

## Dust Management Plan

### Cockenzie Levelling Up Works

Balfour Beatty | Regional | Scotland

#### Version History

Version	Date	Summary of Change	Author	Approved by
01	01/05/2024	Draft for Comment	Clark Riddick	

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## 1. Purpose

A planning application is intended to be submitted to East Lothian Council (ELC), as Local Planning Authority (LPA) for planning permission for the formation of a developable platform on the site of the former Cockenzie Power Station and coal store. Permission is being sought to:

- remove the earthwork bunds around the former coal store site, including concrete structures to increase the developable area and improve access;
- form a temporary haul route and access to the B1348; and
- transport bund material from the former coal store site to infill the void that exists on the site of the former Cockenzie Power Station following its removal.
- re-grade the former coal store site with the remaining bund material.

It is intended that the above works will create a developable platform on the site of the former Cockenzie Power Station and coal store site upon which future development proposals that will facilitate economic growth, including net zero infrastructure and employment, can be constructed.

This Dust Management Plan relates to the Cockenzie Levelling Up Works project described above and identifies:

- The locations which are sensitive to potential dust issues from the works.
- The site activities with the potential to generate dust and the control methods which will be employed to minimise these.
- The monitoring methods to ensure the implementation and effectiveness of the control measures.
- The procedure for community liaison and communication relating to dust from the works.

The Dust Management Plan has been prepared using the information contained within the Air Quality Assessment by SLR Consulting that was conducted in February 2024.

## 2. Document Review and Issue

Review of the Dust Management Plan shall be carried out in conjunction with the review of the Project Sustainability Plan (CEMP), at intervals no greater than six months and following any significant changes to the project or findings of the monitoring which requires an update to the mitigation proposed here.

## 3. Specific Requirements

The project requires that a Dust Management Plan is prepared as per the Planning Condition outlined below:

“Prior to commencement of development the applicant shall submit a Dust Management Plan (DMP) to the planning authority for approval. The DMP shall identify all potential sources of dust and thereafter specify any mitigation measures considered necessary to protect local amenity from impacts of dust during the construction phase.”

## 4. Project Location and Sensitive Receptors

The site encompasses land to the North-West and South of the B1348 and West of the B6371 in Cockenzie. The site lies between the villages of Cockenzie, Prestonpans and Port Seton and the

site boundary adjoins the southern shores of the Firth of Forth. The site location is set out in Appendix 1.

The site of the former Cockenzie Power Station is located immediately West of the Edinburgh Road (B1348). The site is currently a void following the demolition of the power station and excavation works have been undertaken at the void to a depth of approximately 3.5m below surrounding ground level.

Ground preparation works are complete on the adjoining site to the South-West of the void of the former power station in preparation for the Inchcape substation construction.

The site of the former coal store is vacant with some light vegetation growth. The coal store is surrounded on four sides by earthwork bunds. The bunds vary in height from approximately 23m to 30m with the overall widths of the bunds varying between approximately 30 to 40m in the north, south and west bunds and 45 to 63m in the east bund. The North, West and South bunds contain a mixture of vegetation and sparse trees with further dense vegetation and trees to the South and West. Vegetation on the Eastern bund, particularly the outer wall of the bund is denser and contains a mixture of trees and vegetation.

There is an existing concrete tunnel and chamber system (associated with a previous coal conveyor system) within the Eastern section of the bund which is accessible via a gated entrance in the North-East point of the bund. This concrete structure would also require demolition and removal. An access route runs alongside the northern and eastern bund boundaries.

Land uses in the area surrounding and within the site boundary include residential properties to the North, North-East, South, and South-West and agricultural land to the East and South-East. There is an existing railway line, (associated with the delivery of coal to the former coal store) that has been partly dismantled to the south of the site. Agricultural land lies to the east and south of the site with a community orchard located to the west of the site.

The locations around Cockenzie site that are sensitive to dust emissions are in the following locations:

- Boatyard
- West Harbour Road
- Edinburgh Road
- Hawthorn Terrace
- Cedar Drive (east)
- Atholl View (west)
- Whin Park/Inglis Farm and The Chimneys to the north
- Adjacent residential roads to above
- Seton West Mains
- Preston Terrace
- Longdykes Road
- Preston Crescent
- High Street.
- Appin Drive.
- Nethershot Road.

## 5. Dust

SLR Consulting have completed an Air Quality Assessment for the project. This plan outlines the dust mitigation measures and monitoring that will be undertaken at the Cockenzie Levelling Up Works. The expected dust sources for these levelling up works are from:

- Demolition

The works associated with the proposed development includes the crushing of the existing concrete structures within the eastern bund of the former coal store site. The total building volume requiring demolition is estimated to be <math>20,000\text{m}^3</math> and the structure height is approximately 20m. However, given that the structures would be crushed onsite, a conservative dust emission magnitude for demolition has been considered as 'large'.

- Earthworks

The works associated with the proposed development includes levelling the bunds around the former coal store site. In addition, excavated material from the former coal store site bunds (up to approximately  $400,000\text{m}^3$ ) would be used to infill the void associated with the former Cockenzie Power Station. Approximately  $225,000\text{m}^3$  of the excavated material would be regraded over the coal yard to provide a level and developable platform. The total site area for the works is  $>10,000\text{m}^2$ . The dust emission magnitude for earthworks is therefore considered to be 'large'.

- Construction

The works associated with the proposed development includes the formation of a temporary haul route and access to the B1348 and the void associated with the former Cockenzie Power Station.

The total construction volume associated with the proposed development is predicted to be  $<25,000\text{m}^3$ . However, as a potentially dusty construction material would likely be used for the formation of the haul road (e.g. concrete), the dust emission magnitude for construction is considered to be 'medium'.

- Trackout

The works associated with the proposed development includes the transportation of material from the former coal store site to the former Cockenzie Power Station. The site vehicles would use the temporary haul route, which crosses the B1348, to move between the two aforementioned locations.

The number of predicted Heavy Duty Vehicle (HDV) movements in any one day, along the temporary haul route, would be  $>50$  during the works (a maximum of 268 HDV trips anticipated per day). The dust emission magnitude for trackout is therefore considered to be 'large'.

A summary of the potential dust emission magnitude for each of the activities is displayed in Table 5-1.

**Table 5-1: Potential Dust Emission Magnitude**

Activity	Dust Emission Magnitude
Demolition	Large
Earthworks	Large
Construction	Medium
Trackout	Large

## 5.1. Dust Control measures

Dust will be mitigated by adopting best practice measures in accordance with Institute of Air Quality Management (IAQM) guidance on the assessment of dust from demolition and construction.

Dust, emissions, and odours can cause nuisance to neighbours and may cause health risks at very high concentrations. The deposition of fugitive dust can also impact on the environment particularly where it settles on plants and trees. This section outlines the key requirements and responsibilities onsite.

The following mitigation measures will be adopted on site to reduce dust from the works:

- Access roads will be maintained to minimise the deposition of mud onto roads.
- Road sweepers will be used as required to maintain public roads.
- Lorries will be sheeted when entering/leaving the site
- Dampening down of works areas works as required.
- The burning of any materials on the site will not be permitted
- All static and mobile plant is to be routinely serviced and maintained
- Plant emitting black smoke from exhaust during normal operations will be immediately stopped and repaired.
- Plant will not be left with engines idling.
- Any noxious or unusual odours are to be investigated and where required appropriate measures put in place to control the odour.
- Ensure aggregates are stored in bunded areas and are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place
- Ensure effective water suppression is used during demolition operations. High volume water suppression systems, manually controlled, can produce fine water droplets that effectively bring the dust particles to the ground.
- Explosives will not be used.
- During earthworks only remove the cover in small areas during work and not all at once.
- Undertake daily on-site and off-site inspection, where receptors (including roads) are nearby, to monitor dust, record inspection results, and make the log available to the local authority when asked. This should include regular dust soiling checks of surfaces such as street furniture, cars and window sills within 100m of site boundary, with cleaning to be provided if necessary.

- Carry out regular site inspections to monitor compliance with the Dust Management Plan, record inspection results, and make an inspection log available to the local authority when asked.
- Increase the frequency of site inspections by the person accountable for air quality and dust issues on site when activities with a high potential to produce dust are being carried out and during prolonged dry or windy conditions.
- Ensure all vehicles switch off engines when stationary - no idling vehicles.
- Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where practicable.
- Impose and signpost a maximum-speed-limit of 15mph on surfaced and 10mph on unsurfaced haul roads and work areas.
- Only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, e.g. suitable local exhaust ventilation systems.
- Ensure an adequate water supply on the site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible and appropriate.
- Use enclosed chutes and conveyors and covered skips.
- Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate.
- Ensure equipment is readily available on site to clean any dry spillages and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods.
- Site layout will be planned so that machinery and dust causing activities are located away from receptors, as far as is possible.
- Erect solid screens or barriers around dusty activities or the site boundary that are at least as high as any stockpiles on site.
- Fully enclose site or specific operations where there is a high potential for dust production and the site is active for an extensive period.
- Avoid site runoff of water or mud.
- Keep site fencing, barriers and scaffolding clean using wet methods.
- Remove materials that have a potential to produce dust from site as soon as possible, unless being re-used on site. If they are being re-used on-site cover as described below.
- Cover, seed or fence stockpiles to prevent wind whipping.
- 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.
- Make the complaints log available to the local authority when asked.
- Record any exceptional incidents that cause dust and/or air emissions, either on- or offsite, and the action taken to resolve the situation in the logbook.
- Hold regular liaison meetings with other high risk construction sites within 500m of the site boundary, to ensure plans are co-ordinated and dust and particulate matter emissions are minimised. It is important to understand the interactions of the off-site transport deliveries which might be using the same strategic road network routes.

- Use water-assisted dust sweeper(s) on the access and local roads, to remove, as necessary, any material tracked out of the site. This may require the sweeper being continuously in use.
- Avoid dry sweeping of large areas.
- Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport.
- Inspect on-site haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable.
- Record all inspections of haul routes and any subsequent action in a site logbook.
- Implement a wheel washing system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable).
- Ensure there is an adequate area of hard surfaced road between the wheel wash facility and the site exit, wherever site size and layout permits.
- Access gates to be located at least 10m from receptors where possible.
- No onsite burning of materials.
- Avoid scabbling (roughening of concrete surfaces) if possible.
- Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overflowing during delivery.
- For smaller supplies of fine power materials ensure bags are sealed after use and stored appropriately to prevent dust.

## 5.2. Dust Monitoring

The overall risk of dust impact from this project is considered 'not significant' after mitigation has been implemented as described by the SLR Air Quality Assessment. The project will undertake visual monitoring twice a day on the works locations to assess the levels of dust being generated and to check that the suitable mitigation is in place. Visual inspections will be recorded and these inspection records will be made available to the Client upon request. The Dust Monitoring Record is included as Appendix 3. If there are persistent dust problems, there will be discussion undertaken with East Lothian Council as to what dust monitoring is required. It will be agreed if dust deposition, dust flux, or real-time PM10 continuous monitoring is required and what the locations of this monitoring will be. If dust monitoring is required the dust monitoring locations will be included as Appendix 4 (if applicable).

## 6. Consultation, Liaison and Communication

Regular community liaison and communication will be planned in conjunction with Client via the following formats:

- Introductory Letter prior to works starting on site
- Community meetings
- Develop and implement a stakeholder communications plan that includes community engagement before work commences on site.
- Display the name and contact details of person(s) accountable for air quality and dust issues on the site boundary. This may be the Environment Manager or the Project Manager.
- Display the head or regional office contact information.
- Develop and implement a Dust Management Plan (DMP), which may include measures to control other emissions, approved by the local authority.



All site workers and staff will receive environmental training as part of the project induction prior to starting works on the project. Task specific control measures for controlling dust will be included on task briefing sheets and briefed out to those working on that activity each morning before works begin.

## 7. Complaints Procedure

Any complaints will be managed in accordance with [HSES-PR-0010 Communication and Consultation.docx \(sharepoint.com\)](#). All complaints will be logged on a [HSES-SF-0010a Project Communication Record.docx \(sharepoint.com\)](#) and saved on the project SharePoint. A copy of this form is attached as Appendix 2. All complaints will be investigated thoroughly with the aim of responding to complainers within 24 hours of the complaint being raised.

## Appendix 1: Project Location

## Appendix 2: Complaints Form

**Balfour Beatty**

Project Communication Record  
Standard Form: HSES-SF-0010a

1. Details of the Person Making the Enquiry / Complaint			
Title		First Name	
Surname		Company	
Address		Town/City	
		Postcode	
Telephone		Mobile	
E-mail			
2. Details of how the Enquiry / Complaint was Received			
Date enquiry or complaint was received			
How enquiry or complaint was received (circle as appropriate)	Verbal	E-mail	Fax
	Letter	Phone	Online
	Other (please detail)		
3. Details of Enquiry / Complaint (record as much detail as possible, including any information already provided to the person making the enquiry or complaint)			
4. Follow up Action Required			
Action	Person	Action Date	Date Closed
5. Person taking the Enquiry / Complaint			
Name		Phone Number	
Work address / Location			
Contractors on site			
Work being carried out			

Once completed, record the summary in iSMS and file this document if required.

## Appendix 3: Dust Monitoring Record

**Balfour Beatty**

Dust Monitoring Record  
Standard Form

### 1.0 SITE INFORMATION

Contract Name:	Cockenzie Levelling Up Works	Contract Number:	TBC
Site Name:	Cockenzie Levelling Up Works	AQMA (Y/N)	No
Site Address:	Cockenzie, East Lothian		
Description of Works:	<ul style="list-style-type: none"> <li>form a temporary haul route from the north-west corner of the former coal store to the B1348 and a temporary access to the B1348 on both its north and south sides;</li> <li>remove the earthwork bunds around the former coal store site, including concrete structures and rail infrastructure on, within and around the coal store site and earthwork bunds</li> <li>transport bund material from the former coal store site to infill the void that exists on the site of the former Cockenzie Power Station following its removal; and</li> <li>re-grade the former coal store site with the remaining bund material.</li> </ul>		

### 2.0 PROGRAMME AND MONITORING

The following table should be used to enter details of visual details of dust being generated at the site operations. Dates, times, locations, activity, dust level (Low, Medium or High) and actions shall be recorded as a minimum twice a day throughout the works.

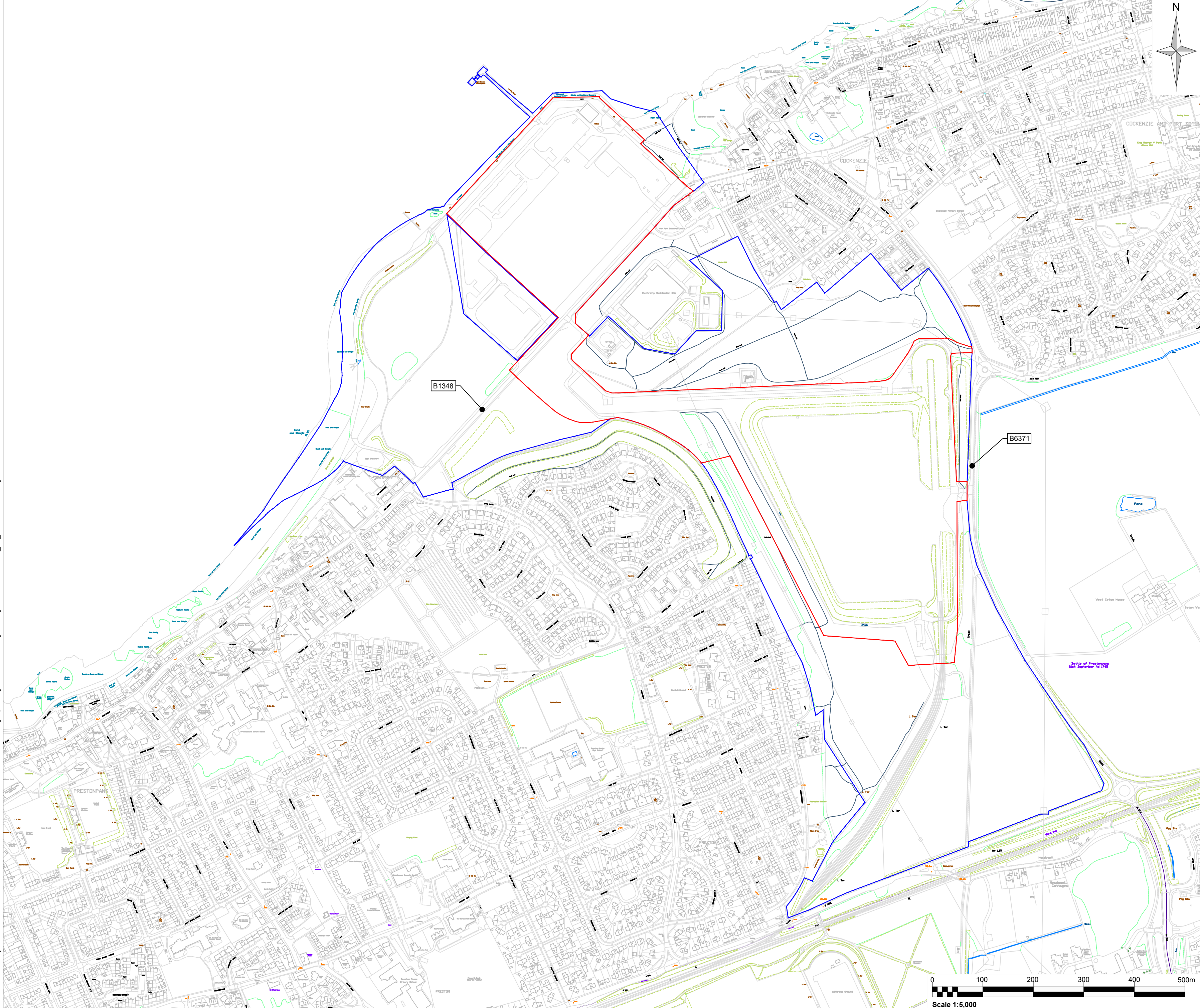
Date	Time	Location	Activity	Dust Level (High/Med/Low)	Actions Taken	Assessor Name
26/06/2024	09:15	Eg. Coal store	Earthworks	High	Damp down works area	A. Nother

## Appendix 4: Dust Monitoring Locations (if applicable)



26/02/2024

\\slr\ediffs-e\Projects\00638 East Lothian Council\405.064926.00001 - Cockenzie Levelling Up Design\Tech\CSE\Dwg\Wking\CLUW-PLAN-001\_P0\_Site Location.dwg



**Notes:**

**Legend:**

- Site boundary
- Land where the applicant has ownership or beneficial interest

P0	Initial Issue	01/24	LB	LD	
Rev	Amendments	Date	By	Chk	Auth



[www.slrconsulting.com](http://www.slrconsulting.com)

Drawing Status & Suitability Code

Client  
East Lothian Council

Project  
Cockenzie Levelling Up

Drawing Title  
Site Location

Scale 1:5,000	@ A2	SLR Project No. 405.064926.00001
Designed N/A	Drawn LB	Checked LD
Date N/A	Date 01/2024	Date 01/2024

Drawing Number  
**CLUW-PLAN-001**

Rev.  
**P0**



1. Details of the Person Making the Enquiry / Complaint			
Title		First Name	
Surname		Company	
Address		Town/City	
		Postcode	
Telephone		Mobile	
E-mail			
2. Details of how the Enquiry / Complaint was Received			
Date enquiry or complaint was received			
How enquiry or complaint was received (circle as appropriate)	Verbal	E-mail	Fax
	Letter	Phone	Online
	Other (please detail)		
3. Details of Enquiry / Complaint (record as much detail as possible, including any information already provided to the person making the enquiry or complaint)			
4. Follow up Action Required			
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Work address / Location			
Contractors on site			
Work being carried out			

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### 1.0 SITE INFORMATION

<b>Contract Name:</b>	Cockenzie Levelling Up Works	<b>Contract Number:</b>	TBC
<b>Site Name:</b>	Cockenzie Levelling Up Works	<b>AQMA (Y/N)</b>	No
<b>Site Address:</b>	Cockenzie, East Lothian		
<b>Description of Works:</b>	<ul style="list-style-type: none"> <li>• form a temporary haul route from the north-west corner of the former coal store to the B1348 and a temporary access to the B1348 on both its north and south sides;</li> <li>• remove the earthwork bunds around the former coal store site, including concrete structures and rail infrastructure on, within and around the coal store site and earthwork bunds</li> <li>• transport bund material from the former coal store site to infill the void that exists on the site of the former Cockenzie Power Station following its removal; and</li> <li>• re-grade the former coal store site with the remaining bund material.</li> </ul>		

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Date	Time	Location	Activity	Dust Level (High/Med/Low)	Actions Taken	Assessor Name
26/06/2024	09:15	Eg. Coal store	Earthworks	High	Damp down works area	A. Nother



