



ENVIRONMENTAL PERMIT VARIATION APPLICATION (EPR/ZP3497EW)

**Marston's Pit, Cavenham Road, Tuddenham,
Bury St Edmunds, Suffolk, IP28 6SE**

Report Prepared on behalf of:
Allen Newport Limited

Report Date:
January 2024



This Application was prepared by PDE Consulting Limited on behalf of
Allen Newport Limited

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1. INTRODUCTION

Background

- 1.1. PDE Consulting Limited (the 'Agent') has been commissioned by Allen Newport Limited (ANL) (the 'Operator') to prepare and submit to the Environment Agency (EA) an application to vary an environmental permit which authorises activities at Marston's Pit, a sand and gravel quarry located off Cavenham Road in Tuddenham, Bury St Edmunds (the 'Site').
- 1.2. A discharge consent was originally issued to the Operator on 20 February 1993 and was varied on 06 September 2011 to add a Tier 2 inert mining waste operation. Extractive wastes are identified as silt from the processing of sand and gravel only. The permit was varied again on 21 December 2017 (EPR/ZP3497EW/V003) to move the consented discharge point and to extend the boundary of the mining waste activity. On 27 January 2022 the permit was varied (EPR/ZP3497EW/V004) to increase the permitted area and add a landfill activity and a recycling operation which was previously operated under a separate permit.
- 1.3. This application is being made to vary the permit to add soils washing to the treatment activity and to add new waste codes for landfilling and waste treatment.
- 1.4. The permit boundary is shown in green on Drawing No. KD.CAV.067 and has been amended slightly to incorporate the full area of concrete hardstanding on which the wash plant sits. The increase in the permitted area is 0.006 hectares.
- 1.5. A non-technical summary of the permit application is provided in Appendix 1.

Pre-Application Discussions

- 1.6. Basic pre-application advice was requested from the EA on 02 November 2023 and they responded with generic advice and a nature and conservation screen on 13 November 2023.
- 1.7. Upon further request the EA provided advice on the application fee, the supporting documents required and the type of variation required in an e-mail dated 14 December 2023.
- 1.8. They advised that the following documents would be required for the addition of one EWC code to the landfill activity:
 - Updated Waste acceptance procedures and criteria; and
 - Updated Emissions Risk Assessment
- 1.9. Relevant correspondence is presented in Appendix 2.

EPR Application Forms

- 1.10. This report has been completed in accordance with the Environmental Permitting (England and Wales) Regulations 2016 (EPR) and should be read alongside the completed application forms. The following completed application forms for the permit variation are presented in Appendix 3:

- Form EPA – About you;
- Form EPC2 – General – varying a bespoke permit;
- Form EPC4 – Varying a bespoke waste operation permit; and
- Form EPF1 - Charges and declarations.

EA Charging Scheme

1.11. From 01 April 2022, permit application charges are listed in the “The Environment Agency (Environmental Permitting and Abstraction Licensing) (England) Charging Scheme 2022”.

1.12. The application fee of **£15,157** has been provided alongside this application for:

- Physical and chemical treatment of waste – new activity (charge reference 1.16.14) - **£7,930**;
- Inert landfill - minor variation fee (charge reference 1.17.7) - **£3,961**;
- Cost to review Habitats Assessment (charge reference 1.19.2) - **£779**;
- Cost to review Dust Emissions Management Plan (charge reference 1.19.5) - **£1,241**;
and
- Cost to review Noise Management Plan (charge reference 1.19.7) - **£1,246**.

2. SITE DETAILS

Site Location

- 2.1. Marston's Pit is a sand and gravel quarry located approximately 1 kilometre (km) to the east of the village of Tuddenham and 12 km to the northwest of Bury St Edmunds in Suffolk. The Site location can be seen on Drawing No. KD.CAV.067. The Site is centred at National Grid Reference (NGR) TL 76190 72020 and covers an area of some 51.30 hectares (Ha).
- 2.2. The Site is located in a rural setting and bound by plantations and farmland. To the north of the Site is a former mineral working which has been restored to a lake feature to promote biodiversity. Part of the Site is located within the Breckland Farmland Site of Special Scientific Interest (SSSI) and the Breckland Special Protection Area (SPA).
- 2.3. Breckland Special Area of Conservation (SAC) and Cavenham – Icklingham Heaths SSSI bound the Site to the north west.
- 2.4. Cavenham Heath is also designated as a National Nature Reserve (NNR). Much of Cavenham Heath NNR is typical Breck heathland with dry, acidic sandy soil supporting acid grass heath, heather heath with patches of bracken and sand sedge. In addition there are riverside meadows, woodland, wet woodland scrub and small areas of fen. Adders are known to be found in this area between March and October.
- 2.5. Black Ditches linear earthwork (List Entry Number 1006065) scheduled monument located some 50m east of the Site, is "a typical Dark Ages boundary earthwork". It is 4.5 miles long and stretches between the River Lark at Lackford and the Icknield Way. It lies on the boundary of the Breckland Farmland SSSI.
- 2.6. The nearest residential receptor, Mill Farm House, is located some 175m east of the Site.

Environmental Site Setting

- 2.7. The superficial geology at the Site comprises predominately River Terrace Deposits (Quaternary Sand and Gravel) which are reported to be between 7 to 12 m thick beneath the Site. Alluvium is present in the centre of Lark Valley, immediately to the north of the quarry and along the course of a ditch on the western boundary.
- 2.8. The bedrock geology comprises Cretaceous Chalk (undifferentiated) of the Holywell Nodular Chalk Formation and New Pit Chalk Formation. Up to 30 m of Glacial Silt, Glacial Sand and Gravel and Boulder Clay (Till) underlie the River Terrace Deposits over much of Cavenham Heath.
- 2.9. The Site is located in Flood Zone 1 (lowest risk). The River Lark is situated approximately 375 metres to the north of the permit boundary and flows from west to east.

Air Quality

- 2.10. The Site is not located within a current or proposed air quality management area (AQMA). The nearest AQMA to the Site is in Newmarket, some 13 km to the south west. The Newmarket AQMA was originally declared for nitrogen dioxide (NO₂) in 06 April 2009.

Other Permits

- 2.11. The Operator holds an abstraction licence for the Site (6/33/37/*G/0403/R02) which provides water for mineral washing. A licence (ref AN/033/0037/026) which was applied for under the Water Abstraction and Impounding (Exemptions) Regulations 2017 for dewatering was issued on 26 March 2021.
- 2.12. The roadstone coating plant located in the plant site to the north west of the Site is operated by Breedon Aggregates in accordance with a Part B permit.

Permitted Activities

- 2.13. Inert wastes are imported to the Site and directly placed for restoration in the footprint of the landfill, or treated by crushing and screening, to create secondary aggregate.
- 2.14. The permitted landfilled areas effectively comprise two separate areas which are to be landfilled: the northern part of the original quarry and a western extension which are located to the north of the plant site; and a smaller rectangular field to the south of the plant site and east of the access road which is referred to as the minor western extension. The Site is to be restored by inert landfilling in five phases.
- 2.15. Silt from the washing of sand and gravel is pumped to lagoons which will form part of the final restoration landform. The lagoons comprise the mining waste activity.
- 2.16. The consented discharge point from the quarry is to a ditch which drains to the River Lark. The discharge is located at NGR TL 76006 72254 and comprises surface water Site drainage only. The discharge point is shown on Drawing No. KD.CAV.067.
- 2.17. The existing permitted Site activities are presented in Table 1 below.

Table 1: Permitted Activities

Main Activity	Description of Activities	Limits of Activities
Mining Waste Operations	The storage, treatment and disposal of inert extractive wastes and unpolluted soil resulting from the prospecting, extraction, treatment and storage of mineral resources and the working of quarries at a mine or quarry.	Permitted waste shall conform to the description in the approved Waste Management Plan.
Discharge Consent	Discharge of trade effluent consisting of surface water site drainage via Outlet 1.	N/A
Inert Landfill	D1: Deposit into or onto land	The disposal of inert wastes into or onto land. Waste types are specified in Table S2.1 in the permit.
Physical Treatment Facility	R3: Recycling/reclamation of organic substance which are not used as solvents. R5: Recycling/reclamation of other inorganic materials. R13: Storage of waste pending any of the operations numbered R3 and R5 D9: Physico-chemical treatment not specified elsewhere which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12 D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where the waste is produced)	Physical treatment including manual and mechanical sorting/separation, screening and crushing of non-hazardous waste for disposal (no more than 50 tonnes per day) or recovery. Subject to any other requirements of the permit, wastes shall be stored for no longer than 1 year prior to disposal or 3 years prior to recovery. No more than 50 tonnes per day of non-hazardous waste to be treated at the site under a D9 activity. Treatment of slags and ashes for disposal shall not exceed 50 tonnes per day, or if for a mix of recovery and disposal shall not exceed 75 tonnes per day. Waste types are specified in Table S2.2 in the permit.

2.18. Annual waste inputs are limited to 200,000 tonnes for disposal and 200,000 tonnes for treatment. There are no proposed changes to annual throughputs.

2.19. Permitted hours for recycling and landfilling activities are stated in Condition 6 of planning permission SCC\0064\20F as follows:

- 07:00 – 18:00 Monday to Fridays; and
- 07:00 – 13:00 Saturdays.
- There shall be no working on Sundays or National Public Holidays.

3. PROPOSED CHANGES TO PERMITTED ACTIVITIES

Changes to Recycling Activity

- 3.1. As stated previously, waste treatment is ongoing at the Site via crushing and screening. It is proposed that a new soils washing plant is installed at the Site. The location of the proposed new soils washing plant is shown on Drawing No. KD.CAV.4.D.003. The elevations of the proposed new soils washing plant are shown on Drawing No. KD.CAV.4.D.004. The new soils washing plant will be located on a concrete pad.
- 3.2. Inert materials shall enter the Site via HGV using the existing access road and stop on the weighbridge where they will be weighed. Having been weighed, all HGVs bringing material to Site shall enter the recycling area and either deposit their load of material into a designated stockpile or proceed to a location within the Site there they may permanently deposit their materials. Due to the nature of the loads being brought to Site, only a small proportion shall proceed through the processing area without treatment and these materials shall be used for the restoration of the wider Site.
- 3.3. HGVs that do not have a return load of either primary aggregates or recycled aggregates and sands shall move through the processing area and then onto the weighbridge. Following this, they shall leave the Site using the existing access road. HGVs which have a return load shall pass through the plant site where they will be loaded with the requisite load which will be either primary aggregates or recycled aggregates or sands. Having been loaded by a loading shovel, they shall move out of this area, over the weighbridge and exit the Site using the existing access road.
- 3.4. The process whereby inert material is washed and then sorted into saleable products by the processing plant is relatively straightforward and commonplace within the aggregates and material industries. In simple terms, the washing and sorting process is described below.
- 3.5. Materials entering the processing plant shall be loaded into a feed hopper via an excavator where they shall then be transferred by conveyor to a vibrating screen which shall do the initial separation according to size. Oversize material shall be removed from the process and later crushed.
- 3.6. Having initially been partly separated, the materials are then subject to further classification by a screening and simple washing process whereby water is added to assist the separation and cleaning process. Some sands and silts are washed away into the sand classification system and larger particles are then transported, again by conveyor belt, to the final screening and separation area.
- 3.7. Coarse particles then pass over the final screen which sorts them by size and then transfers them in their graded form into different stockpiles. Typically, the sizes of aggregates sold will be 40mm, 20mm and 10mm, although the specific product produced will vary depending upon the requirements at the time.
- 3.8. The sands and silts pass into the classification system where they are separated into their component sizes which typically results in the production of a concreting grade sand and one which is generally used in mortar production or other similar applications. The silts which have been removed are then transferred to a silt press. The 'cake' which is the product of the silt press will be used for the progressive restoration of the Site.

- 3.9. Once separated, the recycled aggregates are removed by loading shovel to other stockpiles from which they are ultimately sold and transported from Site by HGV. These HGV's are loaded by a tracked or wheeled loading shovel, weighed on the Site weighbridge and then dispatched from the Site.
- 3.10. Water used to wash the waste will be sourced from the existing quarry's lagoon system. The process of soil washing is a sustainable use of water, as the water will be pumped from the lagoon into a header tank which will feed into the soils washing plant, once it has run through the plant it will be re-circulated back through to be used again, ensuring that the minimum of water is lost through the washing process.
- 3.11. It is also proposed that the wastes in Table 2 are added to the permitted wastes for treatment (Table S2.2 in the permit).

Table 2: Waste Types to be Added to the Waste Treatment

EWG Code	Description	Restrictions
17 09 Other construction and demolition wastes		
17 09 04	Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03.	
19 01 Wastes from incineration or pyrolysis of waste		
19 01 12	Bottom ash and slag other than those mentioned in 19 01 11.	
19 12 Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified		
19 12 12	Other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	Waste aggregate generated from the recycling of metals
		Treated bottom ash including IBA and slag other than that containing dangerous substances only

- 3.12. It is proposed that the ashes and slags are used to blend with crushed concrete and/ or limestone to create subbases such as Type 1.

Changes to Landfill Activity

- 3.13. It is proposed that silt from the washing of wastes is added to the permitted waste codes for landfilling (Table S2.1 in the permit). These wastes will require testing, to prove they are inert and not hazardous, before they can be landfilled at the Site. The proposed wastes to be added to the landfill activity are presented in Table 3.

Table 3: Waste Types to be Added to the Landfill Activity

EWC Code	Description
19 02 Wastes from physico/chemical treatments of waste	
19 02 06	Sludges from physico/chemical treatment other than those mentioned in 19 02 05; restricted to naturally occurring sand, silt and/or gravel including fines derived from soil washing.

- 3.14. The Site will only accept wastes for landfilling contained in The Landfill Tax (Qualifying Materials) Order 2011. It is proposed that the Site will continue to operate under the benefit of the filling of quarries exemption.
- 3.15. The updated landfill Waste Acceptance Procedure (WAP) is presented in Appendix 4.
- 3.16. With regards to Question 5b in the C2 application form, it is considered that the increase in Site area of 0.006 hectares does not require the Site Condition Report (SRC) to be updated.
- 3.17. With regards to the questions in Appendix 2 of application form C4, due to the nature of the proposed change to the landfill activity, it is considered that the existing documents do not need updating to support the application including the Environmental Setting and Site Design Report, the Hydrogeological Risk Assessment and the Stability Risk Assessment.

Environmental Management System

- 3.18. The Site will continue to be operated in accordance with a written Environmental Management System (EMS). The procedures from the existing EMS are presented in Appendix 5. The EMS will be updated on issue of the varied permit.
- 3.19. Any person having duties that are or may be affected by the matters set out in the permit shall have convenient access to a copy kept at or near the place where those duties are carried out. A copy of the EMS will be kept on Site.

Technical Competent Management

- 3.20. The Operator complies with the requirements of an approved competence scheme. Evidence of technical competence is provided in Appendix 6.

4. RISK ASSESSMENT AND MANAGEMENT PLANS

Dust Emissions Management Plan

- 4.1. An updated Dust Emissions Management Plan (DEMP) has been produced to support the permit variation application and is presented in Appendix 7.

Noise Impact Assessment

- 4.2. A Noise Impact Assessment (WBM, December 2023) has been produced to support the permit variation application. It concluded that:

“The comparison of the calculated noise levels arising from the operation of the site with the use of the soils wash plant has been compared to existing background and residual sound levels in the area and it is concluded that there will be no adverse impact arising from the proposed operations at the nearest residential receptors”.

- 4.3 The Noise Impact Assessment is presented in Appendix 8.

Noise Management Plan

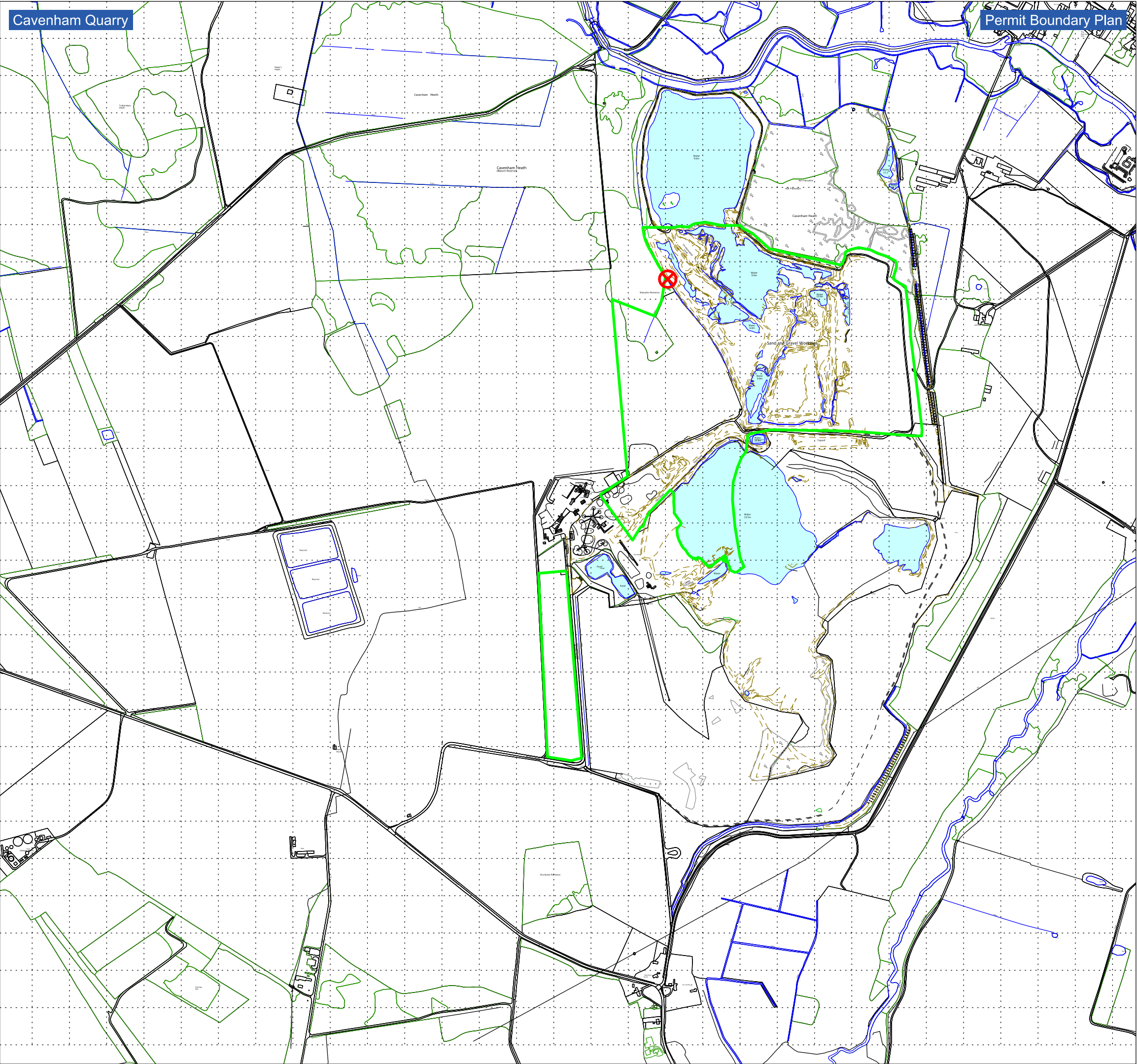
- 4.4 An updated Noise Management Plan (NMP) has been produced to support the permit variation application for the soils washing plant. The NMP is presented in Appendix 9.

Environmental Risk Assessment

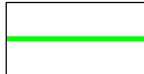
- 4.5 The potential impact of pollution for each aspect of the waste treatment facility and inert landfill facility have been considered and tabulated in the updated Environmental Risk Assessment (ERA) in Appendix 10.

DRAWINGS

Drawing No. KD.CAV.067	Permit Boundary Plan	Scale 1:10,000 @ A3
Drawing No KD.CAV.4.D.003	Proposed Site Layout	Scale 1:1,000 @ A3
Drawing No KD.CAV.4.D.004	Proposed Elevations	Scale varies @ A3



Legend

-  Permit Boundary
-  Discharge Point



PROJECT
Cavenham Quarry

DRAWING TITLE
Permit Boundary Plan

DATE
December 2023

SCALE
1:10,000 @ A3

DRAWING No.
KD.CAV.067 v3

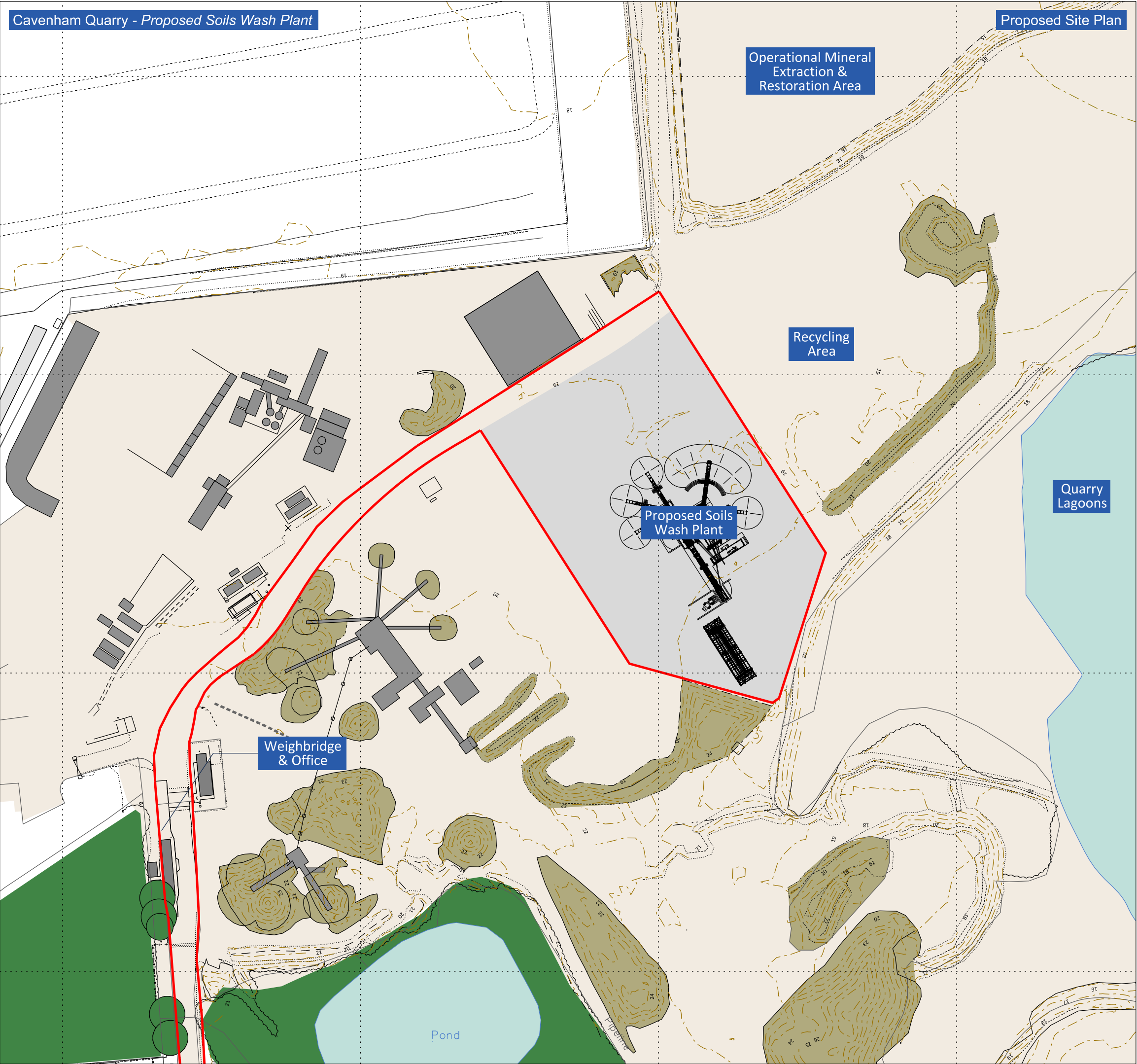
DRAWING STATUS
FINAL



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Legend

- Application Boundary
- Buildings, Roads & Tracks
- Vegetation Structure
- Water Bodies & Courses
- Existing Hardstanding
- Proposed Area of Concrete
- Stockpiles
- Contours / Spot Heights (1m Intervals - mAOD)



PROJECT
Cavenham Quarry - Proposed Soils Wash Plant

DRAWING TITLE
Proposed Site Plan

DATE
December 2023

SCALE
1:1,000 @ A3

DRAWING No.
KD.CAV.4.D.003

DRAWING STATUS
FINAL

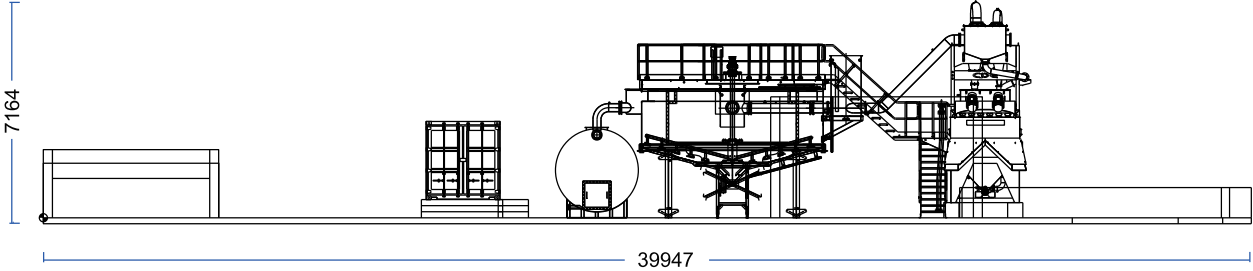


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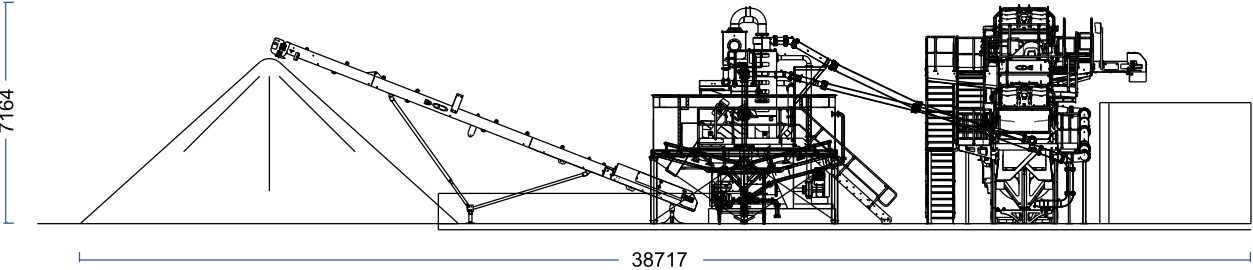
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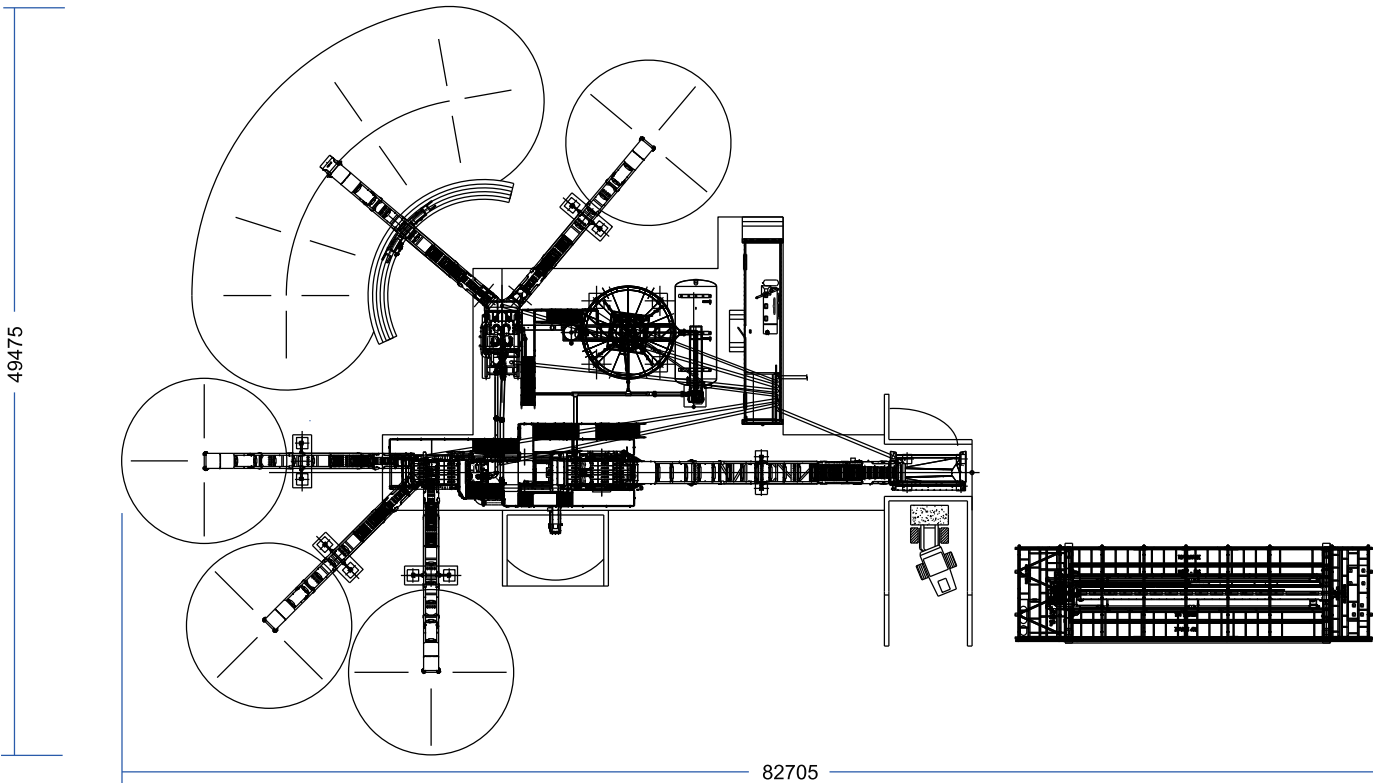
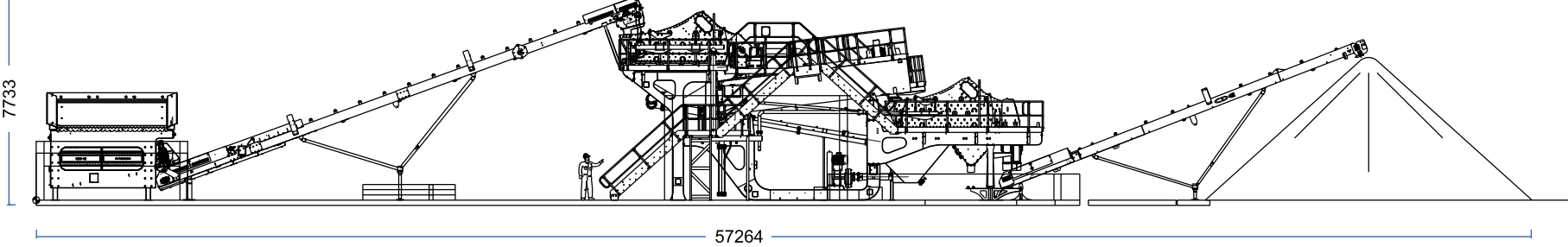
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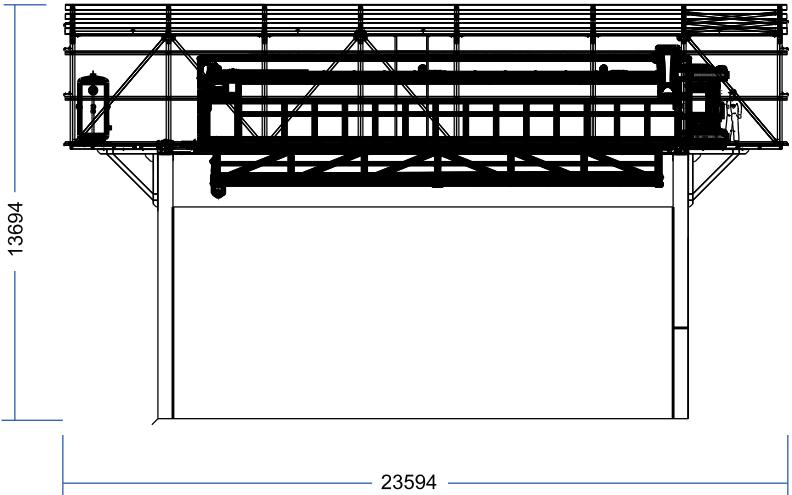
ELEVATION B (1:250@A3)



ELEVATION C (1:250@A3)



FOOTPRINT (1:500@A3)



ELEVATION D (1:500@A3)



PROJECT
Cavenham Quarry - Proposed Soils Wash Plant

DRAWING TITLE
Plant Elevations & Footprint

DATE
December 2023

SCALE
varies @ A3

DRAWING No.
KD.CAV.3.D.004

DRAWING STATUS
FINAL



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APPENDIX 1

Non - Technical Summary

Non-Technical Summary

Background

Allen Newport Limited (the 'Operator') has commissioned PDE Consulting Limited (the 'Agent') to prepare an application to vary an environmental permit for Marston's Pit, Cavenham Road, Tuddenham, Bury St. Edmunds, Suffolk, IP28 6SE (the 'Site').

Environmental permit No EPR/ZP3497EW/V004 issued on 27 January 2022 authorises a tier 2 mining waste operation with an integrated water discharge activity, an inert landfill facility and a physical treatment facility. This application is for a substantial variation to add a soils washing plant and waste codes to the treatment activities and a minor variation to add one waste code to the inert landfill activity. This application includes for a minor permit boundary change only to incorporate the entirety of the concrete pad on which the soils washing plant will sit.

In this application there are no proposed changes to the mining waste facility or the discharge consent.

Site Location and Surroundings

Cavenham Quarry is a sand and gravel quarry located approximately 1 kilometre (km) to the east of the village of Tuddenham and 12 km to the northwest of Bury St Edmunds in Suffolk. The Site is centred at National Grid Reference (NGR) TL 76190 72020 and covers an area of some 51.30 hectares (Ha).

Activities ongoing within the wider quarry include mineral extraction and processing and an asphalt plant.

The Site is located within a rural setting and is bound by farmland. The Site is located within the Breckland Farmland Site of Special Scientific Interest (SSSI) and Breckland Special Protection Area (SPA).

The nearest residential receptor, Mill Farm House, is located some 175 m east of the Site.

Environmental Site Setting

The superficial geology at the Site comprises predominately River Terrace Deposits (Quaternary Sand and Gravel) which are reported to be between 7 to 12 m thick beneath the Site. The bedrock geology comprises Cretaceous Chalk (undifferentiated) of the Holywell Nodular Chalk Formation and New Pit Chalk Formation.

The River Terrace Deposits are designated as a Secondary A aquifer. The Chalk is a Principal Aquifer. The Site is not located within a groundwater Source Protection Zones (SPZ).

The River Lark is located approximately 375 m to the north of the Site. The Site is located within flood zone 1 (lowest risk).

The Site is not located within an Air Quality Management Area.

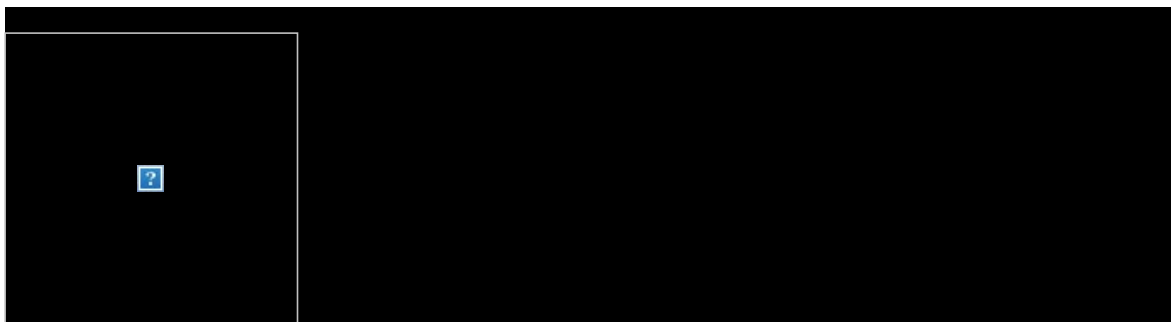
Operational Details

Technically competent management, mitigation measures and good operational procedures will ensure that emission of dust and noise do not cause nuisance off Site. The Site is operated in accordance with the Operators own environmental management system which includes a Dust Emissions Management Plan, a Noise Management Plan and an Environmental Risk Assessment.

APPENDIX 2

Pre Application Advice

From: [SM-Defra-RESP-noreply \(DEFRA\)](#)
To: [Oliver Mann](#)
Subject: Pre-App – Habitats and Nature Conservation Screen EPR/ZP3497EW/P001 - Allen Newport Limited CRM:0331179
Date: 13 November 2023 15:09:23
Attachments: [image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)
[image.png](#)
[Waste variation basic pre-app advice.docx](#)
[Screening Report.pdf](#)
[Noise Impact Assessment \(NIA\) pre-app basic advice \(1\).docx](#)
[Noise Management Plan \(NMP\) Template \(1\).docx](#)
[Example Dust Emissions Management Plan vr 10 1.docx](#)
[ODOUR MANAGEMENT PLAN TEMPLATE FINAL V2.docx](#)



Good afternoon,

We have received your request for a pre-application heritage and nature conservation screening.

Permit type: **Bespoke waste operations**
Application reference: **EPR/ZP3497EW/P001**
Grid reference: **TL 76190 72020**
Date screen completed: **13/11/23**

We have received your request for a pre-application heritage and nature conservation screening. We have attached a screening report and a basic advice document. Habitats and protected species which you need to consider in your permit application have not been identified.

If you have recently received a heritage and nature conservation screening from us you will notice a couple of changes in the attached. We have broadened the scope of the screening to include a number of other features we hold data for, a full list of what has been screened for can be found on the report. We have also indicated in the report where information is accessible online, primarily via Magic map, and have not included maps in these instances. Using the interactive maps on Magic gives you an accurate feature boundary or location, with the ability to zoom in and measure the distance from your proposed site. This gives you the most accurate picture and is helpful for completing a risk assessment. If you are unable to use Magic map please contact us explaining the issue and we can support. [include where results are identified].

We recommend that you use all of the available guidance in the attached advice and on our website to help you complete your environmental permit application. If after reading the advice document and the screening report you still have questions or want to access other pre-application services then you should follow the instructions given towards the end of the basic advice document.

Please note we have screened this application for protected and priority sites, habitats and species for which we have information. It is however your responsibility to comply with all environmental and planning legislation, this information does not imply that no other checks or permissions will be required.

The nature and heritage screening we have conducted is subject to change as it is based on data we hold at the time it is generated. We cannot guarantee there will be no changes to our screening data between the date of this screening and the submission of a permit application, which could result in the return of an application or requesting further information.

If you have follow up queries which fall under the remit of [basic pre-application advice](#) please email

preapplicationservice@environment-agency.gov.uk. Do not reply to this email address.

Kind Regards,

Joel Robson

Permitting Support Advisor - Permitting Support Regulated Industry - National Permitting Service

Environment Agency | Quadrant 2, 99 Parkway Ave, Parkway Business Park, Sheffield, S9 4WF

Regulated Industry Team Phone Number : 02030253898 (9am to 4pm)

Regulated Industry Team Email : PSC@environment-agency.gov.uk

Incident response

National duty communications officer (24/7) | 0800 023 2522

National duty communications manager | 0800 028 2411



Do you operate a medium combustion plant or specified generator?
[Click here](#) to find out if you need to meet the regulations



Help us to improve our service and complete our customer survey

[Environment Agency - National Permitting Service Survey \(smartsurvey.co.uk\)](https://smartsurvey.co.uk)

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Nature and Heritage Conservation

Screening Report: Bespoke Waste

Reference	EPR/ZP3497EW/P001
NGR	TL 76190 72020
Buffer (m)	390
Date report produced	13/11/23
Number of maps enclosed	2

This nature and heritage conservation report

The nature and heritage conservation sites, protected species and habitats, and other features identified in the table below **must be considered in your application**.

In the further information column, there are links which give more information about the site or feature type and indicate where you are able to self-serve to get the most accurate site boundaries or feature locations.

Most designated site boundaries are available on [Magic map](#). Using Magic map allows you to zoom in and see the site boundary or feature location in detail, Magic map also allows you to measure the distance from these sites and features to your proposed boundary. [Help videos](#) are available on Magic map to guide you through.

Where information is not publicly available, or is only available to those with GIS access, we have provided a map at the end of this report.

Sites and Features within screening distance	Screening distance (m)	Further Information
Special Areas of Conservation (cSAC or SAC) Breckland	1000	Joint Nature Conservation Committee and Magic map
Special Protection Area (pSPA or SPA) Breckland	1000	Joint Nature Conservation Committee and Magic map
Sites of Special Scientific Interest (SSSI) Breckland Farmland Cavenham – Icklingham Heaths	1000	Natural England and Magic map

National Nature Reserve (NNR)
Cavenham Heath

200

[Natural England](#) and [Magic map](#)

Protected Species within screening distance

Brown/Sea Trout
European Eel
European Eel migratory route
River Lamprey migratory route
European Water Vole

Screening distance (m)

up to 500m

[Natural England](#)
[Appropriate Local Record Centre \(LRC\)](#)
[National Biological Network \(NBN\)](#)
Environment Agency. Dial 03708 506 506 for your local Fisheries and Biodiversity team

Protected Habitats within screening distance

Deciduous woodland
Fens
Lowland Heathland
(see map below)

Screening distance (m)

up to 50m

[Natural England](#)

Where protected species are present, a licence may be required from [Natural England](#) to handle the species or undertake the proposed works.

The following nature and heritage conservation sites, protected species and habitats, and other features have been checked for, where they are relevant for the permit type requested, but have not been found within screening distance of your site unless included in the list above.

Special Areas of Conservation (cSAC or SAC), Special Protection Area (pSPA or SPA), Marine Conservation Zone (MCZ), Ramsar, Sites of Special Scientific Interest (SSSI), National Nature Reserve (NNR), Local Nature Reserve (LNR), Local Wildlife Sites (LWS), Ancient Woodland, relevant species and habitats.

Please note we have screened this application for features for which we have information. It is however your responsibility to comply with all environmental and planning legislation, this information does not imply that no other checks or permissions will be required.

The nature and heritage screening we have conducted as part of this report is subject to change as it is based on data we hold at the time it is generated. We cannot guarantee there will be no changes to our screening data between the date of this report and the submission of the permit application, which could result in the return of an application or requesting further information

Protected Species

Legend

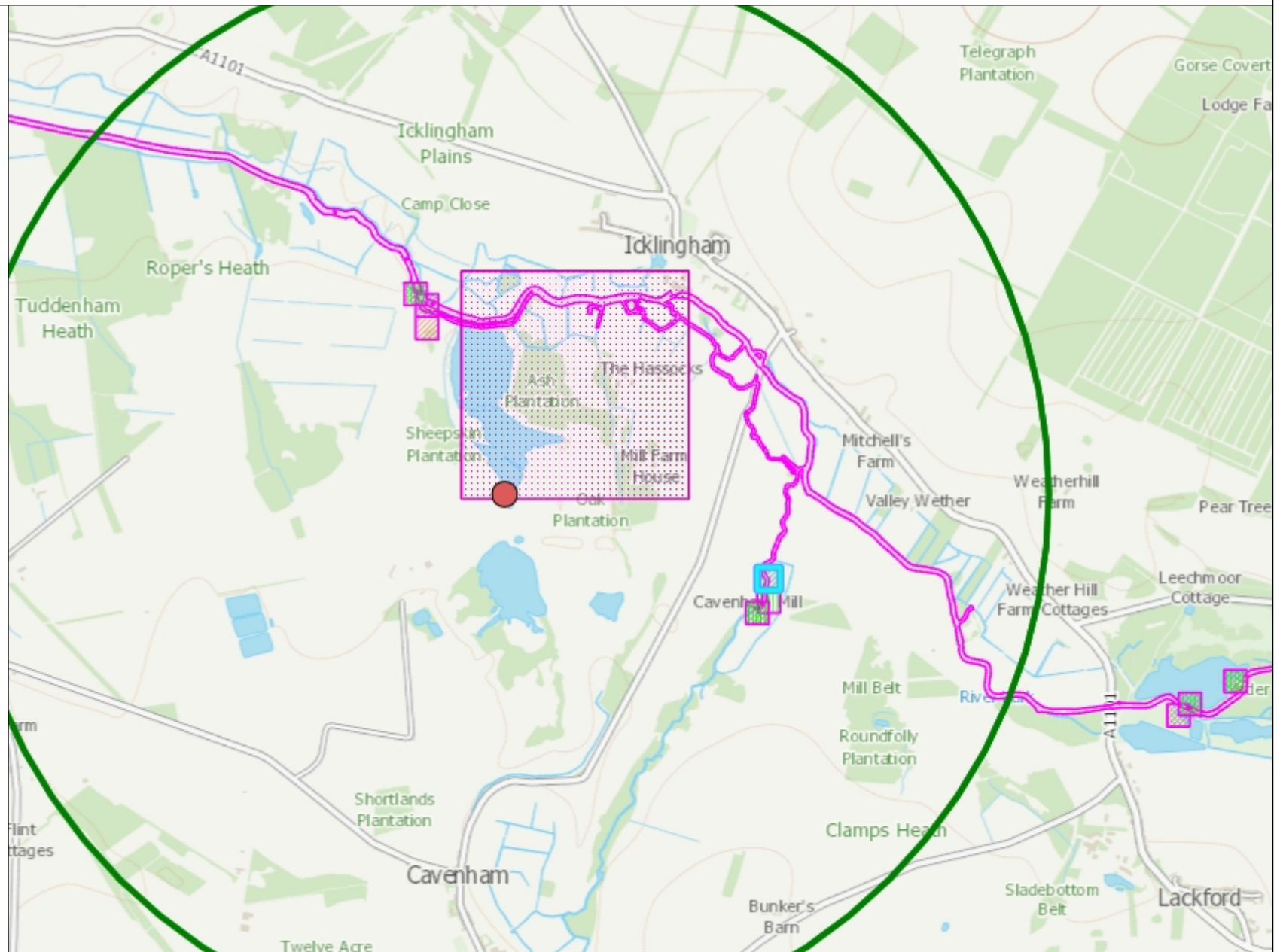
Protected species screened for Env
Permits - complete set

-  Protected species, non fish
-  Protected fish
-  Protected fish migratory route

Fish protected species screened for
Environmental Permits

-  Salmonid
-  Eel
-  Other protected fish

 Fish migratory routes screened for
Environmental Permits



1: 25,000

0 625
Metres

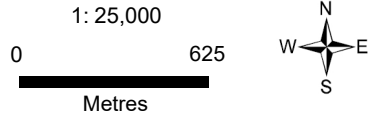
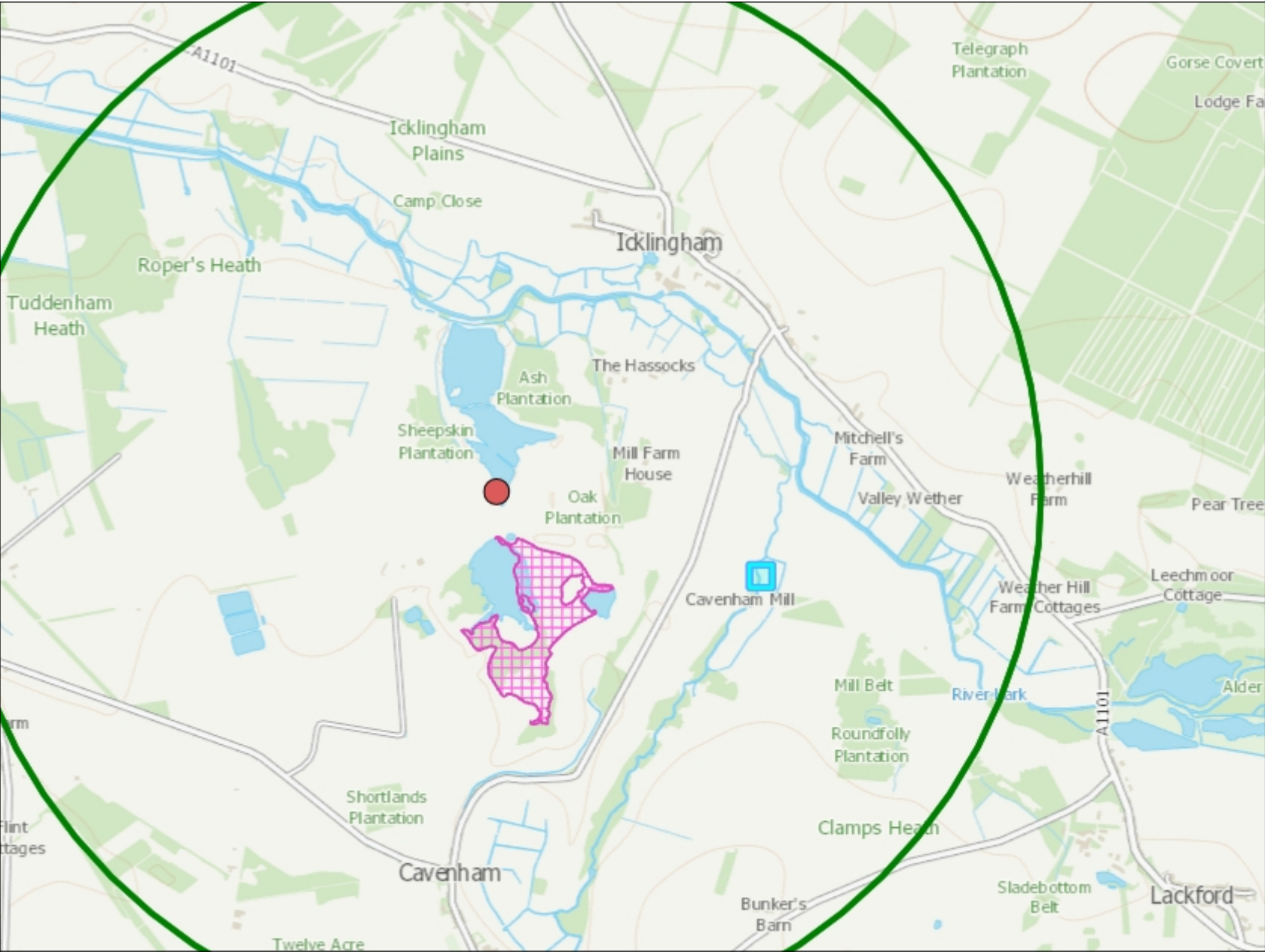


Protected Habitats

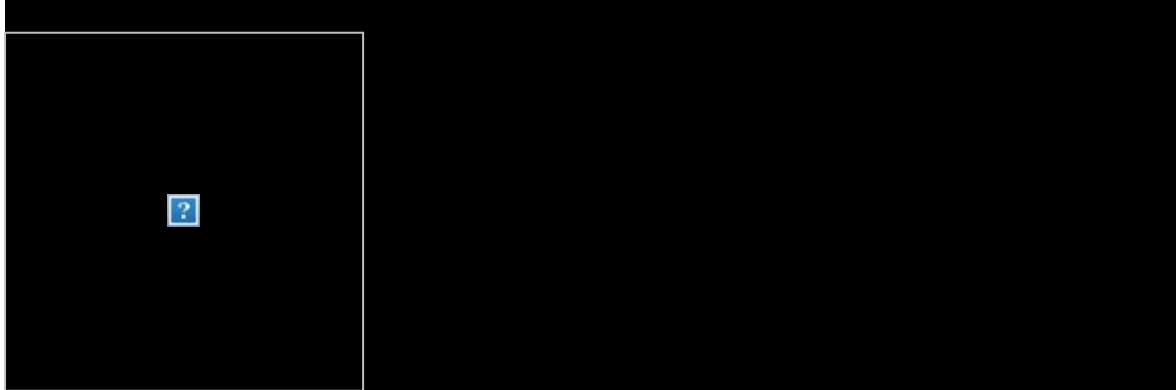


Legend

-  Protected Habitats screened for En Permits



From: [SM-Defra-RESP-notifications \(DEFRA\)](#)
To: [Oliver Mann](#)
Cc: [Hemsley, Tamara](#)
Subject: Basic Pre-Application Advice Request EPR/ZP3497EW/P002 CRM:0071011
Date: 14 December 2023 14:14:12
Attachments: [Waste basic additional advice - Inert landfill - SUPERSEDED - use Landfill Inert doc .pdf](#)
[Waste variation basic pre-app advice.pdf](#)



Dear Oliver Mann,

We have received your request for basic pre-application advice follow up questions for:

- The addition of a soil washing plant with an additional 4 waste codes to those already permitted for the waste treatment activity already included on the permit;
- The addition of one waste code from the output of the proposed soil washing facility – for disposal into the existing inert landfill

Addition of the soil washing facility and the additional waste codes

The addition of a soil washing facility is a new waste activity so you will need to consider all of the supporting requirements as detailed in the waste variation basic pre-application advice note attached, under the bespoke rules permit variation heading. Please note that a soil washing activity includes elements of both physical and chemical treatment and due to the soil and aggregate processing sites these are commonly associated with - there is often a lack of impermeable surface or sealed drainage. This in turn presents a potential environmental risk to groundwater from potentially contaminated wash waters, from the plant itself, and the storage of wet wastes post washing.

Additional waste code from the proposed soil washing facility to the inert landfill

You will require the following supporting documents:

Updated Waste acceptance procedures and criteria

The waste acceptance procedures and criteria will need to be updated to cover the additional waste code from the proposed soil washing facility. You must provide full details of the procedures you'll follow when you accept waste onto your site, following the [accept the right waste](#) guidance.

Updated Emissions Risk Assessment

This should cover all potential risks to sensitive receptors such as the environment, a human population and wildlife from the additional waste code as necessary. See the following guidance [risk assessments for your environmental permit](#). If this risk assessment identifies any risks, management plans such as the dust management plan may also be needed.

Please also see the attached advice notes entitled, 'Waste basic additional pre-application advice for inert waste landfill sites'.

Application fee

To add the soil washing facility and add the waste code to the inert landfill – this will be a substantial variation. The application fee will be £7,930 for the new soil washing facility (charging table 1.16.14) and the application fee to add the waste code to the inert landfill will be a minor variation to the existing activity which will be £3,961 (charging table 1.17.7).

If after reading the advice document (s) you still have questions or want to access other pre-application services then you should follow the instructions given towards the end of the document.

Yours sincerely,
Pre-Application Team

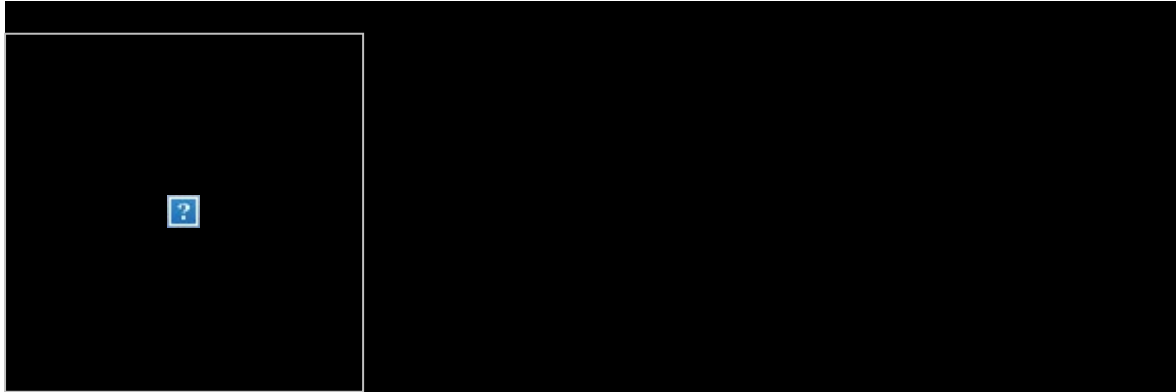
Disclaimer

The advice given is based on the information you have provided, and does not constitute a formal response or decision of the Environment Agency with regard to future permit applications. Any views or opinions expressed are without prejudice to the Environment Agency's formal consideration of any application. Please note that any application is subject to duly making and then full technical checks during determination, and additional information may be required based on your detailed submission and site specific requirements and the advice given is to address the specific pre-application request.

This advice covers waste only. Other permissions from the Environment Agency and/or other bodies may be required for associated or other activities.

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From: [SM-Defra-RESP-notifications \(DEFRA\)](#)
To: [Oliver Mann](#)
Cc: [Hemsley, Tamara](#)
Subject: Basic Pre-Application Advice Request EPR/ZP3497EW/P002 CRM:0071012
Date: 19 December 2023 12:42:13
Attachments: [Landfill Inert basic pre-application advice \(Waste\).pdf](#)



Dear Oliver Mann,

Following the response to your pre-application follow on request and the email I sent on 15 December 2023 - the advice note entitled, 'Waste basic additional advice - inert landfill', has been superseded and replaced with the advice note entitled, 'Landfill inert basic pre-application advice (waste)'. Please see the latest document attached.

Yours sincerely,
Pre-Application Team

Department for Environment, Food and Rural Affairs (Defra) This email and any attachments is intended for the named recipient only. If you have received it in error you have no authority to use, disclose, store or copy any of its contents and you should destroy it and inform the sender. Whilst this email and associated attachments will have been checked for known viruses whilst within Defra systems we can accept no responsibility once it has left our systems. Communications on Defra's computer systems may be monitored and/or recorded to secure the effective operation of the system and for other lawful purposes.

APPENDIX 3

EPR Application Forms

Application for an environmental permit

Part A – About you



You will need to fill in this part A if you are applying for a new permit, applying to change an existing permit or surrender your permit, or want to transfer an existing permit to yourself. Please check that this is the latest version of the form available from our website.

You can apply online for Waste standard rules environmental permits, bespoke waste permits and bespoke Medium combustion plant permits

Apply online for an environmental permit.

Please read through this form and the guidance notes that came with it.

The form can be:

- 1) saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.
- 2) printed off and filled in by hand. Please write clearly in the answer spaces.

Note: if you believe including information on a public register would not be in the interests of national security you must enclose a letter telling us that you have told the Secretary of State. We will not include the information in the public register unless directed otherwise.

It will take less than one hour to fill in this part of the application form.

Where you see the term 'document reference' on the form, give the document references and send the documents with the application form when you've completed it.

Contents

- 1 About you
 - 2 Applications from an individual
 - 3 Applications from an organisation of individuals or charity
 - 4 Applications from public bodies
 - 5 Applications from companies or corporate bodies
 - 6 Your address
 - 7 Contact details
 - 8 How to contact us
 - 9 Where to send your application
- Appendix 1 – Date of birth information for installation and waste activities (applications for a new permit or transferring a permit) only

1 About you

Are you applying as an individual, an organisation of individuals (for example, a partnership), a company (this includes Limited Liability Partnerships) or a public body?

An individual

- ☐ Now go to section 2 and if you are applying for a new permit or transferring a permit for an installation or waste activity please also fill in Appendix 1

An organisation of individuals (for example, a partnership)

- ☐ Now go to section 3 and if you are applying for a new permit or transferring a permit for an installation or waste activity please also fill in Appendix 1

A public body

- ☐ Now go to section 4

A registered company or other corporate body

- ☐ Now go to section 5 and if you are applying for a new permit or transferring a permit for an installation or waste activity please also fill in Appendix 1

2 Applications from an individual

2a Please give us the following details

Name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Now go to section 6

3 Applications from an organisation of individuals or charity

3a Type of organisation

For example, a charity, a partnership, a group of individuals or a club

3b Details of the organisation or charity

If you are an organisation of individuals, please give the details of the main representative below. If relevant, provide details of other members (please include their title Mr, Mrs and so on) on a separate sheet and tell us the document reference you have given this sheet

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Now go to question 3c or section 6

3c Details of charity

Full name of charity

This should be the full name of the legal entity not any trading name.

3d Company registration number

If you are registered with Companies House please tell us your registration number

3e Charity Commission number

If you are registered with the Charity Commission please tell us your registration number

Now go to section 6

4 Applications from public bodies

4a Type of public body

For example, NHS trust, local authority, English county council

4b Name of the public body

4c Please give us the following details of the executive

An officer of the public body authorised to sign on your behalf

Name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Position

Now go to section 6

5 Applications from companies or corporate bodies

5a Name of the company

5b Company registration number

Date of registration (DD/MM/YYYY)

If you are applying as a corporate organisation that is not a limited company, please provide evidence of your status and tell us below the reference you have given the document containing this evidence.

Document reference

5 Applications from companies or corporate bodies, continued

5c Please give details of the directors

If relevant, provide details of other directors and company secretary, if there is one, on a separate sheet and tell us the reference you have given this sheet.

Document reference

Details of company secretary (if relevant) and director/s

Title (Mr, Mrs, Miss and so on)

First name

Last name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Now go to section 6

6 Your address

6a Your main (registered office) address

For companies this is the address on record at Companies House.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

For an organisation of individuals every partner needs to give us their details, including their title Mr, Mrs and so on. So, if necessary, continue on a separate sheet and tell us below the reference you have given the sheet.

Document reference

6b Main UK business address (if different from above)

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

6 Your address, continued

Contact numbers, including the area code

Phone

Fax

Mobile

Email

Now go to section 7

7 Contact details

7a Who can we contact about your application?

It will help us if there is someone we can contact if we have any questions about your application. The person you name should have the authority to act on your behalf.

Please add a second contact on a separate sheet if this person is not always available.

Document reference of this separate sheet

This can be someone acting as a consultant or an 'agent' for you.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

7b Who can we contact about your operation (if different from question 7a)?

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

7 Contact details, continued

7c Who can we contact about your billing or invoice?

Note: Please provide the name and address that all invoices should be sent to for your subsistence fees.

As in question 7a ☐

As in question 7b ☐

Please give details below if different from question 7a or 7b.

Contact name

Title (Mr, Mrs, Miss and so on)

First name

Last name

Address

Postcode

Contact numbers, including the area code

Phone

Fax

Mobile

Email

8 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: www.gov.uk/government/organisations/environment-agency

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it. More information on how to do this is available at: www.gov.uk/government/organisations/environment-agency/about/complaints-procedure.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

9 Where to send your application

For how many copies to send see the guidance note on part A.

For water discharges by email to PSC-WaterQuality@environment-agency.gov.uk

For waste and installations by email to PSC@environment-agency.gov.uk

For flood risk activity permits send 1 copy only to enquiries@environment-agency.gov.uk or to the local Environment Agency office for where the work is proposed to be carried out.

Or

Permitting Support, NPS Sheffield
Quadrant 2
99 Parkway Avenue
Parkway Business Park
Sheffield
S9 4WF

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

☐

No thank you

☐

For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No ☐

Yes ☐

Amount received

£ _____

Appendix 1 – Date of birth information for installation and waste activities (applications for a new permit or transferring a permit) only

Date of birth information in this appendix will not be put onto our Public Register

Are you applying as an individual, an organisation of individuals (for example, a partnership) or a company (this includes Limited Liability Partnerships)?

- | | |
|---|--------------------------------------|
| An individual | ☐ Now go to 2 |
| An organisation of individuals (for example, a partnership) | ☐ Now go to 3 |
| A registered company or other corporate body | ☐ Now go to 4 |

2 Applications from an individual

Please give us the following details

Name

Date of birth (DD/MM/YY)

3 Applications from an organisation of individuals or charity

Details of the organisation or charity

If you are an organisation of individuals, please give the date of birth details of the main representative below. If relevant, provide details of other members on a separate sheet and tell us the document reference you have given this sheet.

Name

Date of birth (DD/MM/YY)

Document reference

4 Applications from companies or corporate bodies

Name of the company

Please give the date of birth details for all directors and company secretary if there is one. If relevant, provide those details of other directors on a separate sheet and tell us the document reference you have given this sheet.

Details of company secretary (if relevant) and director/s

Name

Date of birth (DD/MM/YY)

Name

Date of birth (DD/MM/YY)

Name

Date of birth (DD/MM/YY)

Document reference

Application for an environmental permit

Part C2 – General – varying a bespoke permit



Fill in this part of the form, together with part A and the relevant parts of C3 to C7 and part F1 or F2, if you are applying to vary (change) the conditions or any other part of the permit. Please check that this is the latest version of the form available from our website.

You only need to give us details in this application for the parts of the permit that will be affected (for example, if you are adding a new facility or changing existing ones).

Waste operation changing to installation or vice versa?

If your changes mean that a waste operation becomes an installation (or vice versa) you also need to fill in either part C3 (waste to installation) or part C4 (installation to waste).

You do not need to resend any information from your original permit application if it is not affected by your proposed changes.

Please read through this form and the guidance notes that came with it.

The form can be:

- 1) saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.
- 2) printed off and filled in by hand. Please write clearly in the answer spaces.

It will take less than two hours to fill in this part of the application form.

Contents

- 1 About the permit
 - 2 About your proposed changes
 - 3 Your ability as an operator
 - 4 Consultation
 - 5 Supporting information
 - 6 Environmental risk assessment
 - 7 How to contact us
- Appendix 1 – Low impact installation checklist
Appendix 2 – Date of birth information for Relevant offences and/or Technical ability questions only

1 About the permit

Note: If you are applying to convert your existing permit to a standard permit or add a standard facility you need to fill out form C1.

1a Discussions before your application

If you have had discussions with us before your application, give us the permit reference or details on a separate sheet. Tell us below the reference you have given this extra sheet.

Permit or document reference

1b Permit number

What is the permit number that this application relates to?

1c Site details

What is the name, address and postcode of the site?

Site name

Address

Postcode

2 About your proposed changes

2a Type of variation

What type of variation are you applying for?

Minor technical

☐

Normal variation

☐

Substantial

☐

2 About your proposed changes, continued

2b Changes or additions to existing activities

Please give us brief details in the box below. More detailed information can be given in Table 1 below.

--

Fill in Table 1 with details of all the proposed changes to current activities. In the final column of the table, give us the document reference for the proposed changes and send them to us with your filled in application form.

Fill in a separate table for each activity you are applying to vary or add. Use a separate sheet if you have a long list and send it to us with your application form. Tell us below the reference you have given this document.

Document reference

You only need to fill in one table for your mining waste operations.

2c Consolidating (combining) or updating existing permits

If your proposed change is to modernise (update) your permit, now answer 2c1; otherwise go to 2d.

If your proposed change is to consolidate (combine) a number of permits, now answer 2c2; otherwise go to 2d.

Note: In both cases we may require additional information from you about, for example, your management system. Therefore we would always advise you to talk to us before you submit any application to modernise or consolidate permits.

2c1 Do you want to have a modern style permit?

No ☐

Yes ☐

2c2 Identify all the permits you want to consolidate (combine) by listing the permit numbers in Table 2 below

Table 2 – Permit numbers

2d Treating batteries

2d Are you proposing to treat batteries?

No ☐

Yes ☐ Tell us how you will do this and send us a copy of your explanation and tell us below the reference you have given this explanation

Document reference for the explanation

2e Ship recycling

2e1 Is your activity covered by the Ship Recycling Regulations 2015? (See the guidance notes on part C2.)

No ☐

Yes ☐ Tell us how you will do this. Please send us a copy of your explanation and your facility recycling plan, and tell us below the reference numbers you have given these documents

Document reference for the explanation

Document reference for the facility recycling plan

2e2 Is this a renewal of an existing authorisation covered by the Ship Recycling Regulations 2015?

No ☐

Yes ☐ Tell us the expiry date of your existing authorisation (DD/MM/YYYY)

2 About your proposed changes, continued

Table 1 – Changes to existing activities

Fill in Table 1 with details of all the proposed changes to current activities. In the final column of the table, give us the document reference for the proposed changes and send them to us with your filled in application form.

Name	Installation schedule 1 references	Description of the installation activity	Description of waste operation	Description of the mining waste operations	Description of water discharge activity	Description of groundwater activity	Proposed changes document reference
i.e. name of installation, waste operation, mining waste operation, water discharge activity or groundwater activity							
Example – effluent unique name					Example – treated sewage effluent		
If you do not have enough room, go to the line below or send a separate document and give us the document reference here							

2 About your proposed changes, continued

2f Low impact installations (installations only)

2f1 Will any changes mean that any of the regulated facilities will become low impact installations?

No ☐ Now go to section 3

Yes ☐ If yes, tell us how you meet the conditions for a low impact installation (see the guidance notes on part C2 – Appendix 1)

Document reference

Tick the box to confirm you have filled in the low impact installation checklist in appendix 1 for each regulated facility

☐

3 Your ability as an operator

If you are applying to add waste installations or waste operations to a permit that has not previously had them, you need to fill in all of section 3.

If you are applying to consolidate (combine) two or more permits or have an updated permit you must fill in question 3d.

This section does not apply for applications to surrender a permit.

3a Relevant offences

Installations and waste operations only (see the guidance notes on part C2).

3a1 Have you, or any other relevant person, been convicted of any relevant offence?

No ☐ Now go to question 3b

Yes ☐ Please give details below

Name of the relevant person

Title (Mr, Mrs, Miss and so on)

First name

Last name

Position held at the time of the offence

Name of the court where the case was dealt with

Date of the conviction (DD/MM/YY)

Offence and penalty set

Date any appeal against the conviction will be heard (DD/MM/YYYY)

If necessary, use a separate sheet to give us details of other relevant offences and tell us below the reference number you have given the extra sheet.

Document reference

Now go to question 3b

Please also complete the details in Appendix 2.

3b Technical ability

Specified waste management activities and waste operations only (see the guidance notes on part C1).

Please indicate which of the two schemes you are using to demonstrate you are technically competent to operate your facility and the evidence you have enclosed to demonstrate this.

ESA/EU skills

I have enclosed a copy of the current Competence Management System certificate

☐

CIWM/WAMITAB scheme

Please select **one** of the following:

- I have enclosed a copy of:

– the relevant qualification certificate/s

☐

or

– evidence of deemed competence

☐

or

3 Your ability as an operator, continued

- Environment Agency assessment ☐
- or
- evidence of nominated manager status under the transitional provisions for previously exempt activities ☐

and, if deemed competent or Agency-assessed, or if there is evidence of a nominated manager, or if the original qualification is over two years old:

I have enclosed a copy of the relevant current continuing competence certificate/s ☐

For each technically competent manager please give the following information. If necessary, use a separate sheet to give us these details and tell us below the document reference you have given the extra sheet.

Title (Mr, Mrs, Miss and so on)

First name

Last name

Phone

Mobile

Email

Please provide the environmental permit number/s and site address for **all** other waste activities that the proposed technically competent manager provides technical competence for, including permits held by other operators. Continue on a separate sheet as required.

Permit number	Site address	Postcode

Document reference

Now go to question 3c

Please also complete the details in Appendix 2.

3c Finances

Installations, waste operations and mining waste operations only (see the guidance notes on part C2).

Please note that if you knowingly or carelessly make a statement that is false or misleading to help you get an environmental permit (for yourself or anyone else), you may be committing an offence under the Environmental Permitting (England and Wales) Regulations 2016.

Do you or any relevant person or a company in which you were a relevant person have current or past bankruptcy or insolvency proceedings against you?

No ☐

Yes ☐ Please give details below, including the required set-up costs (including infrastructure), maintenance and clean up costs for the proposed facility against which a credit check may be assessed

We may want to contact a credit reference agency for a report about your business's finances.

3 Your ability as an operator, continued

Landfill, Category A mining waste facilities and mining waste facilities for hazardous waste only

How do you plan to make financial provision (to operate a landfill or a mining waste facility you need to show us that you are financially capable of meeting the obligations of closure and aftercare)?

Renewable bonds ☐

Cash deposits with the Environment Agency ☐

Other – provide comprehensive details ☐

Document reference

Provide a cost profile and expenditure plan of your estimated costs throughout the aftercare period of your site.

Document plan reference

Now go to question 3d

3d Management systems

You must have an effective, written management system in place that identifies and reduces the risk of pollution. You may show this by using a certified scheme or your own system.

Your permit requires you (as the operator) to ensure that you manage and operate your activities in accordance with a written management system.

You need to be able to explain what happens at each site and which parts of the overall management system apply. For example, at some sites you may need to show you are carrying out additional measures to prevent pollution because they are nearer to sensitive locations than others.

You can find guidance on management systems on our website at www.gov.uk/government/organisations/environment-agency.

Tick this box to confirm that you have read the guidance and that your management system will meet our requirements ☐

What management system will you provide for your regulated facility?

ISO 14001 ☐

BS 8555 (Phases 1–5) ☐

Acorn ☐

Green dragon ☐

Own management system ☐

Please make sure you send us a summary of your management system with your application.

Document reference/s

4 Consultation

Fill in 4a to 4c for installations and waste operations and 4d for installations only.

Could the waste operation or installation involve releasing any substance into any of the following?

4a A sewer managed by a sewerage undertaker?

No ☐

Yes ☐ Please name the sewerage undertaker

4b A harbour managed by a harbour authority?

No ☐

Yes ☐ Please name the harbour authority

4c Directly into relevant territorial waters or coastal waters within the sea fisheries district of a local fisheries committee?

No ☐

Yes ☐ Please name the fisheries committee

4 Consultation, continued

4d Is the installation on a site for which:

4d1 a nuclear site licence is needed under section 1 of the Nuclear Installations Act 1965?

No ☐

Yes ☐

4d2 a policy document for preventing major accidents is needed under regulation 5 of the Control of Major Accident Hazards Regulations 2015, or a safety report is needed under regulation 7 of those Regulations?

No ☐

Yes ☐

5 Supporting information

5a Provide a plan or plans for the site

See the guidance notes on part C2 for what needs to be marked on the plan.

Clearly mark the site boundary or discharge point, or both. Also include site drainage plans, site layout plans, and plant design drawings/process flow diagrams (as required). (See the guidance notes on part C2.)

Document reference/s of the plans

5b Do any of the variations you plan to make need extra land to be included in the permit?

No ☐

Yes ☐ Please provide a site report for the extra land

Document report reference/s

5c Provide a non-technical summary of your application

Document reference of the summary

5d Risk of fire from sites storing combustible waste

Are you applying for an activity that includes the storage of combustible wastes?

(This applies to all activities excluding standalone water and groundwater discharges.)

No ☐ Go to question 5f

Yes ☐ Go to question 5e

5e Will your variation increase the risk of a fire occurring or increase the environmental risk if a fire occurs?

See the guidance notes on part C2.

No ☐

Yes ☐ Provide a fire prevention plan. You need to highlight any changes you have made since your pre-application discussions

Document reference of the plan

5f Adding an installation

If you are applying to add an installation, tick the box to confirm that you have sent in a baseline report and provide a reference

☐

Document reference of the report

6 Environmental risk assessment

If you need one, see the guidance notes on part C2.

Provide an assessment of any additional risks the proposed changes or additions to your regulated facilities poses to the environment as part of your application to vary this permit. The risk assessment must follow the methodology set out in 'Risk assessments for your environmental permit' at <https://www.gov.uk/guidance/risk-assessments-for-your-environmental-permit> or an equivalent method.

Document reference for the assessment

7 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: www.gov.uk/government/organisations/environment-agency

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

☐

No thank you

☐

For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No ☐

Yes ☐

Amount received

£

Plain English Campaign's Crystal Mark does not apply to appendix 1.**Appendix 1 – Low impact installation checklist**

Installation reference				
Condition	Response			Do you meet this?
A – Management techniques	Provide references to show how your application meets A			Yes ☐
	References			No ☐
B – Aqueous waste	Effluent created		m ³ /day	Yes ☐ No ☐
C – Abatement systems	Provide references to show how your application meets C			Yes ☐
	References			No ☐
D – Groundwater	Do you plan to release any hazardous substances or non-hazardous pollutants into the ground?		Yes ☐ No ☐	Yes ☐ No ☐
E – Producing waste	Hazardous waste		Tonnes per year	Yes ☐
	Non-hazardous waste		Tonnes per year	No ☐
F – Using energy	Peak energy consumption		MW	Yes ☐ No ☐
G – Preventing accidents	Do you have appropriate measures to prevent spills and major releases of liquids? (See 'How to comply'.)		Yes ☐ No ☐	Yes ☐ No ☐
	Provide references to show how your application meets G			
	References			
H – Noise	Provide references to show how your application meets H			Yes ☐
	References			No ☐
I – Emissions of polluting substances	Provide references to show how your application meets I			Yes ☐
	References			No ☐
J – Odours	Provide references to show how your application meets J			Yes ☐
	References			No ☐
K – History of keeping to the regulations	Say here whether you have been involved in any enforcement action as described in Compliance History Appendix 1 explanatory notes		Yes ☐ No ☐	

Appendix 2 – Date of birth information for Relevant offences and/or Technical ability questions only

Date of birth information in this appendix will not be put onto our Public Register

Have you filled in the Relevant Offences question?

Yes ☐

No ☐

Have you filled in the Technical ability question?

Yes ☐

No ☐

2 Relevant Offences - date of birth information

Please give us the following details

Name

Date of birth (DD/MM/YY)

3 Technical ability - date of birth information

Name

Date of birth (DD/MM/YY)

Application for an environmental permit

Part C4 – Varying a bespoke waste operation permit



Fill in this part of the form, together with parts A, C2 and F1, if you are applying to vary (change) the conditions or any other part of the permit. Please check that this is the latest version of the form available from our website.

You only need to give us details in this application for the parts of the permit that will be affected (for example, if you are adding a new facility or making changes to existing ones).

You do not need to resend any information from your original permit application if it is not affected by your proposed changes.

Please read through this form and the guidance notes that came with it.

The form can be:

- 1) saved onto a computer and then filled in. Please note that the form follows a logic that means questions will open or stay closed depending on a previous answer. So you may not be able to enter text in some boxes.
- 2) printed off and filled in by hand. Please write clearly in the answer spaces.

It will take less than three hours to fill in this part of the application form.

Contents

- 1 What waste operations are you applying to vary?
 - 2 Point source emissions to air, water and land
 - 3 Operating techniques
 - 4 Monitoring
 - 5 How to contact us
- Appendix 1 – Specific questions for the recovery to land for agricultural benefit of compost like outputs from the treatment of mixed municipal solid wastes
- Appendix 2 – Specific questions for inert waste landfill and deposit for recovery operations

1 What waste operations are you applying to vary?

Fill in Table 1a with details of what you are applying to vary.

Fill in a separate table for each waste operation you are applying to vary. Use a separate sheet if you have a long list and send it to us with your application form. Tell us below the reference you have given this document.

Document reference

Types of waste accepted

For each line in Table 1a, fill in a separate document to list those wastes you will accept on the site for that operation, giving the List of Wastes catalogue code (search for 'Technical guidance on how to assess and classify waste' at www.gov.uk/government/organisations/environment-agency). If you need to exclude waste from your activity or facility by restricting the description, quantity, physical nature, hazardous properties, composition or characteristic of the waste, include these in the document. Send it to us with your application form.

1 What waste operations are you applying to vary?, continued**Table 1a – Waste operations which do not form part of an installation**

Name of the waste operation	Description of the waste operation	Annex I (D codes) and Annex II (R codes) and descriptions	Hazardous waste treatment capacity (if this applies) (See note 1)	Non-hazardous waste treatment capacity (if this applies) (See note 1)
Add extra rows if you need them. If you do not have enough room, go to the line below or send a separate document and give us the document reference here	Use the description from the guidance. Include any extra detail that you think would help to accurately describe what you want to do			
For all waste operations	Total storage capacity (see note 2)			
	New total if varying to increase			
	Annual throughput (tonnes each year)			
	New total if varying to increase			

1 What waste operations are you applying to vary?, continued**Notes**

1 By 'capacity', we mean:

- the total landfill capacity (cubic metres) for landfills
- the total treatment capacity (tonnes each day) for waste treatment
- the total storage capacity (tonnes) for waste-storage operations

2 By 'total storage capacity', we mean the maximum amount of waste in tonnes you store on the site at any one time.

Please provide the document reference. You can use Table 1b as a template.

If you want to accept any waste with a code ending in 99, you must provide more information and a full description of the waste in the document, (for example, detailing the source, nature and composition of the waste). Where you only want to receive specific wastes within a waste code you can provide further details of the waste you want to receive. Where a waste is dual coded you should use both codes for the waste.

Document reference

Table 1b – Template example – types of waste accepted and restrictions

Waste code	Description of the waste
Example	Example
02 01 08*	Agrochemical waste containing hazardous substances
18 01 03*	Infectious clinical waste, not contaminated with chemicals or medicines – human healthcare (may contain sharps) for alternative treatment
17 05 03*/17 06 05*	Non-hazardous soil from construction or demolition contaminated with fragments of asbestos cement sheet

1c Deposit for recovery purposes (see the guidance notes on part C4)

Are you applying for a waste recovery activity involving the permanent deposit on waste on land for construction or land reclamation (including landfill restoration)?

No ☐ Go to section 2

Yes ☐

Are you applying for an inert landfill permit that includes a restoration activity using waste?

No ☐ Go to section 2

Yes ☐ Please send us a copy of your restoration plan in accordance with our guidance at <https://www.gov.uk/guidance/landfill-operators-environmental-permits/restore-your-landfill-site>

Have we advised you during pre-application discussions that we believe the activity is waste recovery?

No ☐ Go to section 2

Yes ☐

Have there been any changes to your proposal since the discussions?

No ☐

Yes ☐

Please send us a copy of your waste recovery plan that complies with our guidance at <https://www.gov.uk/guidance/waste-recovery-plans-and-permits>. You need to highlight any changes you have made since your pre-application discussions. Also give us the reference number of the document with your justification.

Please note that there is an additional charge for the assessment of a waste recovery plan that must be submitted as part of this application. For the charge see <https://www.gov.uk/topic/environmental-management/environmental-permits>.

Document reference

2 Point source emissions to air, water and land

Fill in Table 2 below with details of the point source emissions that result from the operating techniques at each of your waste operations.

Fill in one table for each waste facility.

Table 2 – Emissions

Name of the waste operation				
Point source emissions to air				
Emission point reference and location	Source	Parameter	Quantity	Unit
Point source emissions to water (other than sewers)				
Emission point reference and location	Source	Parameter	Quantity	Unit
Point source emissions to sewers, effluent treatment plants or other transfers off site				
Emission point reference and location	Source	Parameter	Quantity	Unit
Point source emissions to land				
Emission point reference and location	Source	Parameter	Quantity	Unit

Supporting information

3 Operating techniques

3a Technical standards

Fill in Table 3a for each waste operation you refer to in Table 1a above and list the ‘appropriate measures’ you are planning to use. If you are using the standards set out in the relevant technical guidance(s) (TGN) there is no need to justify using them within your documents in Table 3a.

You must justify your decisions in a separate document if:

- there is no technical standard
- the technical guidance provides a choice of standards, or
- you plan to use another standard

This justification could include a reference to the Environmental Risk Assessment provided in part C2 of the application form.

Table 3a should summarise:

- the operations undertaken
- the measures you will use to control the emissions from your process, as identified in your risk assessment or the relevant technical guidance
- how you will meet other standards set out in the relevant technical guidance

Table 3a – Technical standards

Fill in a separate table for each waste operation.

Waste operation		
Description of the waste operation Add extra rows if you need them	Appropriate measure (TGN reference)	Document reference (if appropriate)

In all cases, describe the type of facility or operation you are applying for and provide site infrastructure plans, location plans and process flow diagrams or block diagrams to help describe the operations and processes undertaken. Give the document references you use for each plan, diagram and description.

Document reference

3b General requirements

Fill in a separate table for each waste operation.

Table 3b – General requirements

Name of the waste operation	
If the technical guidance or your risk assessment shows that emissions of substances not controlled by emission limits are an important issue, send us your plan for managing them	Document reference or references
If the technical guidance or your risk assessment shows that odours are an important issue, send us your odour management plan. If your activity type is listed in the guidance document ‘Control and monitor emissions for your environmental permit’ as needing an odour management plan, or your risk assessment shows that odours are an important issue, you need to send us your odour management plan.	Document reference or references
If the technical guidance or your risk assessment shows that noise or vibration are important issues, send us your noise or vibration management plan (or both)	Document reference or references

3 Operating techniques, continued

We may need to ask for management plans or risk assessments in other circumstances based on our regulatory experience. If you are unsure as to whether you need to submit a management plan with your application, please discuss this with the Environment Agency prior to submission.

Search for 'Risk assessment for your environmental permit' at www.gov.uk/government/organisations/environment-agency.

3c Information for specific sectors

For some of the sectors, we need more information to be able to set appropriate conditions in the permit. This is as well as the information you may provide in sections 5, 6 and 7. For those activities listed in Table 3c, you must answer the questions in the related document.

Table 3c – Questions for specific sectors

Sector	Appendix
Recovery to land for agricultural benefit of compost like outputs from the treatment of mixed municipal solid wastes	See the questions in appendix 1
Inert landfill and deposit of waste on land for construction, land reclamation, restoration or improvement	See the questions in appendix 2

General information

4 Monitoring

4a Describe the measures you use for monitoring emissions by referring to each emission point in Table 2 above

You should also describe any environmental monitoring. Tell us:

- how often you use these measures
- the methods you use
- the procedures you follow to assess the measures

Document reference

4b Point source emissions to air only

Provide an assessment of the sampling locations used to measure point source emissions to air. The assessment must use M1 (search for 'M1 sampling requirements for stack emission monitoring' at www.gov.uk/government/organisations/environment-agency).

Document reference of the assessment

5 How to contact us

If you need help filling in this form, please contact the person who sent it to you or contact us as shown below.

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Textphone: 03702 422 549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: www.gov.uk/government/organisations/environment-agency

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, please tell us how we can improve it.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

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How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

☐

No thank you

☐

For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No ☐

Yes ☐

Amount received

£

Plain English Campaign's Crystal Mark does not apply to appendices 1 to 2.

Appendix 1 – Specific questions for the recovery to land for agricultural benefit of compost like outputs from the treatment of mixed municipal solid wastes

1 Please provide an accurate and reliable characterisation of your compost like outputs (CLO). This should be based on sampling and analysis of the CLO produced by the treatment (MBT) process over a 12-month period and in accordance with section 2 of TGN 6.15

Document reference

2 Please provide an agricultural benefit assessment for the use of your CLO. This should be based on section 2 of TGN 6.15 and should be signed and dated by an appropriate technical expert

Document reference

3 Please provide a site-specific risk assessment of risks to soil and food chain receptors. This should be based on Schedule 2 of TGN 6.15 and include a map with a green outline showing the boundary of the area being treated and include:

- locations where the waste will be stored and spread
- any spring, well or borehole used to supply water for domestic or food production purposes that is within 250 metres of the area being treated
- any spring, well or borehole not being used for domestic or food production purposes that is within 50 metres of the area being treated
- any European designated sites (candidate or Special Area of Conservation, proposed or Special Protections Area in England and Wales or Ramsar Site) or Sites of Special Scientific Interest (SSSI) which are within 500 metres of the place where waste is to be stored or spread
- the location of public rights of way
- any Groundwater Source Protection Zones
- surface watercourses
- any buildings or houses within 250 metres of the area being treated
- land drains within the boundary

Document reference

4 Are the technical standards and measures fully in line with those set out in section 3 of TGN 6.15?

No ☐ Provide justification for departure from TGN 6.15 and a copy of the proposed technical standards, measures or procedures

Document reference

Yes ☐

Appendix 2 – Specific questions for inert waste landfill and deposit for recovery operations

1 Please provide your Environmental Setting and Site Design (ESSD) report

Document reference

Note: You should use the Environment Agency template to help you develop an environmental setting and site design (ESSD) report.

2 Please provide your Waste Acceptance Procedures (including Waste Acceptance Criteria)

Document reference

3 Have you provided a hydrogeological risk assessment (HRA) for the site?

No ☐ Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes ☐ Document reference

4 Have you completed an outline engineering plan for the site?

No ☐ Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes ☐ Document reference

5 Have you provided a stability risk assessment (SRA) for your site?

No ☐ Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes ☐ Document reference

Appendix 2 – Specific questions for inert waste landfill and deposit for recovery operations, continued

6 Have you completed a monitoring plan for the site?

No ☐ Please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes ☐ Document reference

7 Have you completed a plan for closing the site and procedures for looking after the site once it has closed?

No ☐ If no for deposit for recovery activities please refer to the section of your ESSD that explains why this is unnecessary for your site

Yes ☐ For inert waste landfill you must provide a closure plan

Document reference

Spreading waste to support plant growth

8a Does the activity involve the deposit of waste to create or treat a growing medium (R10 for land treatment)?

No ☐

Yes ☐

8b If you answered 'yes' to question 8a, does the R10 activity include the spreading of waste to improve the quality of the growing medium (e.g. soil conditioner to improve existing soil profile)?

No ☐

Yes ☐ Go to question 8c

8c If you have answered 'Yes' to question 8b, have you completed a benefit statement?

No ☐ Please explain why

Document reference

Yes ☐

Note: Refer to our guidance when completing your statement (including EPR 8.01, section 6).

Application for an environmental permit Part F1 – Charges and declarations



You will need to use an Adobe Acrobat reader product to complete this form. The form may not work properly if you use a different pdf reader, such as the one built-in to your internet browser.

Fill in this part for all applications for:

- installations (excluding new permit and variation applications for intensive farming. Use application form Part B3.5 or C3.5 instead)
- waste operations
- mining waste operations
- medium combustion plant
- specified generators
- water discharges (excluding small discharges of 23m³ per day if using Part B6.5)
- groundwater activities (excluding small discharges of 15m³ per day or less if using Part B6.5 OR existing small discharges to Source Protection Zone1 if using Part B6.6)

Please check that this is the latest version of the form available from our website.

Please read through this form and the guidance notes that came with it.

The form can be:

- 1) saved onto a computer and then filled in.
- 2) printed off and filled in by hand. Please write clearly in the answer spaces.

It will take less than two hours to fill in this part of the application form.

Contents

- 1 **Working out charges**
- 2 **Payment**
- 3 **Privacy notice**
- 4 **Confidentiality and national security**
- 5 **Declaration**
- 6 **Application checklist**
- 7 **How to contact us**
- 8 **Where to send your application**

1 Working out charges

You must fill in this section.

You have to submit an application fee with your application. For guidance on the fee and how to pay your charges, please see our charging guidance (<https://www.gov.uk/government/publications/environmental-permitting-charges-guidance>) and associated links to the current charging scheme. You can also contact us for pre-application to help work out charges

Please note that there is an annual subsistence charge to cover the costs we incur in the ongoing regulation of the permit.

1 Working out charges, continued

Table 1 – Type of application (fill number of activity being applied for in each column)

Installation	Waste	Mining waste	Medium Combustion Plant (MCP)/ Specified Generator (SG)	Water discharge	Groundwater activity

Table 2 – Charge type (A)

Charge activity reference	Charge activity description	What are you applying to do? For example, a new permit, minor variation, normal variation, substantial variation, surrender, low risk surrender, transfer	Amount
e.g. 1.17.3	e.g. Section 5.2 – landfill for hazardous waste	e.g. transfer application	e.g. £5,561
Total A			

1 Working out charges, continued

Table 3 – Additional assessment charges (B)

Part 1.19 Charges for plans and assessments			Tick appropriate
Reference	Plan or assessment	Charge	
1.19.1	Waste recovery plan	£1,231	
1.19.2	Habitats assessment (except where the application activity is a flood risk activity)	£779	
1.19.3	Fire prevention plan (except where the application activity is a farming installation)	£1,241	
1.19.4	Pests management plan (except where the application activity is a farming installation)	£1,241	
1.19.5	Emissions management plan (except where the application activity is a farming installation)	£1,241	
1.19.6	Odour management plan (except where the application activity is a farming installation)	£1,246	
1.19.7	Noise and vibration management plan (except where the application activity is a farming installation)	£1,246	
1.19.8	Ammonia emissions risk assessment (intensive farming applications only)	£620	
1.19.9	Dust and bio-aerosol management plan (intensive farming applications only)	£620	
	Advertising	£500	
Total B			

Total charges

Total A plus total B

2 Payment

Tick below to show how you have paid.

Cheque

Credit or debit card

Electronic transfer (for example, BACS)

Cheques

You should make cheques payable to 'Environment Agency' and make sure they have 'A/c Payee' written across them if it is not already printed on.

Please write the name of your company and application reference number on the back of your cheque. We will not accept cheques with a future date on them.

2 Payment, continued

Credit/debit cards

If you are paying by credit or with debit card we will call you. We can accept payments by Visa, MasterCard or Maestro card only.

Call me to arrange payment by debit or credit card

Electronic transfer BACS

If you choose to pay by electronic transfer, you will need to use the following information to make your payment:

Company name	Environment Agency
Company address	SSCL (Environment Agency), PO Box 797, Newport Gwent, NP10 8FZ
Bank	RBS/NatWest
Address	London Corporate Service Centre, CPB Services, 2nd Floor, 280 Bishopsgate, London EC2M 4RB
Sort code	60-70-80
Account number	10014411
Account name	EA RECEIPTS
Payment reference number	PSCAPPXXXXYYY

You need to create your own reference number. It should begin with PSCAPP (to reflect that the application is for a permitted activity) and it should include the first five letters of the company name (replacing the X's in the above reference number) and a unique numerical identifier (replacing the Y's in the above reference number). The reference number that you supply will appear on our bank statements.

You should also email your payment details and reference number to ea_fsc_ar@gov.sscl.com.

If you are making your payment from outside the United Kingdom, it must be in sterling. Our IBAN number is GB23NWBK60708010014411 and our SWIFTBIC number is NWBKGB2L.

If you do not quote your reference number, there may be a delay in processing your payment and application.

Provide a unique reference number for the application, i.e. do not only use the company name only

State who is paying (full name and whether this is the agent/applicant/other)

Fee paid

£ _____

Date payment sent (DD/MM/YYYY)

3 Privacy notice

The Environment Agency runs the environmental permit application service.

See <https://www.gov.uk/guidance/environmental-permits-privacy-notice> for how we use your personal information in services to support environmental permitting.

4 Confidentiality and national security

Confidentiality

We will normally put all the information in your application on a public register of environmental information. However, we may not include certain information in the public register if this is in the interests of national security, or because the information is confidential.

You can ask for information to be made confidential by enclosing a letter with your application giving your reasons. If we agree with your request, we will tell you and not include the information in the public register. If we do not agree with your request, we will let you know how to appeal against our decision, or you can withdraw your application. You can find guidance on confidentiality in ‘Environmental permitting guidance: core guidance’, published by Defra and available at <https://www.gov.uk/government/publications/environmental-permitting-guidance-core-guidance--2>.

Only tick the box below if you wish to claim confidentiality for parts of your application

Please treat the specified information in my application as confidential

National security

You can tell the Secretary of State that you believe including information on a public register would not be in the interests of national security. You must enclose a letter with your application telling us that you have told the Secretary of State and you must still include the information in your application. We will not include the information in the public register unless the Secretary of State decides that it should be included.

You can find guidance on national security in ‘Environmental permitting guidance: core guidance’, published by Defra and available at <https://www.gov.uk/government/publications/environmental-permitting-guidance-core-guidance--2>

You cannot apply for national security via this application.

Now fill in section 5

5 Declaration

If you knowingly or carelessly make a statement that is false or misleading to help you get an environmental permit (for yourself or anyone else), you may be committing an offence under the Environmental Permitting (England and Wales) Regulations 2016.

A relevant person should make the declaration (see the guidance notes on part F1). An agent acting on behalf of an applicant is NOT a relevant person.

Each individual (or individual trustee) who is applying for their name to appear on the permit must complete this declaration. You will have to print a separate copy of this page for each additional individual to complete.

If you are transferring all or part of your permit, both you and the person receiving the permit must make the declaration. You must fill in the declaration directly below; the person receiving the permit must fill in the declaration under the heading ‘For transfers only’.

Note: we will issue a letter to both current and new holders to confirm the transfer. If you are changing address we will need to send this letter to your new address; therefore please tell us your new address in a separate letter.

If you are unable to trace one or more of the current permit holders please see below under the transfers declaration.

5 Declaration, continued

I declare that the information in this application is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

If you deliberately make a statement that is false or misleading in order to get approval you may be prosecuted.

Tick this box to confirm that you understand and agree with the declaration above, then fill in the details below (you do not have to provide a signature as well)

I confirm that my standard facility will fully meet the rules that I have applied for (this only applies if the application includes standard facilities)

Tick this box if you do not want us to use information from any ecological survey that you have supplied with your application (for further information please see the guidance notes on part F1)

Name

Title

First name

Last name

on behalf of (if relevant; for example, a company or organisation and so on)

Position (if relevant; for example, a company or organisation and so on)

Today's date (DD/MM/YYYY)

For transfers only – declaration for person receiving the permit

A relevant person should make the declaration (see the guidance notes on part F1). An agent acting on behalf of an applicant is NOT a relevant person.

I declare that the information in this application to transfer an environmental permit to me is true to the best of my knowledge and belief. I understand that this application may be refused or approval withdrawn if I give false or incomplete information.

Note: If you cannot trace a person or persons holding the permit you may be able to transfer the permit without their declaration as above. Please contact us to discuss this and supply evidence in your application to confirm you are unable to trace one or all of the permit holders.

If you deliberately make a statement that is false or misleading in order to get approval you may be prosecuted.

Tick this box to confirm that you understand and agree with the declaration above, then fill in the details below (you do not have to provide a signature as well)

5 Declaration, continued

Name

Title

First name

Last name

on behalf of (if relevant; for example, a company or organisation and so on)

Position (if relevant; for example, a company or organisation and so on)

Today's date (DD/MM/YYYY)

Now go to section 6

6 Application checklist

You must fill in this section.

If your application is not complete, we will return it to you. If you aren't sure about what you need to send, contact us before you submit your application. For further information on pre-application advice, see <https://www.gov.uk/guidance/get-advice-before-you-apply-for-an-environmental-permit>.

You must do the following:

- Complete legibly all parts of the application form that are relevant to you and your activities

- Identify relevant supporting information in the form and send it with the application

- List all the documents you are sending in the table below. If necessary, continue on a separate sheet. This separate sheet also needs to have a reference number and you should include it in the table below

- For new permit applications or any changes to the site plan, provide a plan that meets the standards given in the guidance note on part F1

- Provide a supporting letter for any claim that information is confidential

- Get the declaration completed by a relevant person (not an agent)

- Send the correct fee

6 Application checklist, continued

Question reference	Document title	Document reference

7 How to contact us

If you have difficulty filling in this form, please contact the person who sent it to you or contact us as shown below.

General enquiries: 03708 506 506 (Monday to Friday, 8am to 6pm)

Textphone: 03702 422549 (Monday to Friday, 8am to 6pm)

Email: enquiries@environment-agency.gov.uk

Website: www.gov.uk/government/organisations/environment-agency

If you are happy with our service, please tell us. It helps us to identify good practice and encourages our staff. If you're not happy with our service, or you would like us to review a decision we have made, please let us know. More information on how to do this is available at: <https://www.gov.uk/government/organisations/environment-agency/about/complaints-procedure>.

Please tell us if you need information in a different language or format (for example, in large print) so we can keep in touch with you more easily.

8 Where to send your application

For how many copies to send see the guidance note on part F1.

Please send your filled in application form and supporting documents to:

For water discharges and groundwater activities by email to

PSC-WaterQuality@environment-agency.gov.uk

For waste, installations, medium combustion plant and specified generators by email to

PSC@environment-agency.gov.uk

For large electronic documents (too large for email attachment) you can upload your applications to file sharing sites and send us a link to download the documents. Alternatively, you can send more than one email with documents attached.

Or by post to:

Permitting Support, NPS Sheffield

Quadrant 2

99 Parkway Avenue

Parkway Business Park

Sheffield

S9 4WF

Do you want all information to be sent to you by email?

Please tick this box if you wish to have all communication about this application sent via email (we will use the details provided in part A)

Feedback

(You don't have to answer this part of the form, but it will help us improve our forms if you do.)

We want to make our forms easy to fill in and our guidance notes easy to understand. Please use the space below to give us any comments you may have about this form or the guidance notes that came with it.

How long did it take you to fill in this form?

We will use your feedback to improve our forms and guidance notes, and to tell the Government how regulations could be made simpler.

Would you like a reply to your feedback?

Yes please

No thank you



For Environment Agency use only

Date received (DD/MM/YYYY)

Our reference number

Payment received?

No

Yes

Amount received (£)

APPENDIX 4

Updated Waste Acceptance Procedure

INERT LANDFILL WASTE ACCEPTANCE PROCEDURE

Waste Types

All wastes for disposal will be strictly inert as defined by the Landfill Directive. Inert waste is defined by the Landfill Directive, article 2(e) 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 ecotoxicity of the leachate must be insignificant, and in particular not endanger the quality of surface water and/or groundwater’.

Permitted wastes for landfilling are listed in Tables 1 and 2 below.

Table 1: Permitted Waste Types for Landfill without Testing

EWC Code	Description
10 11 Wastes from manufacture of glass and glass products	
10 11 03	Waste glass-based fibrous materials
15 01 Packaging (including separately collected municipal packaging waste)	
15 01 07	Glass packaging
17 01 Concrete, bricks, tiles and ceramics	
17 01 01	Concrete
17 01 02	Bricks
17 01 03	Tiles and ceramics
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
17 02 Wood, glass and plastic	
17 02 02	Glass
17 05 Soil (including excavated soil from contaminated sites), stones and dredging spoil	
17 05 04	Soil and stones (excluding topsoil and peat) other than mentioned in 17 05 03
19 12 Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising).	
19 12 05	Glass
20 01 Separately collected fractions	
20 01 02	Glass
20 02 garden and park wastes (including cemetery waste)	
20 02 02	Soil and stones (excluding topsoil and peat)

Table 2: Permitted Waste Types for Landfill with Testing

EWC Code	Description
19 02 wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)	
19 02 06	Sludges from physico/chemical treatment other than those mentioned in 19 02 05; restricted to naturally occurring sand, silt and/or gravel including fines derived from soil washing.

Compliance testing

Level 1: Basic Characterisation of Waste

Basic characterisation is the first step in the acceptance procedure and constitutes a full characterisation of the waste by gathering all the necessary information for the safe disposal of the waste. Basic characterisation is required for each type of waste.

Existing customers are aware of the waste acceptance procedures. However, where the company is approached by a new customer the company's waste procedures will be explained including the need to carry out basic characterisation to ensure that the proposed inert waste is suitable for disposal at the Site.

Both new and existing customers will be required to provide the Operator with the necessary basic characterisation information in advance. Particular attention will be given to the source/origin of the waste to ascertain whether there is any reason to believe that the waste might be contaminated.

All customers are required to complete a Waste Information Form (WIF) before delivering any wastes to the Site. The completed WIF is returned to the Operator, together with any site investigation information, chemical analysis results and site plans that are available, to be reviewed for suitability. A copy of the WIF is provided in Annex 1.

In accordance with the Landfill Directive, the waste types in Table 1 are inert and therefore acceptable at a landfill for inert waste without testing, if:

- They are single stream waste of a single waste type (although different waste types from the list may be accepted together if they are from a single source);
- Basic characterisation information has been provided by the waste producer and documented on the WIF provided in Annex 1, to include:
 - source of waste;
 - origin of waste including site history (greenfield / brownfield); and
 - a detailed description of the waste including EWC code, the process which produced the waste, any odour, and any pre-treatment methods that have been applied to the waste
- There is no suspicion of contamination and they do not contain other material or substances such as metals, asbestos¹, plastics, chemicals, etc to an extent which increases the risk associated with the waste sufficiently to justify their disposal in other classes of landfill.

In the case of suspicion of contamination (either from visual inspection or from knowledge of the origin of the waste) the waste must be subject to WAC testing by the waste producer or refused acceptance at a landfill for inert waste. The test method shall be L:S 10:1 ratio leaching test. All samples should be subject to analysis for the full WAC suite in Annex 2.

¹ Asbestos concentrations should be below the standard laboratory detection limit of <0.001 %.

EWC code 19 02 06 in Table 2 will be subject to WAC testing to prove that it passes inert WAC and a WM3 assessment to prove that it is non-hazardous prior to being accepted for landfilled on site.

The results of WAC testing will be compared to inert WAC which is reproduced in Annex 2. Any waste having any quality or containing any chemical or compound falling outside the WAC as detailed above will not be accepted for disposal at the site.

The laboratory results for the WM3 suite will be assessed according to WM3. The Operator uses Hazwasteonline™ to conduct the WM3 assessments. All the relevant information is input to the website and a waste classification report is produced which classifies the wastes as non-hazardous or hazardous. Any wastes classified as hazardous according to the WM3 assessment will not be accepted for disposal at the site.

Level 2: Compliance Testing of Wastes

Where testing is not required for waste characterisation, it is not required to carry out compliance testing.

For regularly generated waste streams that require testing, compliance testing shall be carried out by the Operator at least once per quarter.

Records of the compliance testing shall be retained by the operator for a period of not less than two years.

Results of compliance testing shall be appended to the basic characterisation information and filed by the Site Manager or designated staff. All analysis shall be carried out by competent accredited laboratories.

Level 3: On -Site Verification of Wastes

The drivers of all vehicles delivering waste to the site must report to the weighbridge to disclose the nature of the waste and complete the relevant documentation. In the event of unknown carriers arriving at the site, they will be refused entry.

The weighbridge operator will ensure that a fully completed Waste Transfer Note is received for every load (unless part of a multiple consignment), and includes the appropriate EWC Code. The weighbridge operator will ensure that a signed WIF has been received confirming that the waste is acceptable.

For each load of waste the delivery driver will be issued with a receipt, in the form of a weighbridge ticket.

Wastes will be inspected at the weighbridge and/or at the tipping face, wastes will be compared to the written description of the waste that accompanies the load.

The waste may only be accepted at the Site, if it is the same as that which has been subjected to basic characterisation and which is described in the accompanying documents. If this is not the case, the waste must not be accepted. If there is any evidence of visual or olfactory contamination then the wastes will not be accepted and a waste rejection form completed.

A copy of the waste rejection form is provided in Annex 1.

Annex 1 Forms



Waste Information Form

Company Name		WIF Number:	
Site Address		Email Address:	
		Tel no:	
		Date:	
Site History (Brownfield / Greenfield):			
Where the waste will be coming from:			
SIC Code:		Estimated start date:	
Proposed disposal site:			
Waste carriers licence:			
Your company's role in disposal of the waste:	Waste Producer	Broker	
	Carrier	Dealer	
Waste producers name:			
Waste producer contact No:			

EWC code		Quantity of Waste	
Type of waste	Inert	Non-Hazardous	
What process produced the waste			
Detailed description of the waste including any odours			
Describe any pre-treatment methods that has been applied to the waste			

Supporting Documents

Site Investigations	Yes/No	Borehole Logs	Yes/No
Site Plan	Yes/No	Soil Analysis - Dry Soils	Yes/No
Soil Analysis – WAC Tests	Yes/No	Soil Analysis - Asbestos	Yes/No

By signing below, I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulations 12 of the Waste (England and Wales) Regulations 2011

I confirm on behalf of the waste producer that the above and attached information is correct.

Name		Signed	
Position		Date	

This form to be completed for **each load** of waste rejected from Site.

Name of Site	Marston's Pit
Date and time waste delivered	
Name of company delivering load	
Vehicle Registration No.	
Waste Transfer Note No	
Address waste collected from	
Description of waste on ticket	
REASON LOAD REJECTED	
ACTION TAKEN BY SRC	Driver/waste carrier provided with a copy of this signed form, and advised to deliver the waste to a suitably permitted facility.
Waste Transfer Note No (if waste is being removed from quarantine area).	

Signed		Date	
Name		Position	

Annex 2 Inert Waste Acceptance Criteria

Criteria for granular waste acceptable at landfills (Transposed from Council Decision annex 2003/33/EC)

Parameter	Inert Waste Landfill
Parameters determined on the waste	
Total organic carbon (w/w %)	3
BTEX (mg/kg)	6
PCB's (7 congeners) (mg/kg)	1
Mineral oil C ¹⁰ -C ⁴⁰ (mg/kg)	500
PAH's (mg/kg)	100
Limit values (mg/kg) for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
As	0.5
Ba	20
Cd	0.04
Cr	0.5
Cu	2
Hg	0.01
Mo	0.5
Ni	0.4
Pb	0.5
Sb	0.06
Se	0.1
Zn	4
Chloride	800
Fluoride	10
Sulphate	1000 ¹
Total dissolved solids (TDS) ²	4000
Phenol index	1
Dissolved organic carbon at own pH or pH 7.5 – 8.0 ³	500 ⁴

1 If an inert waste does not meet the SO₄ L/S10 limit, alternative limit values of 1500 mg l⁻¹ SO₄ at C0 (initial eluate from the percolation test (prCEN/TS 14405:2003)) AND 6000 mg kg⁻¹ SO₄ at L/S10 (either from the percolation test or batch test BS EN 12457-3), can be used to demonstrate compliance with the acceptance criteria for inert wastes

2 The values for TDS can be used instead of the values for Cl and SO₄

3 DOC at pH 7.5-8.0 and L/S10 can be determined on eluate derived from a modified version of the pH dependence test, prCEN/TS 14429:2003, if the limit value at own pH (BS EN 12457 eluate) is not met.

4 In the case of soils, a higher TOC limit value may be permitted by the EA at an inert waste landfill, provided the DOC value of 500mg/kg is achieved at L/S 10 l/kg, either at the soils own pH or at a pH value between 7.5 and 8.0.

APPENDIX 5

Environmental Management System

Procedures Directory

1. IMPLEMENTATION

- 1.1. Environmental Training, Awareness and Competence
- 1.2. Register of Legislation

2. OPERATIONAL CONTROL

- 2.1. Fluids Handling Protocol
- 2.2. Traffic Management
- 2.3. Housekeeping, Litter, Pest and Vermin Control
- 2.4. Noise Control
- 2.5. Site Security
- 2.6. Environmental Accident, Incident and Complaints
- 2.7. Key Contacts
- 2.8. Mud and Debris
- 2.9. Odour
- 2.10. Maintenance

3. EMERGENCY PROVISIONS

- 3.1. Fire
- 3.2. Flood Management
- 3.3. Spill Response
- 3.4. Utility Failure

Forms

- A Environmental Training record
- B Environmental Training Checklist
- C Accident and Incident Record
- D Complaints Record
- E Maintenance Checklists

1. Implementation

1.1. ENVIRONMENTAL TRAINING, AWARENESS AND COMPETENCE

PURPOSE: To ensure that all employees are trained, developed and/or qualified to undertake their duties and fulfil their responsibilities safely, efficiently and effectively and with due regard to the environment. Induction training for new staff, ongoing workplace training and any other internal and external training, as deemed necessary, are included

Responsibility:	Site Manager
Record	Form A Environmental Training Record Form B Environmental Training Checklist

PROCEDURE:

Induction Training

1. All new employees, including those transferring from elsewhere in the Allen Newport Limited (ANL) company or returning to work after a break in employment, and temporary staff, shall receive induction training. The induction includes:
 - Introduction to ANL;
 - Introduction to the Site / department and its operations;
 - Quality, Environment and Health & Safety Policy/s and management systems;
 - The Employee's role as per the job description with particular consideration to;
 - any technical and operational responsibilities;
 - any quality, environmental and health & safety responsibilities; and
 - any specific requirements related to product or service provision.
2. The main hazards and control measures applicable to their place of work identified in accordance with the site specific risk assessment; and Emergency procedures.
3. The Environmental Training Record Form should be completed for the Employee and filed.
4. Induction training should take place in the first month of appointment to a role.

Ongoing Awareness and Competence Training

1. Training assessment needs to be carried out for all permanent staff when commencing a new role and thereafter at least annually. The review takes account of:
 - The skills and knowledge specified for the job;
 - Any specific operational or technical job responsibilities;
 - Any specific quality, health and safety and environmental job responsibilities; and
 - The employee's current level of competence/performance in respect of these areas. This will be recorded on the Training Checklist Form.
 2. Identified training is agreed, sourced, priced, scheduled and included in the budget wherever possible. Training can be sourced internally or externally.
 3. Refer to the Environmental Training Checklist to ensure all employees have received and continue to receive all the relevant training.
 4. After completion of any training the employees Environmental Training Record is updated. The completed course review form is retained along with any certificate issued.
-

Reference Documents/Notes

1. The Management of Health and Safety at Work Regulations 1999 require that the employers provide employees with adequate health and safety training both upon initial recruitment and when being assigned new duties or responsibilities, or when affected by changing methods of work or work equipment.

1.2. REGISTER OF LEGISLATION

PURPOSE: To ensure that all documents are updated in response to relevant and emerging legislation

Responsibility:	Site Manager
Record:	See Table Below

PROCEDURE:

Legislation/code of practice	Applies to process	Link to document	Person responsible for compliance
The Environmental Permitting (England and Wales) Regulations 2016, SI 1154	All	https://www.legislation.gov.uk/uksi/2016/1154/data.pdf	Technically Competent Manager
Groundwater Regulations 2009, SI 2902	All	http://www.legislation.gov.uk/uksi/2009/2902/part/2/made	Technically Competent Manager
Water Resources Act, 1991, As amended	All	http://www.legislation.gov.uk/ukpga/1991/57/part/II/chapter/I	Technically Competent Manager
Environmental Protection Act 1990	All	http://www.legislation.gov.uk/ukpga/1990/43/contents	Technically Competent Manager
Wildlife and Countryside Act 1981 As amended	All	http://www.legislation.gov.uk/uksi/2011/2015/contents/made	Technically Competent Manager
Air Quality Standards Regulations (Amendment) 2016	Dust Emissions	http://www.legislation.gov.uk/uksi/2016/1184/made	Technically Competent Manager
Environmental Protection (Duty of Care) (England) (Amendment), Regulations 2003	All	http://www.legislation.gov.uk/uksi/2003/63/contents/made	Technically Competent Manager
Control of Pollution (Oil Storage) (England) Regulations 2001, SI 2954	Oil Storage	http://www.legislation.gov.uk/uksi/2001/2954/contents/made	Technically Competent Manager

2. Operational Control

2.1. FLUIDS HANDLING PROTOCOL

PURPOSE: To ensure that all fuels and oils are stored, and used in a safe manner that minimises the risk of harm to human health or damage to the environment

Responsibility:	TCM/ site supervisor/ site operatives
Related procedures:	Procedure No. 2.10 Maintenance

PROCEDURE:

Bulk storage of fuels and oils, including waste oil

1. All fuels and oils in bulk shall be kept in bunded storage.
2. The walls and floor of storage bunds must be impervious to oil.
3. Delivery lines shall be overhead or, if underground, sleeved.
4. Delivery nozzles shall be stored inside the bund and locked when not in use.
5. Bund drain valves, where fitted, shall be designed so that they can only be removed by key or hand held tool, except when emptying the bund under controlled conditions.
6. All bulk storage tanks shall be appropriately labelled with contents and maximum storage capacity.
7. Spill kits and spill trays shall be provided close to hand.
8. Fill point drip trays should be:
 - clean, free from water and other debris before each use;
 - large enough to hold all the oil that could be lost when the fill point shut off valve has been closed and the delivery hose is disconnected;
 - able to be moved without risk of spilling the oil;
 - checked after each delivery and if necessary safely emptied before being put away; and
 - kept somewhere safe where they cannot collect rain water when not in use.

Filling of bulk storage tanks

1. A member of site staff must supervise all tank filling operations.
2. Storage tank levels must be checked to gauge spare capacity before starting filling operations.
3. Check delivery hoses and hose connections for leaks.
4. Report spillages and leaks and clean them up promptly, disposing of waste correctly according to the requirements of prevailing regulation(s).

Storage and handling of drums

1. All drums and containers used for the storage of fuels and oils, including waste oil, shall be appropriately labelled and kept in designated areas identified on a site plan. This will include temporary storage areas.
 2. All drums or containers will be kept in bunded storage or on bund trays. This will include temporary storage.
 3. Where drum taps are fitted these should be secure. The tap should be positioned over a bund tray to collect drips and spillage.
 4. No drum shall be stored in the open without a drum cap fitted.
 5. Drums shall be secured when moving them about the site.
 6. Report spillages and leaks and clean them up promptly.
 7. Spill kits shall be provided.
-

8. Drum storage areas shall be checked weekly for evidence of poor practice.

Refuelling operations

1. The person refuelling the vehicle must be present throughout the entire refuelling operation.
2. Check vehicle fuel tank level before starting refuelling operations to gauge how much fuel is required.
3. Check delivery hose from the pump / tank to the nozzle for leaks.
4. All delivery nozzles shall be fitted with an automatic cut-out to prevent over-filling.
5. Ensure delivery nozzle is held upright when moving between storage tank and vehicle.
6. Operatives should be prepared to react to any gas oil splashing out whilst re-fuelling.
7. Fuel delivery nozzles shall be locked or similarly disabled when not in use.
8. Report spillages and leaks and clean them up promptly.

Procedure for emptying bunded areas

1. Authority of site management is required before emptying a bund.
2. Details of bund emptying shall be recorded and maintained on site.
3. If the contents of the bund include floating oil, then all of the oil and water contained should be collected and disposed of through a licensed contractor.
4. The reason for bund contamination shall be investigated.

Fuel and oil spills

1. Any spillage that cannot be cleaned up promptly with available inert materials must be reported to the site manager who will co-ordinate the response and investigate the cause.
 2. Spills to ground shall be absorbed and prevented from spreading by using absorbent materials such as sand, fines, absorbent mats, paper or cloth.
 3. Halt the movement of fuel or oil towards a watercourse by creating a barrier in front of it by sand bagging, deployment of absorbent boom or use of 3mm or finer dust.
 4. If oil enters a watercourse, prevent it spreading by deploying an absorbent boom.
 5. If spilt oil or fuel leaves the Site, the Site manager must inform the EA (complete Form C: Accident, Incident Record).
 6. Contaminated materials from clean-up should be put in an appropriately labelled container and disposed of through a licensed contractor in line with regulatory requirements.
 7. A list of substances stored at the Site is presented overleaf.
-

List of Substances and Storage Facilities			
Material	Maximum Quantity	Type and size of storage	Type and size of Secondary Containment

2.2. TRAFFIC MANAGEMENT

PURPOSE: To provide for the safe and efficient flow of traffic

Responsibility:	TCM/Supervisor/Weighbridge Operator/All
Record	

PROCEDURE:

1. Notices and signs will be strategically placed and used to communicate the traffic flow throughout the Site. Temporary changes are communicated to drivers at the weighbridge.
 2. Traffic flow through the Site has been designed to provide the safest route and least likely to cause nuisance or impact the environment, where possible.
 3. Pedestrian routes are communicated to visitors upon arrival.
 4. Vehicle parking for the workforce and visitors are provided away from the work area.
 5. All vehicles must comply with site specific rules and speed limits. Standard road signs are used, where appropriate.
 6. One-way systems are employed, where possible, reducing risk, especially in storage areas.
 7. People who direct vehicle movements (signallers) will be trained and authorised to do so.
 8. Traffic management will be reviewed following any changes to site operations or neighbours in so far as to ensure the safe movement of traffic, which causes the least environmental impact and level of resource consumption.
-

2.3. HOUSEKEEPING, LITTER, PEST AND VERMIN CONTROL

PURPOSE: To ensure good housekeeping and control of litter, pest and vermin at all operations

Responsibility:	TCM/Supervisor/All Site Operatives/All Site Operatives Reporting to TCM
Record	Procedure No. 2.10 Maintenance

PROCEDURE:

Waste and Litter

1. Due to the nature of the wastes accepted at the Site, wind-blown litter and waste of the kind likely to attract vermin will not occur or is extremely unlikely to occur.
2. The Site and immediate surroundings are inspected regularly for the presence of litter and non-compliant wastes. Any litter or other non-compliant waste discovered is promptly removed.

Housekeeping

1. Where storage is necessary, wastes are stored in designated areas only. Stockpiles will be maintained in a tidy manner to mitigate against fugitive emissions.
2. Site security measures (e.g. gates, fencing) are checked regularly for faults and maintenance. Upon discovery of a fault, the site manager is notified immediately and preparations for repair are made. Temporary repairs must be made by the end of the day so that the site is not left unsecured.

Pest Control

1. The nature of the waste facility means that attraction of vermin due to waste is very low to negligible. If any evidence is found to suggest a pest control issue, an appropriate specialist contractor will be called in to remove or eradicate the problem.
-

2.4. NOISE CONTROL

PURPOSE: To ensure that noise emissions from operations are kept to an acceptable level

Responsibility:	Site Manager
Record	Procedure No. 2.6 Environmental Accident, Incident and Complaints procedure

PROCEDURE:

1. A comprehensive noise assessment (WBM, December 2023) was produced to support the permit variation application for the soils washing plant. It considers the potential risks of noise emissions from the Site causing nuisance to nearby receptors and concludes the risk to be acceptable.
 2. Noise mitigation measures are discussed in detail in the Noise Management Plan (PDE Consulting, January 2024).
-

2.5. SITE SECURITY

PURPOSE: The protection of equipment, facilities and particularly the personnel on sites and offices is an area of critical importance. This procedure defines a basic standard of security awareness and crime prevention strategy development

Responsibility:	Site Operatives/Site Manager/Weighbridge Operative/Weighbridge Supervisor/All
Record	Form C Accident / Incident Report Form

PROCEDURE:

1. The Site is accessed and secured by lockable gates. Outside operating hours, the site must be left secure with all gates locked.
 2. Site boundaries will be kept well maintained to prevent and discourage access by livestock or the public.
 3. The Site security will be checked weekly and strictly maintained with any breaches due to wear and tear or vandalism being made safe by the end of the working day and a full repair carried out within seven days of occurrence.
 4. The Site Office is manned during operational hours preventing unauthorised persons from entering.
 5. The Site Office is locked when not in use.
 6. When not in use and during out of work hours, keys to machines and vehicles are kept secure.
 7. A regular physical stock check of small portable tools, plant and radios is carried out.
 8. Following a break in, the Accident/Incident Report Form should be completed and the Accident Management Plan should be reassessed.
-

2.6. ENVIRONMENTAL ACCIDENT, INCIDENT AND COMPLAINTS

PURPOSE: To ensure that all environmental accidents, incidents and complaints are promptly reported and investigated

Responsibility:	Site Operatives/Site Operatives reporting to TCM/ Site Manager.
Record	Form C Accident/ Incident Record Form D Complaints Record

PROCEDURE:

Incidents and Accidents

1. Accidents and incidents are unplanned negative events. Included in the group definition are injuries, near misses, dangerous occurrences, spillages, complaints, material damage, pollution incidents and breach of site authorisations.
2. Any unsafe plant, equipment, substances, behaviour, working practices, procedure or situation that has the potential to cause accident, injury, damage or pollution is reported as soon as practicably possible.
3. On discovery of an accident or incident, the Site Manager must be informed.
4. Efforts should be made to reduce any impact of the accident or incident i.e. stop the substance being released and containing the spillage.
5. An Accident (and Incident) Report (Form C) will be completed and kept filed in the Site Office.
6. Following an accident/ incident a review of site procedures is undertaken to establish possible ways to prevent a similar accident from occurring.

Complaint

1. As soon as a complaint is received, inform the Site Manager.
 2. A Complaints Record shall be completed and as much detail as possible recorded.
 3. Measures should be taken to assess the issue and find possible mitigation methods.
 4. The record should be kept and if deemed necessary by the TCM, discussed with the Environment Agency on their next visit.
-

2.7. KEY CONTACTS

PURPOSE: To ensure that, in the event of an accident, the correct people/organisations are notified; see below list of Key Contacts

SITE DETAILS		
Location: Marston's Pit, Cavenham Road, Tuddenham, Bury St Edmunds, Suffolk,		
Postcode: IP28 6SE		
Site Access Grid Reference: TL 75264 70786		
SITE CONTACTS	Name	Contact No.(s)
Director:	Oliver Rees	01371 829491
Technically competent management:	John Hilton	01371 829491
EMERGENCY SERVICES		Contact No.(s)
Emergency:		999
Police:		999
Fire:		999
REGULATORS		Contact No.(s)
Health and Safety Executive (HSE); Incident Contact Centre:		0345 300 9923
Local Authority; Suffolk County Council:		0345 606 6067
Environment Agency (EA) (General Enquires		03708 506 506
EA (24 hour emergency hotline):		08708 506 506
Natural England head office		0300 060 3900
UTILITY / KEY SERVICES		Contact No.(s)
Water provider		
Sewerage undertaker:		
Gas supplier:		
Electricity supplier:		
Oil supplier:		
Fuel supplier:		
Chemical supplier:		
Oil spill contractor:		
Electrician:		
OTHER KEY CONTACTS	Name	Contact No.(s)
Head Office:	Crown Business Centre, Old Ipswich Road, Ardleigh, Colchester, CO7 7QR	
Adjacent landowners/ Neighbours:		
Planning/ Env Consultants	PDE Consulting Limited	01284 764085 / 01743 361918

2.8. MUD AND DEBRIS

PURPOSE: To control mud and debris around the site and on local access roads

Responsibility:	Site Operatives/Site Supervisor
Record	Procedure No. 2.10 Maintenance Procedure No. 2.6 Reporting and Investigation of Accident, incident and Complaint

PROCEDURE:

1. All wastes will be imported by road.
 2. All vehicles importing or exporting materials or wastes (including recycled aggregate and inert wastes) will be sheeted to prevent wind whipping from delivery loads.
 3. Periodic wash down of access and haul roads and other hardstanding areas will be undertaken to prevent the re-suspension of dust by the action of moving vehicles.
 4. Provision of a long access road which will greatly reduce the chances of mud being deposited on the public highway.
 5. The Site entrance and access road will be inspected daily to check whether it is clean and tidy. A road sweeper will be employed to sweep the Site entrance and the access road if the daily inspection indicates it is necessary.
 6. The Site entrance and access road shall be checked daily and any maintenance required will be arranged, including filling of pot holes and ruts, and the levelling of low areas.
 7. Any complaints of mud and debris will be handled in accordance with the Reporting and Investigation of Accident, Incident and Complaint Procedure.
-

2.9. ODOUR

PURPOSE: To control odours on Site

Responsibility:	Weighbridge Supervisor
Record	Procedure No. 2.3 Housekeeping, litter, pest and vermin control. Procedure No. 2.6 Reporting and Investigation of Accident, Incident and Complaint. Form D Complaints Record.

PROCEDURE:

1. The types of wastes to be stored, treated and disposed of on Site have a negligible potential to generate odours.
2. Should contravening waste arrive at the Site, it will be removed from the Site as soon as possible.
3. Good housekeeping methods are actively maintained on Site further reducing any risks of odour from the Site.
4. In the event of a complaint of odour being received the Reporting and Investigation of Accident, Incident and Complaint procedure should be followed.

2.10. MAINTENANCE

PURPOSE: To ensure that the Site is maintained in accordance with a structured and regular regime

Responsibility:	Site Manager
Record	Form E Maintenance Checklists

PROCEDURE:

1. Routine maintenance of your site is essential to reduce the risk of leaks, spills and other incidents.
2. Maintenance checks are to be carried out regularly on the Site.
3. The maintenance checklists will need to be completed when scheduled. New 'Daily Maintenance Checklists' need to be printed on a weekly basis, 'Weekly Maintenance Checklists' need to be printed on a monthly basis and 'Monthly Maintenance Checklists' and 'Annual Maintenance Checklist' to be printed on a yearly basis.
4. A record needs to be maintained of when the checks are due and tick off when they are done. This should be kept on file.
5. All checklists should be kept in chronological order in the Site Office and they should be made available for inspection upon request.

3. Emergency Provisions

3.1. FIRE

PURPOSE: To inform of action necessary in the event of a fire

Responsibility:	Site Manager/Weighbridge Supervisor/ Site Operative/ALL
Record	Procedure No. 2.7 Key Contacts Form C Accident/ Incident Record

PROCEDURE:

Fire detected in delivery vehicle

1. In the extremely unlikely event that wastes on delivery vehicles are smoking or burning, they will not be unloaded on to the Site.
2. If smoking or burning material is discovered during the unloading process, it will be smothered with inert material.
3. Once the material is no longer burning/ smouldering, it shall be reloaded back into a sheeted HGV for removal from Site.
4. The Environment Agency and the TCM must be informed of the incident as soon as reasonably possible and record the details of the incident in the Site Diary and complete the appropriate Accident / Incident Report Form. All instances will require full accident investigation and review of the site procedures.

Fire Detected in stockpile area / plant

1. If you detect or suspect a fire in or around the waste stockpile area inform the Site Manager immediately.
2. If you notice smoke or fire in your item of plant while operating, then move away from the operational area if possible, shut down the engine and switch off the ignition, vacate the vehicle and then contact the Site Manager.
3. All mobile plant will carry a fire extinguisher and will be inspected and maintained in accordance with the plant maintenance schedule to mitigate any potential fires.
4. If the fire is of a serious nature, contact the emergency services immediately. If trained and safe to do so, then tackle the fire with a portable fire extinguisher (available in all mobile plant).
5. The Environment Agency and TCM must be informed of the incident as soon as reasonably possible and record the details of the incident in the Site Diary and complete the appropriate Accident / Incident Report Form. All instances will require full accident investigation and revision of the Accident Management Plan.

Fire Detected in Offices

1. Upon discovery raise the alarm to others by shouting "Fire" and/or activating any fire alarm system installed. Inform other site staff using the site radio system.
 2. If the fire is of minor nature, attempt to extinguish it with the fire fighting equipment provided. Do not place yourself in danger.
 3. If you cannot control the fire or you are in any doubt, then contact the emergency services by dialling 999.
 4. Evacuate the area taking the visitors book.
 5. Assemble at the Emergency Assembly Point (Car Park) until the fire is extinguished and the appointed fire warden has issued further instructions.
-

6. Check that all persons are accounted for using the visitors' book. Any missing persons will be reported to the emergency services.
7. Position a member of staff at the Site entrance to stop all oncoming traffic and direct the emergency services to the scene.
8. The Environment Agency and the TCM must be informed of the incident as soon as reasonably possible and record the details of the incident in the Site Diary and complete the appropriate Accident / Incident Report Form. All instances will require full accident investigation and revision of the Accident Management Plan.

3.2. FLOOD MANAGEMENT

PURPOSE: To ensure sufficient management is in place to deal with flooding on Site

Responsibility:	Site Manager/ TCM
Record	Procedure No. 2.7 Key Contacts

PROCEDURE:

1. Permitted waste types are inert only, so any waste washed off Site will add to the volume of the local post-flood clean-up workload, rather than the hazard
2. Staff should regularly check the Environment Agency's Flood Warning Service.
3. Staff should be trained on flood safety procedures and run through flood warning systems and evacuation routes regularly.
4. Ensure that chemicals, oils and other substances under your responsibility are kept safe and do not have the potential to contaminate flood water.
5. Know the location of cut-off points for gas, electricity and water.
6. In the unlikely event of a flood contact Floodline, the local authority and insurance company.
7. In the event of a flood, move items in the Site Office (such as computers, staff files etc.) to a safer location and if possible – to an upper level of the office or Site.
8. The Environment Agency flood warning codes are presented overleaf.

Flood Warning Codes:

	Status
	Severe Flood Warning Severe flooding. Danger to life.
	Flood Warning Flooding is expected. Immediate action required
	Flood Alert Flooding is possible. Be prepared.
	Warning no longer in force Flood warnings and flood alerts that have been removed in the last 24 hours

3.3. SPILL RESPONSE

PURPOSE: To put in place procedures in the event of a chemical, fuel or oil spillage

Responsibility:	Site Manager/Operative/All
Record	Procedure No. 2.7 Key Contacts Form C Accident/ Incident Record Site Plan

PROCEDURE:

1. On discovery of a spillage inform the Site Manager immediately.
 2. Investigate where the spillage is coming from and try to prevent further spilling. Attempt to contain the spillage using sand, clay or other inert materials.
 3. Spill kits will be located in or next to the Site Office and should be used to clean up the leak.
 4. If it is a large spillage or has the potential to contaminate surface water or groundwater then contact the Environment Agency and provide them with information of the spillage. The incident should also be reported to the TCM.
 5. An Accident / Incident Report Form C should be completed and filed.
-

3.4. UTILITY FAILURE

PURPOSE: To put in place procedures in the event of a failure in utility services including electricity and water

Responsibility:	Site Manager/Weighbridge Supervisor
Record	Procedure No. 2.7 Key Contacts

PROCEDURE:

Electricity

1. In the event of a failure in electrical supply, the trip switches should be reset to try and remediate the problem.
2. If the problem remains, the TCM must be notified and they or a person delegated by them should phone the electricity suppliers' emergency number (see Key Contacts) to inform them.
3. Acceptance of waste on the Site can continue if deemed safe by the site manager. Depending on the availability of a back-up generator, waste may have to be booked in manually.

Water

1. In the event that there is a failure in water supply the Site Manager must be notified. Visual dust monitoring will be increased as dust suppression may not be possible.
 2. The water supplier may have to be contacted via their emergency number, see Key Contacts.
 3. Operations should be able to continue as normal; there may be an issue with municipal use of water and if the problem with supply continues the responsible person should arrange for alternative sources of water supply e.g. water tanks.
-

APPENDIX 6

Evidence of Technically Competent Management



WAMITAB

Waste Management Industry
Training and Advisory Board



Qualifications and
Curriculum Authority

National Vocational Qualification

Qualification Title:

Level 3 in Waste Management Operations - Inert Waste (Landfill 3INL)

Qualification Accreditation Number:

10026502

This Certificate is awarded to

John Hilton

Awarded: 23/01/2008

Serial No:15891/3INL/1

Authorised

Lawrence Strong
Director General, WAMITAB

Ray Burberry
Qualifications Manager, WAMITAB



Continuing Competence Certificate

This certificate confirms that

John Hilton

Has met the relevant requirements of the Continuing Competence scheme for the following award(s) which will remain current for two years from 24/01/2023

LIN	Landfill - Inert Waste
TMNH	Treatment - Non Hazardous Waste

Expiry Date:
24/01/2025

Verification date: 12/01/2023

Authorised:



Professional Services Director

Learner ID: 15891

Certificate No.: 5215672

Date of Issue: 24/01/2023



CIWM Chief Executive Officer



The Chartered Institution
of Wastes Management



APPENDIX 7

Dust Environmental Management Plan



DUST EMISSIONS MANAGEMENT PLAN (EPR/ZP3497EW)

**for the Waste Treatment and Inert Landfilling Operations
undertaken at**

**Marston's Pit , Cavenham Road, Tuddenham, Bury St.
Edmunds, Suffolk, IP28 6SE**

Report prepared on behalf of:
Allen Newport Limited

Report Date:
January 2024

This Dust Emissions Management Plan was prepared by PDE
Consulting Limited on behalf of Allen Newport Limited

Dust Emissions Management Plan – Version Log

Version No.	Version date	Description
Original	August 2020	Original Dust Management Plan (DMP) produced in support of a permit variation application to add an inert landfill activity.
V2	January 2022	Amended to address minor queries from the EA during determination of the permit.
V3	January 2024	Updated to include the operation of a soils washing plant.

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DRAWINGS

Drawing No. KD.CAV.067	Permit Boundary Plan	Scale 1:10,000@A3
Drawing No KD.CAV.4.D.003	Proposed Site Layout	Scale 1:1,000 @ A3
Drawing No KD.CAV.4.D.004	Proposed Elevations	Scale varies @ A3
Drawing No KD.CAV.044	Phase 3 – Working & Restoration	Scale 1:10,000 @ A3

APPENDICES

Appendix 1	Accident / Incident Report Form
Appendix 2	Dust Complaint Form

1. INTRODUCTION

Scope

- 1.1 This Dust Emissions Management Plan (DEMP) has been prepared by PDE Consulting Limited (the 'Agent') on behalf of Allen Newport Limited (the 'Operator') for the operation of the waste treatment and inert landfilling operations undertaken at Marston's Pit, Cavenham Road, Tuddenham, Bury St. Edmunds, Suffolk, IP28 6SE (the 'Site').
- 1.2 Marston's Pit is an active sand and gravel quarry located approximately 1 kilometre (km) to the east of the village of Tuddenham and 12 km to the northwest of Bury St Edmunds in Suffolk. The Site is centred at National Grid Reference (NGR) TL 76190 72020 and covers an area of some 51.30 hectares (Ha).
- 1.3 Environmental permit No EPR/ZP3497EW/V004 issued on 27 January 2022 authorises a tier 2 mining waste operation with an integrated water discharge activity, an inert landfill facility and a physical treatment facility. An application is being made to add a soils washing plant and to add new waste codes for landfilling and waste treatment.
- 1.4 The proposed permit boundary can be seen on Drawing no. KD.CAV.067.
- 1.5 The Site is local in a rural setting and is bound by plantations and farmland. To the north of the Site is a former mineral working which has been restored to a lake feature to promote biodiversity. The majority of the Site is located within the Breckland Farmland Site of Special Interest (SSSI) and the Breckland Special Protection Area (SPA).
- 1.6 The closest residential receptor to the Site has been identified as Mill Farm House, which is located approximately 175m to the east of the proposed permit boundary.
- 1.7 The Site is not located within a current or proposed Air Quality Management Area (AQMA). The nearest AQMA to the Site is in Newmarket, some 13 km to the south west. The Newmarket AQMA was originally declared for nitrogen dioxide (NO₂) in 06 April 2009.
- 1.8 This report has been completed in accordance with the following EA guidance:
 - <https://www.gov.uk/guidance/control-and-monitor-emissions-for-your-environmental-permit>;
 - Technical guidance note M17 Monitoring Particulate Matter in Ambient Air around Waste Facilities (Version 2); and
 - Example Dust & Particulate Emissions Management Plan (version 10).

Implementing the DMP

- 1.9 The Site Manager, reporting to the technically competent manager (TCM), will ensure that the procedures in this DMP are adhered to.
- 1.10 The Site Manager will have the authority to modify or stop operations to reduce emissions on a temporary or permanent basis until the risk of emissions has subsided.

- 1.11 The Site Foreman will ensure that all members of staff are aware of the dust management procedures.
- 1.12 Staff at all levels will receive the necessary training and instruction in their duties relating to the control of all operations and the potential sources of dust emissions.
- 1.13 This document will form part of the Site specific Environmental Management System (EMS) for the waste operation. A copy of the EMS will be kept on Site in the Site office.

Review of the DMP

- 1.14 This DMP will be reviewed as follows:
 - When changes are made to your site, operations or equipment that affect the activities covered by your permit;
 - Whenever an application is made to change ('vary') the permit;
 - After any accident, complaint or breach of your permit; and
 - If a new environmental problem or issue is encountered, and you have implemented new measures to control it.
- 1.15 Any revisions or changes will be logged in a revision history table at the beginning of the document.

2. OPERATIONS

- 2.1 A discharge consent was originally issued to the Operator on 20 February 1993. It was varied on 06 September 2011 to add a Tier 2 inert mining waste operation. Extractive wastes are identified as silt from the processing of sand and gravel only. The permit was varied again on 21 December 2017 (EPR/ZP3497EW/V003) to move the consented discharge point and to extend the boundary of the mining waste activity.
- 2.2 On 27 January 2022 the permit was varied (EPR/ZP3497EW/V004) to increase the permitted area and add a landfill activity. It is proposed that the operations to create the concept restoration landform will take place over a period of approximately twenty eight years and over five phases.
- 2.3 A recycling operation which was previously operated under a separate permit was also added to the consolidated permit. Currently recycling operations are limited to the physical treatment of wastes including manual and mechanical sorting/separation, screening and crushing.
- 2.4 Annual waste inputs are limited to 200,000 tonnes for disposal and 200,000 tonnes for treatment. There are no proposed changes to annual throughputs.

Proposed Development

- 2.5 Proposed waste activities include the addition of a soils washing plant to the treatment activity and to add new waste codes for landfilling and waste treatment. The location of the proposed new soils washing plant is shown on Drawing No. KD.CAV.4.D.003. The footprint and elevations of the proposed new soils washing plant are shown on Drawing No. KD.CAV.4.D.004. The new soils washing plant will be located on a concrete pad.
- 2.6 The wastes to be treated on Site will have a natural moisture content and therefore have a negligible potential to create dust when handled. The washing of waste is by nature a wet process, which will limit the potential for dust emissions associated with Site activities.
- 2.7 Annual waste inputs are limited to 200,000 tonnes for disposal and 200,000 tonnes for treatment. There are no proposed changes to annual throughputs.
- 2.8 In accordance with the requirements of planning permission SCC/0064/20F, no waste operations shall be carried out outside the following times, other than with the prior written permission of the Mineral Planning Authority (MPA):
- 07.00 to 18:00 hours Monday to Friday; and
 - 07.00 to 13.00 hours Saturdays.
 - No operations will be carried out on Sundays or National Public Holidays.
- 2.9 Identified sources for fugitive dust emissions from the Site should no mitigation measures be implemented are:
- Vehicles entering and/ or leaving the Site with mud on wheels, and tracking dust on to or off the Site;
 - Vehicles and plant moving around the Site kicking up dust;
 - Movement of waste materials around the Site;
 - Road vehicles tipping waste;

- Physical treatment of waste by washing, including wastes dropping from conveyors into stockpiles;
- Wind whipping from stockpiled waste;
- All Site surfaces; and
- Particulate emissions from the exhaust of vehicles/ plant/ machinery on-Site.

2.10 Table 1 and 2 list the waste types for waste treatment and landfill in accordance with environmental permit number EPRZP3497EW. Waste types that are proposed to be added to the permit are highlighted red.

Table 1: Waste Types for Waste Treatment

EWC Code	Description	Restrictions
01 04 Wastes from physical and chemical processing of non-metalliferous minerals		
01 04 08	Waste gravel and crushed rocks other than those mentioned in 01 04 07	
01 04 09	Waste sand and clays	
02 02 Waste from preparation and processing of meat, fish and other foods of animal origin		
02 02 02	Shellfish shells from which the soft tissue or flesh has been removed only	
10 01 Waste from power stations and other combustion plant		
10 01 02	Coal fly ash	
10 11 Wastes from manufacture of glass and glass products		
10 11 12	Waste glass other than those mentioned in 10 11 11	
10 12 Wastes from manufacture of ceramic goods, bricks, tiles and construction products		
10 12 08	Waste ceramics, bricks, tiles and construction products(after thermal processing)	
10 13 Wastes from manufacture of cement, lime and plaster products and articles and products made from them		
10 13 14	Waste concrete and concrete sludge	
15 01 Packaging (including separately collected municipal packaging waste)		
15 01 07	Glass packaging	
17 01 Concrete, bricks, tiles and ceramics		
17 01 01	Concrete	
17 01 02	Bricks	
17 01 03	Tiles and ceramics	
17 01 07	Mixtures of concrete, bricks, tiles and ceramics	
17 02 Wood, glass and plastic		
17 02 02	Glass	
17 03 Bituminous mixtures, coal tar and tarred products		
17 03 02	Bituminous mixtures other than those mentioned in 17 03 02	
17 05 Soil (including excavated soil from contaminated sites), stones and dredging spoil		
17 05 04	Soil and stones other than those mentioned in 17 05 03	

17 05 08	Track ballast other than those mentioned in 17 05 07	
17 09 Other construction and demolition wastes		
17 09 04	Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03.	
19 01 Wastes from incineration or pyrolysis of waste		
19 01 12	Bottom ash and slag other than those mentioned in 19 01 11.	
19 08 Wastes from waste water treatment plants not otherwise specified		
19 08 02	Waste from desanding	
19 12 Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising).		
19 12 05	Glass	
19 12 09	Minerals (for example sand, stones)	
19 12 12	Other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	Waste aggregate generated from the recycling of metals Treated bottom ash including IBA and slag other than that containing dangerous substances only
20 01 Separately collected fractions		
20 01 02	Glass	
20 02 Garden and park wastes (including cemetery waste)		
20 02 02	Soil and stones	

Table 2: Waste Types for Landfill Activity

EWC Code Description		
10 11 Wastes from manufacture of glass and glass products		
10 11 03	Waste glass-based fibrous materials	
15 01 Packaging (including separately collected municipal packaging waste)		
15 01 07	Glass packaging	
17 01 Concrete, bricks, tiles and ceramics		
17 01 01	Concrete	
17 01 02	Bricks	
17 01 03	Tiles and ceramics	
17 01 07	Mixtures of concrete, bricks, tiles and ceramics	
17 02 Wood, glass and plastic		
17 02 02	Glass	
17 05 Soil (including excavated soil from contaminated sites), stones and dredging spoil		
17 05 04	Soil and stones other than those mentioned in 17 05 03	

19 02 Wastes are from the physico or chemical treatments of waste including dechromatation, decyanidation, neutralisation.	
19 02 06	Sludges from physico/chemical treatment other than those mentioned in 19 02 05; restricted to naturally occurring sand, silt and/or gravel including fines derived from soil washing.
19 12 Wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising).	
19 12 05	Glass
20 01 Separately collected fractions	
20 01 02	Glass
20 02 Garden and park wastes (including cemetery waste)	
20 02 02	Soil and stones

Meteorology

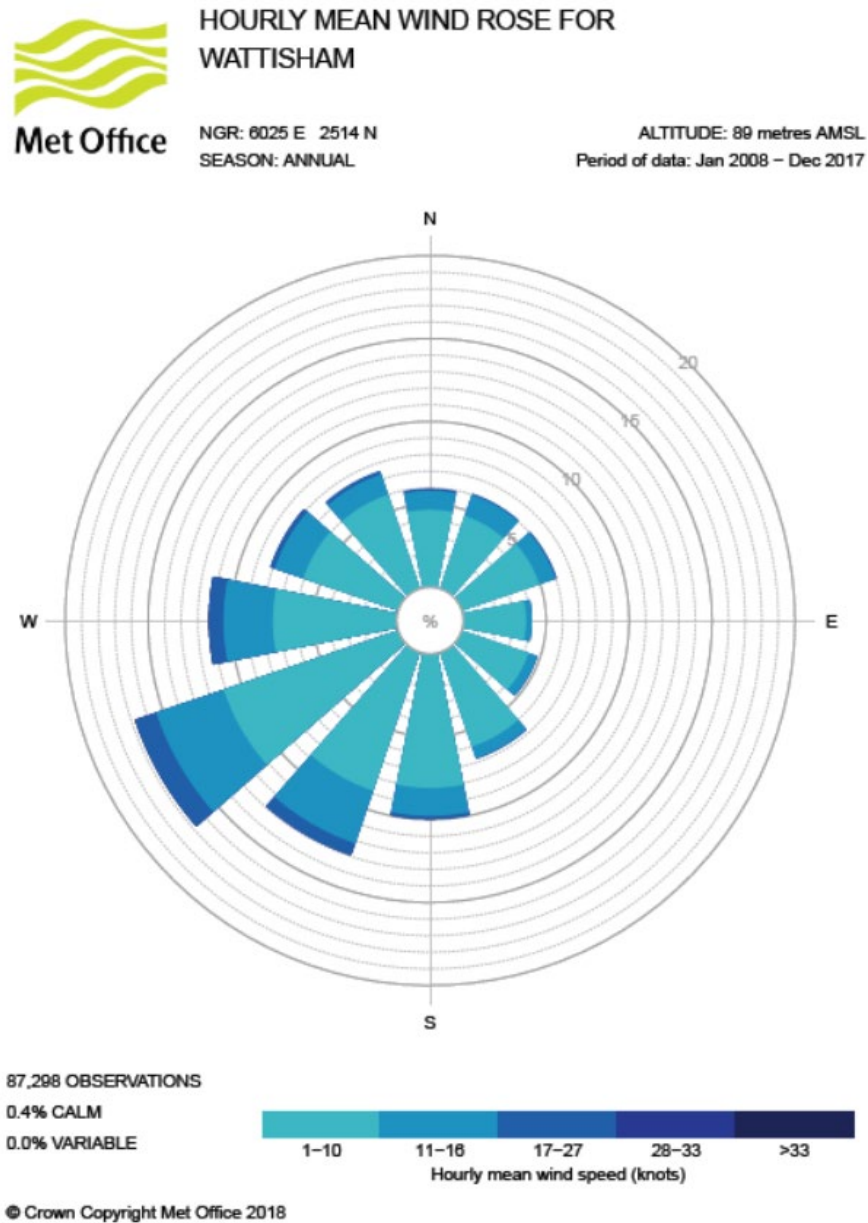
- 2.11 Unlike many other atmospheric pollutants, the generation of fugitive dust is particularly dependent upon weather conditions and the nature of the operations.
- 2.12 The prevailing meteorological conditions at any site will be dependent upon many factors, including its location in relation to macroclimatic conditions as well as more Site specific, microclimatic conditions.
- 2.13 The most important climatic parameters governing the release and dispersal of emissions are:
- **Wind direction** determines the broad transport of the emission and the sector of the compass into which the emission is dispersed; and
 - **Wind speed** will affect the ground level emission by increasing the initial dilution of pollutants in the emission. It will also affect the potential for entrainment of dust.

Local Wind Speeds and Directions

- 2.14 Wind speed and direction data have been obtained from the Wattisham observing station for the period 2004 to 2017. Wattisham observing station is located approximately 29 km south east of the Site and has the facility to calculate both wind speed and wind direction.
- 2.15 Wind speed and direction data from this observing station are appropriate for characterisation of the wind climate at the Site and are presented as a wind rose in Figure 1.
- 2.16 According to the Beaufort wind force scale¹, winds exceeding 13mph (classified as moderate breeze) are taken to be capable of entraining dust from surfaces. Wind speeds exceeding 13mph occur 32% of the time. Winds from the west south-west are most prevalent, blowing 17% of the time, with winds exceeding 13mph for 7% of that time.

¹ <https://www.rmets.org/resource/beaufort-scale>

Figure 1: Hourly Mean Wind Rose, Wattisham, Suffolk 2008 to 2017



3 POTENTIAL SENSITIVE RECEPTORS

- 3.1 According to the EA's DEMP template, sensitive receptors include, environmental habitat sites, hospitals, schools, protected species sites, childcare facilities, elderly housing and convalescent facilities.
- 3.2 The distance from the source to the receptor location plays an important role in the potential impact experienced as airborne dust, dust deposition rates; detection concentrations fall off rapidly with increasing distance from the source.
- 3.3 The very largest dust particles usually only travel 10m to 20m before being deposited and the vast majority of dust is deposited within 100m of the source.
- 3.4 Potentially sensitive receptors within 500m of the Site are presented in Table 2 below and shown on Figure 2.

Table 3: Sensitive Receptor Locations

Ref No.	Receptor	Description	Direction from permit boundary	Distance from permit boundary (m)
1	Breckland Farmland Site of Special Scientific Interest (SSSI)	Ecology/ agricultural land	All	0
2	Breckland Special Protection Area (SPA)	Ecology	All	0
3	Cavenham – Icklingham Heaths SSSI	Ecology	North west	0
4	Breckland Special Area of Conservation (SAC)	Ecology	North west	0
5	Black Ditches	Scheduled Monument	East	40
6	Mill Farm House	Residential / commercial	East	175
7	Un named road	Transport infrastructure	East	400
8	The Hassocks	Residential/ commercial	North east	350
9	River Lark	Watercourse	North	370
10	Cavenham Road	Road network	South	400

- 3.5 The Site is within the Breckland Farmland SSSI. The SSSI is notified for its internationally important population of the stone curlew *Burhinus oediconemus*. As a ground nesting bird, the stone curlew would be susceptible to excessive dust setting on its habitat, masking vegetation and its foraging habitat, however this receptor would only be sensitive to dust in large quantities and not to intermittent, fugitive dust, which if any, would be the maximum likely to be emitted from the Site.
- 3.6 The Site is also located in part of a wider SPA under EC Directive 79/409 on the Conservation of Wild Birds, namely the stone curlew *Burhinus oediconemus*, Nightjar *Caprimulgus europaeus* and woodlark *Lullula arborea*. These habitats are not considered at risk from the current or proposed operations.
- 3.7 All receptors in Table 3 have been deemed to be at low risk to nuisance dust from the Site.

Other Dust/Particulate Emitting Operators

- 3.8 No other potentially dusty operations have been identified within 500m of the Site.
- 3.9 It should also be noted that events such as construction works and harvesting, which are temporary, may from time to time generate elevated dust levels and soiling over short durations.
- 3.10 Due to the distance between sensitive receptors and the Site, together with employed mitigation, cumulative dust effects are not anticipated from the proposed waste operation. Best practice mitigation measures are included in Section 4 within this document and will be implemented at the Site.

1. Breckland Farmland SSSI

2. Breckland SPA

3. Icklingham Heaths SSSI

4. Breckland SAC

5. Black Ditches

6. Mill Farm House

7. Un named road

8. The Hassocks

9. River Lark

10. Cavenham Road

Permit Boundary

4 MITIGATION AND MONITORING

Mitigation Measures

4.1 Table 4 presents the source pathway receptor model for the Site.

Table 4: Source-Pathway-Receptor Routes

Source	Pathway	Receptor	Type of impact	Where relationship can be interrupted
Vehicles entering and/or leaving the Site with mud on wheels, and tracking dust on to or off the Site.	Tracking dust on wheels and vehicles, then mud dropping off wheels/vehicles when dry.	All receptors in Table 3.	Visual soiling, also consequent resuspension as airborne particulates	Remove mud before vehicles leave site. Long haul road ensures residual mud drops off before vehicle reaches public highway but there then is a need for a road sweeper to be on Site every day.
Vehicles and plant moving around the Site kicking up dust.	Tracking dust on wheels and vehicles, then mud dropping off wheels/vehicles when dry.	All receptors in Table 3.	Visual soiling, also consequent resuspension as airborne particulates	All lorries delivering wastes to the Site to be covered.
Road vehicles tipping waste.	Atmospheric dispersion	All receptors in Table 3.	Airborne particulates	Minimise source strength by means of low drop heights. Also wetting of certain materials if required.
All Site surfaces.	Atmospheric dispersion	All receptors in Table 3.	Airborne particulates	Wetting surfaces with a tractor and bowser.

4.2 As mentioned previously, soils washing is a wet process and is therefore very unlikely to cause any unacceptable impacts with regard to dust. Nonetheless Table 5 provides detailed mitigation measures to be employed at the Site. The proposed mitigation measures include preventative and remedial measures which will break the potential source-pathway-receptor linkages identified in Table 4 above.

Table 5: Summary of Mitigation Measures

Abatement Measure	Description / Effect	Use on Site
Hardstanding of unmade ground	Creating a hard surface as opposed to unmade (rocky or muddy) ground within the site and on site haul roads. This will reduce the amount of dust generated at ground level by vehicles and Site activities.	Provision of a long, surfaced access road greatly reduces the chances of mud being deposited on the public highway. The washing plant and silt press will sit upon an impermeable concrete pad. Periodic wash down of access and haul roads and other surfaced areas will prevent the re-suspension of dust by the action of moving vehicles. The Site surfacing will allow easy cleaning and prevent wind-whipping. There are regular inspections and maintenance of hard surfaces.
Sizing of operations (waste throughput, vehicle size, operational hours).	Optimising the amount of activity on site as well as associated traffic movements will result in reduced emissions and re-suspension of particulates from a site.	The operation has been sized appropriately, with particular regard to dust, noise and vehicle movements. Throughout the lifetime of the waste operation, the Site will be operated in accordance with planning and permit conditions.
Site / process layout in relation to receptors	Locating particulate emitting activities at a greater distance from receptors may reduce receptor exposure.	This has been incorporated at the design stage. A phased restoration of the Site is proposed which will reduce the potential area over which fugitive emissions may be released at any one time. Working plans have been designed to minimise double handling of material.
Sheeting of vehicles	Prevents the escape of debris, dust and particulates from vehicles as they travel.	All vehicles delivering wastes to the Site will be sheeted to prevent wind whipping from delivery loads.
Site speed limit and 'no idling' policy.	Reducing vehicle movements and idling will reduce emissions from vehicles. Enforcement of the speed limit will reduce re-suspension of particulates by vehicle wheels.	All vehicles will comply with Site specific speed limits.
Physical barriers including mitigation bunds.	Physical barrier between the Site and identified sensitive receptors	A 3m high screening bund is proposed along the eastern boundary of landfill Phase 1A and a bund sits on the western Site boundary of the proposed extension area (see Drawing No. KD.CAV.044). Mature trees and hedgerows bound the Site to the north and east. The plantation to the east, between the site and the nearest residential receptor, is at least 80m wide and will provide attenuation of dust.
All site vehicles will be maintained in accordance with the manufacturer's instructions	To ensure optimum operation conditions. Plant and vehicles will be regularly serviced and equipped with effective exhausts to minimise exhaust emissions.	All vehicles.

Standard good practices for Site haulage to be implemented.	Avoiding abrupt changes in direction and evenly loading vehicles to avoid spillages.	All vehicles.
Remedial Measures		
An adequate supply of water for spray equipment (bowser, hoses and/or mist sprays) is maintained to ensure that the rate of application would be sufficient for the purpose of dampening ground surfaces and dusty waste prior to tipping.	To minimise fugitive emissions on internal haul roads and access roads. To prevent the re-suspension of dust from un-paved areas, by the action of moving vehicles. To minimise fugitive emissions from deposited wastes.	In accordance with relevant guidance, surfaces will be dampened as required and without saturating, so as to prevent off Site dust emissions. The spray equipment is stored on Site to be employed as and when required by Site operatives.
On-Site sweeping	Sweeping is effective in managing larger debris and dust but may also cause the mobilisation of smaller particles.	To be undertaken as often as necessary during operational hours to prevent off Site emissions as part of general Site maintenance. There are regular inspections and maintenance of hard surfaces.
Good Site Management	Record all dust and air quality complaints, identify cause(s), take appropriate measures to reduce emissions in a timely manner, and record the measures taken.	All staff.
Staff training	Provide training to the site personnel on dust mitigation. Training should also cover 'emergency preparedness plans' to react quickly in case of any failure of the planned dust mitigation.	All staff.
Communication	Maintain good communication to help alleviate anxieties between the Operator and the surrounding communities.	All staff. A Site notice board will be maintained at the Site entrance and will include contact details (including out of hours) for any queries/ complaints.

- 4.3 Existing vegetation will be retained and will effectively block the pathway for dust emissions towards sensitive receptors. The primary method of remedial mitigation will be the application of water to wastes and surfaces.

- 4.4 The use of water sprays on haul roads has been documented as a very effective dust control measure, being able to reduce dust emissions by over 90% depending upon the degree of wetting and the frequency of application.

Mitigation Specific to Bund Construction and Removal

- 4.5 During bund construction, a number of Best Available Technique (BAT) practices will be in place as well as dampening to ensure that sensitive receptors are not adversely affected by particulate emissions, as follows:
- Stripped topsoil will be placed directly in the footprint of the bund to avoid double handling of material;
 - Source strength of emissions will be minimised by means of low drop heights and appropriate profiling, which has been designed with sensitivity of residential receptors in mind;
 - Once bunds are constructed, they will be seeded with a fast-growing native grass species mix to prevent wind whipping;
 - Daily checks for dust generation will be taken out at Site boundaries by the Operator; and
 - If dust is being generated by vehicle movements or material emplacement during bund construction and/ or removal, operations may be reduced or ceased to prevent off Site emissions.
- 4.6 It is also worth noting that construction and removal of the bund will be a short term activity, timed as such that works are not undertaken during winds exceeding 13 mph or during exceptionally dry periods.

Dust Monitoring

- 4.7 Visual inspections of the following will be undertaken by the Site Manager or his nominee during each working day as set out in Table 6.

Table 6: Dust Monitoring

Location	What are you looking for?	Actions
Site boundaries	Check for fugitive dust emissions across boundary.	See Dust Action Plan (DAP) below.
Site haul road	Check for wind whipping of surfaces, do they require damping down?	Use bowser to dampen down.
Public highway	Check it is clear of mud and debris, is action required?	Call road sweeper

Dust Action Plan

- 4.8 In the event that any visible dust or particulates emissions arising from the Site are observed leaving the Site boundary, the actions specified below will be implemented:
- The Site manager or his nominee will be informed immediately;
 - The source will be identified and damped down;

- If the source is a particular waste stream, consideration will be given to suspending acceptance of that waste until appropriate measures are in place to control the release of nuisance emissions from the waste; and
- If deemed necessary, the Site Manager will instruct the suspension of any operation causing visible dust emissions until such time as the situation has been resolved.

Following a Complaint

4.9 Following receipt of a complaint regarding dust, all dusty operations will be ceased, and the following actions taken:

- The complaint must be investigated fully and the source of the dust identified;
- Following identification of the dust source, suitable remediation measures will be employed as detailed above;
- Once the dust source has been identified and mitigated, operations can be resumed;
- If the identified source of dust is deemed to require more thorough investigation or remediation i.e. the source of the dust is not immediately apparent, then dusty operations will be suspended until such a time as it has been identified;
- A record of the complaint together with the remediation actions and a completed Incident Report form will be kept on Site.

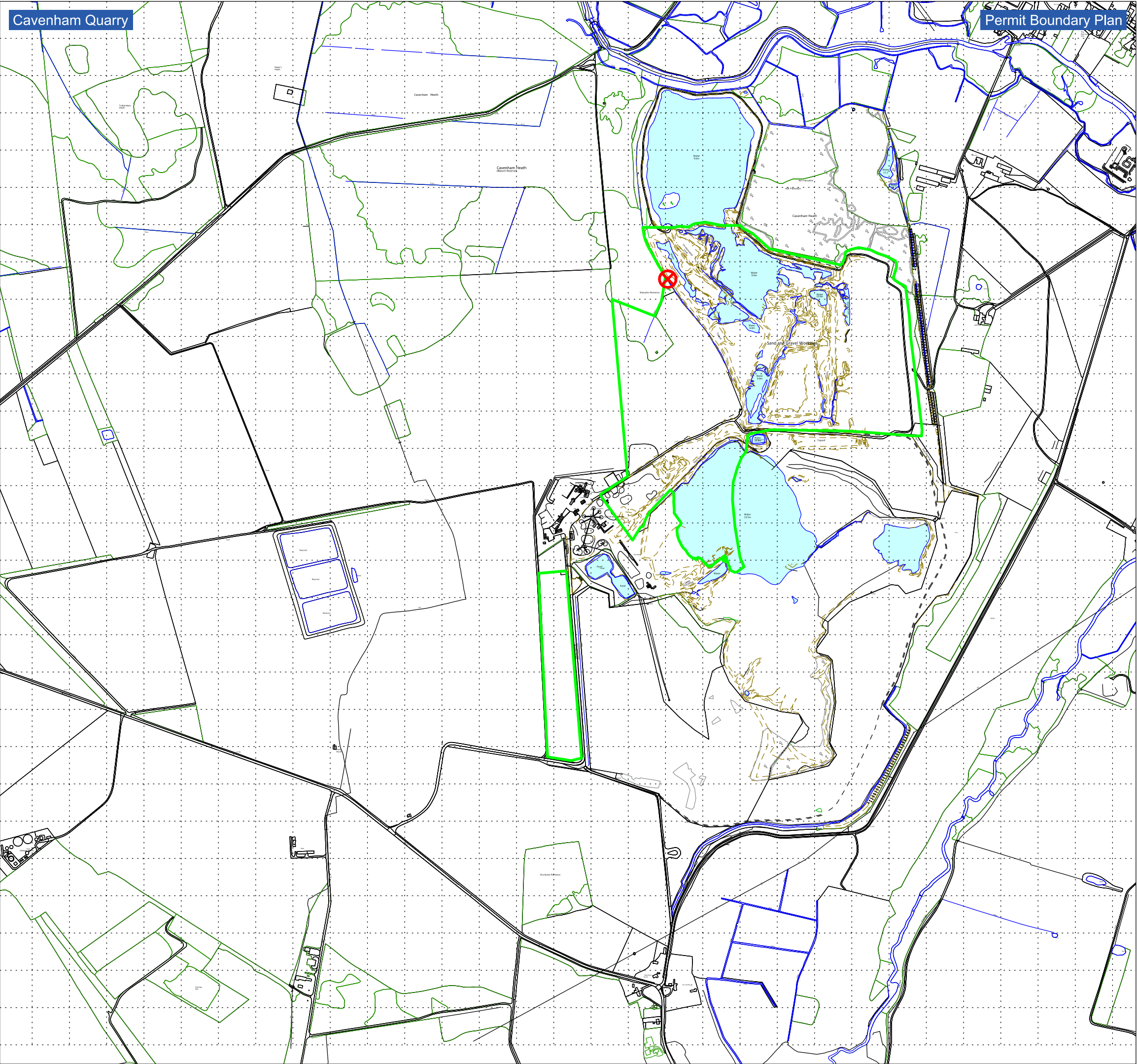
4.10 Reporting of incidents and complaints will be via the forms in Appendices 1 and 2.

DRAWINGS

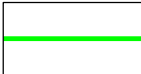
Permit Boundary Plan
Drawing No KD.CAV.4.D.003
Drawing No KD.CAV.4.D.004
Drawing No KD.CAV.044

Drawing No. KD.CAV.067
Proposed Site Layout
Proposed Elevations
Phase 3 – Working & Restoration

Scale 1:10,000 @A3
Scale 1:1,000 @ A3
Scale varies @ A3
Scale 1:10,000 @ A3



Legend

-  Permit Boundary
-  Discharge Point



PROJECT
Cavenham Quarry

DRAWING TITLE
Permit Boundary Plan

DATE
December 2023

SCALE
1:10,000 @ A3

DRAWING No.
KD.CAV.067 v3

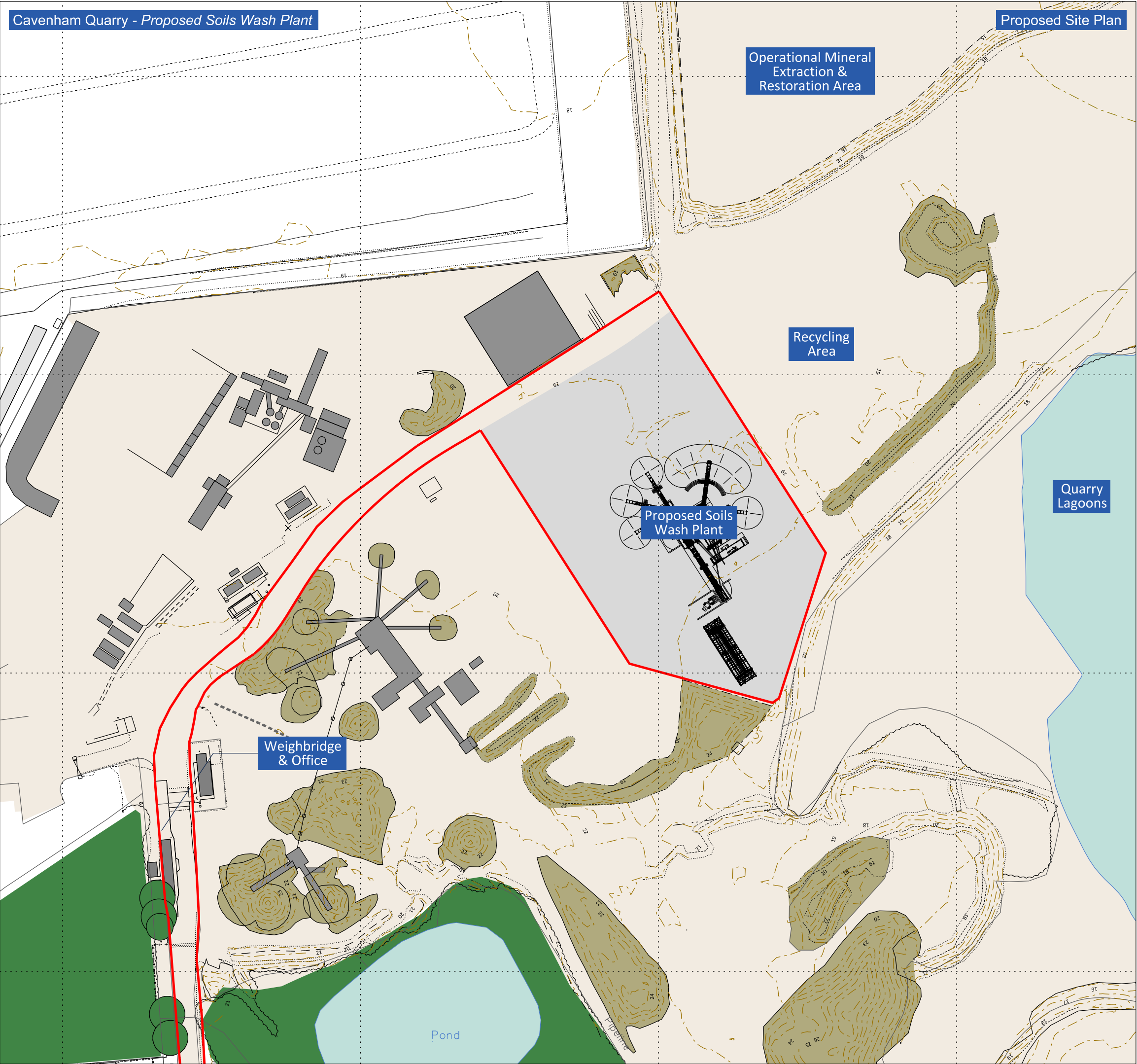
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Legend

- Application Boundary
- Buildings, Roads & Tracks
- Vegetation Structure
- Water Bodies & Courses
- Existing Hardstanding
- Proposed Area of Concrete
- Stockpiles
- Contours / Spot Heights (1m Intervals - mAOD)

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chartered surveyors

PROJECT
Cavenham Quarry - Proposed Soils Wash Plant

DRAWING TITLE
Proposed Site Plan

DATE
December 2023

SCALE
1:1,000 @ A3

DRAWING No.
KD.CAV.4.D.003

DRAWING STATUS
FINAL

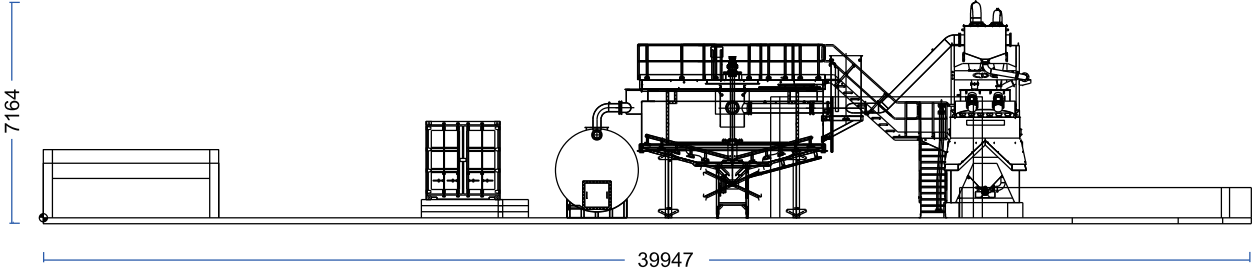


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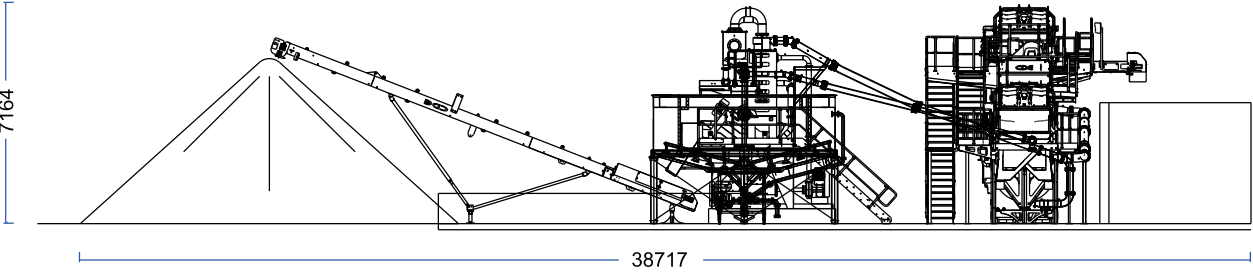
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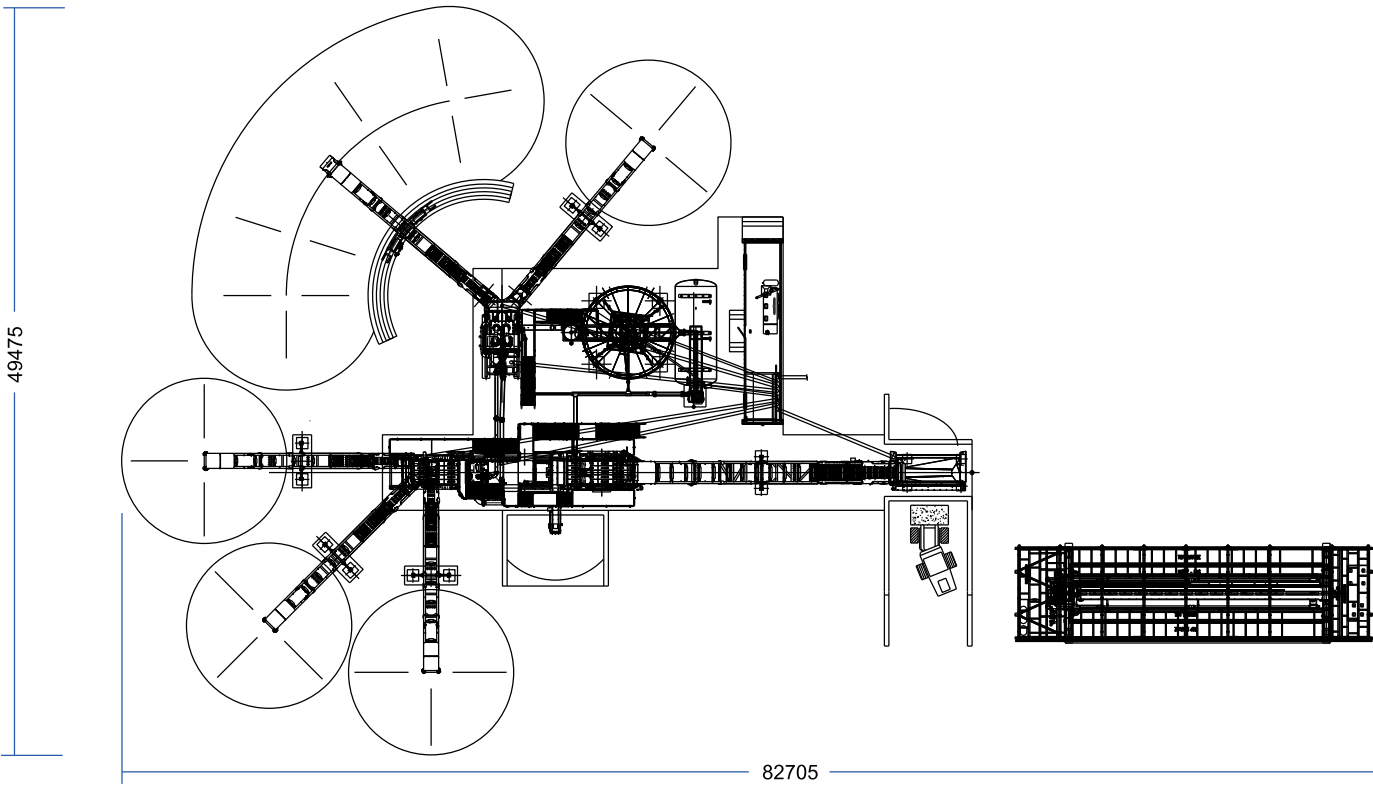
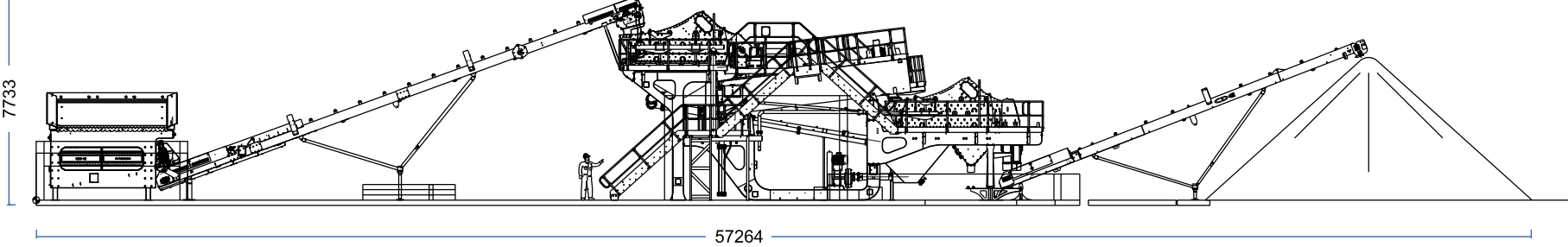
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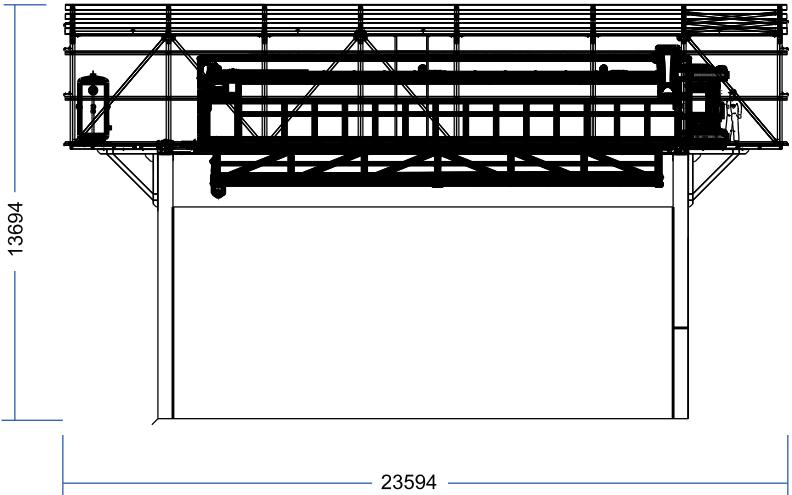
ELEVATION B (1:250@A3)



ELEVATION C (1:250@A3)



FOOTPRINT (1:500@A3)



ELEVATION D (1:500@A3)



PROJECT
Cavenham Quarry - Proposed Soils Wash Plant

DRAWING TITLE
Plant Elevations & Footprint

DATE
December 2023

SCALE
varies @ A3

DRAWING No.
KD.CAV.3.D.004

DRAWING STATUS
FINAL



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Cavenham Quarry

Operations:

Progressive placement of imported inert materials to continue within the currently consented extraction area to achieve final restoration formation levels.

Utilisation of stored soils for final restoration of land subject to placement of inert materials in the previous phase.

All restored land within the application boundary to be subject to a 5 year aftercare management regime.

Phase 3 - Working & Restoration

Minerals Audit: Estimated Figures

	OB Strip (m³)	As Dug Mineral (m³)	Silt / Wastage (m³) based upon 14%	Mineral Tonnage (m³ x 1.7 conversion factor)	No. of Years (based upon 160,000+ TPA)	Importation of Inert materials for Restoration (m³)
Current	-	-	-	-	9.2	861,667.00
Extension	-	-	-	-	-	-
TOTAL	-	-	-	-	9.2	861,667.00

	Application Boundary
	Land Under the Control of the Applicant
	Operational Land / Land Awaiting the Placement of Inert Restoration Materials
	Progressive Placement of Imported Inert Materials to Restoration Formation Levels combined with In-situ Soils / Fill Material
	Area to be Constructed Using Indigenous Materials - Overburdens / Soils and Silt
	Soil Storage / Screening Bund
	Base of Extraction Contours / Spot Heights (m aOD)
	Restoration Contours / Spot Heights (m aOD)

 Conservation Grassland



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DRAWING TITLE

Phase 3 - Working & Restoration

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Minerals Audit: Estimated Figures						
	OB Strip (m³)	As Dug Mineral (m³)	Silt / Wastage (m³) based upon 14%	Mineral Tonnage (m³ x 1.7 conversion factor)	No. of Years (based upon 160,000+ TPA)	Importation of Inert materials for Restoration (m³)
Current	-	-	-	-	9.2	861,667.00
Extension	-	-	-	-	-	-
TOTAL	-	-	-	-	9.2	861,667.00

APPENDIX 1

Accident / Incident Report Form

Accident (and Incident) Record

Record of accidents, other incidents or near misses

Date and time of the incident	
What happened, what was it about?	
Was anyone else aware of this – other witnesses? If so who?	
What caused it?	
What have you done to make sure that it does not happen again?	
Was there any significant pollution or environmental damage to land, water or protected areas – for example: dust, odour or noise pollution outside the site or spillage of polluting liquids onto the ground, or at a site of special scientific interest, or into a drain or a watercourse? If so what?	
If there was, then you must take steps to prevent further damage and notify the Environment Agency on 0800 807060 and any other relevant regulators ASAP . Have you done so? Yes / No	Who did you phone? At what time did you phone?
You must also write or send an email to confirm this to the local office (see your accident management plan for the address) Have you done so?	Yes/No What date did you contact?
Please print your name and sign	

Continue on a separate sheet if you do not have enough room.

Keep the completed form in the file to discuss with your auditors or regulators when they visit.

APPENDIX 2

Dust Complaint Form

DUST COMPLAINT FORM

Customer Details	
Customer Name	
Address	
Postcode	
Customer Contact Details	
Tel	
Email	
Date	
Complaint Ref Number	
Complaint Details	
Investigation Details	
Investigation carried out by	
Position	
Date & time investigation carried out	
Weather conditions	
Wind direction and speed	
Investigation findings	
Feedback given to Environment Agency and/or local authority	
Date feedback given	
Feedback given to public	
Date feedback given	
Review and Improve	
Improvements needed to prevent a reoccurrence	
Proposed date for completion of the improvements	
Actual date for completion	
If different insert reason for delay	
Does the dust management plan need to be updated	
Date that the dust management plan was updated	
Closure	
Site manager review date	
Site manager signature to confirm no further action required	

APPENDIX 8

Noise Impact Assessment

Ref **5375**

For **Allen Newport Limited**
c/o PDE Consulting Limited
The Alaska Building
Sitka Drive
Shrewsbury Business Park
Shrewsbury
SY2 6LG

Cavenham Quarry
Application for an Environment Agency Permit
for the Operation of a Soils Wash Plant
BS 4142 Noise Assessment

Date 18 December 2023

Authors Sarah Large & Dr Robert Storey

The Authors

Sarah Large MA (Cantab) MSc Dip (IoA) MIOA (Senior Consultant) obtained a degree in music from Cambridge University in 2007. She has worked in acoustic consultancy since 2009, completing the Institute of Acoustics Diploma in Acoustics and Noise Control in 2010 and a Master of Science degree in Environmental Acoustics from South Bank University in 2012. Sarah has extensive experience in environmental acoustics including noise modelling, noise monitoring and assessments. Sarah joined WBM in 2021 and is working on architectural and environmental acoustic projects including mineral sites.

Robert Storey BEng PhD MIOA (Senior Consultant) obtained his degree in Mining Engineering from the University of Leeds in 1993 before going on to complete a PhD in “The Acoustic Response of Structures to Blast Induced Ground Vibration” in 1998. He joined WBM in 2007 after working in acoustic consultancy and environmental health since 1999. Robert is involved mainly in environmental noise, working on mineral extraction, waste and industrial projects, including surveys, routine noise monitoring and assessments. He is experienced in noise modelling using SoundPLAN for transportation, industrial and environmental sources.

WBM

WBM (the trading name of Walker Beak Mason Limited) is an established independent acoustic consultancy specialising in architectural & building acoustics, environmental noise, planning issues and expert work. WBM is a member of the Association of Noise Consultants and is also a Corporate Member of the Institute of Environmental Management & Assessment. The consultants are members of the Institute of Acoustics.

This report has been prepared with all reasonable skill, care and diligence as appropriate for an acoustic consultancy practice under the terms and brief agreed with our Client. The document is the copyright of WBM and no third party may rely upon this document without the prior and express written agreement of WBM.

Document Control

Revision	Description	Date	Prepared by	Checked by
-	Draft	15/11/2023	S Large & R Storey	A Molyneux & S Walsh
1	Final	18/12/2023	S Large & R Storey	O Mann

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1 Introduction

Allen Newport Limited are submitting an application to the Environment Agency for a variation to their permit for their site at Cavenham in Suffolk to allow for the operation of a soils wash plant within the site.

This report sets out the calculated noise levels arising from the operation of the proposed facility, for use in a BS 4142:2014+A1:2019 assessment at the nearest dwellings to the site.

The calculated noise levels are compared with representative background sound levels at the nearest dwellings to the site. These have been determined from attended noise surveys undertaken by WBM in June, July and August 2023 (as well as an installed sound level meter on site).

This comparison of the calculated noise levels arising from the operation of the facility with the background sound levels established in June, July and August 2023 forms the basis for the BS 4142:2014+A1:2019 assessment method for the nearest dwellings to the site.

To aid comprehension, a glossary of acoustic terms is presented in Appendix A .

A site plan showing the site layout including the proposed location of the soils wash plant and other already permitted plant items are presented in Appendix B.

The survey locations used by WBM for the attended sample measurements in June, July and August 2023 are shown on a site plan in Appendix C. This plan also shows the location of the sound level meter that was installed to obtain more extensive baseline noise data.

The details of the noise surveys/installation conducted by WBM in June, July and August 2023 are provided in Appendix D and Appendix F with the full results of the sample measurements in Appendix E and a graphical presentation of the installed sound level meter data in Appendix G. Details and results of plant measurements of the same type of plant at another site conducted in May 2018 are presented in Appendix H.

The assumptions included in the creation of the SoundPLAN noise model for the calculations are detailed in Appendix I.

SoundPLAN noise calculation plots presenting the calculated noise levels from the total proposed operations on the site as well as the operation of the soils wash plant in isolation are presented in Appendix J.

The full breakdown of the BS 4142 assessment is included as Appendix K.

2 Environment Agency Permit and Requirements

Allen Newport Limited are submitting an application to the Environment Agency for a variation to their permit for their site at Cavenham in Suffolk to allow for the operation of a soils wash plant on the site.

For this application the Environment Agency require a Noise Impact Assessment (NIA) conducted in line with the requirements of BS4142: 2014 + A1:2019.

The information that must be submitted to the Environment Agency in a noise impact assessment that uses computer modelling or spreadsheet calculations is provided in GOV.UK Guidance “*Noise impact assessments involving calculations or modelling*” and “*Guidance – Noise and vibration management: environmental permits*”. The information requested in the document “*Noise impact assessments involving calculations or modelling*” is summarised in Appendix E.

The Environment Agency generally require the overall site noise and BS 4142:2014+A1:2019 Rating Level to be no more than 5 dB above the representative background sound level, although this is dependent on context. Additional guidance on the use of BS 4142:2014+A1:2019 when applying for a permit is provided in the Environment Agency “Method implementation document (MID) for BS 4142” dated 27 March 2023.

The methods outlined in BS 4142:2014+A1:2019 are appropriate for the noise assessment of the proposed operations including HGV movements within the site. The assessment does not cover noise from HGV movements outside the application/site boundary.

3 British Standard 4142: 2014+A1:2019

British Standard (BS) 4142:2014+A1:2019 "*Methods for rating and assessing industrial and commercial sound*" describes methods for assessing the likely effects of sound of an industrial and/or commercial nature on residential properties. It includes the assessment of sound from industrial and manufacturing processes, M&E plant and equipment, loading and unloading of goods and materials, and mobile plant/vehicles on the site. It can be used to assess sound from proposed, new, modified or additional industrial / commercial sources, at existing or new premises used for residential purposes.

The standard describes methods to measure and determine ambient, background and residual sound levels, and the rating levels of industrial / commercial sound.

BS 4142:2014+A1:2019 is not intended to be used for the derivation or assessment of internal sound levels, or for the assessment of non-industrial / commercial sources such as recreational activities, motorsport, music and entertainment, shooting grounds, construction and demolition, domestic animals, people, and public address systems for speech.

Ambient sound is defined in BS 4142: 2014+A1:2019 as "*totally encompassing sound in a given situation at a given time, usually composed of sound from many sources near and far*". It comprises the residual sound and the specific sound when present.

Residual sound is defined in BS 4142: 2014+A1:2019 as "*ambient sound remaining at the assessment location when the specific sound source is suppressed to such a degree that it does not contribute to the ambient sound*".

The background sound level is the $L_{A90,T}$ of the residual sound level, and is the underlying level of sound. Measurements of background sound level should be undertaken at the assessment location where possible or at a comparable location.

The measurement time interval should be sufficient to obtain a representative value (normally not less than 15 minutes) and the monitoring duration should reflect the range of background sound levels across the assessment period. The background sound level used for the assessment should be representative of the period being assessed.

The specific sound level is the L_{Aeq,T_r} of the sound source being assessed over the reference time interval, T_r . BS 4142:2014+A1:2019 advises that T_r should be 1 hour during the day and 15 minutes at night.

The rating level is the specific sound level plus any adjustment for the characteristics of the sound (tone, impulse, intermittent or other acoustic feature).

The standard describes subjective and objective methods to establish the appropriate adjustment. The adjustments for the different features and assessment methods are summarised in the table below.

Acoustic Feature	Adjustment for Acoustic Feature		
	Subjective Methods	Objective Methods	
Tonality	+2 dB if just perceptible	Third Octave Analysis	Narrow Band Analysis
	+4 dB if clearly perceptible +6 dB if highly perceptible	+6 dB if tones identified	Sliding scale of 0 to +6 dB depending on audibility of tone
Impulsivity	+3 dB if just perceptible +6 dB if clearly perceptible +9 dB if highly perceptible	Sliding scale of 0 to +9 dB depending on prominence of impulsive sound	
Intermittency	+ 3 dB if intermittency is readily distinctive	n/a	
Other	+ 3 dB if neither tonal nor impulsive, but otherwise readily distinctive	n/a	

Where tonal and impulsive characteristics are present in the specific sound within the same reference period then these two corrections can both be taken into account. If one feature is dominant, it might be appropriate to apply a single correction. The rating level is equal to the specific sound level if there are no features present.

The level of impact is assessed by comparing the rating level of the specific sound source with the background sound level. Other factors that may require consideration include the absolute level of sound, the character and level of the residual sound compared to the specific sound, and the sensitivity of the receptor and scope for mitigation.

When the rating level is above the background sound level, a difference of around +5 dB is likely to indicate an adverse impact and a difference of around +10 dB or more is likely to indicate a significant adverse impact, depending on the context.

The lower the rating level with respect to the background sound level, the less likely it is that the specific sound source will have an adverse impact. Where the rating level does not exceed the background sound level, this is an indication of the specific sound source having a low impact, depending on the context.

4 Description of Site and Noise Climate

The site is located to the north of Cavenham, east of Tuddenham St Mary, southwest of Icklingham and approximately ten kilometres to the north-west of Bury St Edmunds in Suffolk. The existing site entrance is from Cavenham Road, approximately midway between Cavenham and Tuddenham St Mary. Cavenham Heath National Nature Reserve is to the north west of the site.

This report sets out the findings of noise surveys conducted in June, July and August 2023 at off-site locations in the vicinity of dwellings nearest to Cavenham Quarry and the proposed soils wash plant.

The residential locations (1, 2, 3, 4 and 5) selected for the BS 4142:2014+A1:2019 assessment are:

Assessment Location and Corresponding Survey Location Reference			Grid Reference
1	Tuddenham House	A	E: 575966 N: 270391
2	Mill Farm House	B/B'	E: 576833 N: 272144
3	The Hassocks	B/B'	E: 576837 N: 272563
4	Dwellings near Heygates Mill	C	E: 577109 N: 272999
5	West Street	D	E: 576690 N: 273110

These locations were chosen for the purposes of this assessment as they are the closest residential properties to the site and were representative of where baseline noise measurements were undertaken by WBM in June, July and August 2023.

The survey and assessment locations used by WBM in June, July and August 2023 are shown on the site plan in Appendix C.

Apart from the dwellings described above, the surrounding area is primarily open grassland or farmland.

The noise climate in the area in June, July and August 2023 was affected by distant and local road traffic noise, aircraft movements (some associated with RAF Mildenhall), birds, local agricultural activity and plant associated with the mill at Icklingham.

The surveys were undertaken during periods in which the influence of the existing site operations (mineral extraction, processing and recycling operations) was minimised and therefore the presented background sound levels do not include any significant influence from site noise.

The site is a working quarry that includes mineral extraction (completed for currently permitted areas), processing, infilling and recycling. This application is for an Environment Agency permit variation to allow for use of the soils wash plant on the site.

Access to the site for the additional HGVs is to be gained using the existing access road off Cavenham Road with egress via the same point.

The currently permitted hours of operation, as set out in Condition 6 of the latest planning permission for the site granted by Suffolk County Council on 24 December 2020 (Application No: SCC\0064\20F), are:

“6. No operations authorised or required by this permission including servicing and plant maintenance shall be carried out except between the following times:

- a) Monday to Friday 0700-1800;*
- b) Saturday 0700-1300;*
- c) No working on Sundays and bank holidays.*

The above time restrictions shall not apply to water pumping and environmental monitoring.

This condition shall not apply in case of emergency with life, limb or property are in danger. The Minerals Planning Authority shall be notified in writing, as soon as possible after the occurrence of any such emergency.”

The operating hours of the site are not going to change and the soils wash plant operation would only take place within these hours.

For this reason with regard to BS 4142:2014+A1:2019, the assessment period is therefore 1 hour for daytime (07:00 to 23:00 hours).

This BS 4142:2014+A1:2019 assessment concentrates on the nearest residential properties to the site described above particularly those closest to the site, however the SoundPLAN noise maps include a visual representation of the calculated site noise levels across the area in the vicinity of the site including the ecological receptors.

A site layout plan showing the proposed location of the wash plant is provided in Appendix B. A wider plan showing the locations of the nearest dwellings and the WBM assessment and survey locations is presented in Appendix C.

5 Summary of Background Sound Level Data

WBM Noise Surveys (June, July & August 2023)

Manned baseline noise surveys were undertaken during the daytime on Saturday 24 June 2023, Friday 07 July 2023 and Tuesday 15 August 2023 at:

Location A: Tuddenham House;

Location B/B': Mill Farm House / The Hassocks;

Location C: Heygates Mill; and

Location D: West Street.

A data logging sound level meter was also installed on site for the period Saturday 24 June to Friday 07 July 2023 to obtain more extensive baseline noise data.

The details of these surveys are presented in Appendix D and Appendix F with the full results of the sample measurements in Appendix E and a graphical presentation of the installed sound level meter data in Appendix G.

During the manned daytime noise surveys in June, July and August 2023, the noise climate was affected by distant and local road traffic noise, aircraft movements (some associated with RAF Mildenhall military base), birds, local agricultural activity and plant associated with the mill at Icklingham.

The Cavenham site is a working quarry and as such baseline surveys were designed to minimise the influence of the existing works on measured background sound levels in the area.

The first survey on Saturday 24 June 2023 was arranged such that monitoring could be undertaken before and after the processing plant on site had stopped operating allowing

assessment of whether site noise was audible in the community and influencing background sound levels. However, the processing plant and site shut down early and all sample measurements were undertaken without the site operating.

It is also noted that as a result, the majority of the survey period coincides with times of the day that the site is not proposing to operate.

The second survey on Friday 07 July 2023 was arranged such that the measurements could be undertaken before and after the processing plant (and majority of site operations) had stopped operating. It was arranged with the site that operations would stop earlier than normal at 5pm. This comparison allowed an assessment of site audibility at community locations and whether there was any significant influence on background sound levels. The findings of the July survey indicated that the background sound levels at the sample monitoring locations were not influenced by site noise, which was generally inaudible at all locations.

The third survey on Tuesday 15 August 2023 was undertaken to gain additional background sound level data during periods when the site would normally be operating, with confidence that baseline sound levels would not be influenced by existing operations on site based on the findings of the July survey.

A sound level meter was also installed on site in a location to minimise influence from site operations and gain additional baseline sound level data outside of the site's operating hours. The measured sound levels from the period approximately 2 hours after the site ceases to operate (i.e. Monday to Friday 6-8pm and Saturday 1-3pm) have been used to supplement the assessment of typical baseline sound levels in the locality.

A summary of the average background $L_{A90,15 \text{ minute}}$ and ambient $L_{Aeq, 15 \text{ minute}}$ levels at each position, is presented in the following table.

Position	Average Background Level dB $L_{A90,15 \text{ minutes}}$	Average Residual Level dB $L_{Aeq, 15 \text{ minutes}}$
A	37	51
B/B'	38	50
C	49	62
D	38	51
Install	37	45

The average background sound levels measured at locations A, B/B', D and on site are very similar. At Location D, the sound environment was dominated by local road traffic noise and broadband plant noise from Heygates Mill at Icklingham.

The additional data gained from the installed sound level meter on site confirms that the background sound levels (L_{A90}) measured in the community (including during periods when the site was operating) are representative of periods when the site is not operating. The data is therefore suitable for use in this assessment as uninfluenced baseline.

Representative Ambient and Background Noise Levels:

The following table presents representative daytime ambient ($L_{Aeq,T}$) and background ($L_{A90,T}$) noise levels at the five residential assessment locations based on the data obtained by WBM in June, July and August 2023.

The presented levels are based on the average sound levels from the daytime baseline noise survey as representative of the permitted working hours proposed for the operation of the soils wash plant on the site.

Daytime (07:00 – 18:00)	Representative Residual Sound Level dB $L_{Aeq,T}$	Representative Background Sound Level dB $L_{A90,T}$
Location		
1. Tuddenham House	51	37
2. Mill Farm House	50	38
3. The Hassocks	50	38
4. Heygates Mill	62	49
5. West Street	51	38

6 Calculation of Site Noise Levels

Site noise calculations of the site operations including the use of the soils wash plant as part of the operations covered by the EA permit were undertaken using SoundPLAN noise mapping software.

A digital ground model (DGM) was created using local ground heights to cover the area including both the site and the nearest residential properties in the vicinity of the site.

The following scenarios were modelled:

- All site operations including soils wash plant daytime (07:00 to 18:00 hours); and
- Operation of the soils wash plant daytime (07:00 to 18:00 hours).

The calculations were undertaken as a worst case scenario with the operation of the wash plant and the associated loading shovel as taking place for 100% of the assessment period.

It is expected that there would normally be around 12 HGVs coming into the site during a typical hour, so HGV movements have been included as 12 one-way movements into and out of the site per hour.

There will be no additional HGV movements associated with the soils wash plant over those already permitted.

The calculations assume that the calculation area is on average 90% soft ground across the calculation area.

The calculations include the 3 metre high bund between the site and Mill Farm House that is due to be constructed before the infilling operations in that area commence shortly.

The sound power level data and assumptions used for the SoundPLAN noise model are presented in Appendix I.

The SoundPLAN daytime noise contour plot covering the assessment area relating to the site operations including the use of the soils wash plant are presented in Appendix J.

7 Comparison of Calculated Site Noise with Existing Noise Levels

For the BS 4142:2014+A1:2019 assessment, the four receiver locations representative of the nearest residential properties to the site have been used for site noise calculations. A plan showing the residential locations used for the noise surveys and assessment is included in Appendix C.

A comparison of the calculated daytime noise levels at the five selected residential assessment locations closest to the site with the representative daytime background and residual sound levels at those locations is as follows.

Receiver Location Daytime (07:00-18:00)	Calculated Site Noise Level dB L _{Aeq,1 hour}	Representative Background Sound Level dB L _{A90,15 min}	Average Residual Sound Level dB L _{Aeq,15 min}
1. Tuddenham House	36 (31)	37	51
2. Mill Farm House	45 (30)	38	50
3. The Hassocks	39 (26)	38	50
4. Dwellings near Heygates Mill	33 (24)	49	62
5. West Street, Icklingham	35 (25)	38	51

The calculated noise level for the soils wash plant operation in isolation is presented in brackets

An assessment has been undertaken in accordance with BS 4142:2014+A1:2019 “*Methods for Rating and assessing industrial and commercial sound*” for the nearest dwellings to the operation on the site as examined above.

8 BS 4142: 2014+A1:2019 Assessment

The information to be reported, as specified in Section 12 of BS 4142:2014+A1:2019, is set out in full in Appendix K (where relevant) and the findings are summarised on the following pages.

For the BS4142 assessment, when the rating level is above the background sound level, a difference of around +5 dB is likely to indicate an adverse impact and a difference of around +10 dB or more is likely to indicate a significant adverse impact, depending on the context.

The lower the rating level with respect to the background sound level, the less likely it is that the specific sound source will have an adverse impact. Where the rating level does not exceed the background sound level, this is an indication of the specific sound source having a low impact, depending on the context.

Considering the existing ambient and background sound environment in the area during the daytime and the level of the calculated site noise levels at the dwellings, one would not expect any acoustic features of the noise from the soils wash plant to be readily distinguishable at the dwellings and an acoustic feature correction would not be appropriate. In this assessment the Specific Sound Level used is therefore the same as the Rating Level for daytime operations.

Normal Daytime (07:00-18:00) Operations:

The overall (whole site) calculated daytime site noise levels are:

- 1 dB(A) below the representative daytime background sound levels at Tuddenham House;
- 7 dB(A) above the representative daytime background sound levels at Mill Farm House;
- 1 dB(A) above the representative daytime background sound levels at The Hassocks;
- 16 dB(A) below the representative daytime background sound levels at the dwellings near Heygates Mill; and
- 3 dB(A) below the representative daytime background sound levels at West Street, Icklingham.

The difference between the rating levels and the representative daytime background sound levels presented are below the level that indicates an adverse impact (depending on context) in BS4142: 2014 + A1: 2019 at four of the five residential locations considered.

At the remaining and closest location (Mill Farm House), the rating level is controlled by the ongoing permitted operations on site with the calculated sound level due to the soils wash plant operation being 8 dB (A) below the representative background sound level.

Inclusion in the calculations of the dense foliage between the site and Mill Farm House results in calculated whole site noise levels at the dwelling of 43 dB $L_{Aeq, 1 \text{ hour free field}}$, i.e. 5 dB(A) above the representative background sound level.

In context, it is therefore considered that the operation of the soils wash plant does not constitute an adverse impact at this location.

The overall (whole site) calculated daytime site noise levels are below the representative daytime residual sound levels by:

- 15 dB(A) at Tuddenham House;
- 5 dB(A) at Mill Farm House;
- 11 dB(A) at The Hassocks;
- 29 dB(A) at the dwellings near Heygates Mill; and
- 16 dB(A) at West Street, Icklingham.

The average baseline daytime residual levels at these locations were between 45 and 62 dB $L_{Aeq,T}$ in June, July and August 2023.

The daytime noise climate at these dwellings will continue to be controlled by distant and local road traffic noise, aircraft movements (some associated with RAF Mildenhall military base), birds, local agricultural activity and plant associated with the mill at Icklingham.

9 Cumulative Impact of Proposals

During the baseline noise surveys in June, July and August 2023, no other industrial/commercial activity apart from Heygates Mill was audible at the baseline survey locations.

This assessment already considers the overall site noise from the Cavenham Quarry site including infilling and plant site operations including the permitted recycling.

The mineral extraction operations have ceased in the currently permitted areas.

Should the proposed extension to the site be permitted in due course, those operations will be substantially further from the receiver locations considered than the infilling operations modelled. The overall site noise levels at the dwellings to the east of the site would therefore likely to be lower than those presented in this assessment as the infilling operations will have been completed by that stage.

The asphalt plant on the main site is outside the permit area and is operated by Breedon. This operation is expected to continue as currently permitted and the addition of the soils wash plant is not expected to impact on the overall noise levels in the area including that from the asphalt plant.

10 Summary and Conclusions

Allen Newport Limited are submitting an application to the Environment Agency for a permit variation for their site at Cavenham in Suffolk to allow for the operation of a soils wash plant within the site.

This report sets out the calculated noise levels arising from the operation of the proposed facility, for use in a BS 4142:2014+A1:2019 assessment at the nearest dwellings to the site.

The calculated noise levels are compared with representative background sound levels at the nearest dwellings to the site. These have been determined from attended noise surveys undertaken by WBM in June, July and August 2023.

This comparison of the calculated noise levels arising from the operation of the facility with the background sound levels established in June, July and August 2023 forms the basis for the BS 4142:2014+A1:2019 assessment method for the nearest dwellings to the site.

Tuddenham House:

The calculations demonstrate a rating level of 36 dB $L_{Ar,Tr}$ at Tuddenham House which is 1 dB(A) below the representative daytime background sound level of 37 dB $L_{A90,T}$ at that location. The representative daytime residual sound level at Tuddenham House is 51 dB $L_{Aeq,T}$.

The conclusion of the assessment for Tuddenham House is that the proposed operation of the soils wash plant (and associated plant items/HGV movements) has been demonstrated to be of no adverse impact at that location.

Mill Farm House:

The calculations demonstrate a rating level of 45 dB $L_{Ar,Tr}$ at Mill Farm House which is 7 dB(A) above the representative daytime background sound level of 38 dB $L_{A90,T}$ for that location. The representative daytime residual sound level at Mill Farm House is 50 dB $L_{Aeq,T}$.

Although the difference between the rating level and the representative background sound level is above that indicating an adverse impact (depending on context), the rating level is controlled by the existing permitted operations on site rather than the operation of the soils wash plant.

Inclusion of the dense foliage between the property and the site also reduces the rating level at Mill Farm House to 43 dB $L_{Ar,Tr}$, i.e. no more than 5 dB(A) above the representative background sound level.

Considering the context, the conclusion of the assessment for Mill Farm House is that the proposed operation of the soils wash plant (and associated plant items/HGV movements) has been demonstrated to be of no adverse impact at that location.

The Hassocks

The calculations demonstrate a rating level of 39 dB $L_{Ar,Tr}$ at The Hassocks which is 1 dB(A) above the representative daytime background sound level of 38 dB $L_{A90,T}$ at that location. The representative daytime residual sound level at The Hassocks is 50 dB $L_{Aeq,T}$.

The conclusion of the assessment for The Hassocks is that the proposed operation of the soils wash plant (and associated plant items/HGV movements) has been demonstrated to be of no adverse impact at that location.

Dwellings near Heygates Mill:

The calculations demonstrate a rating level of 33 dB $L_{Ar,Tr}$ at the dwellings near Heygates Mill which is 16 dB(A) below the representative daytime background sound level of 49 dB $L_{A90,T}$ for that location. The representative daytime residual sound level at the dwellings near Heygates Mill is 62 dB $L_{Aeq,T}$.

The conclusion of the assessment for the dwellings near Heygates Mill is that the proposed operation of the soils wash plant (and associated plant items/HGV movements) has been demonstrated to be of no adverse impact at that location.

West Street:

The calculations demonstrate a rating level of 35 dB $L_{Ar,Tr}$ at West Street, Icklingham which is 3 dB(A) below the representative daytime background sound level of 38 dB $L_{A90,T}$ at that location. The representative daytime residual sound level at West Street, Icklingham is 51 dB $L_{Aeq,T}$.

The conclusion of the assessment for West Street, Icklingham is that the proposed site operations have been demonstrated to be of no adverse impact at that location, depending on context.

Overall Summary

Although the ongoing site operations would be expected to remain audible at times at some of the receiver locations, it is expected that the wash plant and associated operations will be inaudible at all the receiver locations during the normal daytime operating hours.

The daytime soundscape for the four receiver locations considered will continue to be affected by distant and local road traffic noise, aircraft movements (some associated with RAF Mildenhall military base), birds, local agricultural activity and plant associated with the mill at Icklingham.

The comparison of the calculated noise levels arising from the operation of the site with the use of the soils wash plant has been compared to existing background and residual sound levels in the area and it is concluded that there will be no adverse impact arising from the proposed operations at the nearest residential receptors.

Sarah Large

MA (Cantab) MSc Dip (IoA) MIOA

Senior Consultant

Robert Storey

BEng PhD MIOA

Senior Consultant

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Appendix A – Glossary of Acoustic Terms

General Noise and Acoustics

The following section describes some of the parameters that are used to quantify noise.

Decibels dB

Noise levels are measured in decibels. The decibel is the logarithmic ratio of the sound pressure to a reference pressure (2×10^{-5} Pascals). The decibel scale gives a reasonable approximation to the human perception of relative loudness. In terms of human hearing, audible sounds range from the threshold of hearing (0 dB) to the threshold of pain (140 dB).

A-weighted Decibels dB(A)

The 'A'-weighting filter emulates human hearing response for low levels of sound. The filter network is incorporated electronically into sound level meters. Sound pressure levels measured using an 'A'-weighting filter have units of dB(A) which is a single figure value to represent the overall noise level for the entire frequency range.

A change of 3 dB(A) is the smallest change in noise level that is perceptible under normal listening conditions. A change of 10 dB(A) corresponds to a doubling or halving of loudness of the sound. The background noise level in a quiet bedroom may be around 20–30 dB(A); normal speech conversation around 60 dB(A) at 1 m; noise from a very busy road around 70–80 dB(A) at 10m; the level near a pneumatic drill around 100 dB(A).

Façade Noise Level

Façade noise measurements are those undertaken near to reflective surfaces such as walls, usually at a distance of 1m from the surface. Façade noise levels at 1m from a reflective surface are normally around 3 dB greater than those obtained under freefield conditions.

Freefield Noise Level

Freefield noise measurements are those undertaken away from any reflective surfaces other than the ground.

Frequency Hz

The frequency of a noise is the number of pressure variations per second, and relates to the "pitch" of the sound. Hertz (Hz) is the unit of frequency and is the same as cycles per second. Normal, healthy human hearing can detect sounds from around 20 Hz to 20 kHz.

Octave and Third-Octave Bands

Two frequencies are said to be an octave apart if the frequency of one is twice the frequency of the other. The octave bandwidth increases as the centre frequency increases. Each bandwidth is 70% of the band centre frequency.

Two frequencies are said to be a third-octave apart if the frequency of one is 1.26 times the other. The third octave bandwidth is 23% of the band centre frequency.

There are recognised octave band and third octave band centre frequencies. The octave or third-octave band sound pressure level is determined from the energy of the sound which falls within the boundaries of that particular octave or third octave band.

Appendix A (continued)

Equivalent Continuous Sound Pressure Level $L_{Aeq,T}$

The 'A'-weighted equivalent continuous sound pressure level $L_{Aeq,T}$, is a notional steady level which has the same acoustic energy as the actual fluctuating noise over the same time period T . The $L_{Aeq,T}$ unit is dominated by higher noise levels, for example, the $L_{Aeq,T}$ average of two equal time periods at, for example, 70 dB(A) and 50 dB(A) is not 60 dB(A) but 67 dB(A).

The L_{Aeq} is the chosen unit of BS 7445-1:2003 "Description and Measurement of Environmental noise".

Maximum Sound Pressure Level L_{Amax}

The L_{Amax} value describes the overall maximum 'A'-weighted sound pressure level over the measurement interval. Maximum levels are measured with either a fast or slow time weighted, denoted as $L_{Amax,f}$ or $L_{Amax,s}$ respectively.

Rating Level (BS 4142) $L_{Ar,T}$

With regard to BS 4142, the rating level is the specific sound plus any adjustment for the characteristics of the sound.

Residual Sound (BS 4142)

With regard to BS 4142, the residual sound is the ambient sound remaining at the assessment location when the specific source is suppressed to such a degree that it does not contribute to the ambient sound.

Specific Sound Level (BS 4142) $L_{Aeq,T}$

With regard to BS 4142, the specific sound level is the sound pressure level (in terms of $L_{Aeq,T}$) produced by the specific sound source at the assessment location.

Statistical Parameters L_N

In order to cover the time variability aspects, noise can be analysed into various statistical parameters, i.e. the sound level which is exceeded for $N\%$ of the time. The most commonly used are the $L_{A01,T}$, $L_{A10,T}$ and the $L_{A90,T}$.

$L_{A01,T}$ is the 'A'-weighted level exceeded for 1% of the time interval T and is often used to give an indication of the upper maximum level of a fluctuating noise signal.

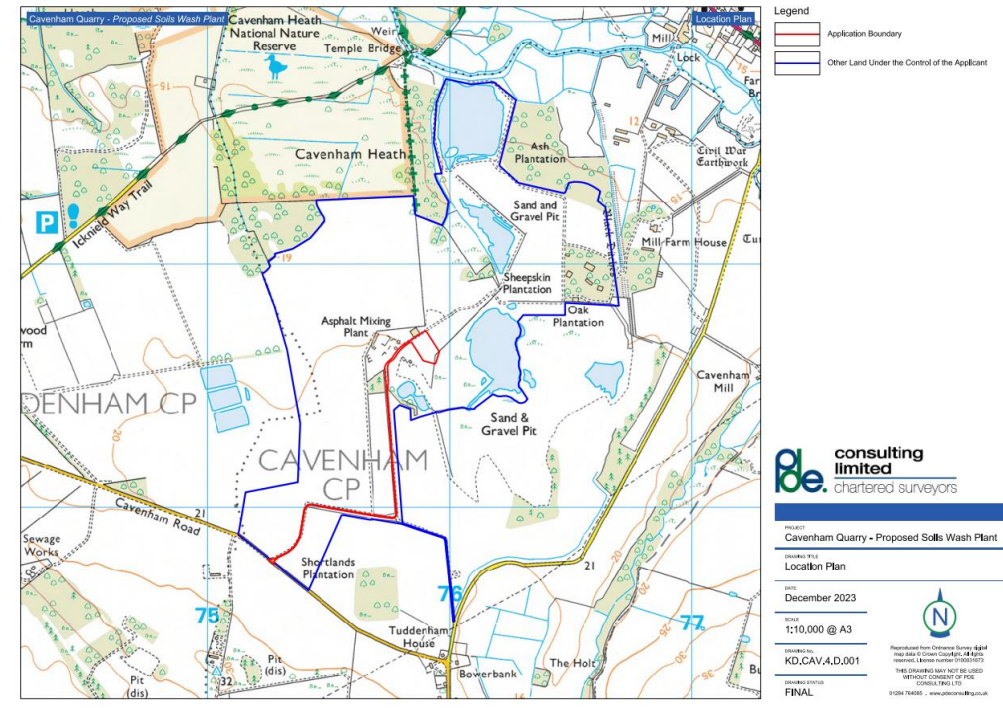
$L_{A10,T}$ is the 'A'-weighted level exceeded for 10% of the time interval T and is often used to describe road traffic noise. It gives an indication of the upper level of a fluctuating noise signal. For high volumes of continuous traffic, the $L_{A10,T}$ unit is typically 2–3 dB(A) above the $L_{Aeq,T}$ value over the same period.

$L_{A90,T}$ is the 'A'-weighted level exceeded for 90% of the time interval T , and is often used to describe the underlying background noise level.

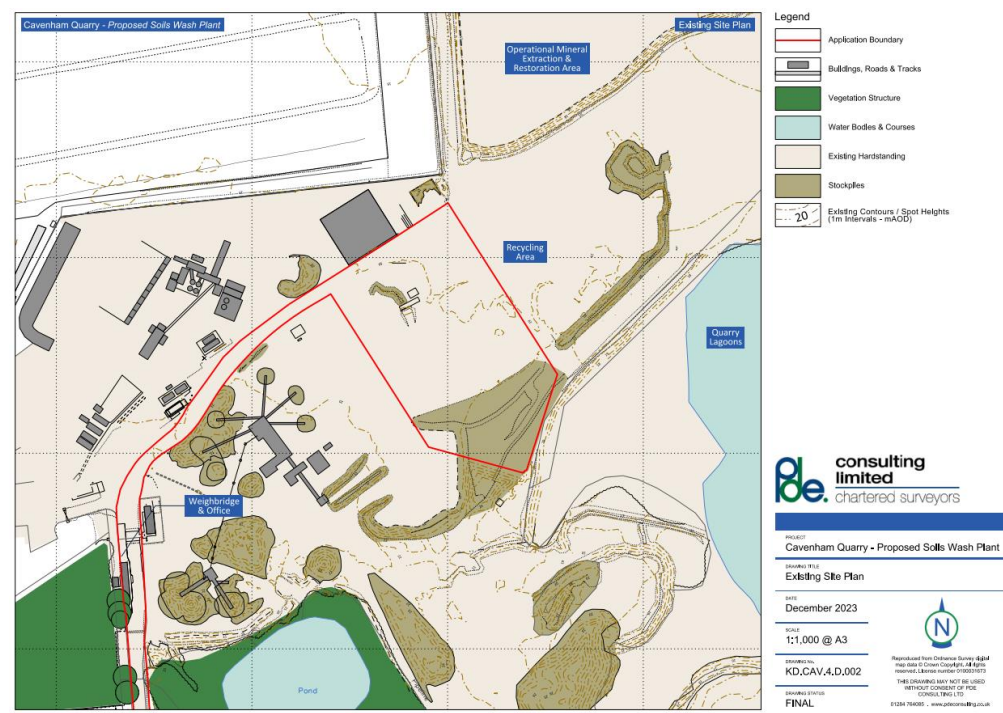
With regard to BS 4142, the $L_{A90,T}$ of the residual sound is used to describe the background sound level.

Appendix B – Plans Showing Site Layout

Location Plan

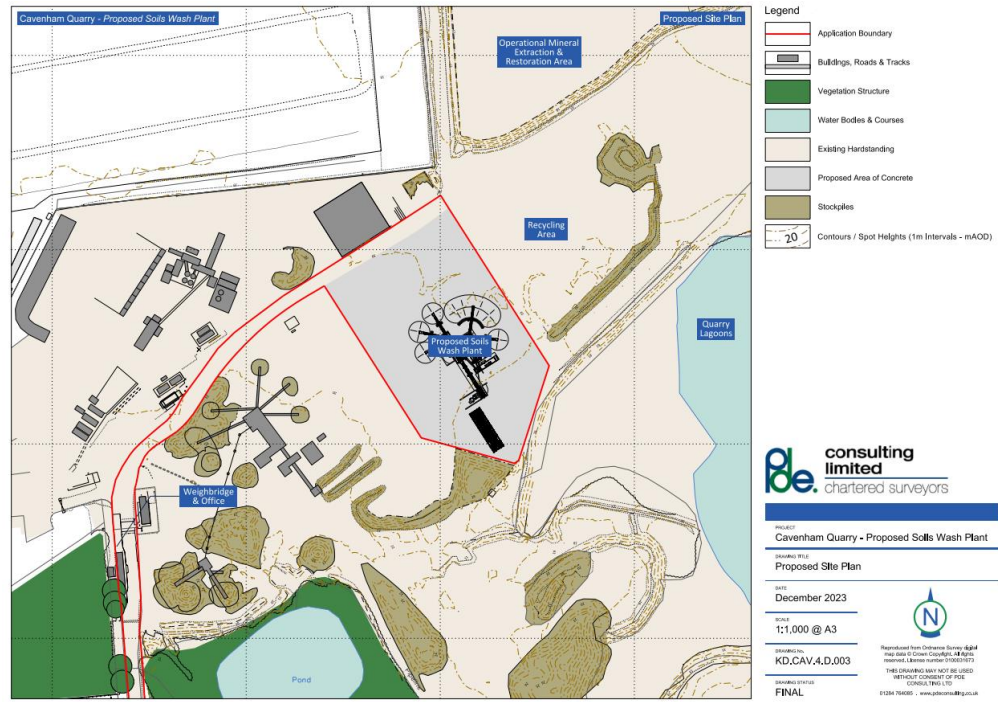


Current Site Layout

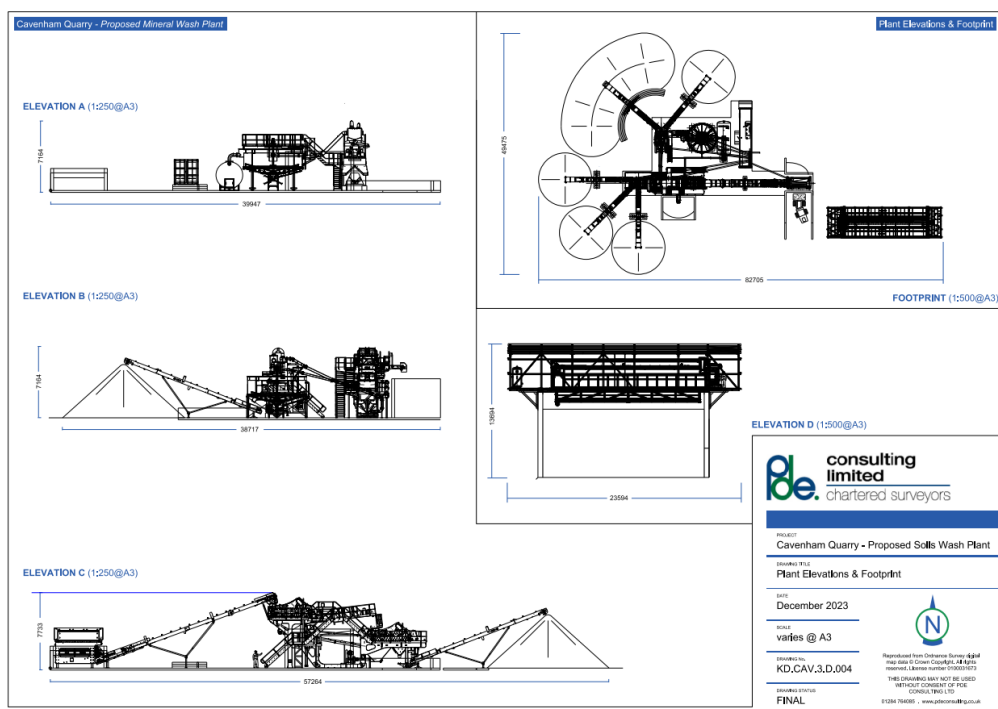


Appendix B (continued)

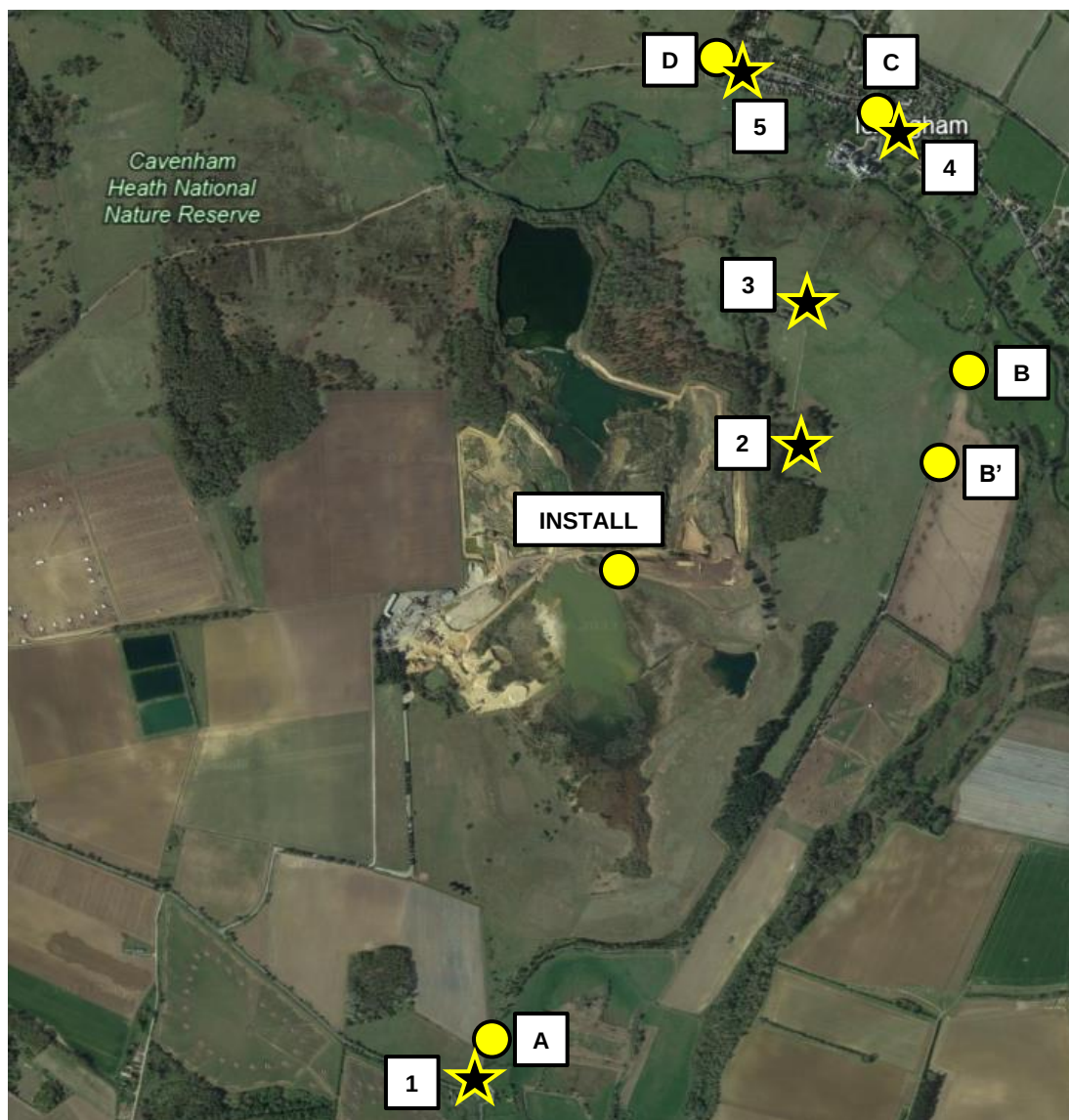
Proposed Site Layout



Proposed Elevations



Appendix C – WBM Noise Survey and Assessment Locations



	Measurement location		Assessment location
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Location			Description
1	A	Tuddenham House	In field entrance to north of Tuddenham House.
2	B	Mill Farm House	At gated entrance to track to Mill Farm House
2	B'		In layby to south of gated entrance to track to Mill Farm House
3	B/B'	The Hassocks	See above
4	C	Heygates Mill	Along access road to Heygates Mill, adjacent St James Church
5	D	West Street	Opposite 55 West Street at junction with quiet lane.
	Install	On Site	Middle of site away from main site activity, approx. 570 NE of processing plant

Appendix D – Sample Survey Details

Dates and Locations of Surveys

12:35-15:10, Saturday 24 June 2023;
14:50-17:55, Friday 07 July 2023; and
10:25-13:00, Tuesday 15 August 2023.

At Locations A to D as shown in the plan and described in Appendix C

Surveys carried out by

Sarah Large

Weather Conditions

Date	Conditions
Saturday 24 June 2023	Dry, warm, 26-27°C, 90% cloud, WSW breeze up to 3-4 m/s.
Friday 07 July 2023	Dry, warm, ~26°C, 20% cloud, SSE breeze 3-4 m/s with gusts up to 5-6 m/s.
Tuesday 15 August 2023	Dry, warm, 20-23°C, 10% cloud, W breeze with gusts up to 3-4m/s.

Instrumentation used

Serial Number	Date
Norsonic 140 Sound Level Meter (1403138) Norsonic 1251 Calibrator (31991)	Friday 24 June 2023
	Friday 07 July 2023
Norsonic 140 Sound Level Meter (1402998) Norsonic 1251 Calibrator (32466)	Tuesday 15 August 2023

Calibration

The sensitivity of the meter was verified on site immediately before and after the surveys. The measured calibration levels were as follows:

Survey Date	Start Cal	End Cal
12:35-15:10, Saturday 24 June 2023	113.6 dB(A)	113.6 dB(A)
14:50-17:55, Friday 07 July 2023	113.6 dB(A)	113.4 dB(A)
10:25-13:00, Tuesday 15 August 2023	113.8 dB(A)	113.6 dB(A)

The meter and calibrator were tested monthly against Norsonic Calibrators, type 1253 (serial number 22906) and type 1256 (serial number 125626100) both with UKAS approved laboratory certificate of calibration. In addition, the meter and calibrator undergo traceable calibration at an external laboratory every two years.

Appendix D (continued)

Survey Details

Attended sample measurements of 15 minute duration were taken at four locations. The microphone of the meter, positioned on a tripod, was at a height of between 1.2 and 1.5 metres above local ground level away from reflecting surfaces other than the ground, with a windshield used throughout.

The first survey on Saturday 24 June 2023 was arranged such that monitoring could be undertaken before and after the processing plant on site had stopped operating. However, the processing plant and site shut down early and all sample measurements were undertaken without the site operating. It is also noted that as a result, the majority of the survey period coincides with times of the day that the site is not proposing to operate.

The second survey on Friday 07 July 2023 was arranged such that the measurements could be undertaken before and after the processing plant (and majority of site operations) had stopped operating. It was arranged with the site that operations would stop earlier than normal at 5pm.

The findings of the July survey indicated that the background sound levels at the sample monitoring locations were not influenced by operations on site and as such the August survey was undertaken with normal operations taking place on site.

Appendix E – Sample Survey Results

Saturday 24 June 2023, 12:35-15:10

Location	Start Time	Results dB (T = 15 minutes)				Comments / Observations
		L _{Aeq,T}	L _{Amax,f}	L _{A10,T}	L _{A90,T}	
A. Tuddenham House	12:35	46	73	40	30	Distant road traffic noise, distant aircraft, birdsong, crickets. Bucket rattle and tonal reverse alarm audible (not from site). Distant voices. Local road traffic. Wind 1-2m/s.
B. Mill Farm House	12:56	43	65	43	33	Distant and local road traffic noise, distant aircraft, birdsong, whine from Heygates Mill. Light aircraft, crickets. Wind 2m/s.
C. Heygates Mill	13:16	61	83	63	48	Local and distant road traffic noise, birdsong, constant broadband noise from Heygates Mill (dictates background sound level). No wind, still.
D. West Street	13:34	52	75	48	34	Distant aircraft, distant road traffic noise, birdsong, crickets, sheep. People playing music loudly and walking past. No wind, still.
A. Tuddenham House	13:56	50	73	41	29	Birdsong, crickets, birdscarers, dog barking briefly, local road traffic. Possibly some distant road traffic at border of audibility. Wind 2-3m/s.
B. Mill Farm House	14:16	42	63	43	34	Whine from Heygates Mill, distant dog barks, birdsong, crickets, local road traffic noise, distant jet aircraft. Wind 2-3m/s.
C. Heygates Mill	14:34	60	79	63	48	Local road traffic noise, broadband noise from Heygates Mill, chickens at nearby dwelling, birdsong. No wind, still.
D. West Street	14:51	46	64	49	35	Distant road traffic noise, distant aircraft, sheep, birdsong, crickets, distant voices. No wind, still. (Battery failure so measurement shortened).

Appendix E (continued)

Friday 07 July 2023, 14:50-17:55

Location	Start Time	Results dB (T = 15 minutes)				Comments / Observations
		L _{Aeq,T}	L _{Amax,f}	L _{A10,T}	L _{A90,T}	
A. Tuddenham House	14:51	54	82	46	42	Distant road traffic noise, breeze in trees / grass. Crickets. Rumble of military aircraft in distance. Local road traffic noise. Site not audible. Wind: 3-4m/s.
B'. Mill Farm House	15:12	53	77	51	42	Breeze in trees / grass. Local road traffic noise. Intermittent DIY noise at gate at entrance to dwelling. Distant road traffic noise. Mill / factory whine just audible. Distant aircraft. Site not audible. Wind: 3-5m/s.
C. Heygates Mill	15:33	62	77	66	50	Local road traffic noise, constant plant noise from mill. Site not audible. Wind: 0.5m/s (sheltered location)
D. West Street	15:50	57	83	47	43	Constant broadband plant noise from mill. Breeze in trees / grass. Sheep. Local road traffic noise. Voices at nearby dwelling. Distant aircraft. Site not audible. Wind: 1-2m/s.
A. Tuddenham House	16:14	52	75	48	42	Local and distant road traffic noise. Breeze in trees / grass. Birdsong. Distant voices. Site not audible. Wind: 4m/s.
B'. Mill Farm House	16:42	48	71	49	40	Distant road traffic noise. Wind in trees / grass. Intermittent DIY noise at gate to dwelling. Whine from mill at border of audibility. Site not audible. Wind: 2-4m/s, gusts up to 5m/s.
B'. Mill Farm House	16:57	54	82	52	40	[Processing plant at site stopped operation] Local and distant road traffic noise. Whine just audible from direction of mill. Wind in trees / grass. Crickets. (Site not audible). Wind: 3-4m/s, gusts up to 6m/s.
D. West Street	17:16	46	67	46	42	[Processing plant at site stopped operation]. Constant plant noise from mill. Distant road traffic noise at border of audibility. Sheep. Breeze in trees / grass. Dog barking intermittently. Local road traffic noise. (Site not audible). Wind: 2-3m/s.
A. Tuddenham House	17:38	52	77	50	39	[Processing plant at site stopped operation] Local and distant road traffic noise. Breeze in trees / grass. Birdsong. Distant aircraft. (Site not audible). Wind: 3-5m/s.

Appendix E (continued)

Tuesday 15 August 2023, 10:25-13:00

Location	Start Time	Results dB (T = 15 minutes)				Comments / Observations
		L _{Aeq,T}	L _{Amax,f}	L _{A10,T}	L _{A90,T}	
A. Tuddenham House	10:28	48	69	49	39*	Breeze in trees / grass, local road traffic noise, insects, harvesting in adjacent field - tractor noise at variable levels. Distant road traffic noise. Gusts up to 3m/s, wind generally less. Use L _{A99} as estimate of background sound level due to tractor noise. Site not audible.
B'. Mill Farm House	10:48	50	73	45	38	Whine and broadband plant noise from Heygates Mill. Distant tractor engine noise, distant road traffic noise, insects. Military jet noise. Site not audible. Less wind here, 2m/s.
C. Heygates Mill	11:08	62	83	66	50	Constant broadband plant noise from Heygates Mill. Local road traffic noise, military aircraft, light aircraft. Site not audible. No wind, still.
D. West Street	11:26	45	72	47	38	Distant road traffic noise, breeze in trees / grass, insects, birdsong, voices at nearby dwellings, sheep, military aircraft. Site not audible. Gentle breeze, 2-3m/s.
D. West Street	11:43	43	58	46	38	Insects, birdsong, distant road traffic noise, sheep, military aircraft. Site not audible. Less wind, around 2m/s.
C. Heygates Mill	12:03	62	79	66	50	Road traffic noise, plant noise from Heygates Mill, Site not audible. Still, no wind.
B'. Mill Farm House	12:23	43	61	45	39	Broadband noise and whine from Heygates Mill. Distant road traffic noise, insects, breeze in trees. Site not audible apart from 2 occasions, 1-2 seconds of white noise reverse alarms. Gentle breeze, 2-3m/s.
A. Tuddenham House	12:43	48	76	44	39	Insects, distant grass cutting at dwelling, birdsong, local road traffic, distant aircraft. Tractors no longer in adjacent field. Gentle breeze 2-3m/s. Site not audible.

* The value presented is the L_{A99}. The L_{A90} was influenced by noise from a nearby tractor and as such the L_{A99} value has been used instead to represent the background sound level for this period. The L_{A90} was 41dB.

Appendix F – Installed Sound Level Meter Survey Details

Dates and Location of Installed Meter

Friday 24 June 2023 to Friday 07 July 2023

Location – On Site (see Appendix C).

Meter Installed and Collected by:

Sarah Large

Weather Conditions

A summary of the results from the weather station are tabulated below.

Day	Date	Dominant Wind Direction	Wind speed m/s			Temp degrees C			Rain
			Min	Max	Average	Min	Max	Average	
Saturday	24/06/2023	SW	0.0	4.5	3.3	16	27	22	No
Sunday	25/06/2023	S	1.3	9.8	5.7	17	31	24	No
Monday	26/06/2023	W	0.9	7.6	5.2	12	23	18	No
Tuesday	27/06/2023	WSW	0.9	5.8	3.4	12	21	17	No
Wednesday	28/06/2023	WSW	1.3	5.4	3.7	18	23	21	No
Thursday	29/06/2023	NNW	0.0	5.4	3.5	14	22	18	Yes
Friday	30/06/2023	SW	0.0	7.6	4.0	9	19	16	Yes
Saturday	01/07/2023	WNW	3.1	8.0	5.7	14	21	18	Yes
Sunday	02/07/2023	W	2.7	9.4	5.7	11	19	15	No
Monday	03/07/2023	WSW	2.7	10.7	6.4	10	19	15	No
Tuesday	04/07/2023	WSW	1.3	7.2	4.0	12	17	14	Yes
Wednesday	05/07/2023	W	2.7	8.9	5.4	11	20	15	Yes
Thursday	06/07/2023	SSW	2.7	6.3	4.2	10	22	16	No
Friday	07/07/2023	SSE	1.3	7.2	4.4	12	28	21	No

Some of the weather data are presented graphically in Appendix G. The full results are available on request.

Instrumentation used (Serial Number)

Instrumentation used:

RION NL-52 Sound Level Meter (420715)

RION NC-74 Calibrator (34425556)

Appendix F (continued)

Calibration

The sensitivity of the meter was verified on site immediately before and after the install. The measured calibration levels were as follows:

Survey Date	Start Cal	End Cal
11:50 on Friday 24 June 2023 to 18:06 on Friday 07 July 2023	93.9 dB(A)	93.8 dB(A)

The meter and calibrator were tested monthly against Norsonic Calibrators, type 1253 (serial number 22906) and type 1256 (serial number 125626100) both with UKAS approved laboratory certificate of calibration. In addition, the meter and calibrator undergo traceable calibration at an external laboratory every two years.

Survey Details

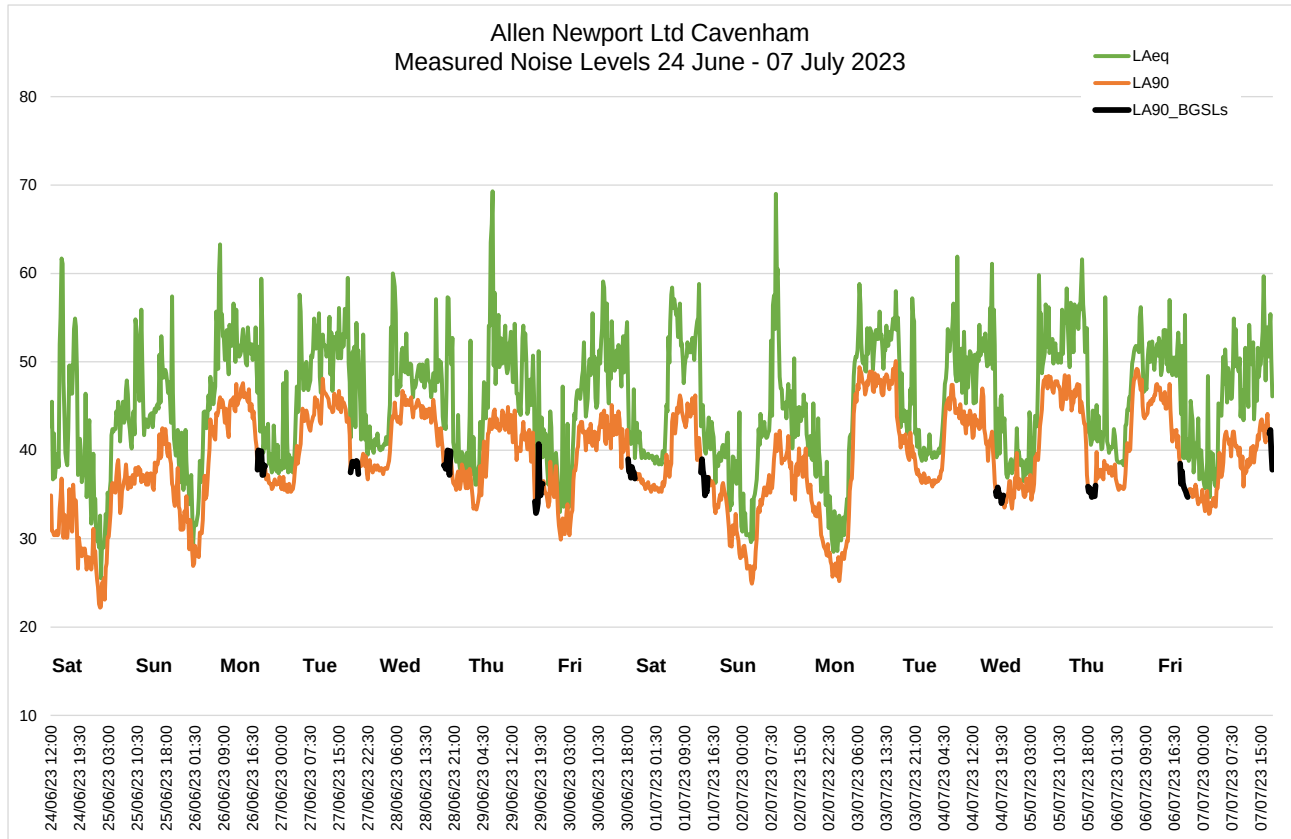
Continuous measurements of 15 minute duration were taken at the chosen location over the specified period. The microphone was fitted with a RION WS-15 windshield which was used throughout the measurements.

The results from the installed sound level meter are presented in chart form in Appendix G. The data can be provided in spreadsheet/tabular form on request.

Periods used to determine typical background sound levels outside of the site's operating hours are highlighted in bold on the chart in Appendix G.

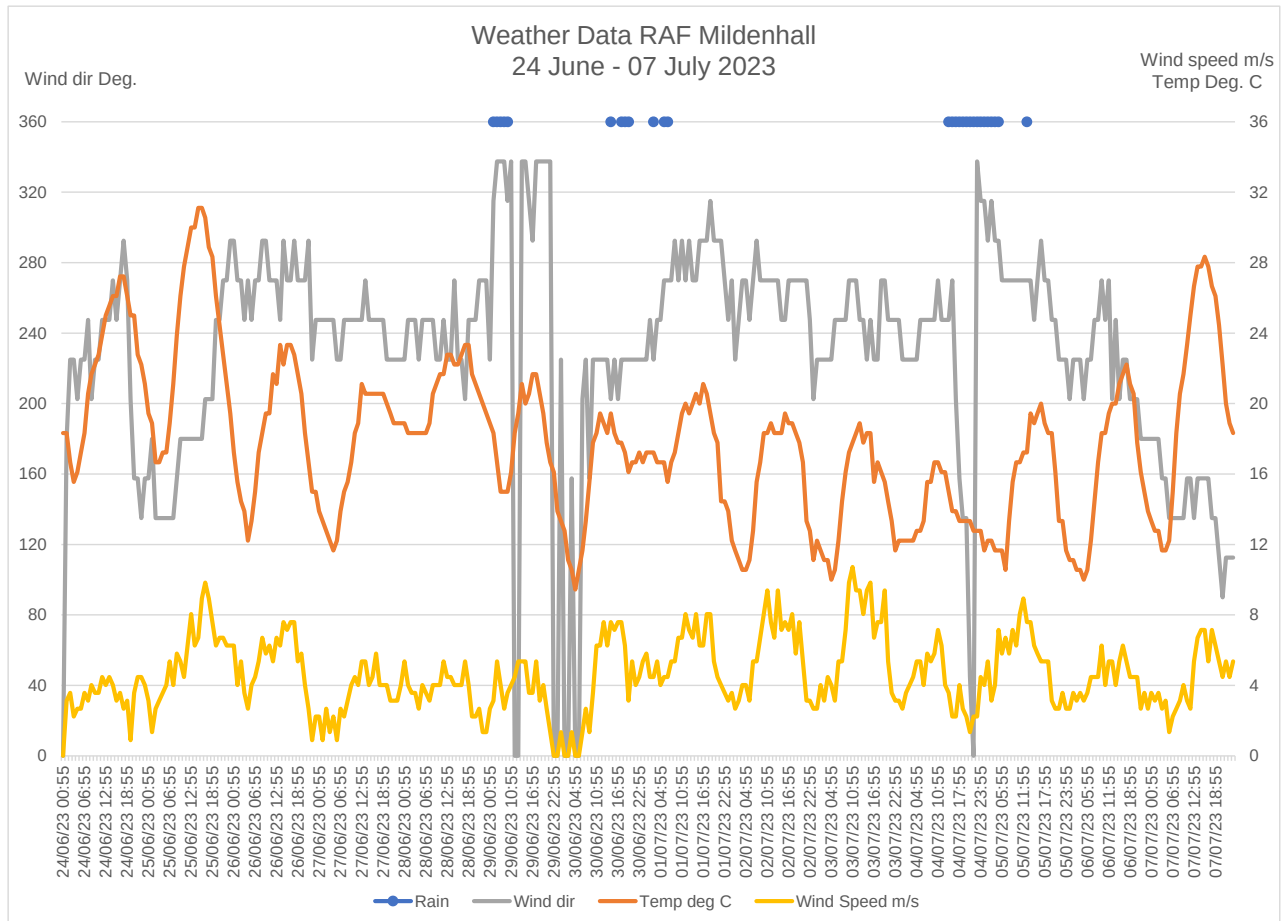
Appendix G – Installed Sound Level Meter Data and Weather Data

Install Data – Saturday 24 June to Friday 07 July 2023:



Appendix G (continued)

Weather Data - Saturday 24 June to Friday 07 July 2023:



Appendix H – Plant Noise Survey Details & Results

Dates and Location of Survey

Tuesday 22 May 2018

Survey carried out by:

Dr Robert Storey

Weather Conditions

Dry, light cloud, 22-23°C, N/Ne breeze 0-4 m/s

Instrumentation used (Serial Number)

Instrumentation used:

Norsonic 140 Sound Level Meter (1404819)

Norsonic 1251 Calibrator (33321)

Calibration

The sensitivity of the meter was verified on site immediately before and after the survey. The measured calibration levels were as follows:

Survey Date	Start Cal	End Cal
14:25 to 14:50 on Tuesday 22 May 2018	113.7 dB(A)	113.5 dB(A)

The meter and calibrator are tested monthly against Norsonic Calibrators, type 1253 (serial number 22906) and type 1256 (serial number 125626100) both with UKAS approved laboratory certificate of calibration. In addition, the meter and calibrator undergo traceable calibration at an external laboratory every two years.

Survey Details

Continuous measurements of 1 minute duration were taken at locations around the plant. The microphone was fitted with a windshield which was used throughout the measurements.

The results from the are presented below.

Description of Activity	Distance from Dominant Source (m)	Noise Level dB L _{Aeq,T}	Noise Level dB L _{A90,T}
End of conveyors	14	66/66	65/65
Side of plant	14	73/72	72/72
Side of plant	14	65/65	65/64
Conveyor motor area	5	73/73	72/72
Wash plant end	7	77/77	76/76
By Evowash 102	3	74/74	73/73
Wash plant side	4	77/77	76/76
Side of plant	14	65/65	64/64

Appendix H (continued)

Dates and Location of Survey

Thursday 21 May 2020

Location – Cavenham Quarry

Survey carried out by:

Dr Paul Cockcroft

Weather Conditions

Dry, sunny, partly clouds, ~22°C, SW breeze ~1 m/s

Instrumentation used (Serial Number)

Instrumentation used:

Norsonic 140 Sound Level Meter (1403136)

Norsonic 1251 Calibrator (31992)

Calibration

The sensitivity of the meter was verified on site immediately before and after the survey. The measured calibration levels were as follows:

Survey Date	Start Cal	End Cal
12:30 to 12:55 on Thursday 21 May 2020	113.9 dB(A)	113.8 dB(A)

The meter and calibrator are tested monthly against Norsonic Calibrators, type 1253 (serial number 22906) and type 1256 (serial number 125626100) both with UKAS approved laboratory certificate of calibration. In addition, the meter and calibrator undergo traceable calibration at an external laboratory every two years.

Survey Details

Continuous measurements of up to 5 minute duration were taken at locations around the plant. The microphone was fitted with a windshield which was used throughout the measurements.

The results from the are presented below.

Description of Activity	Distance from Dominant Source (m)	Noise Level dB L _{Aeq,T}	Noise Level dB L _{A90,T}
Plant side (towards weighbridge)	100	58	57
Plant side (to N)	40	67	66
Plant side (to NE)	50	65	64

Appendix I – SoundPLAN Noise Mapping Assumptions

Calculations were undertaken using SoundPLAN 8.2 (updated 20 June 2023)

Noise calculations were made on a 5 metre grid at a calculation height of 1.5 metres above local ground level to represent ground floor level.

The calculations assume 90% soft ground across the calculation area.

Barrier attenuation is included in the calculations due to that afforded by the existing topography in the vicinity of the site (including the bunding to be in place on the eastern side).

Sound Power Level data has been included based on plant noise measurements obtained on site on 21 May 2020 as well as measurements of the same type of plant as that proposed on another site obtained on 22 May 2018 plus data contained within the WBM plant noise database of previous measurements of other similar plant items to those to be on site.

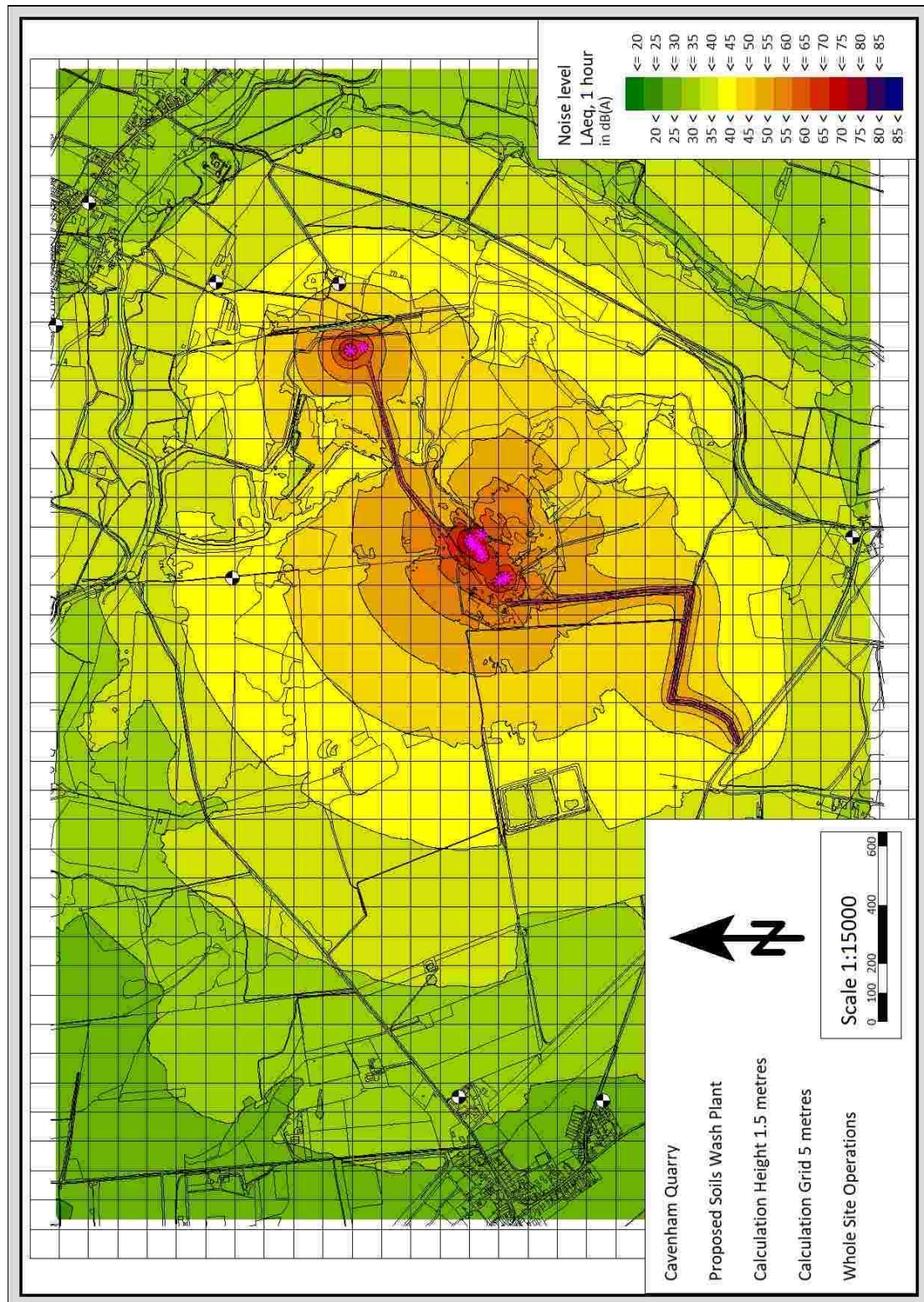
A summary of the data input into the SoundPLAN calculations is presented in the following table.

Plant Item	Sound Power Level dB L _{WA}	Source Height (m)	On time	OS Grid Reference
Soils Wash Plant				
Soils wash plant	106	5	100%	E: 585899 N: 271657
Loading Shovel	106	2	50%	E: 575918 N: 271663
Minerals Wash Plant				
Minerals wash plant	107	5	100%	E: 575817 N: 271597
Loading Shovel	106	2	100%	E: 575827 N: 271576
Recycling Plant				
Crusher	110	4	100%	E: 575941 N: 271681
Screens	113	4	100%	E: 575955 N: 271698
Excavator	104	3	100%	E: 575932 N: 271681
Loading Shovel at Stockpiles	106	2	50%	E: 575974 N: 271659
Infilling Operations				
Tipping of Material	110	0.5	10%	E: 576615 N: 272063
Dozer	108	2	100%	E: 576604 N: 272107
Dump Trucks	105 (15 kph)	2	6 per hour	N/A
HGV Movements				
HGVs within site	104 (16 kph)	2	12 per hour	N/A

Note: Permitted mineral extraction on the site is complete and has therefore not been included in the calculations. Future extraction (dependent on obtaining planning permission) would be to the west of the main site and would be significantly further away from the receptors considered than currently permitted infilling operations.

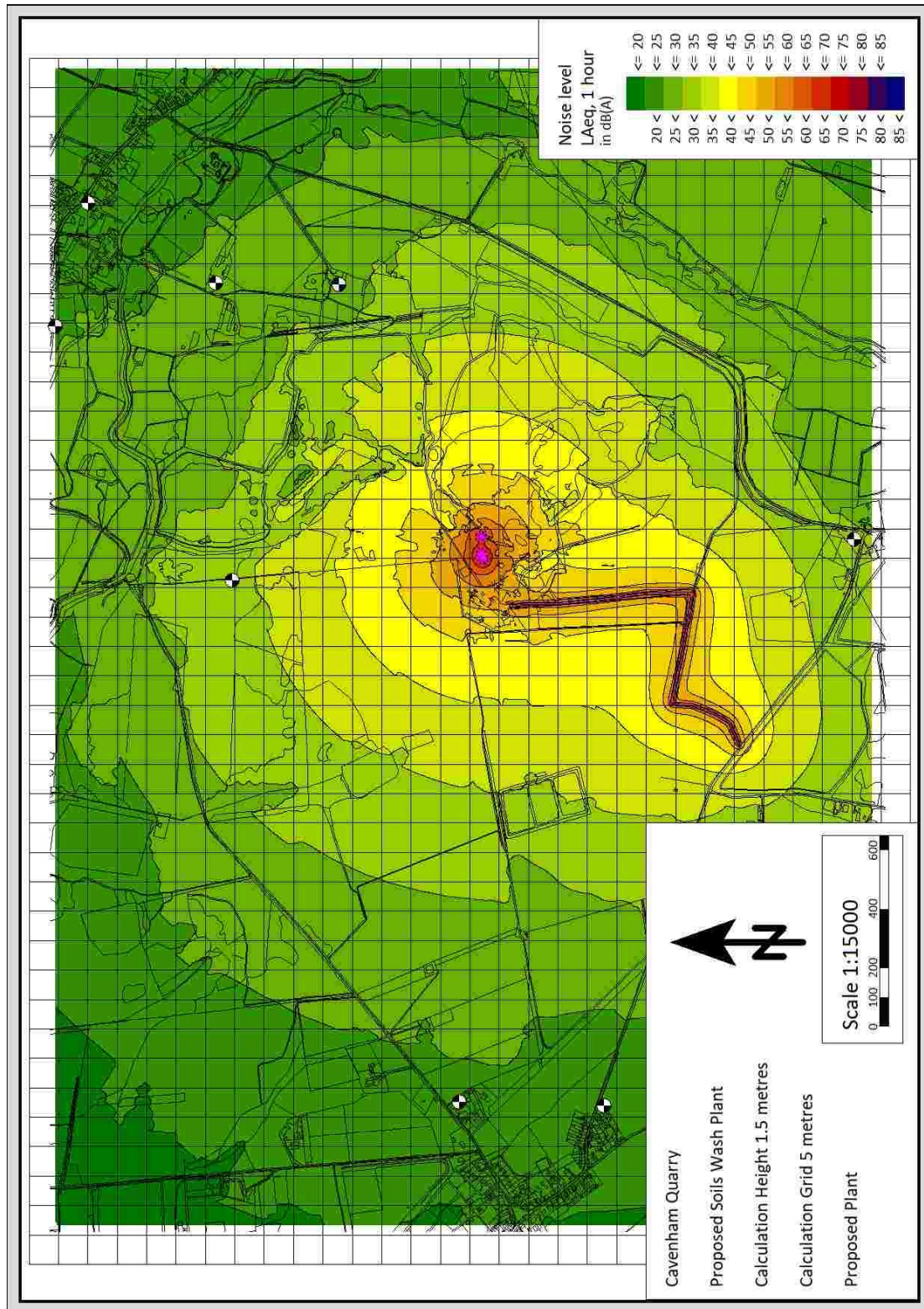
Appendix J – SoundPLAN Noise Plots

All Site Operations (07:00-18:00):



Appendix J (continued)

Soils Wash Plant and Associated Operations (07:00-18:00):



Appendix K – BS4142 : 2014 + A1: 2019 Assessment

(a) Statement of Qualifications

See details about The Authors on page 2 of this report.

(b) Source Being Assessed

1) Description of the main sound sources and of the specific sound

The sources under investigation are the permitted site activity and the proposed use of the soils wash and associated loading shovel (also including the existing site operations for completeness). The main noise sources are listed in Appendix I and would give rise to the specific sound levels at the off-site receiver locations.

2) Hours of operation

The normal hours of operation are Mondays - Fridays 07.00–18.00;

07:00 to 13:00 Saturdays; and

No operation on Sundays or Bank/Public Holidays.

3) Mode of operation (e.g. continuous, twice a day, only in hot weather)

The operations will only take place during the hours stipulated above.

4) Statement of operational rates of the main sound sources (e.g. maximum load setting, 50% max rate, low load setting)

The measurements and assessment have been based on a “*maximum load setting*” i.e. with the soils wash plant and associated use of the loading shovel (split between the plant and the stockpiles) operating simultaneously and continuously for the entire assessment period of one hour.

The calculated site noise levels are therefore likely to be an overestimate.

HGV movements associated with the soils wash plant have been included as 12 one-way movements per hour as would be normally expected.

The ongoing permitted infilling and other plant site activities on the site (including use of the recycling operation and mineral wash plant) are included as taking place simultaneously with the operation of the soils wash plant.

5) Description of premises in which the main sound sources are situated (if applicable).

The operation of the soils wash plant for imported recycling material will be located on the eastern part of the existing plant site to the north-east of the mineral wash plant. The other ongoing operations on site will be in their current locations.

The site will use the loading shovel to service the soils wash plant and for material management and loading vehicles.

A plan showing the site layout is provided in Appendix B.

Appendix K (continued)

(c) Subjective Impressions

1) Dominance or audibility of the specific sound

The specific source is not yet in place, but is expected to be inaudible at the nearest dwellings to the site the normal daytime operating hours.

2) Main sources contributing to the residual sound.

The noise climate in the area during the surveys undertaken by WBM in June, July and August 2023 was affected by distant and local road traffic noise, aircraft movements (some associated with RAF Mildenhall), birds, local agricultural activity and plant associated with the mill at Icklingham.

(d) The Existing Context and Sensitivity of Receptor

The noise climate during the daytime at the chosen assessment locations is characterised by distant and local road traffic noise, aircraft movements (some associated with RAF Mildenhall), birds, local agricultural activity and plant associated with the mill at Icklingham. With regard to sensitivity, the receptor locations are residential properties and are therefore considered to be of “High” sensitivity.

(e) Measurement Locations and Justification

Measurement locations, their distance from the specific sound source, the topography of the intervening ground and any reflecting surface other than the ground, including a photograph, or a dimensioned sketch with a north marker. A justification for the choice of measurement locations should also be included.

The measurement locations used for the consideration of the baseline noise data were near to existing residential properties to the site. The data were used to determine the acoustic environment and to measure residual (ambient) and background sound levels in the vicinity of the dwellings.

The receptor locations selected for this assessment are representative of the closest residential areas to the site.

The topography of the ground between the site and the nearest residential locations (and in the locality in general) has been modelled using LiDAR data to create a Digital Ground Model.

(f) Sound Measuring Systems, Including Calibrator / Pistonphone

1) Type

See Appendix D and F

2) Manufacturer

See Appendix D and F

3) Serial number

See Appendix D and F

4) Details of the latest verification test including dates

See Appendix D and F

Appendix K (continued)

(g) Operational Test

- 1) *Reference level(s) of calibrator, multi-function calibrator or pistonphone;*
See Appendix D and F
- 2) *Meter reading(s) before and after measurements with calibrator, multi-function calibrator or pistonphone applied.*
See Appendix D and F

(h) Weather Conditions

- | | | |
|----|--|---|
| 1) | <i>Wind speed(s) and direction(s)</i> | See Appendix D and F. |
| 2) | <i>Presence of conditions likely to lead to temperature inversion (e.g. calm nights with little cloud cover)</i> | None. |
| 3) | <i>Precipitation</i> | None during sample surveys, some rain during the installed sound level meter survey but this was either during periods not included in the analysis or did not show any influence on the measured noise levels. |
| 4) | <i>Fog</i> | None. |
| 5) | <i>Wet ground</i> | None. |
| 6) | <i>Frozen ground or snow coverage</i> | None. |
| 7) | <i>Temperature:</i> | See Appendix D. |
| 8) | <i>Cloud Cover</i> | |

Date	Cloud Cover (estimated)
Saturday 24 June 2023	90% cloud
Friday 07 July 2023	20% cloud
Tuesday 15 August 2023	10% cloud

(i) Date(s) and Time(s) of Measurements

See Appendix D, E, F and G

(j) Measurement Time Intervals

15 minutes

(k) Reference Time Interval(s)

The reference time interval is 1 hour for the daytime assessment between 07:00 to 23:00 hours.

Appendix K (continued)

(I) Specific Sound Level

1) *Measured sound level(s)*

The specific sound level for the soils wash plant (same plant type) was measured on another site and the representative Sound Power Level of the plant was determined to be 106 dB L_{WA} .

The Sound Power Level for the existing Minerals Wash Plant was also determined based on previous measurements on site and was 107 dB L_{WA} .

The Sound Power Levels for the other plant items on site has been determined from calculation based on sound level data contained within the WBM plant noise database including those previously measured on site.

2) *Residual sound level(s) and method of determination*

The representative residual sound levels (daytime) were determined from the attended noise surveys at Locations A to D. The measurements were undertaken in June, July and August 2023. Whilst some of the surveys were undertaken during periods when the site was operating, the surveys confirmed that site noise was generally inaudible at the monitoring locations and did not influence the measured background or residual sound levels. The residual sound levels were controlled by local road traffic noise, aircraft movements, local agricultural activity, noise from Heygates Mill and birdsong.

The representative daytime residual noise levels were as follows:

A. Tuddenham House:	51 dB $L_{Aeq,15 \text{ min, free field}}$
B. Mill Farm House / The Hassocks:	50 dB $L_{Aeq,15 \text{ min, free field}}$
C. Heygates Mill:	62 dB $L_{Aeq,15 \text{ min, free field}}$
D. West Street:	51 dB $L_{Aeq,15 \text{ min, free field}}$
Install (On Site):	45 dB $L_{Aeq,15 \text{ min, free field}}$

3) *Ambient sound level(s) and method of determination*

The ambient sound levels are the same as the residual sound levels as the surveys confirmed that site noise was generally inaudible at the monitoring locations and did not influence the measured background or residual / ambient sound levels. The representative residual and ambient sound levels were determined from the attended noise surveys at Locations A to D. The measurements were undertaken in June, July and August 2023.

The representative daytime ambient noise levels were as follows:

A. Tuddenham House:	51 dB $L_{Aeq,15 \text{ min, free field}}$
B. Mill Farm House / The Hassocks:	50 dB $L_{Aeq,15 \text{ min, free field}}$
C. Heygates Mill:	62 dB $L_{Aeq,15 \text{ min, free field}}$
D. West Street:	51 dB $L_{Aeq,15 \text{ min, free field}}$
Install (On Site):	45 dB $L_{Aeq,15 \text{ min, free field}}$

Appendix K (continued)

For the daytime sample measurements at the attended survey locations the following “Comments” were made:

- | | |
|---------------------------------------|--|
| A. Tuddenham House: | Distant and local road traffic, occasional civil and military aircraft, agricultural activity, birdsong, local activity; |
| B. Mill Farm House /
The Hassocks: | Distant and local road traffic, occasional civil and military aircraft, whine from Heygates Mill, birdsong, distant farm activity, breeze in trees/crops; |
| C. Heygates Mill: | Distant and local road traffic, birdsong, broadband noise from Heygates Mill, local activity, distant farm vehicles, breeze in trees, occasional aircraft; |
| D. West Street: | Distant and local road traffic, occasional civil and military aircraft, birdsong, insects, sheep, breeze in trees, local activity. |

4) *Specific sound level(s) and method of determination*

The specific sound levels for the whole site at the five assessment locations have been determined from calculation (see Sections 6 and 7 of this report) as follows:

Daytime (07:00 to 18:00):

- 36 dB $L_{Aeq,1 \text{ hour, free field}}$ for Tuddenham House;
- 45 dB $L_{Aeq,1 \text{ hour, free field}}$ for Mill Farm House;
- 39 dB $L_{Aeq,1 \text{ hour, free field}}$ for The Hassocks;
- 33 dB $L_{Aeq,1 \text{ hour, free field}}$ for Heygates Mill; and
- 35 dB $L_{Aeq,1 \text{ hour, free field}}$ for West Street.

5) *Justification of methods*

Calculation was used as the proposed new soils wash plant is not yet in place and therefore cannot be measured at the nearest dwellings.

6) *Details of any corrections applied*

See the Potential Impact of Uncertainty section (q) at the end of this appendix.

Appendix K (continued)

(m) Background Sound Level(s)

Background sound level(s) and measurement time interval(s) and, in the case of measurements taken at an equivalent location, the reasons for presuming it to be equivalent.

The 15-minute attended sample measurements undertaken in June, July and August 2023 (and the data from the installed sound level meter) at the four residential survey locations gave a range of daytime background sound levels of:

A. Tuddenham House:	29 to 42 dB L _{A90,15 min} , free field;
B. Mill Farm House / The Hassocks:	33 to 42 dB L _{A90,15 min} , free field;
C. Heygates Mill:	48 to 50 dB L _{A90,15 min} , free field;
D. West Street:	34 to 43 dB L _{A90,15 min} , free field;
Install (On Site):	33 to 42 dB L _{A90,15 min} , free field;

The 15-minute attended sample measurements undertaken in June, July and August 2023 (and the data from the installed sound level meter) at the four residential survey locations gave representative daytime background sound levels of:

A. Tuddenham House:	37 dB L _{A90,15 min} , free field;
B. Mill Farm House / The Hassocks:	38 dB L _{A90,15 min} , free field;
C. Heygates Mill:	49 dB L _{A90,15 min} , free field;
D. West Street:	38 dB L _{A90,15 min} , free field;
Install (On Site):	37 dB L _{A90,15 min} , free field;

Appendix K (continued)

(n) Rating Level(s)

1) *Specific sound level(s)*

The specific sound level(s) stated earlier are:

36 dB $L_{Aeq,1 \text{ hour, free field}}$ for Tuddenham House;

45 dB $L_{Aeq,1 \text{ hour, free field}}$ for Mill Farm House;

39 dB $L_{Aeq,1 \text{ hour, free field}}$ for The Hassocks;

33 dB $L_{Aeq,1 \text{ hour, free field}}$ for Heygates Mill; and

35 dB $L_{Aeq,1 \text{ hour, free field}}$ for West Street.

2) *Any acoustic features of the specific sound*

The potential adjustments for the different features and assessment methods are summarised in the table in Section 3 of this report.

Considering the existing ambient and background sound environment in the area during the daytime, the nature of the operations and the low calculated noise levels (and expected inaudibility) at the receptors due to the proposed operation of the soils wash plant and associated loading shovel, one would not expect any acoustic features of the noise to be readily distinguishable at the dwellings and an acoustic feature correction would not be appropriate. The Specific Sound Level used is therefore the same as the Rating Level for normal daytime operations.

With regard to the ongoing permitted operations, particularly the nearest operation (infilling) to any of the receptors, a separation distance of 200 metres from the dozer to the Mill Farm House receiver location, no requirement for a penalty for tonality, impulsivity or intermittency is expected for the infill operations at the Mill Farm House receiver location.

The nature of a dozer grading material could attract the 'Other' correction of + 3 dB "if neither tonal nor impulsive, but otherwise readily distinctive" if the dozer tracks are worn. However, at a separation distance of 200 metres to Mill Farm House and with the use of a modern dozer the 'Other' correction of + 3 dB has not been included.

3) *Rating level(s)*

The rating levels for daytime are therefore 0 dB above the specific noise levels stated above resulting in the following rating levels determined in accordance with BS 4142:2014+A1:2019:

36 dB $L_{Ar,Tr}$ for Tuddenham House;

45 dB $L_{Ar,Tr}$ for Mill Farm House;

38 dB $L_{Ar,Tr}$ for The Hassocks;

33 dB $L_{Ar,Tr}$ for Heygates Mill; and

35 dB $L_{Ar,Tr}$ for West Street.

Appendix K (continued)

(o) Excess of the level(s) over background sound level(s)

Excess of the rating level(s) over the measured background sound level(s) and the initial estimate of the impacts

The rating levels, the background sound levels and the excess of the rating levels over the representative background sound levels for the operating hours of the site are presented in the following table:

Receiver Location Daytime (07:00-18:00)	Rating Level dB $L_{Ar,Tr}$	Representative Background Sound Level dB $L_{A90,15\ min}$	Excess of Rating Level over Background Sound Level
1. Tuddenham House	36	37	-1
2. Mill Farm House	45	38	+7
3. The Hassocks	39	38	+1
4. Heygates Mill	33	49	-16
5. West Street	35	38	-3

When the rating level is above the background sound level, a difference of around +5 dB is likely to indicate an adverse impact and a difference of around +10 dB or more is likely to indicate a significant adverse impact, depending on the context.

The lower the rating level is relative to the measured background sound level, the less likely it is that the specific sound source will have an adverse impact or a significant adverse impact. Where the rating level does not exceed the background sound level, this is an indication of the specific sound source having a low impact, depending on the context.

(p) Conclusions of the assessment after taking context into account

Location 1. Tuddenham House:

The calculations demonstrate a rating level of 36 dB $L_{Ar,Tr}$ at Tuddenham House which is 1 dB(A) less than the representative daytime background sound level of 37 dB $L_{A90,T}$. The representative daytime residual sound level at Tuddenham House is 51 dB $L_{Aeq,T}$.

The conclusion is that the assessment indicates no adverse impact at Tuddenham House during the proposed daytime operation of the soils wash plant.

The daytime soundscape for Tuddenham House will continue to be affected by Distant and local road traffic, occasional civil and military aircraft, agricultural activity, birdsong and local activity.

It is expected that the operation of the soils wash plant would be inaudible at this location during the daytime, although ongoing permitted site operations may be audible at times.

Location 2. Mill Farm House:

The calculations demonstrate a rating level of 45 dB $L_{Ar,Tr}$ at Mill Farm House which is 7 dB(A) above the representative daytime background sound level of 38 dB $L_{A90,T}$. The representative daytime residual sound level at Mill Farm House is 50 dB $L_{Aeq,T}$.

Appendix K (continued)

Although the difference between the rating level and the representative background sound level is above that indicating an adverse impact (depending on context) at this location, the conclusion is that the assessment indicates no adverse impact at Mill Farm House during the proposed daytime operation of the soils wash plant when context is considered.

Inclusion of the dense foliage between the property and the site reduces the rating level to 43 dB $L_{Ar,Tr}$ at Mill Farm House which is 5 dB(A) above the representative daytime background sound level of 38 dB $L_{A90,T}$.

In context, the presented rating level is controlled by the ongoing permitted activities on site and the addition of the soils wash plant and associated loading shovel does not increase the existing site noise levels at Mill Farm House with a rating level for those operations in isolation 8 dB(A) below the representative background sound level at the property.

The daytime soundscape for Mill Farm House will continue to be affected by distant and local road traffic, occasional civil and military aircraft, whine from Heygates Mill, birdsong, distant farm activity and breeze in trees/crops.

It is expected that the operation of the soils wash plant will be inaudible at this location during the daytime, although noise from the ongoing permitted operations on the site will be audible at this location.

Location 3. The Hassocks

The calculations demonstrate a rating level of 39 dB $L_{Ar,Tr}$ at The Hassocks which 1 dB(A) above than the representative daytime background sound level of 38 dB $L_{A90,T}$. The representative daytime residual sound level at The Hassocks is 50 dB $L_{Aeq,T}$.

The conclusion is that the assessment indicates no adverse impact at The Hassocks during the proposed daytime operation of the soils wash plant.

The daytime soundscape for The Hassocks will continue to be affected by distant and local road traffic, occasional civil and military aircraft, whine from Heygates Mill, birdsong, distant farm activity and breeze in trees/crops.

It is expected that the operation of the soils wash plant would be inaudible at this location during the daytime, although the ongoing permitted operations on the site may be just audible on occasion.

Location 4. Heygates Mill:

The calculations demonstrate a rating level of 33 dB $L_{Ar,Tr}$ at the dwellings by Heygates Mill which is 16 dB(A) below the representative daytime background sound level of 49 dB $L_{A90,T}$. The representative daytime residual sound level at the dwellings by Heygates Mill is 62 dB $L_{Aeq,T}$.

The conclusion is that the assessment indicates no adverse impact at the dwellings by Heygates Mill during the proposed daytime operating hours of the soils wash plant.

The daytime soundscape for the dwellings by Heygates Mill will continue to be affected by broadband noise from Heygates Mill, distant and local road traffic, birdsong, local activity, distant farm vehicles, breeze in trees and occasional aircraft.

It is expected that the operation of the soils wash plant will be inaudible at this location during the daytime.

Appendix K (continued)

Location 5. West Street:

The calculations demonstrate a rating level of 35 dB $L_{A,T,r}$ at West Street, Icklingham which is 3 dB(A) below the representative daytime background sound level of 38 dB $L_{A90,T}$. The representative daytime residual sound level at West Street, Icklingham is 51 dB $L_{Aeq,T}$.

The conclusion is that the assessment indicates no adverse impact at West Street, Icklingham during the proposed daytime operating hours of the soils wash plant.

The daytime soundscape for West Street, Icklingham will continue to be affected by Distant and local road traffic, occasional civil and military aircraft, birdsong, insects, sheep, breeze in trees and local activity.

It is expected that the operation of the soils wash plant will be inaudible at this location during the daytime.

(q) The potential impact of uncertainty

Section 10 of BS 4142:2014+A1:2019 states: *“Consider the level of uncertainty in the data and associated calculations. Where the level of uncertainty could affect the conclusion, take reasonably practicable steps to reduce the level of uncertainty. Report the level and potential effects of uncertainty.”*

One of the largest levels of uncertainty is whether the proposed activity gives rise to the calculated noise level at the receiver locations considered.

The measurements and assessment have been based on a realistic worst case scenario during the proposed daytime operating periods.

The calculations and assessment have been based on a “*maximum load setting*” i.e. with the soils wash plant and the associated loading shovel (split between the plant and the stockpiles) operating continuously and simultaneously for the entire assessment period and is therefore likely to be an overestimate.

The modelled scenario is very much a worst case for when all plant is operating.

The model allows for a worst case scenario to provide a more robust assessment, but such as scenario is unlikely to occur as modelled in practice.

HGV movements associated with the site have been included as being 12 per hour as they are not expected to increase from the permitted numbers for the existing operations.

The Sound Power Level used is based on the maximum permitted noise output of HGVs rather than measured levels of HGV movements within a site (which is likely to be 10-11 dB lower) as this represents a worst case for a more robust assessment.

As stated above, for the majority of the time, the scenario as modelled will not occur because there will be some variability in the site operations and all mobile plant and machinery may not operate simultaneously for the proportion of the time used in the model.

Consideration of the soils wash plant and associated loading shovel (with the existing HGV movements on the access road) in isolation demonstrates rating levels between 10 and 31 dB(A) below the representative background sound levels at the residential receptors and therefore the operation of the soil wash plant is not expected to be audible at any of the assessment locations.

Appendix K (continued)

Inclusion of the dense foliage to the east of the infilling area reduces the calculated whole site noise levels at the properties to the east by 2-3 dB(A).

The site noise calculations do not include any allowance for air absorption but this is unlikely to have any significant outcome on the calculated sites noise levels and conclusions on impact.

APPENDIX 9

Noise Management Plan



NOISE MANAGEMENT PLAN (EPR/ZP3497EW)

**for the Waste Treatment and Inert Landfilling Operations
undertaken at**

**Marston's Pit, Cavenham Road, Tuddenham, Bury St.
Edmunds, Suffolk, IP28 6SE**

Report prepared on behalf of:
Allen Newport Limited

Report Date:
January 2024

This Noise Management Plan was prepared by PDE Consulting Limited
on behalf of Allen Newport Limited

Noise Management Plan – Version Log

Version No.	Version date	Description
Original	November 2020	Produced to support Environmental Permit Variation Application (EPR/ZP3497EW/V004).
V2	January 2024	Updated to include the ioperation of a soils washing plant.

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3	SENSITIVE RECEPTORS	4
4	MITIGATION MEASURES	5
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Table 1: Sensitive Receptor Locations	4
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FIGURES

Figure 1: Receptor Locations	4
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DRAWINGS

Drawing No. KD.CAV.067	Permit Boundary Plan	Scale: 1:10,000 @ A3
Drawing No KD.CAV.4.D.003	Proposed Site Layout	Scale 1:1,000 @ A3
Drawing No KD.CAV.4.D.004	Proposed Elevations	Scale varies @ A3
Drawing No KD.CAV.044	Phase 3 – Working and Restoration	Scale: 1:10,000 @ A3

APPENDICES

Appendix 1	Accident / Incident Report Form
Appendix 2	Complaint Form

1 INTRODUCTION

- 1.1 This Noise Management Plan (NMP) has been prepared by PDE Consulting Limited (the 'Agent') on behalf of Allen Newport Limited (the 'Operator'). This report relates to the management of noise during the operation of waste treatment and inert landfilling operations at Marston's Pit located off Cavenham Road in Tuddenham, Bury St Edmunds, Suffolk, IP28 6SE (the 'Site').
- 1.2 Marston's Pit is an active sand and gravel quarry located approximately 1 kilometre (km) to the east of the village of Tuddenham and 12 km to the northwest of Bury St Edmunds in Suffolk. The Site is centred at National Grid Reference (NGR) TL 76190 72020 and covers an area of some 51.30 hectares (Ha).
- 1.3 Environmental permit No EPR/ZP3497EW/V004 issued on 27 January 2022 authorises a tier 2 mining waste operation with an integrated water discharge activity, an inert landfill facility and a physical treatment facility. An application is being made to add a soils washing plant and to add new waste codes for landfilling and waste treatment. The proposed permit boundary can be seen on Drawing No. KD.CAV.067.
- 1.4 The Site is local in a rural setting and is bound by plantations and farmland. To the north of the Site is a former mineral working which has been restored to a lake feature to promote biodiversity. The majority of the Site is located within the Breckland Farmland Site of Special Scientific Interest (SSSI) and the Breckland Special Protection Area (SPA).
- 1.5 The closest residential receptor to the Site has been identified as Mill Farm House, which is located approximately 175m to the east of the permit boundary. There are two further residential properties within 530m of the Site (see Figure 1 and Table 2 for details).
- 1.6 This NMP has been produced in accordance with EA guidance document Integrated Pollution Prevention and Control (IPPC), Horizontal Guidance note for Noise, Part 2 - Noise Assessment and Control (version 3, June 2004).

2 OPERATIONS

- 2.1 A discharge consent was originally issued to the Operator on 20 February 1993. It was varied on 06 September 2011 to add a Tier 2 inert mining waste operation. Extractive wastes are identified as silt from the processing of sand and gravel only. The permit was varied again on 21 December 2017 (EPR/ZP3497EW/V003) to move the consented discharge point and to extend the boundary of the mining waste activity.
- 2.2 On 27 January 2022 the permit was varied (EPR/ZP3497EW/V004) to increase the permitted area and add a landfill activity. It is proposed that the operations to create the concept restoration landform will take place over a period of approximately twenty eight years and over five phases.
- 2.3 A recycling operation which was previously operated under a separate permit was also added to the consolidated permit. Currently recycling operations are limited to the physical treatment of wastes including manual and mechanical sorting/separation, screening and crushing.
- 2.4 Annual waste inputs are limited to 200,000 tonnes for disposal and 200,000 tonnes for treatment. There are no proposed changes to annual throughputs.

Proposed Development

- 2.5 Proposed waste activities include the addition of a soils washing plant. The location of the proposed new soils washing plant is shown on Drawing No. KD.CAV.4.D.003. The footprint and elevations of the proposed new soils washing plant are shown on Drawing No. KD.CAV.4.D.004. The new soils washing plant will be located on a concrete pad.
- 2.6 In accordance with Condition 6 of Planning Permission reference SCC/0064/20F, no waste operations shall be carried out outside the following times, other than with the prior written permission of the Mineral Planning Authority (MPA):
 - *Monday to Friday 0700-1800;*
 - *Saturday 0700-1300;*
 - *No working on Sundays and bank holidays.*

Potential Sources of Noise

- 2.7 Potential sources of noise associated with the activities undertaken at the Site include the soils washing plant, excavator and a loading shovel. Also dozers tipping wastes.

Conclusion of Noise Impact Assessment

- 2.8 A Noise Impact Assessment (NIA) was produced by WBM Acoustic Consultants in December 2023 in accordance with BS 4142:2014+A1:2019 to support the permit variation application.
- 2.9 The report sets out the findings of baseline noise surveys conducted in June, July and August 2023 at positions representative of the closest dwellings to the plant site including the two nearest locations for which Site noise limits are already in place.

2.10 The NIA concluded that:

“The comparison of the calculated noise levels arising from the operation of the site with the use of the soils wash plant has been compared to existing background and residual sound levels in the area and it is concluded that there will be no adverse impact arising from the proposed operations at the nearest residential receptors”.

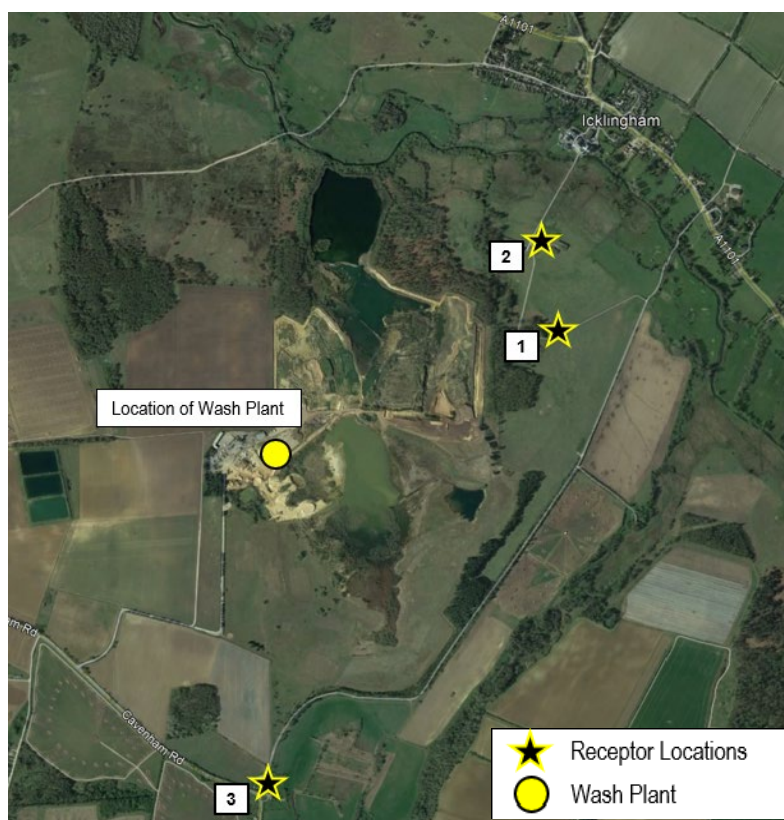
3 SENSITIVE RECEPTORS

- 3.1 The Site is located in a rural setting and is bound by plantations and farmland. To the north of the Site is a former mineral working which has been restored to a lake feature to promote biodiversity. The majority of the Site is located within the Breckland Farmland SSSI and the Breckland SPA.
- 3.2 Potentially noise sensitive receptors around 500 metres of the permit boundary are presented in Table 1 below and locations of each receptor can be found in Figure 1.

Table 1: Sensitive Receptor Locations

Receptor	Description	Direction from permit boundary	Distance from permit boundary (m)
Mill Farm House (1)	Residential/ commercial	East	175
The Hassocks (2)	Residential/ commercial	North east	350
Tuddenham House (3)	Residential	South East	530

Figure 1: Receptor Locations



4 MITIGATION MEASURES

4.1 The following good practise measures will be employed to mitigate against potential noise emissions from the proposed activities:

- Waste activities will be carried out in accordance with the conditions in the planning permission and environmental permit;
- Mature trees and hedgerows bound the Site to the north and east. The plantation to the east, between the Site and the nearest residential receptor, is at least 80m wide and will provide noise mitigation;
- Switching off plant and vehicles when not in use – no idling policy;
- All vehicles will comply with Site specific speed limits;
- A 3m high noise attenuation barrier is proposed on the eastern section of the permit boundary which will reduce noise travelling to The Hassocks and Mill Farm House (see Drawing No KD.CAV.044);
- In accordance with Condition 10 of Planning Permission reference SCC\0064\20F, silencers shall be fitted to, use and maintained in accordance with manufacturer's instructions on all vehicles, plant and machinery including dump trucks used on the site. No machinery shall be operated with the covers open or removed;
- In accordance with Condition 11 of Planning Permission reference SCC\0064\20F, all Site plant shall be fitted with broadband sound reversing alarms;
- Timing – only operating within the times specified in the planning permission (refer to paragraph 2.4); and
- Ensure regular maintenance of the access roads to repair pot holes which serves to significantly reduce noise generated from empty vehicles.

Noise Action Plan

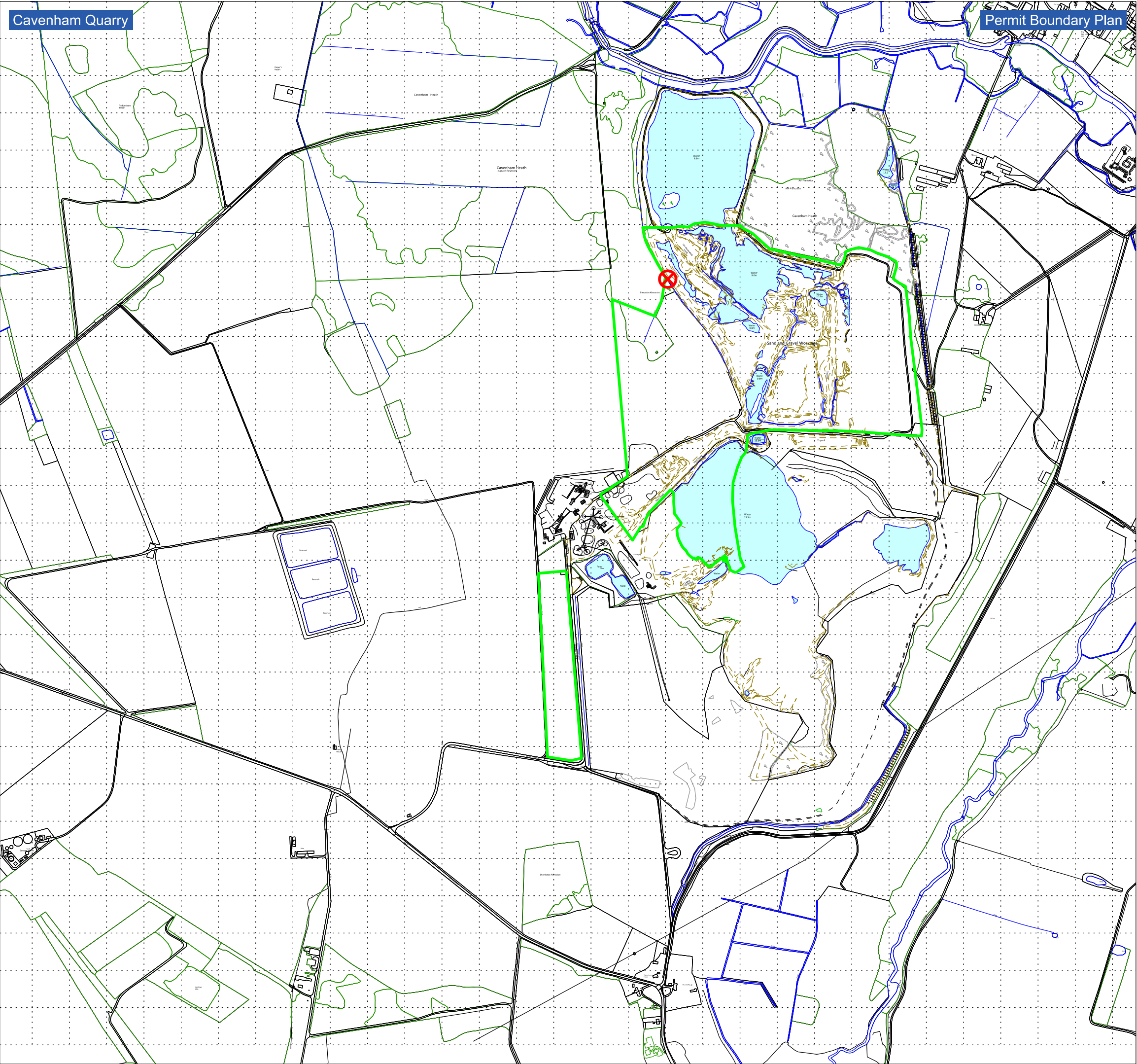
4.2 In the very unlikely event of a noise complaint, the following action plan will be followed:

- The complaint must be investigated fully and the source of the noise identified;
- Identified source(s) of the noise relating to the complaint will be ceased and/or additional mitigation provided;
- The Accident and Incident Record (Appendix 1 of this NMP) should be completed. Upon completion, this procedure ensures that the root cause has been identified; consideration has been given to prevent recurrence of root cause, the EA is notified if pollution has been caused and a written record exists;
- Once the source has been identified, mitigated and recorded, operations can be resumed;
- A record of the complaint together with the remediation actions and a completed Accident and Incident Record form will be kept on site; and
- A review of the site specific mitigation measures detailed above will be undertaken.

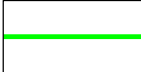
4.3 Any noise complaints will be thoroughly investigated and a complaint form (see Appendix 2) will be completed.

DRAWINGS

Permit Boundary Plan	Drawing No. KD.CAV.067	Scale: 1:10,000 @ A3
Drawing No KD.CAV.4.D.003	Proposed Site Layout	Scale 1:1,000 @ A3
Drawing No KD.CAV.4.D.004	Proposed Elevations	Scale varies @ A3
Drawing No KD.CAV.044	Phase 3 – Working and Restoration	Scale: 1:10,000 @ A3



Legend

-  Permit Boundary
-  Discharge Point



PROJECT
Cavenham Quarry

DRAWING TITLE
Permit Boundary Plan

DATE
December 2023

SCALE
1:10,000 @ A3

DRAWING No.
KD.CAV.067 v3

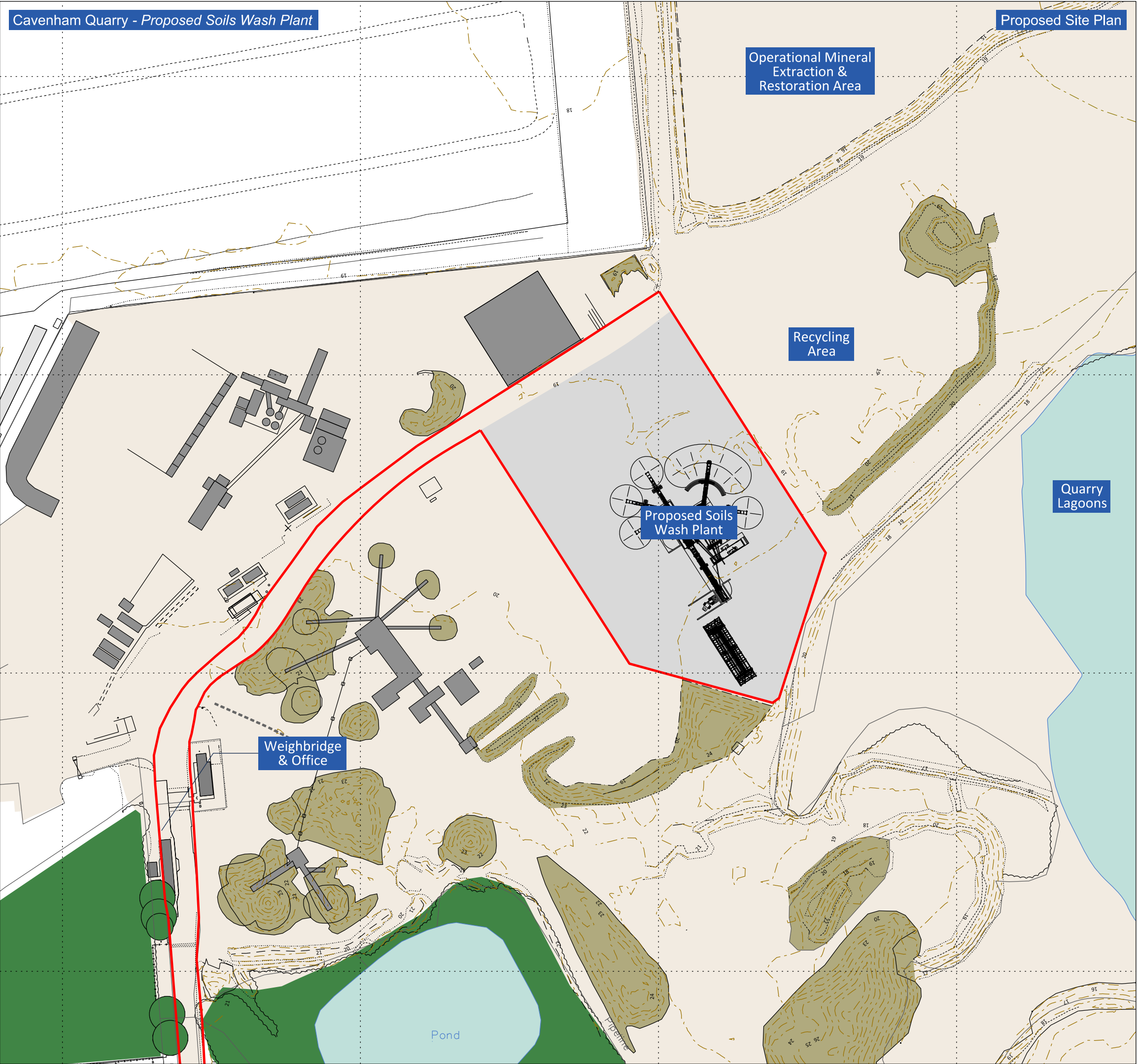
DRAWING STATUS
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Legend

- Application Boundary
- Buildings, Roads & Tracks
- Vegetation Structure
- Water Bodies & Courses
- Existing Hardstanding
- Proposed Area of Concrete
- Stockpiles
- Contours / Spot Heights (1m Intervals - mAOD)

pde. consulting
limited
chartered surveyors

PROJECT
Cavenham Quarry - Proposed Soils Wash Plant

DRAWING TITLE
Proposed Site Plan

DATE
December 2023

SCALE
1:1,000 @ A3

DRAWING No.
KD.CAV.4.D.003

DRAWING STATUS
FINAL

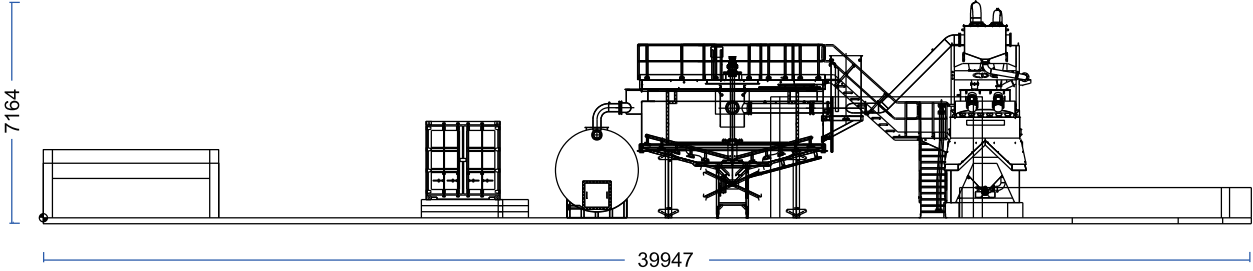


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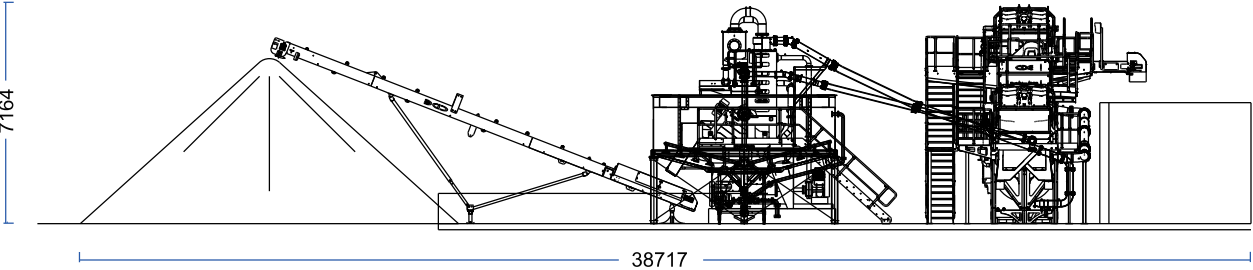
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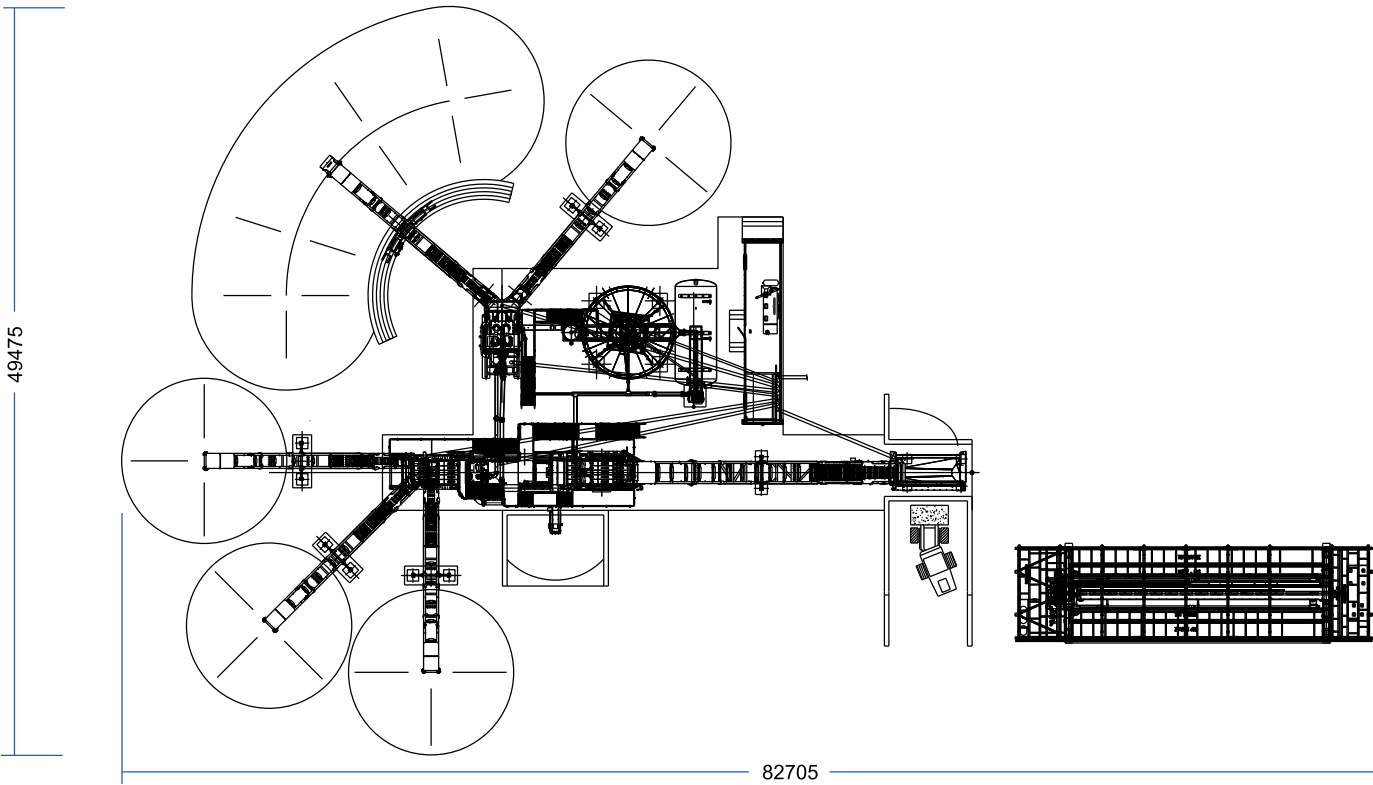
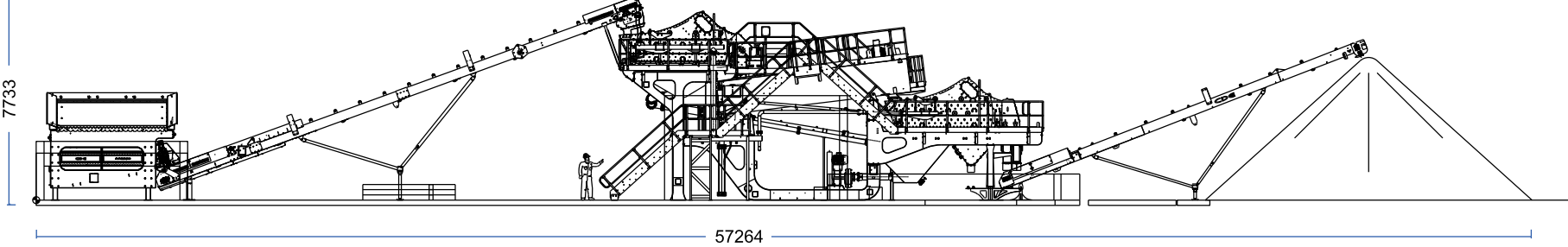
ELEVATION A (1:250@A3)



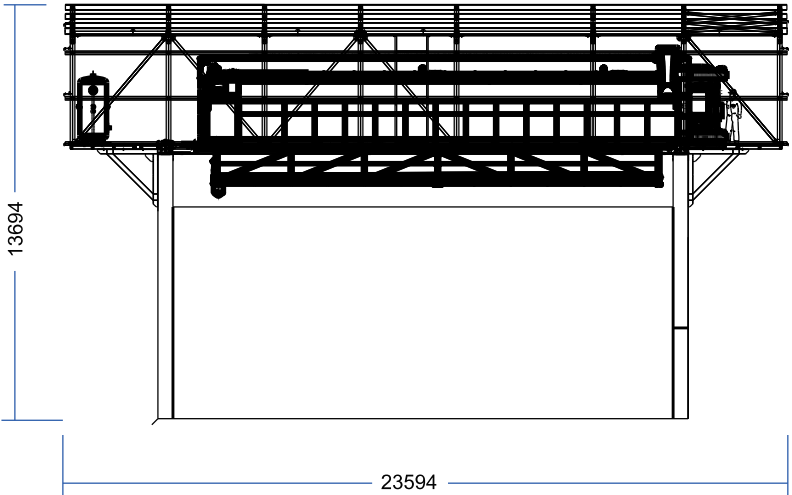
ELEVATION B (1:250@A3)



ELEVATION C (1:250@A3)



FOOTPRINT (1:500@A3)



ELEVATION D (1:500@A3)



PROJECT
Cavenham Quarry - Proposed Soils Wash Plant

DRAWING TITLE
Plant Elevations & Footprint

DATE
December 2023

SCALE
varies @ A3

DRAWING No.
KD.CAV.3.D.004

DRAWING STATUS
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Cavenham Quarry

Operations:

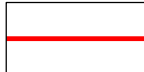
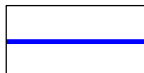
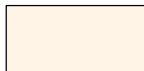
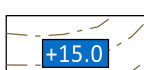
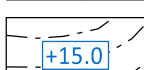
Progressive placement of imported inert materials to continue within the currently consented extraction area to achieve final restoration formation levels.

Utilisation of stored soils for final restoration of land subject to placement of inert materials in the previous phase.

All restored land within the application boundary to be subject to a 5 year aftercare management regime.

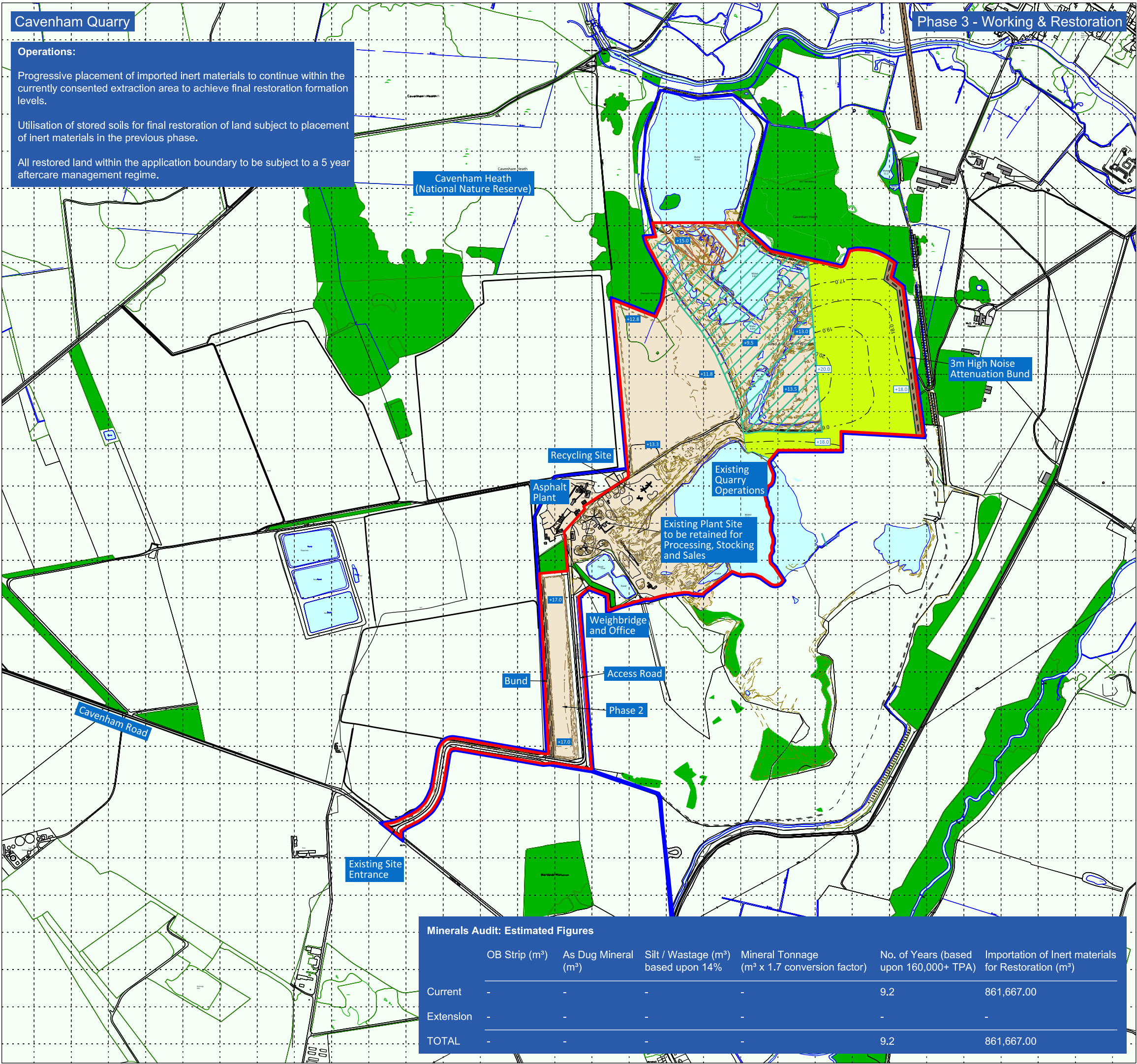
Phase 3 - Working & Restoration

Legend

- | | |
|---|---|
|  | Application Boundary |
|  | Land Under the Control of the Applicant |
|  | Operational Land / Land Awaiting the Placement of Inert Restoration Materials |
|  | Progressive Placement of Imported Inert Materials to Restoration Formation Levels combined with In-situ Soils / Fill Material |
|  | Area to be Constructed Using Indigenous Materials - Overburdens / Soils and Silt |
|  | Soil Storage / Screening Bund |
|  | Base of Extraction Contours / Spot Heights (m aOD) |
|  | Restoration Contours / Spot Heights (m aOD) |

Restoration Land Use Types

-  Conservation Grassland



Minerals Audit: Estimated Figures

	OB Strip (m³)	As Dug Mineral (m³)	Silt / Wastage (m³) based upon 14%	Mineral Tonnage (m³ x 1.7 conversion factor)	No. of Years (based upon 160,000+ TPA)	Importation of Inert materials for Restoration (m³)
Current	-	-	-	-	9.2	861,667.00
Extension	-	-	-	-	-	-
TOTAL	-	-	-	-	9.2	861,667.00



PROJECT

Cavenham Quarry

DRAWING TITLE

Phase 3 - Working & Restoration

DATE
June 2020

SCALE
1:10,000 @ A3

DRAWING No.
KD.CAV.044

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APPENDIX 1

Accident / Incident Record Form

Accident (and Incident) Record

Record of accidents, other incidents or near misses

Date and time of the incident	
What happened, what was it about?	
Was anyone else aware of this – other witnesses? If so who?	
What caused it?	
What have you done to make sure that it does not happen again?	
Was there any significant pollution or environmental damage to land, water or protected areas – for example: dust, odour or noise pollution outside the site or spillage of polluting liquids onto the ground, or at a site of special scientific interest, or into a drain or a watercourse? If so what?	
If there was, then you must take steps to prevent further damage and notify the Environment Agency on 0800 807060 and any other relevant regulators ASAP . Have you done so? Yes / No	Who did you phone? At what time did you phone?
You must also write or send an email to confirm this to the local office (see your accident management plan for the address) Have you done so?	Yes/No What date did you contact?
Please print your name and sign	

Continue on a separate sheet if you do not have enough room.

Keep the completed form in the file to discuss with your auditors or regulators when they visit.

APPENDIX 2

Complaint Form

COMPLAINT FORM

Customer Name:	Address:
Customer Contact:	

Complaint Ref. No.	Time and Date:
---------------------------	-----------------------

Complaint Description of Noise (hiss/hum/rumble/continuous/intermittent)
Any other previous known complaints relating to installation (all aspects, not just noise)
Potential noise sources that could give rise to the complaint
Action Taken
Signed: Date:

Investigation Details:	
Investigation by:	Position:
Times Start:	Finish:
Weather Conditions:	

Environment Agency Feedback:
Public Recommendation / Feedback

APPENDIX 10

Environmental Risk Assessment

Data and information				Judgement				Action (by permitting)	
Receptor	Source	Harm	Pathway	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Risk management	Residual risk
What is at risk? What do I wish to protect?	What is the agent or process with potential to cause harm?	What are the harmful consequences if things go wrong?	How might the receptor come into contact with the source?	How likely is this contact?	How severe will the consequences be if this occurs?	What is the overall magnitude of the risk?	On what did I base my judgement?	How can I best manage the risk to reduce the magnitude?	What is the magnitude of the risk after management?
Local human population	Releases of particulate matter (dusts) and micro-organisms (bioaerosols).	Harm to human health - respiratory irritation and illness.	Air transport then inhalation.	Low	Medium	Low	Permitted waste types are inert and non hazardous and have a low potential to produce bioaerosols, but the activities may produce some particulate matter. There is potential for increased dust generation during prolonged dry periods. The site is located within a rural setting and there nearest residential receptor is 160m away and not downwind of the prevailing wind direction. The very largest dust particles usually only travel 10m to 20m before being deposited and the vast majority of dust is deposited within 100m of the source.	The nearest residential receptor located 160m east of the site will be protected by a bund and existing trees which are a minimum of 80m thick. Refer to Dust Emissions Management Plan for dust mitigation measures. The nearest AQMA is over 13km away and is designated for NO2 only, not PM10.	Very low
Local human population	As above	Nuisance - dust on cars, clothing etc.	Air transport then deposition	Low	Low	Low	As above. Local residents often sensitive to dust, however, the nearest residential receptor is 160 m away from the site boundary.	As above	Very low
Local human population, livestock and wildlife.	Litter	Nuisance, loss of amenity and harm to animal health	Air transport then deposition	Low	Low	Low	Local residents often sensitive to litter, however permitted waste types have extremely low litter potential.	Control measures include litter picking affected areas and rejection of unsuitable waste loads.	Very low
Local human population	Waste, litter and mud on local roads	Nuisance, loss of amenity, road traffic accidents.	Vehicles entering and leaving site.	Medium	Medium	Medium	Road safety, local residents often sensitive to mud on roads.	As above. Control measures include clearing waste, litter and mud arising from the activities from affected areas outside the site. The long haul road will ensure residual mud drops off before vehicle reaches public highway. The washing plant and silt press will sit upon an impermeable concrete pad. The Site surfacing will allow easy cleaning and prevent wind- whipping.	Low
Local human population	Odour	Nuisance, loss of amenity	Air transport then inhalation.	Low	Low	Low	Local residents often sensitive to odour, however permitted waste types have extremely low odour potential.	Permit conditions require that emissions shall be free from odour. An odour management plan will be produced in the unlikely event that a problem develops.	Very low
Local human population	Noise and vibration	Nuisance, loss of amenity, loss of sleep.	Noise through the air and vibration through the ground.	Low	Medium	Medium	Local residents often sensitive to noise, however, the site is located in a rural setting with few residential receptors. The noise limits stated in the planning permission will be complied with.	A Noise Impact Assessment has been produced and a Noise Management Plan is in place for the operations.	Low
Local human population	Scavenging animals and scavenging birds	Harm to human health - from waste carried off site and faeces. Nuisance and loss of amenity.	Air transport and over land	Low	Medium	Low	Permitted wastes are extremely unlikely to attract scavenging animals and birds.	The permit requires that emissions of substances not controlled by emission limits (excluding odour and noise) shall not cause pollution.	Very low
Local human population	Pests (e.g. flies)	Harm to human health, nuisance, loss of amenity	Air transport and over land	Low	Medium	Low	Permitted waste types very unlikely to attract pests.	As above	Very low
Local human population and local environment	Flooding of site	If waste is washed off site it may contaminate buildings / gardens / natural habitats downstream.	Flood waters	Low	Low	Low	Permitted waste types are inert and non hazardous so any waste washed off site will add to the volume of the local post-flood clean up workload, rather than the hazard. Surface water receptors are absent.	The site is located in flood zone 1 (lowest risk).	Very low

Data and information				Judgement				Action (by permitting)	
Receptor	Source	Harm	Pathway	Probability of exposure	Consequence	Magnitude of risk	Justification for magnitude	Risk management	Residual risk
What is at risk? What do I wish to protect?	What is the agent or process with potential to cause harm?	What are the harmful consequences if things go wrong?	How might the receptor come into contact with the source?	How likely is this contact?	How severe will the consequences be if this occurs?	What is the overall magnitude of the risk?	On what did I base my judgement?	How can I best manage the risk to reduce the magnitude?	What is the magnitude of the risk after management?
Local human population and / or livestock after gaining unauthorised access to the waste operation	All on-site hazards: wastes; machinery and vehicles.	Bodily injury	Direct physical contact	Medium	Low	Low	Permitted waste types are inert and non hazardous therefore only a low magnitude risk is estimated	Remote location. Site security measures will prevent unauthorised access.	Low
Local human population and local environment.	Arson and / or vandalism causing the release of polluting materials to air (smoke or fumes), water or land.	Respiratory irritation, illness and nuisance to local population. Injury to staff, fire fighters or arsonists/ vandals. Pollution of water or land.	Air transport of smoke. Spillages and contaminated firewater by direct run-off from site and via surface water drains and ditches.	Medium	Low	Low	Permitted waste types are not combustible so only a low magnitude risk is estimated.	As above.	Low
Local human population and local environment	Accidental fire causing the release of polluting materials to air (smoke or fumes), water or land.	Respiratory irritation, illness and nuisance to local population. Injury to staff or fire fighters. Pollution of water or land.	As above.	Low	Low	Low	As above.	Permitted waste types are not flammable. Permitted activities do not include the burning of waste.	Low
All surface waters close to and downstream of site.	Spillage of liquids, leachate from waste, contaminated rainwater run-off from waste e.g. containing suspended solids.	Acute effects: oxygen depletion, fish kill and algal blooms	Direct run-off from site across ground surface, via surface water drains, ditches etc.	Low	Low	Low	As above re restricted waste types.	All potentially polluting liquids (e.g. fuel for site plant) shall be provided with secondary containment. Soils from potentially contaminated sites require testing. Silt from the soils washing plant will require testing to prove they are inert before they can be landfilled at the site.	Very low
All surface waters close to and downstream of site.	As above	Chronic effects: deterioration of water quality	As above. Indirect run-off via the soil layer	Low	Low	Low	Due to the nature of the permitted waste types any harm is likely to be temporary and reversible. Soils from potentially contaminated sites require analysis. No surface water receptors identified.	As above.	Very low
Abstraction from watercourse downstream of facility (for agricultural or potable use).	As above	Acute effects, closure of abstraction intakes.	Direct run-off from site across ground surface, via surface water drains, ditches etc. then abstraction.	Low	Low	Low	There will be no direct run off from the site.	As above.	Very low
Groundwater	As above	Chronic effects: contamination of groundwater, requiring treatment of water or closure of borehole.	Transport through soil/groundwater then extraction at borehole.	Low	Medium	Low	The landfill site will have a fully engineered artificial geological barrier on the base and to the full height of the side walls. The Site is not located within a groundwater source protection zone. Baseline groundwater monitoring has been undertaken and routine monitoring is undertaken in accordance with the permit. The soils wash plant will sit upon a concrete pad.	Refer to quantitative HRA which provides that the Site poses an acceptable risk. Compliance limits have been set for groundwater in the permit.	Low
Local human population	Contaminated waters used for recreational purposes	Harm to human health - skin damage or gastro-intestinal illness.	Direct contact or ingestion	Low	Medium	Low	Receptors not present.	Receptors not present.	Very low
Protected sites - European sites and SSSIs	Any	Harm to protected site through toxic contamination, nutrient enrichment, smothering, disturbance, predation etc.	Any	Medium	Medium	Medium	Waste operations may cause harm to and deterioration of nature conservation sites, however, the nature of the operation makes this unlikely.	The Site is located within the Breckland Farmland SSSI and SPA. The existing quarry has been operation for many years and the restored mineral working at Cavenham Quarry supports breeding stone curlews. Existing mitigation measures used in the wider quarry will be employed to ensure the impacts on the SSSI/ SPA remain negligible.	Low