



AFS Earthmoving & Aggregates LLP



Unit A, Racecourse Business Park, Dovefields, Uttoxeter, Staffordshire, ST14 8GB. Tel: 01889 562361 Email: info@afsearthmoving.com

Construction Environmental Management Plan

BOLSTERSTONE

MONEYSTONE PARK



Location information taken from Google Maps.

Page 1 of 17

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- 1. INTRODUCTION / LOCATION**
- 2. PROJECT DESCRIPTION / SCOPE**
- 3. KEY ORGANISATION & RESPONSIBILITIES**
- 4. CONSTRUCTION PROTECTION MEASURES**

Page 2 of 17

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1. INTRODUCTION / LOCATION

Page 3 of 17

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Moneystone Quarry is located off Eaves Lane in Whiston, Staffordshire. It is accessible via the A52 road. Eaves Lane is a single-track road with limited passing places for oncoming or outgoing vehicles. There are a number of overhanging trees, which would present issues for any vehicles 7.5 Tonne & over. However, this is the only access route available to the site.



This Construction Environmental Management Plan (CEMP) has been developed to detail the way the environmental impacts of the Moneystone Quarry works are to be minimized.

The CEMP is designed to ensure that the requirements of legislation & the contract are always complied with.

It will be the policy of AFS to execute the project in a manner that demonstrates its commitment to the care and protection of the environment.

The CEMP shall be approved by the Contracts Manager and passed to the Client. Any revisions to this plan shall be agreed and approved by AFS. The CEMP shall be a living document, which will be regularly reviewed to consider additional environmental information encountered during the construction phase. It will allow for the inclusion of any further conditions and amendments that arise from the granting of consents or the legitimate concerns of Third Parties.

All personnel and sub-contractors working on the project shall perform their duties in accordance with the requirements of the CEMP and relevant Method Statements, which also include environmental issues.

This CEMP provides a template for safeguarding wildlife during construction and has been written with reference to published guidance from the Chartered Institute of Ecology and Environmental Management (CIEEM) and Natural England guidelines for protected species.



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2. PROJECT DESCRIPTION / SCOPE

Page 5 of 17

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Planning permission has been granted by Staffordshire Moorlands District Council for the construction of a surface water outfall. The proposed outfall is located on the southeastern corner of the lake within Quarry 3 at Moneystone Quarry (SK 04128 46243).

The location of the outfall was agreed with Natural England during extensive consultation and following detailed hydrological modelling undertaken by JBA Consulting regarding the consented outfall location. The proposed outfall location includes an area within Whiston Eaves Site of Special Scientific Interest (SSSI). The SSSI is designated on the basis of habitats of value and the presence of bullhead within the associated streams.

The outfall construction will be a 35m long formed channel through the bedrock which will create a land bridge to the east of the existing outfall structure at the Sandstone. The cutting base / channel is to be 600mm wide and 500mm deep through the land bridge to match the stream bed within the SSSI. To maintain a lake level of 156m Above Ordnance Data. The channel base will be cut at 155.9m Above Ordnance Data throughout its length. Sandstone bedrock will form the base of the cut, with mudstone and residual soil forming the upper sections of the cut. Within the existing quarry area, the side of the cut is to be at a gradient of 1:3. To minimise the excavation within the SSSI the sides of the cut will be 1:1. To direct the outfall water flow downstream the southern end of the channel will be curved to the southwest.

Initial work will be undertaken to make good the access track from the quarry entrance to the Outfall Site. Areas of soft ground will be stripped back and filled with compacted aggregate cover to maintain clean trafficability throughout the contract. The topsoil will be excavated across the full length and width of the cut within the quarry area and stockpiled at a Site Engineer agreed location to the east. This location being at least 2m from the quarry / SSSI boundary and at least 5m from the excavation sides. The current level of the lake will be determined by the Site Engineer prior to the start of the earthworks. If Q3 lake levels are higher than 155.4m Above Ordnance Data, additional temporary works will be implemented.

As excavation works progress all excavated fill will be stockpiled along the existing access track within the redline area. All materials will be compacted in layers in accordance with current Specification for Highways requirements. At the end of each period of working the upper surface will be profiled and compacted (weatherproofed) such that all surface run-off drains to the Q3 lake and not towards the SSSI. On completion of the first phase of outfall excavation in the quarry area, the remaining excavated fill from the SSSI area will be prioritised for use to infill the temporary EA trench to the east of the original quarry outfall. The infill will be compacted in layers and the area profiled to the requirements set out by Natural England within Section 9 of the SMDC permission. Any surplus stockpile material will be removed and used to form a crest along the eastern access track to a natural form, as per Site Engineers requirements.

All management and stockpiling of materials in line with project specific requirements & consultation with relevant project stakeholders.

On completion of the works within the SSSI area, the Abbeydale Site Engineer will sign off the works, having first gained agreement with the Bowland Ecological Clerk of Works. The SSSI boundary will then be reinstated by the Contractor and the "Access Limit" fence also reinstated before further earthworks proceed. Then having completed the earthworks, all slopes will be trimmed and left bare with no topsoiling required.



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3. KEY ORGANISATION & RESPONSIBILITIES

Page 7 of 17

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AFS Contract Manager

Overall responsibility for ensuring that the project prepares and implements the CEMP together with Procedures and Method Statements and complies with all legislative and contract requirements & ensures that all environmental risks are controlled.

Ensure sufficient resources to plan, execute, and monitor environmental aspects of the contract and protect the environment.

Responsible for deciding appropriate actions resulting from AFS and client environmental audits, environmental incidents, and complaints.

Responsible for the management of relationships between AFS, external environmental organisations/agencies, the public and other relevant stakeholders.

The Site Agent will have overall responsibility for all aspects related to environmental issues and to ensure AFS' Environmental Policy and Objectives are upheld. Risk will be identified, and appropriate mitigation taken.

Promoting and communicating environmental issues to personnel and ensuring project staff are briefed on their responsibilities under the CEMP, Environmental Procedures and Method Statements.

Provision of environmental induction training and regular 'Tool-Box Talks' for all AFS personnel, Client personnel and sub-contractors.

Creation and implementation of an emergency response plan.

Reporting and investigation of all environmental incidents and reporting of all incidents as a non-conformance to the Contract Manager.

Regular liaison with the Foreman and briefings of site teams.

Establishment of adequate arrangements for the management of waste.

Establishment of adequate arrangements for the proper storage of fuel, oils, and lubricants on the site and provision of spill management equipment, training, and procedures.

Ensures that the AFS Environmental Policy is implemented through the requirements of the Integrated Management System (IMS).

Develops and reviews the Environmental Aspects Registers.

Co-ordinate the environmental monitoring and inspections.

Ensure that the work is carried out in accordance with the Materials Management Plan, the planning permission, and the ES.



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Monitors progress against the Objectives and Targets.

Produces, revises and monitors CEMP, ensuring updates are communicated.

Carries out internal audits to ensure compliance with all requirements.

Tests for compliance with relevant environmental legislation and other requirements.
Provide regular reports.

Review of proposed construction sequences and method statement.

Provide secondary checks on the design of temporary excavations.

Monitor construction activities to verify design assumptions during construction. Advises and inputs into the CEMP.

Develop and review Materials Management Plan (MMP)

AFS Site Manager

Ensure the project is constructed in accordance with Project Drawings, Contract and the environmental requirements stated in the CEMP.

Organisation of labour, plant, transport, and equipment to perform the work in accordance with the environmental requirements.

Responsible for ensuring all subcontractors are aware of AFS' Environmental Policy and the requirements of the CEMP, Procedures and Method Statements.

Implement the CEMP Environmental Procedures and Method Statements.

Implement agreed actions resulting from audits or inspections. Ensure these regular environmental inspections are undertaken and actions closed out in a timely manner.

AFS Operatives

Complying with the requirements of the IMS, method statements and risk assessments. To be trained in site specific emergency response procedures.

Ecologist/Ornithologist

By Bowland Ecology (To be discussed)

Geotechnical

By Abbeydale BEC (To be discussed)

Environmental Training & Awareness

All personnel and sub-contractors will receive environmental induction training.



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Site-specific topics (method statements, environmental risk assessment, etc.) will be addressed via team briefings and toolbox talks. No personnel, including subcontractors, will be permitted to commence employment on site without prior attendance at an induction training course.

Regular 'Tool-Box Talks' (TBTs) on specialised topics will supplement the induction training. Records of all TBTs and attendees will be recorded.

The training programme will promote the concept of individual environmental responsibility and demonstrate the importance of environmental protection together with outlining the operation, and covering Risk Assessments, Method Statements, and the CEMP.

It is intended that the programme will also be designed to provide the opportunity for feedback in terms of the workability of environmental procedures. The Site Manager will follow the AFS Tool-Box Talks programme and supplement it with TBTs that are relevant to the works programme at a given time.



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4. CONSTRUCTION MEASURES



Ecology



Site Protection Measures

All works will be supervised by the Ecological Clerk of Works and engineering site supervisor. Daily records of activities will be maintained throughout the construction and reinstatement period.

Prior, during and post works photographic records / daily inspection records will be maintained by Abbeydale BEC Site Engineer & Bowland Ecological Clerk of Works as evidence of the work carried out and will be provided to SMDC and Natural England.

Prior to starting work in the SSSI area each day the method of working and objectives will be agreed between the Earthworks Contractor Engineer, Abbeydale Site Engineer, and Bowland Ecological Clerk of Works.

Only hand excavation and a single tracked mini digger will be used when excavating within the SSSI area.



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The outline of the earthworks will be marked on the ground prior to site works starting. It will then be the Contractor's responsibility to maintain sufficient ground markers and slope profiles throughout the works including the agreed boundary of his working area.

A temporary "Access Limit" fence will be installed at least 1m from the existing Quarry/SSSI boundary, and no encroachment to the area beyond this will occur other than the marking out of the southern extent of the cutting under Ecological Clerk of Works supervision.

The fencing will be a high visibility – steel pin and netlon fencing to ensure that there will be no encroachment of works, plant, materials, soils within the SSSI and areas of adjacent woodland habitat. To limit the potential of silt migration a geotextile membrane will be installed at the Access Limit fence before the SSSI boundary to limit the migration of sand and coarser fragments from entering the SSSI. This will be maintained until all works are completed.

The works in the SSSI will be undertaken in a manner that does not require plant or labour to extend outside the red line boundary.

No over swinging of equipment, bucket arms or material beyond the red line boundary will be permitted. All temporary surfaces will be sloped and drained towards the quarry lakes away from the SSSI.

There will be no import of soils/materials to the SSSI.

No plant and machinery will be left or stored in the working area. An agreed area closer to the entrance of the quarry will be provided for a compound for storage, maintenance, and fuelling.

Pollution prevention control will be incorporated and include safeguards for spill prevention and run off during works.

Stockpiled material will only be placed in designated areas. At the end of each working period, newly placed stockpiles will be compacted (weatherproofed) to allow all run-off to drain towards the quarry lake.

The Site Engineer will check all working areas and will instruct where necessary reprofiling to drain towards the quarry lake.

No work will be permitted in heavy and continuous rain or where surface water continues to pond in working areas. The Site Supervisor / Ecological Clerk of Works will determine suitable dry conditions to Commence / continue work.

On completion of all works a meeting with the Earthworks Contractor, Abbeydale BEC Site Engineer, Natural England, Bowland Ecological Clerk of Works, and the Client's Representative will be arranged to undertake a final inspection to sign off the works undertaken.

The working area will be inspected in the subsequent growing season to ensure no non-native or undesirable plant species have established.

Appropriate management will be undertaken to remove any undesirable plant species that colonise following completion of the works.



Zone 1 & 4 – Trees and Shrubs

Tree and shrub removal will be avoided where possible. Trees including the coppice hazel stool (Cx) impacted alder (Ax) and impacted standing dead wood (Dx) as shown on the above image should either be avoided by micro-siting, or works must be undertaken with care to ensure that these features are retained. This will involve traditional management practices of re-coppicing of the coppice hazel stool and relocating these specimens to suitable locations on the embankment under the supervision of a suitably qualified ecologist. Mature deadwood, timber and any felled stems should be retained on site as habitat. All these works should be carried out under the supervision of a suitably qualified ecologist and with agreement from Natural England.

Zone 1, 3 & 4 – Nesting Birds

Prevention of the direct impact to Nesting Birds is required. Woody vegetation removal should be undertaken outside of the nesting bird season which runs from March to August. If this is not possible a pre-removal survey should be undertaken by a suitably qualified ecologist and vegetation only removed when declared free of nesting birds by the ecologist.

Zone 1 & 4 – Amphibians and Reptiles

Prevention of the direct impact to Amphibians and Reptiles is required. The proposed working areas are of very low value to amphibians. However, as a precaution an ecologist will check the area prior to works commencing and will remove any amphibians to suitable habitat outside of the working area. Ideally this work should not be carried out in the hibernation period (November-February).

Zone 4 – SSSI / Watercourse and Bullhead

Pollution prevention control should be incorporated and include safeguards for spill prevention and run off during works. The working area should be kept to a minimum with high viz pin and netlon fencing installed to prevent any plant access outside of the working area. Soils should be carefully removed and reinstated to pre-construction condition under the supervision of a suitably qualified ecologist. There will be no storage of plant/material within the SSSI at any time. Vehicle tracking within the SSSI should be kept to a minimum, light tracked machinery only to be used and protective matting in grassland areas. It is essential that biosecurity measures are employed throughout.

- Prior to works commencing all plant, equipment, PPE should be disinfected to prevent the spread of any pathogens into the tributary stream of the SSSI.
- Plant/machinery will be power washed off site and left to dry. Plant and machinery will be visually inspected to ensure that no soil or plant material is imported into the SSSI.
- An inspection of plant and machinery prior to use will be undertaken. This is to check that there are no leaks, and all plant and machinery are in good working order.

The working area should be inspected in the subsequent growing season to ensure no non-native or undesirable plant species have been established. Appropriate management will be undertaken to remove any undesirable plant species that colonise following completion of the works.

Works will be supervised by an ecologist to ensure all method statements and requirements are adhered to and that habitats are reinstated to pre-works condition. These measures should be incorporated into a detailed construction method statement to be approved by the Local Planning Authority and Natural England.



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Traffic Management

A bespoke Traffic Management plan would be developed as part of CDM regulations. However, please see below for proposed control measures.

Access to the site will be via the A52 road & Eaves Lane. Eaves lane is a narrow single-track road with limited passing places for oncoming or outgoing vehicles. There are a number of overhanging trees, which would present issues for any vehicles 7.5 Tonne & over. The site entrance is marked & has a 10mph speed limit. Site traffic will then turn on to a temporary haul road with a passing point. This will give access to the red line boundary & contain a turning circle. Access to the site will be from agreed access points only. All access will be gated, signed, and secured outside working hours to prevent unauthorised access. Appropriate signage will be used to indicate roads barred for construction traffic and approaches to the access points.

Mud on highways, tracks, accesses, and haul roads within and out of the site will be monitored throughout the works & controlled using road sweepers and the use of manual labour where required.

Speed limit of 10mph on site.

Site & welfare cabins will be located at the site entrance, outside of the watershed.

The site is restricted to the following operational hours:

Monday to Friday – 08:00 – 18:00

Saturday – 08:30 – 13:00

No work on Sundays or Bank Holidays without prior written approval from the Local Planning Authority.

Flooding

A bespoke Flood Contingency plan would be developed as part of CDM regulations. However, please see below for proposed control measures.

As part of the Flood Contingency Plan daily observations of the water level will be made, along with monitoring of predicted weather via EA and Met Office forecasts with the following information being logged.

- Forecast weather.
- Intensity of predicted storms.
- Potential impact of storms on water levels in the lake.
- Volume of storage remaining in the lake.
- Current activities taking place on the Site and within the works.

Dust

Daily visual dust inspection of site access roads and stockpiles.

Monitoring of weather conditions (dry and windy weather tends to lead to dust arising). Monitoring of access tracks to trigger damping down.



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Avoidance of potentially dust-generating activities during periods when wind direction may carry dust into sensitive areas will be undertaken. The storage of any loose materials that may be susceptible to wind will also be covered or screened and located away from the sensitive habitats if possible.

Noise

The best practice to minimise noise and vibration from the site will always be employed and special consideration shall be given to noise control on construction and open sites.

Care will be taken when loading and unloading vehicles to minimise noise.

Toolbox talks will be delivered to ensure that staff are aware of environmental responsibilities and sensitive receptors.

Regular noise checks of plant will be undertaken to ensure that vehicles are working efficiently.

Fuel / Liquids

Fuel is to be stored at the site entrance, outside of the watershed & in accordance with the Control of Pollution (Oil Storage (England Regulations 2001)

Fuel storage will be appropriately bunded and refueling activities will only take place in designated areas away from watercourses. Any drainage within a refueling area will incorporate an isolation facility such that the outlet could seal in the event of a spill.

Spill kits will be sited at convenient and regular locations, along with procedure and disposal information. They will also be stored in plant and fueling areas.

Toolbox talks and spill kit training to be provided.

Site compound and workings areas will be secured against illegal entry and vandalism.

Plant will be regularly inspected to avoid fuel leaks and potential pollution of watercourses.

Housekeeping

The condition of the road will be monitored throughout the working day.

General housekeeping checks of material and waste storage areas, silt fencing, fuel storage, sensitive area fencing, and hoardings will be undertaken on a regular basis and recorded.

Any potential failure of plant equipment will be covered by control measures incorporated in our standard operating procedures in sensitive areas. This will be included in a risk assessment. Potential spills, leaks, unplanned emissions, unplanned damage to the environment and other environmental incidents, such as sediment run-off from the working area will all be risk assessed & appropriate control measures arranged.

Waste Management



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A bespoke Site Waste Management Plan would be developed produced as a separate document and identifies where waste has been minimised, and resources reused.

AFS is a certified & registered waste carrier & only uses other registered carriers to carry waste. A waste transfer note is completed emphasizing our duty of care to only use registered waste carriers & waste disposal facilities. Regular inspections to see that waste is disposed of at the site listed on the Waste Transfer Notes will be made.

AFS will observe the waste hierarchy, identifying any materials which can be recycled, and opportunities will be taken, as practicable, to recycle relevant materials where a local market exists.

AFS will ensure that all audits, inspections, monitoring & associated record keeping are regularly undertaken.