Maxey Crossing Extension

Supporting Statement and Non-Technical Summary

Report No. K3036-ENV-R007

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1 Introduction

1.1 Non-Technical Summary

This report forms part of a bespoke permit application for a recovery activity to restore the Maxey Crossing Extension (the Site) as required by the Planning Permission for the approved scheme. The application is for an Environmental Permit to permanently deposit waste on land as a recovery activity, i.e. a "*deposit for recovery permit*"[1]. The recovery activity will be operated by Tarmac Trading Limited (Tarmac).

Planning Permission 10/00151/MINFUL was granted on 10th October 2012 for the Maxey Crossing Extension for the extraction of mineral as a southern extension to the original Maxey Pit. The southern extension area covers an area of 140ha (including buffer zones, operational areas and access areas), of which 88ha will be worked. In accordance with Planning Permission 22/01203/MMFUL approved on 26th March 2024, there is a requirement to restore the quarry to a mixture of agriculture, lowland meadow, woodland planting, and low-level water-based nature conservation habitat including provision of a viewing area.

Planning Permission 22/01203/MMFUL revised the original scheme after it was identified that the original restoration scheme could not be achieved using solely site derived material due to the potential for basal heave in utilising "overdig" material i.e. extracted clay from beneath the superficial sand and gravels. In relation to this, Planning Permission was sought to allow the importation of inert materials to restore the site and changes were made to the final restoration scheme in order to minimise the amount of imported material required to achieve the scheme.

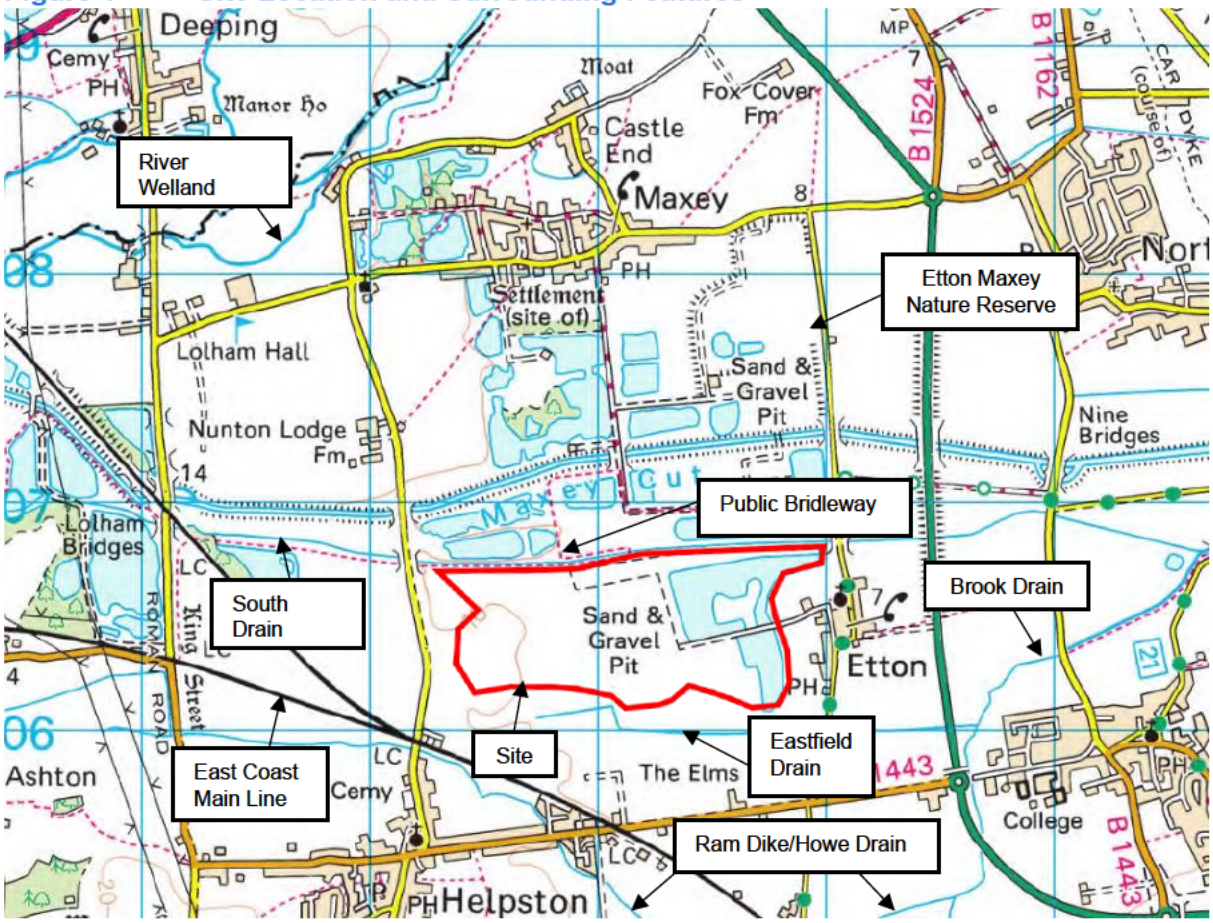
Site Location and Surrounding Features

The Site is located at Maxey Quarry, High Street, Maxey, Peterborough, PE6 9EA approximately 10km northwest of Peterborough City centre and to the southeast of the village of Maxey. The Maxey Crossing Extension is centred on National Grid Reference (NGR) TF 13426 06630 and situated in a predominantly rural area comprising agricultural land, isolated dwellings, woodland, and water bodies (Figure 1). The East Coast Main Railway Line runs in a north-west to south-east direction 0.2km away to the south-west of the Site. There are currently no public rights of way within the extension area, however a public footpath and bridleway exists to the north of the extension area.

The Maxey Crossing Extension is bound to the north by the South Drain. The South Drain is a drainage channel that runs west to east past the Site and separates the Maxey Crossing Extension from previously worked areas of the Maxey Quarry which have been restored to a mixture of grassland and wetland habitats. To the east, west and south the site is bound by agricultural fields. Maxey road is positioned some 100m to the west of the site. Beyond the agricultural fields to the east, lies the village of Etton, where the closest residential properties are located at approximately 250m east of the site.

[1] Waste recovery plans and deposit for recovery permits - GOV.UK (www.gov.uk)

Figure 1 Site Location and Surrounding Features



There are no European habitats sites located within a 3km radius of the site. However, there are several habitats sites located at distance from the site including:

- Deeping Gravel Pits Site of Scientific Interest (SSSI) – 3.5km to the north-east
- Langtoft Gravel Pits SSSI – 4.1km to the north
- Castor Hanglands SSSI and National Nature Reserve (NNR) – 3.8km to the south
- Barnack Hills and Holes SSSI, NNR and Special Area of Conservation (SAC) – 4.8m to the south-west

Although not a European habitat site, the Etton Maxey Nature Reserve lies approximately 1km north-east of the site. The reserve is managed by the Langdyke Countryside Trust in association with Tarmac and covers an area of 34 hectares. The Nature Reserve was previously a gravel pit and is being restored to a combination of pond, meadows and wild-flower abundant banks.

The Maxey Crossing Extension is surrounded by several surface water features as shown on Figure 1 including a number of manmade flood alleviation channels. The site is located within the Welland and Deepings Internal Drainage Board (IDB) district with the River Welland (designated by the Environment Agency as a 'Main River') located approximately 2.6km to the north east of the site at it's closest point. All artificial surface water channels drain to a confluence with the River Welland 4km to the west.

Other 'Main Rivers' within the vicinity of the site include the Maxey Cut positioned 0.4km to the north of the South Drain and Brook Drain positioned 840m to the east.

The site is positioned within an area of low-lying land. The surrounding topography is relatively flat sloping gently towards the north-east from 20mAOD at Hilly Wood to the south-west of the site to 5mAOD at Peakirk to the east of the site. The site topography slopes in a similar direction, primarily towards the east, with levels at 7 - 8mAOD reported in the east and 10.5mAOD to the west.

Proposed Scheme

The quarry area and restoration scheme cover an area of 87ha. The restoration scheme for the site is illustrated on Drawing M031-00421-4A. The site is to be restored to a mixture of agriculture, lowland meadow, woodland planting and low-level water-based nature conservation habitat including provision of a viewing area using approximately ~1.3million cubic metres of inert material. The proposed recovery permit boundary and site layout is shown on Drawing M032-00421-2 *Recovery Boundary*.

The quarry is being worked and will be restored in a phased manner with the site split into six Phases (1 to 6). Phase 1 which occupies an area of 9.2ha has been excavated and partially restored using imported materials in accordance with Planning Permission 20/01545/FUL granted on 16th March 2021. The Phase 1 restoration material comprised of excavated material from a one-off construction project.

The remaining quarry area (Phases 2 to 6) covers an area of 77.8ha and largely exist as agricultural field parcels separated by a network of land drains. Mineral excavation has been progressed into Phases 2 and 3.

The base of the workings will extend to a typical depth of approximately 3.5 to 4mAOD[2] . The western part of the quarry will be excavated to the base of the River Terrace Gravel deposits. In the eastern part, where the underlying clay thickens, some overdigging (excavation of the underlying clay) will take place to construct the irrigation lagoon and to allow for the development of the proposed restoration scheme. Due to the potential for basal heave, overdigging will however be limited. However, this piezometric surface is confined within low permeability strata, and therefore may not be realised.

[2] David L Walker Limited (July 2022) Environmental Statement

2 Application Structure

This permit application, as set out in this Supporting Statement, is supported by the following documents:

- Application Forms (Appendix A);
- Waste Recovery Plan (Appendix B);
- Environmental Setting and Site Design (Appendix C);
- Environmental Risk Assessment (Appendix D);
- Hydrogeological Risk Assessment Appraisal (Appendix E)
- Waste Acceptance Procedure (Appendix F);
- Evidence of Technically Competent Management (Appendix G);
- Management System Certificate and Summary (Appendix H);
- List of Waste Codes (Appendix I).
- Drawings (Site Plans)

This report has been prepared in response to the following questions raised in Application Form A, Form B2 and Form B4, which have been completed in support of the permit variation application. These questions ask the Operator to provide the following:

- Form A Q5: Details of Directors
- Form B2 Q3b: Technical Ability
- Form B2 Q3d: Summary of Site Management System
- Form B2 Q5a: Provide a plan or plans for the site
- Form B2 Q5c: Non-Technical Summary
- Form B2 Q6: Environmental Risk Assessment
- Form B4 Q1: What waste operations are you applying for?
- Form C4 Q2: Point Source Emissions to Air, Water and Land
- Form C4 Q3a: Technical Standards
- Form C4 Q3b: General requirements
- Form C4 Q3c: Information for Specific Sectors
- Form C4 Q4: Monitoring

3 Application Form A Questions

3.1 Question 5c and Appendix 1 – Please give details of the directors

The required details of the Directors of Tarmac are as follows:

	Name	Date of Birth
1	Katie Elizabeth Smart	[redacted]
2	Robin John Doody	
3	John Michael Delaney	
4	Peter Buckley	
5	Mark Thomas Wood	
6	Bevan John Browne	
7	Shaun Davidson	
8	Simon James Grey	

Their correspondence address is:

Ground Floor,
T3 Trinity Park,
Bickenhill Lane,
Birmingham,
United Kingdom,
B37 7ES

4 Application Form B2 Questions

4.1 Question 1a – Discussions before your application

A Waste Recovery Plan (WRP) has been prepared for the site and is provided in Appendix B. An assessment of the WRP was requested via a pre-application submission under reference EPR/NP3621SM/P001. The Agency agreed in a letter dated 28th June 2024 that the scheme was a recovery operation. The Agency confirmation letter is attached to this application as Appendix K.

4.2 Question 3b – Technical Ability

The proposed technically competent manager, Mr Craig Matthews, has registered with WAMITAB (see Appendix G) and is expected to have obtained his certificate prior to this application being determined by the Environment Agency (given the 12-month delay in processing Permit applications).

4.2.1 Question 3d – Summary of Site Management System

Tarmac has in place an Environmental Management System (EMS) that is accredited to the international standard: ISO 14001. Although the Maxey site will not yet be listed, the site will be managed in accordance with this EMS and a summary of the site's EMS is provided within Appendix H. A copy of the ISO14001 certificate is also attached in Appendix H.

4.2.2 Question 5a – Provide a Plan or Plans for the site

The following drawings are provided in support of the recovery permit application:

- M032-00421-2 Recovery Permit Boundary
- M32 / 335 Approved Block Phasing Plan
- M032-00421-4A Concept Restoration Plan
- Figure A1 Exceedance Plan
- K6065-01-00 Site Cross-sections
- K6065-02-00 Cross-section Lines

4.2.3 Question 5b – Provide relevant sections of a site condition/baseline report if this applies

As the entirety of the area within the environmental permit boundary is subject to the permanent deposition of waste, it is considered that a Site Condition Report (SCR) is not required.

4.2.4 Question 5c – Provide a Non-Technical Summary

A non-technical summary has been provided within Section 1.1 above.

4.2.5 Question 6 – Environmental Risk Assessment

An Environmental Risk Assessment (ref: K6036-ENV-R004) is appended to this Supporting Statement as Appendix D.

5 Application Form B4 Questions

5.1.1 Question 1 – What waste operations are you applying for?

The application is for an Environmental Permit to permanently deposit waste on land as a recovery activity, i.e. a "*deposit for recovery permit*"[3]. The recovery activity will be operated by Tarmac Trading Limited (Tarmac).

The Agency approved Waste Recovery Plan (WRP) is provided in Appendix B. This plan sets out the proposed activities includes throughput and waste types. A waste code list is however provided in Appendix I for ease.

Storage capacity is irrelevant to this application as waste will be placed directly into the quarry void where it will be compacted into its final placement position. Where stockpiling is required when strictly necessary, this will occur within the quarry void only. Consequently, Storage of incoming wastes elsewhere on site is not anticipated.

5.1.2 Question 2 – Point Source Emissions to Air, Water and Land

Each phase will be worked dry and therefore de-watering of sands and gravels derived groundwater will be required under transfer licence number AN/031/0013/010 issued by the Environment Agency in March 2022. As required by the licence, all abstracted water must be deposited within an unlined abstraction lagoon located at NGR TF 12981 07065 and/or the Maxey Cut at NGR TF 13070 07183 or 13499 07240 at a maximum rate of 3,429,000m^3 per year.

Discharge of abstracted waters is also authorised under three Permits in place for the Maxey Quarry site (ref. PRNNF02504, PRNNF02505 and PRNNF12535). There will be no other point source emissions to air, land, sewers, effluent treatment plants or other transfers off site.

An Environmental Risk Assessment (ref: K6036-ENV-R004) for fugitive emissions has been completed and is presented in Appendix D.

5.1.3 Question 3a – Technical Standards

Technical standards will adhere to those set out in the:

- Tarmac Accredited Management System;
- Environmental Setting and Site Design (ESSD ref: K6036-ENV-R003); and
- Environmental Risk Assessment (ref: K6036-ENV-R004).

5.1.4 Question 3b – General Requirements

The potential impact due to fugitive emissions (e.g. odour, dust, noise, mud of the road etc) are assessed within the Environmental Risk Assessment (K6036-ENV-R004).

[3] Waste recovery plans and deposit for recovery permits - GOV.UK (www.gov.uk)

5.1.5 Question 4a - monitoring

The monitoring schedule is included within the supporting Hydrogeological Risk Appraisal reference K6036-ENV-R006 (Appendix E).

5.1.6 Question 4b – Point Source Emissions to Air

There will be no point source emissions to air.

Appendix A – Application Forms

Appendix B – Waste Recovery Plan

Appendix C – Environmental Setting and Site Design

Appendix D – Environmental Risk Assessment

Appendix E – Hydrogeological Risk Assessment

Appendix F – Waste Acceptance Procedure

Appendix G – Evidence of Technical Competence

Appendix H – Management System Certificate and Summary

Appendix I – List of Waste Codes

Appendix J – 2024 Planning Permission 22/01203/MMFUL

Appendix K WRP Approval Letter