeology, stability and landfill gas, and qualitative risk assessments for nuisance and health have been reviewed for the purposes of this variation application and this is detailed in the Supporting Statement (ref. 20148978.631).

This variation application seeks approval for utilisation of the landfill gas for energy production via gas engines.

No 'dangerous substances' not identified in the Application Site Condition Report have been used or produced as a result of the permitted activities.

2.0 CONCLUSIONS

Background quality of surface water, gas, and groundwater at the installation is provided in the conceptual model and risk assessments or is collected in accordance with the EP.

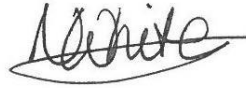
Parts of the installation where waste will not be permanently deposited are small. The approach covering these parts will also rely on information in the risk assessments and conceptual model and the known history of the site. Such areas include the gas flare compound, leachate holding tanks/pipeline, and the northern corners of the Eastern Extension. No specific site investigation has been carried out for these areas.

Signature Page

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Date: 28 June 2022

AA/NW/ab

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