

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme
Project Number:	E24-096

Project Details

Project Description:	The project is the 'Kinmel Bay Coastal and Environmental Improvements' and involves raising the level of the existing sea wall, provision of new beach access points, upgrading two existing flood gates, and enhancing and extending rock armour to protect the residential and commercial properties, including critical infrastructure, along this section of coastline. The works also include enhancements to amenities such as increasing the size of the Kinmel Beach Car Park including new toilets, providing bench seating, play areas, bicycle stands, bicycle charging points and other similar such items.
Project Location:	St Asaph Carpark, Promenade, Kinmel Bay, LL18 5NL

Plan Approvals

Written by:	Name: Kira Lawton	Signature: Klawton	Date:	16/05/2024
Approved by:	Name: Dafydd Elis	Signature: D Elis	Date:	16/05/2024

Explanatory Notes:-

Origination: Tender phase origination resides with the Project Manager. Construction Phase update will be the responsibility of the Site Manager.

Approval: Tender phase approval resides with the Contracts Manager or Regional Director. Construction Phase approval will be the responsibility of the Project Manager.

Revision: The plan will be revised to reflect changes that have been made to the product, project or contract, work practices, service provision or Quality Assurance procedures. Where changes are made to the plan an assessment of the impacts of the changes will be carried out and recorded in the Version Control section below.

Version Control

Description of changes	Date	Revision	Page No.	Comments

Explanatory Notes:-

This Project Management Plan will be added to, reviewed and updated as the project develops, further design work is completed, information from subcontractors starting work becomes available, unforeseen circumstances or variations to planned circumstances arise or where the operations management team deem it is necessary.

If sections are deemed not applicable **DO NOT DELETE**. Replace text with "not applicable on this project".

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme	
Project Number:	E24-096	
CONTENT		
Section Ref	Content	Comments
	INTRODUCTION	
1.0	PROJECT DETAILS	
1.1	Project Organisation and Resource	
1.2	Scope of Works	
1.3	Project Timescale	
2.0	OBJECTIVES	
3.0	LEGAL AND CONTRACTUAL ENVIRONMENT	
4.0	COMMUNICATION AND CONSULTATION	
4.1	Liaison with Client and Designers	
4.2	Regulatory Agencies	
4.3	Public Relations	
5.0	CONSENTS PERMITS AND LICENCES	
6.0	ENVIRONMENTAL RISKS AND MITIGATION	
7.0	MANAGEMENT CONTROLS	
7.1	Incident Reporting and Investigation	
7.2	Communication and Consultation	
7.3	Ecology	
7.4	Hazardous Materials incorporating COSHH	
7.5	Housekeeping and Safe Access	
7.6	Land Use Management	
7.7	Nuisance Management	
7.8	Resource Management	
7.9	Waste Management	
7.10	Water Management	
7.11	Storage	
7.12	Fuelling	
7.13	Site Security	
8.0	EMERGENCY PREPAREDNESS AND RESPONSE	
8.1	Arrangements for Reporting Significant Environmental Incidents	
8.2	Arrangements for Reporting Minor Environmental Incidents	
9.0	MONITORING AND MEASURING PERFORMANCE	
10.0	ENERGY MANAGEMENT (EM)	
11.0	TRAINING, AWARENESS AND COMPETENCY	
12.0	RECORD REFERENCING MATRIX	
13.0	FURTHER GUIDANCE	
Explanatory Notes:-		



CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme
Project Number:	E24-096
Introduction CEMP	
(a) Jones Bros operates a Business Management System (BMS) accredited to ISO14001 Environmental Management and ISO50001 Energy Management. All works conducted on this site are conducted in accordance with the processes contained within the BMS. (b) This plan is mandated as part of the Jones Bros BMS and is therefore required to be in place and kept up to date through the project. (c) This Construction Environmental Management Plan (CEMP) has been developed to identify and manage the environmental risks associated with this project and is a fundamental requirement of the Jones Bros BMS. (d) Jones Bros recognises the Environmental benefits of improved environmental performance as: - i) Reduced damage to our natural environment; ii) Reduced demand for natural resources and iii) Reduced disturbance to our neighbours. (e) The company also recognises the economic benefits of improved environmental performance and recognises that, "Preventing pollution is cheaper than curing it". (f) We aim to reduce the provision of generic information and to only provide in this Plan and all other associated plans project specific information that should help with the communication and risk management of this project. Other non-project specific information referenced in this plan will be clearly identified with the location where it is available. If there is a need to review these documents they will be provided on request.	
Explanatory Notes:-	
The following information has been included here to emphasise its environmental importance. It is repeated in specific Method Statements elsewhere where relevant. This document may also refer to specific Method Statements where further details may be found and the appropriate reference should be made.	

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme
Project Number:	E24-096
SECTION 1 CEMP	PROJECT DETAILS Back to Content

1.1) Project Organisation and Resource CEMP

(a) Agreed responsibilities for key roles are outlined in the BMS. Specific duties and responsibilities are also identified in associated plans and process maps held in the Jones Bros BMS and where appropriate referenced throughout this plan.

(b) Specific Project Environmental Responsibilities for this project have been defined and are allocated in accordance with the Project Appointment Process

PFC033 - Project Start UP & Commercial Review(S)

Appointments are documented on the Project Appointment Matrix and relevant specialist appointment letters.

(c) A copy of the appointments is displayed on the project notice board and it shall be signed by all persons who have been allocated specific responsibilities on this project.

(d) Appointments will be reviewed and updated throughout the project, reflecting any changes or movement in the project as required. Changes in appointments will be administered through and recorded in this Project plan workbook

Role	Name	Company	Address	E-mail	Telephone
Client	Owen Conry	CCBC	Coed Pella, Conwy Road, Colwyn Bay, Clwyd, LL29 7AW	Owen.conry@conwy.gov.uk	TBC
Client Contract Admin	Morgan Lloyd	CCBC	Coed Pella, Conwy Road, Colwyn Bay, Clwyd, LL29 7AW	morgan.lloyd@conwy.gov.uk	01492 574677
Principal Designer	Philip Shields	Amey Consulting	RUSHMERE HOUSE, , CADOGAN PARK., BELFAST, NON - GB, BT6 6HH	Philip.Shields@amey.co.uk	07809543610
Designer	David Potts	JBA Consulting	35 Perrymount Road, Haywards Heath, West Sussex, RH16 3BW	David.Potts@jbaconsulting.com	01444 509 054
Director	Geraint Thomas	Jones Bros. Ruthin (Civil Engineering) Co. Ltd	Jones Bros. Ruthin (Civil Engineering) Co. Ltd Ty Glyn, Canol Y Dre, Ruthin, Denbighshire LL15 1QW	Geraint@jones-bros.com	07787 100750
Contracts Manager	Dafydd Elis	Jones Bros. Ruthin (Civil Engineering) Co. Ltd	Jones Bros. Ruthin (Civil Engineering) Co. Ltd Ty Glyn, Canol Y Dre, Ruthin, Denbighshire LL15 1QW	dafydd@jones-bros.com	07787 100765
Project Manager	Sam Roberts	Jones Bros. Ruthin (Civil Engineering) Co. Ltd	Jones Bros. Ruthin (Civil Engineering) Co. Ltd Ty Glyn, Canol Y Dre, Ruthin, Denbighshire LL15 1QW	sam@jones-bros.com	07787 100758
Senior Works Manager	Gareth Jones (Ginny)	Jones Bros. Ruthin (Civil Engineering) Co. Ltd	Jones Bros. Ruthin (Civil Engineering) Co. Ltd Ty Glyn, Canol Y Dre, Ruthin, Denbighshire LL15 1QW	garethm@jones-bros.com	07867379467
Environment Manager	Kira Lawton	Jones Bros. Ruthin (Civil Engineering) Co. Ltd	Jones Bros. Ruthin (Civil Engineering) Co. Ltd Ty Glyn, Canol Y Dre, Ruthin, Denbighshire LL15 1QW	kira.lawton@jones-bros.com	*07462023062
CSR Co-ordinator	Gareth Jones (Ginny)	Jones Bros. Ruthin (Civil Engineering) Co. Ltd	Jones Bros. Ruthin (Civil Engineering) Co. Ltd Ty Glyn, Canol Y Dre, Ruthin, Denbighshire LL15 1QW	garethm@jones-bros.com	07867379467



CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme
Project Number:	E24-096

1.2) Scope of Works CEMP

The project is entitled 'Kinmel Bay Coastal Defence Improvement Scheme' and consists of works to the existing flood defences:

Sea side works:

- Raising the level of the existing sea wall
- Replacing the flood gate
- Extending rock armour
- Beach access entrance outside the Frothy Coffee Café will be extended by 1m either side.
- Access Track will be installed alongside the wall on the beach to allow access for works vehicles and plant.

Land Side Works:

- Enhancement of the areas of existing coastal grassland
- A proposed parklet (a small seating area) at the eastern end of the Town revetment. The parklet will comprise of lounging seats, picnic tables, decorative paving, and cycle parking.
- Improvement will be made to the existing access points adjacent to the Golden Sands Caravan Park.

1.3) Project Timescale CEMP

Contract Award Date	08/02/2024	Commissioning Start	TBC
Contract Commencement Date	15/02/2024	Practical Completion	21/01/2026
Contract Period	103 weeks	Take Over Certificate	TBC
Site Start Date	02/09/2024	Planned Contract Completion	{25/01/2026}

SECTION 2 CEMP	OBJECTIVES	Back to Content
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(a) The Site Management Team has considered the identified project environmental risks and defined the following environmentally related objectives and targets.

No.	Objective	Target	Responsibility	Completion Date
1	Ecological enhancements to the rock armour such as creating a textured surface to encourage the growth of marine invertebrates.		Jones Bros	
2	Where possible, the existing rock armour will be reused and repurposed.		Jones Bros	
3	Zero Pollution		Jones Bros	
4	Minimal Disturbance to the Community		Jones Bros	
5	Minimal disturbance to wildlife		Jones Bros	

(b) The Site Management Team will ensure that progress is periodically reviewed as part of the monthly Site HSE Review meetings.

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme
Project Number:	E24-096

SECTION 3 CEMP LEGAL AND CONTRACTUAL ENVIRONMENT [Back to Content](#)

(a) Jones Bros maintains access to applicable environmental legal requirements, which details all environmental legislation applicable to the environmental risks associated with this project and the Company's general activities.

(c) The other main requirements applicable to this project are:

Client's Environmental Policy Statement; Industry Best Practice Standards regarding environment; Environmental Good Practice Guide; C650; CIRIA (2005); Control of water Pollution from Linear Construction Projects – Technical Guidance; C648; CIRIA (2006)

(b) Further support and guidance concerning environmental legislative requirements can be obtained from:-

Name:	Kira Lawton	Telephone No:	07766 747133
Qualifications:	GradIEMA, GradCIWEM	Frequency of Visits:	2 weekly

SECTION 4 CEMP COMMUNICATION AND CONSULTATION [Back to Content](#)

4.1 Liaison with Client and Designers

In regular meetings with the client and designers environmental issues affecting the design will be raised and discussed. Alternative approaches and alterations to the design may be required where environmental improvements can be achieved and these will be discussed and agreed with the client and designers as the works proceed.

4.2 Regulatory Agencies

The following table sets out the Regulators likely to be involved in the project and their responsibility (this is not an exhaustive list):

Regulator	Responsibility
Local Authority	Noise, Air Quality, Traffic, Nuisance, Traffic
National Resources Wales	Discharge to watercourses, Waste Treatment & Disposal, Effluent Discharge, Abstraction Licences, Marine licencing
Water Utilities	Foul Water Discharge to Sewer, Standpipe Use & Licences
Special Interest Groups	Ecological Interest
Local Archaeological Trusts	Archaeological Interest
Health and Safety Executive	Health and Safety Issues

4.3 Public Relations

Jones Bros recognises that in order to complete the project with the minimum of disturbance to neighbours, good public relations is vital. Project specific arrangements are considered when planning specific tasks and construction activities, which will be included in relevant method statements. However, the following arrangements have been implemented on this project:- (Please delete or add below)

- (a) Visit occupants of particularly sensitive buildings and keep them informed of progress.
- (b) Prepare a leaflet and distribute it to nearby residents or occupiers. Provide updates.
- (c) Identify key local community representatives, such as parish councillors and keep them informed.
- (d) Write articles about the progress on site in the local press.
- (e) Display a contact board at the site perimeter so that the public know who to contact if they have a complaint or a comment to make. Use this board to display information on the phasing and other relevant matters.
- (f) Establish a complaint line and check that it works by calling it.
- (g) When complaints arise deal with them quickly and in accordance with a defined complaints procedure. Create a log of complaints. Jones Bros complaint process is as defined in [PFC006 Non-Conformances and Corrective Actions](#).
- (h) Consider providing a position so that passers-by can observe activities on site.
- (i) Be able to identify your neighbours and understand their views.

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme		
Project Number:	E24-096		
SECTION 5 CEMP	CONSENT, PERMITS AND LICENCES		Back to Content
(a) The need for any environmental legislative consents, permits and / or licences and exemptions relating to work associated with this Project has been identified during the environmental risk assessment process PFC059 - Site Set Up & Maintenance - Environmental EN-f-024 - Environmental Aspects and Impacts Risk Assessment (b) A register of those required on this project is located in the Project Filing Structure {Document Store\07 Project Administration\07.08 Environmental\07.08.01 Environmental Impact Statement}.			
SECTION 6 CEMP	ENVIRONMENTAL RISKS AND MITIGATION		Back to Content
(a) The Site Management Team ensures that the environmental risks are identified, reviewed and updated throughout the duration of this project so as to identify any environmental threats, impacts and potential issues that may arise from activities carried out within the scope of the contract works. (b) For this Project, the Site Management team has completed the pre-construction environmental risk assessment EN-f-024 - Environmental Aspects and Impacts Risk Assessment which identifies potential environmental risks caused by site activities and assigns a level of possible risk. The matrix identifies i) the construction activity, ii) the lifecycle stages at which certain risks may arise, iii) potential environmental aspects & their impacts and iv) associated environmental risk. (c) Jones Bros implement an integrated process when assessing risks associated with construction activities. The Task Specific Risk Assessment and Method Statement (RAMS) Process requires environmental risk along with Safety and Quality risks to be considered specific to the tasks being undertaken. PFC013 - Risk Assessment Process(S) (d) The Site Management team review all risks on a monthly basis and revises, when necessary, the Risk Assessments, Method Statements and Management Plans throughout the duration of the project to take account of changing circumstances and ensure that suitable and adequate control measures have been implemented.			

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme	
Project Number:	E24-096	
SECTION 7 CEMP	MANAGEMENT CONTROLS	Back to Content
The following represent, as identified from the Environmental Risk Assessment process, the Jones Bros Processes and Operational Controls that will be adopted and implemented on this project. Reference should also be made to Task Specific Risk Assessments and Method Statements that will identify additional requirements or deviations from those controls dependent on the risks associated with specific tasks.		
Jones Bros Operational Control Document	BM Reference	Required
7.1) Incident Reporting and Investigation	PFC025 - Incident Prevention, Notification & Investigation Reporting Process	Required
All incidents will be reported within 2 hours to the Jones Bros HSE Team using the Incident Notification Form on a mobile device. The HSE Team will notify any regulators required. All evidence will be gathered by the site team during this period to feed the correct information back to the HSE Team so that an investigation to the cause can be established. Jones Bros shall notify the client of any environmental incidents/near misses as soon as practicable after its occurrence. Minor environmental incidents will be discussed in weekly meetings. If any substances or articles are deposited otherwise than as permitted as part of the Licensed Activities of the Marine License or in the Licensed Area full details of the circumstances shall be notified to the Licensing Authority within 48 hours of the incident occurring.		
7.2) Communication and Consultation	BP-p-003 - Communication Plan	Required
Ensure that multiple channels of communication are utilised so that as many stakeholders as possible are informed of the programme. Advertising via multiple methods, including, newspaper, local radio stations, promotion on social media platforms as well as providing local newsletters containing translations in Welsh and Braille and placing information in local community centres such as libraries and tourist information centres. Community engagement and pre-application consultation sessions will be held. The Jones Bros Environmental Team will keep in regular contact with the project team, and conduct inspections quarterly at the site and attend during environmentally sensitive phases of the works. The following information will be made available: - Residents of properties near construction activities will be provided with information detailing any specific noisy activities, and their likely duration; - Jones Bros shall publicise the construction programme (i.e. through mailings to local residents, through an on-site information board at the site access or other means) for the commencement and duration of operations, and named contacts for daytime and out of hours periods - Contact details for queries or further information. Environmental information will be relayed to the workforce via the induction, RAMS, COSHH Assessments and Toolbox Talks. The workforce will be encouraged to provide observations and report concerns to site management by either speaking with their supervisors or through the use of Incident Prevention Cards (IPCs). Daily informal meetings will take place between Jones Bros and other contractors with regards to the general running of the site. Weekly coordination meetings will be undertaken by all contractors and third parties carrying out activities on site. Environmental management and coordination of activities will be discussed as well as any other business. Information requested by the Client will be provided in a timely manner. Regular Progress Meetings will be held with the client where any environmental issues will be reported and discussed. Reports and minutes will be held in the Project Filing Structure (07.04 Minutes 07.04.03 Client Meeting) against the project. It will be the responsibility of the Client with backing of the PC to liaise with the Local Authority in regards to environmental issues or public enquiries." All communication agreements outlined in the Marine License will be followed to the agreed timelines.		

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme	
Project Number:	E24-096	
7.3) Ecology	<u>EN-f-024 - Environmental Aspects and Impacts Risk Assessment</u> EN-a-008 - Environment - ECOW Log (The ECOW log is for Jones Bros Environmental Specialists use only) <u>Ecological Calendar</u>	Required
The custom form EN-a-008 - Environment - ECOW Log can be used on site by Environmental Specialists to document environmental observations both positive and negative providing Advisory, Good Practice and Immediate Action comments <u>Nature Conservation Sites:</u> Liverpool Bay SPA The only potential impact on the features of the SPA are as a result of the release of harmful chemicals from machinery or workings. Implementation of appropriate pollution prevention methods will mitigate this risk. Kinmel Dunes LNR A small area equivalent to 1 % of the LNR will be temporarily impacted. Mitigations include replacing sand following the completion of the works and undertaking clearance using a 2-staged method between September – October. Further enhancement in the form of habitat management will be carried out across the LNR, following construction, in order to improve the condition of habitats present. <u>Habitats:</u> Intertidal Habitats Approximately 4,500m² of intertidal habitats will be impacted by the works, resulting in a direct loss of approximately 3ha of sediments which will be replaced by intertidal rock. This will be mitigated through habitat improvement on the sea wall which will improve the diversity of microhabitats on the sea wall. Intertidal and subtidal habitats could be impacted through pollution incidents and plant movement. This will be mitigated through the application of pollution prevention methods. Further enhancements following construction includes interventions in the areas of scrub to provide more structural diversity to encourage an increased diversity of plants and invertebrates to colonise. Terrestrial Habitats The works will directly impact a small area of open dune habitat within the Kinmel Dunes LNR. For the most part this will be temporary, however, the scheme will result in the permanent loss of approximately 1000m² of open dune habitat. Proposed enhancement includes creating new areas of coastal grassland using a suitable coastal grassland mix. <u>Protected Species:</u> Birds Mitigation for significant impact is the avoidance of main nesting bird season for vegetation clearance or pre-works nesting bird checks if required. All identified nests will be safeguarded until the chicks have fledged. Therefore, there will be no residual significant effects. Reptiles (Common Lizard) There is a small population of Common Lizard in the Kinmel Dunes LNR, and dune habitats to the east of the site provides habitats for several reptile species. There is the potential for temporary, short-term loss of terrestrial habitat. To mitigate this effect, vegetation clearance works will be timed outside of the main autumn and winter period using the 2-staged clearance method. Intertidal Invertebrates A survey will be completed prior to works being undertaken in the littoral zone to ensure that Sabellaria is not present. Pollution prevention measures will be put in place to avoid impacts upon benthic invertebrate species. Haul roads within the intertidal areas will be agreed in advance and adhered to in order to avoid the compaction of a larger area of the foreshore. Fish During construction, the disturbance of sediments may reduce the foraging efficiency of predators and cause some minor gill irritation. Carrying out works at low tide in the dry should mitigate any noise or vibration impacts to the marine environment. Marine Mammals Limited numbers of Grey Seal and Harbour Porpoise commute or forage near the proposed scheme, it is unlikely the area is used for hauling out and basking. Impacts from the works are likely restricted to temporary noise disturbance to a few foraging and commuting individuals. To mitigate any impacts, all works will be undertaken in the dry, and a 'soft start' approach will be carried out each day as this will move the mammals away from the area. Invasive Non-Native Species (INNS) No INNS were identified within the works footprint, however, a biosecurity management plan will be required to ensure that no species are introduced. Measures will need to be put in place to ensure that there is no spread of invasive non-native species or diseases. The Check-Clean-Dry approach should be followed, ensuring that all PPE and equipment is cleaned before leaving site.		

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme		
Project Number:	E24-096		
7.4) Hazardous Materials Incorporating COSHH	PFC056 - Site Set Up & Maintenance - Health & Safety		Required
	HS-p-012 - Substances Hazardous to Health		
	HS-f-031 COSHH Assessment		
	HS-f-022 COSHH Inventory		
The site specific Pollution Control Plan, Site Waste Management Plan and Environmental Risk Assessment for the project site outline all mitigation measures to be adhered to, to prevent incidents from occurring as a result of poor COSHH and Hazardous Material handling, storage and disposal. Jones Bros Waste Management Procedure, Spill Response Procedure and Substances Hazardous to Health Procedure must be followed to protect the environment and workers' health. All COSHH will be stored in line with the Pollution Control Plan, with mitigation measures and a response plan in place to protect the environment from any harm due to COSHH spillages. Spill Kit Awareness internal Training will also be delivered to the project team, to mitigate incidents from fuel and chemical spillages and poor handling practices. In the event of a major spill incident which cannot be handled at site-level, Jones Bros Spill Response Contractor Adler and Allen will be contacted in line with the HSE Team only. A Material Safety Data Sheet (MSDS), provided by the material manufacturer that contains information on the potential hazards (health, fire, reactivity and environmental), will be obtained for each hazardous substance on site. From this information, a COSHH assessment will be written to provide hazard identification, first aid, firefighting, accidental release, handling & storage, disposal conditions and how to work safely with the chemical product. The MSDS and COSHH assessments will be available to all relevant personnel on the project. This includes all first aiders. This allows any injured parties to receive first aid measures in accordance with the MSDS and COSHH assessment for the substance. There will be a COSHH store located at the main compound that will have adequate ventilation and appropriate firefighting equipment for the substances being stored. The COSHH store will have a bunded drip tray with a capacity of no less than 110% of the container's storage capacity, in line with the requirements outlined in the Marine License. All containers/drums/vessels etc. containing hazardous materials will be correctly labelled. Substances must not be decanted into an unlabelled container. Storage of all substances must be in the original container delivered by the manufacturer.			
7.5) Housekeeping & Safe Access	PFC056 - Site Set Up & Maintenance - Health & Safety		Required
	HS-p-011 - Setting Up Site		
	HS-p-027 - Housekeeping		
	HS-f-100-Setting Up Site Safety Checklist		
All materials and COSHH will be stored appropriately to avoid any incidents from slips, trips, falls and fires. Cleaners will frequently clean welfare areas to minimise risks to the Jones Bros workforce and subcontractors. Waste will be segregated from materials and welfare facilities. Cabins will be cleaned regularly and vermin traps will be set up around the site and in welfare cabins. Waste will not be allowed to build up on site or in the skips. Jones Bros will coordinate with the skip company to ensure they are emptied regularly. Traffic routes that have been agreed with planning will be communicated with all suppliers and delivery drivers. Signage will be installed around site to direct people. Deliveries will be planned for off peak times of the day to reduce traffic on the roads during peak times. Small deliveries will be left at the security gate to reduce traffic on the site tracks and will be picked up by the site team when passing. Large deliveries will be scheduled and a suitable storage location will be allocated prior to arrival. Storage area for scheduled deliveries will be communicated to the security guard so they can effectively communicate location to the driver. Daily Inspections will be carried out the site management to ensure good housekeeping. This will include inspecting the storage of hazardous materials and the management of waste to prevent a build-up. Toolbox talks will be communicated to the work force on the importance of good housekeeping.			

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinnel Bay Coastal Defence Improvement Scheme		
Project Number:	E24-096		
7.6) Land Use Management	PFC102 - Contaminated Sites(S) HS-p-020 Contaminated Sites HS-f-031 COSHH Assessment EN-f-023 Soil Management Plan (Project-Specific - see criteria for population in document) HS-f-022 COSHH Inventory	Required	New or temporary accesses to all affected properties will be in place prior to severance of existing access routes. These locations are shown on site boundary plans. If any contamination is discovered, all works in the vicinity should be stopped, the incident reported to the Jones Bros HSE Team via PIM Mobile and appropriate action taken to prevent harm to the environmental and people through following controls in the Pollution Control Plan. Stands of invasive species are to be managed in line with this CEMP, the Pollution Control Plan and Environmental Risk Assessment to prevent spread of seeds and spores, including introduction of invasive or problem species to the site. Contractors must ensure that all plant machinery and equipment are free from foreign material on arrival at site, and that all plant machinery are clean when departing the site. It is recommended that principles such as the Check Clean Dry are strictly followed. Material moved around the site, or imported onto site during the construction will be chemically tested for its intended use and shown to not present a risk to controlled waters or human receptors. Movement of materials will be undertaken in accordance with the relevant waste legislation and guidance (CL:AIRE Contaminated Land Definition of Waste: Development Industry Code of Practice). It is also assumed that future construction works will be undertaken in accordance with legislative requirements, statutory and regulatory guidance and industry best practice. Within the construction phase, an Principal Contractor will be responsible for ensuring the scheme is legally compliant, and consider the risk of Asbestos and linked legislation. The site specific Pollution Control Plan, Site Waste Management Plan and Environmental Risk Assessment for the project site outline all mitigation measures to be adhered to, to prevent incidents from occurring as a result of poor COSHH and Hazardous Material handling, storage and disposal. Jones Bros Waste Management Procedure, Spill Response Procedure and Substances Hazardous to Health Procedure must be followed to protect the environment and workers' health.
7.7) Nuisance Management	EN-f-024 - Environmental Aspects and Impacts Risk Assessment PFC059 - Site Set Up & Maintenance - Environmental EN-f-014 Noise & Vibration Management Plan	Required	Pollution Control Plan to be followed for all pollution including the following nuisances: noise, vibration, dust, fumes, silt pollution and odours. Environmental risk assessment shows controls in place to manage nuisances to the public. Vibration will be kept to a minimum during construction, with the main source of vibration likely being from sheet piling for the cofferdam near Golden Sands. Where possible, vibrationless piles will be utilised. However this will not be possible if obstructions are discovered. Should pneumatic piling be required, a minimal vibration driver will be utilised. This is a short duration works (installation of temporary cofferdam), nearby businesses and residents will be given prior notice of the possible disturbance and where possible acoustic fencing will be in place. Air quality will be monitored on a daily basis, should unacceptable dust, fumes or odours be discovered, works will be stopped until the source is identified and mitigation put in place. During construction there will be a slight negative impact on noise, nuisance and disruption, due to the scheme situated primarily in residential areas and given the aging population and percentage of the population that are limited by disability or long-term illness. During construction there will be obstructions along the Wales Coast Path and National Cycle Network Route 5, causing temporary disruption. There are good links to the A547/548 if diversions are required, but where possible diversions and closures will be locally managed. Mitigation measures for the slight negative impacts during construction are: • Amey voluntarily becoming members of the Considerate Constructors Scheme (CCS). Some expectations that would contribute to mitigation of potential socio-economics impacts include informing, respecting and showing courtesy to those affected by the work, minimising impact to the local highway, contributing to and supporting the local community and economy and lastly, working to create a positive and lasting impression. • Ensure the scheme procurement is through the "Sell 2 Wales framework" which aims to help businesses find and win contracts with the public sector across Wales. • Noise and disruption from construction works should be limited to ensure that effects on local receptors within the surrounding residential areas are minimised. • Diversions should aim to minimise impacts by keeping diversion lengths to a minimum and by providing wide diversion routes where possible. • Ensure that multiple channels of communication are utilised so that as many stakeholders as possible are informed of the programme. Advertising via multiple methods, including, newspaper, local radio stations, promotion on social media platforms as well as providing local newsletters containing translations in Welsh and Braille and placing information in local community centres such as libraries and tourist information centres. • Community engagement and pre-application consultation sessions.

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme	
Project Number:	E24-096	
7.8) Resource Management	PFC059 - Site Set Up & Maintenance - Environmental EN-p-004 Energy Efficient Procurement Procedure PFC053 - Preparing Cost Plans & Cost-Value Reconciliations(S) PFC067 - Project Plant, Equipment and Labour Planning & Management	Required
The Aspects and Impacts Register is to be followed regarding resource management. Protection of all watercourses in line with Pollution Control Plan, and materials to be managed in a way that reduces waste, as per site waste management plan. Jones Bros are committed to reducing carbon emissions per £1m turnover from all operations by 25% from the 2019-20 baseline by 2024-25. To achieve this objective the company uses robust carbon management principles including: •The utilisation of Hydrotreated Vegetable Oil (HVO) Fuel to run all site operated plant on this project, to reduce net emissions by 90% compared to conventional diesel fuel •Using solar-power and hybrid battery generation for facilities and temporary lighting where possible, for minimum fuel use and lower noise •Appoint carbon champions on site to promote energy conservation •Local self-delivery (>90%) using our North Wales based plant and labour force to minimise travel and material transport. Staff and plant will all come from within 30 miles of the site •Use of local quarries for aggregate, bituminous material and concrete provision •Carefully following habitat and species protection measures, and developing new methods •Closely examining designs to reduce embedded energy and/or materials use •Re-using all existing rock armour as raw material within the works •Segregating and managing wastes to maximise the amount recycled or diverted from landfill (>99% in 2021-22)		
7.9) Waste Management	PFC059 - Site Set Up & Maintenance - Environmental EN-p-001 - Waste Management Procedures EN-f-010 Site Waste Management Plan	Required
Site personnel, including employees, subcontractors and suppliers will be appropriately briefed regarding general site waste management as part of their site induction. Records of all training will be kept on-site. Site Waste Management plan is to be followed and waste must be separated in line with Waste Separation Requirements (Wales) Regulations 2023. Ecoefficiency to manage all waste movements and disposal, all relevant waste transfer notes to be kept. It is expected that any excavated material will retain on site. However, if off-site disposal is required the following will occur: • Material will be identified with testing • A material management plan will be developed under the CL:AIRE Code of Practice. • Suitable storage areas will be identified to process and dry out materials.		

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme	
Project Number:	E24-096	
7.10) Water Management	<u>PFC059 - Site Set Up & Maintenance - Environmental</u> <u>EN-p-001 - Waste Management Procedures</u> <u>EN-f-010 Site Waste Management Plan</u> <u>EN-f-025 Flood Management Plan (Project Specific) - please see grounds for completion within the document</u> <u>EN-f-026 Surface Water Management Plan (Site Specific) - please see grounds for completion within the document</u> <u>GPP 5 Works and maintenance in or near water</u>	Required
In certain areas water can be extracted from the water network to be used on site including water for welfare facilities and dust suppression using licenced standpipes. Prior to the use of a stanpipe, the appropriate licences and permissions must be in place. For further information refer to TBT 140.		TBT 140
Spill Kit Awareness Internal Training will be delivered to the project team to prevent any incidents occurring during handling and use of chemicals and fuels.. Spill kits will be available within each plant / vehicle on-site and also located close to identified pollution sources or sensitive receptors. Plant, vehicles and machinery must not be refuelled on the foreshore or in the sea The Pollution Control Plan outlines all mitigation, controls and response measures to be undertaken on the project. Due to the proximity of the works to waterbodies and the nature of the works, the most prevalent risks for the water environment are siltation and oil / diesel pollution, via accidental spillages and site run-off. These aspects will need to be managed during the course of the works by implementing and adhering to pollution prevention guidelines and the Marine License. The following PPG are of particular relevance to the works: • GPP1: Understanding your environmental responsibilities. • GPP5: Works and maintenance in or near water • GPP6: Working at construction and demolition sites. • GPP21: Pollution incident response planning • GPP22: Dealing with spills. Pollution prevention guidelines and good working practices to be strictly adhered to during the construction phase of works. Daily environmental checks will be undertaken to make sure we are not contaminating the watercourse. These checks will either be recorded on a paper document or through jones bros' system of PIM mobile checks, these can then be printed and displayed when needed. For each phase, the environmental assessment recommends the following embedded mitigation: Construction Practice working methods to prevent water pollution, appropriate storage of hydrocarbons and petrochemicals, water contaminated with hydrocarbons are passed though oil interceptors, prevent silt-laden run-off or chemicals entering watercourse, and measured to prevent soil becoming compacted. Operation Infrastructure in line with CIRIA C753, and guidance by BSIDB and LLFA, to make sure that surface water run-off is the same before and after development. Potential effects during the construction phase of the scheme include: • Surface water drainage – flows and quality • Construction site runoff – suspended fine sediments and chemical spillages • Changes to drainage channels on-site and surrounding watercourses • Temporary increase in impermeable area and ground compaction • Impacts to groundwater recharge • Impact on flood risk. However, the proposed scheme is not expected to have a significant impact on the identified receptors across both the construction and operational phase.		

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme	
Project Number:	E24-096	
7.11) Storage	<u>PFC059 - Site Set Up & Maintenance - Environmental</u> <u>EN-p-003 Oil Storage & Handling</u> <u>EN-f-015 Pollution Control Plan</u>	Required
There will be a combination of central storage and workplace storage used on site, the balance between them will depend on the works in progress. It is important to manage storage areas well because they set an example for the site. The following points will be taken into consideration: - i) Ensure that the material suppliers' instructions on storage are being followed ii) Store materials that are valuable or attractive to thieves in a secure area. iii) Store materials away from waste storage containers and from vehicle movements that could cause accidental damage. iv) Secure lightweight materials to protect them from wind damage or loss. v) Take special care over the storage of materials that are potentially polluting. All fuels, chemicals (COSHH), hazardous wastes and other potential pollutants likely to arise on the project will be stored and handled in line with the Pollution Control Plan, Spill Kit Awareness Training and Oil Storage and Handling Procedure to mitigate an environmental incident. All materials must be stored appropriately to avoid slips, trips, falls, fires and pollution events, with any poor practices submitted to the HSE Team via Incident Prevention Cards to allow lessons to be learned across the business.		
7.12) Fuelling	<u>PFC067 - Project Plant Equipment and Labour Planning Management</u> <u>EN-p-002 Spill Response Procedure</u> <u>EN-a-002 Environment Daily Generator Fuel Recording (Mandatory)</u>	Required
All refuelling must follow the Jones Bros refuelling procedure, with any spill incidents notified to the Jones Bros HSE Team within 2 hours and spill response procedure followed. Re-fuelling, where practicable will be undertaken in the main site compound. Re-fuelling will not take place on the foreshore or at any location where surface runoff may run into any watercourse. Spill Kit Awareness Internal Training will also be delivered to the project team to prevent any incidents occurring during handling and use of chemicals and fuels. The Pollution Control Plan outlines all mitigation, controls and response measures to be undertaken on the project. The Main Compound will include bunded refuelling areas, and operations will only be permitted where they comply with method statement/requirements. The refuelling team will be trained and competent operatives. Fuel pipes on plant, outlets at fuel tanks etc. will be regularly checked and maintained to ensure that no drips or leaks to ground occur. Spill kits will be available within each plant / vehicle on-site and also located close to identified pollution sources or sensitive receptors (fuel storage areas etc.).		
7.13) Site Security	<u>PPFC059 - Site Set Up & Maintenance - Environmental</u> <u>HS-p-011 - Setting Up Site</u> <u>HS-f-100-Setting Up Site Checklist</u>	Required
The site will be overseen by security guards. The site will remain secure from any vandals or thieves, with suitable security measures in place as per the Environmental Risk Assessment and Pollution Control plan to mitigate against unwanted access and damage to areas of the site which could lead to pollution (e.g. fuel bowsters or COSHH Stores).		

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme					
Project Number:	E24-096					
SECTION 8 CEMP	EMERGENCY PREPAREDNESS AND RESPONSE		Back to Content			
	(a) The Jones Bros spill response procedure is to be followed which requires each site to register with Adler & Allen who provide 24 hour emergency spill, flood and disaster response. All sites must use a site registration form. Registration with Adler & Allen will minimise any potential detrimental environmental impacts. EN-p-002 - Spill Response Procedure EN-f-018 Adler & Allen Site Registration (b) A Pollution Control Plan (PCP) is to be developed and made available to all site personnel. Additionally, the Site Management team will ensure that this PCP is tested at least once and that site personnel are adequately trained in its requirements. EN-f-015 - Pollution Control Plan (c) The Site Management team will ensure that environmental emergency equipment (e.g. spill kits) appropriate to the significance of the spill risk and the sensitivity of the surrounding environment are appropriately located and maintained on site. (d) In the event of a major hazardous material spill incident (i.e., incidents which cannot be dealt with using equipment available on site or spills / pollution which have, or are likely to, enter(ed) a watercourse / drain) site personnel should call the following 24-hour national spill response hotline: 24 Hour Spill Response: <table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">{Adler & Allan}</td> <td style="text-align: center;">{0800 592 827}</td> </tr> </table> (e) Callout personnel for 24-hour coverage shall be arranged by the Site Management Team to take control of and investigate out of hours incidents. The names and contact numbers of these personnel, and the Environment Agency's / Scottish Environment Protection Agency's Local Area Office, are displayed on site and related to site personnel during the induction process. (f) The HSE Manager will, when necessary, report incidents to the Scottish Environment Protection Agency (SEPA) via: <table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">Natural Resources Wales</td> <td style="text-align: center;">0300 065 3000</td> </tr> </table> (g) In the event that the project team identify a suspected cultural heritage asset (e.g., archaeological artefact) all construction related works in the immediate vicinity shall be stopped. Thereafter, the find should be reported to the Site Manager and the HSE Manager who will take all necessary and appropriate action(s), as defined in the Jones Bros Operational Control for Cultural Heritage (pending). (h) Furthermore, in the event that the project team identify suspected rare or invasive plant species and / or rare fauna (e.g., Great Crested Newts, Water Voles, Bats, Barn Owls, Badgers and breeding Birds) all construction related works in the immediate vicinity shall be stopped. Thereafter, the find should be reported to the Senior Site Manager and the HSE Advisor who shall take all necessary and appropriate action(s), as defined in the Jones Bros Operational Control for Ecology (pending).			{Adler & Allan}	{0800 592 827}	Natural Resources Wales
{Adler & Allan}	{0800 592 827}					
Natural Resources Wales	0300 065 3000					

Project Name:	Kimmel Bay Coastal Defence Improvement Scheme
Project Number:	E24-096

PFC025 - Incident Prevention and Notification Reporting Process

HS-a-020 H&S - Incident Notification Form (Available on the PIM mobile application)

PFC025 - Incident Prevention and Notification Reporting Process

HS-a-020 H&S - Incident Notification form (Available on the PIM mobile application)

HS-f-094 Incident Prevention Card Template (Paper Card)

HS-a-051 - H&S - Incident Prevention Card (available on the PIM application)

[illegible]

HS-T-003 -Together Safer Poster How to Use an Incident Prevention Card using the mobile App

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme				
Project Number:	E24-096				
SECTION 9 CEMP	MONITORING AND MEASURING				Back to Content
(a) Continuous monitoring of environmental performance is achieved via the Jones Bros Process for Monitoring and Measuring Health, Safety and Environment Performance which assesses employees' and contractors' compliance within the requirements of the BMS, this and other plans and the Client and statutory obligations.					
PFC059 - Site Set Up & Maintenance - Environmental					
(b) HSE inspections are conducted by the HSE Advisor with any findings being copied to the Site Manager who will ensure that appropriate corrective and remedial action(s) are taken in a timely manner. Environmental information from HSE inspections is collated by the HSE Department and analysed for any arising trends. From this analysis, preventative action is taken to prevent recurrence – re-briefings, toolbox talks, etc.					
PFC030 - Workplace Inspections(S)					
(c) The Site Management Team, with the assistance of the HSE Advisor, will issue Environmental Site Notices on relevant topics e.g., pollution prevention, waste, noise and vibration, which shall be displayed in prominent locations.					
(d) The Site Management Team, with the assistance of the HSE Advisor, will ensure that any method statements containing environmental management controls and this EMP are prepared, regularly reviewed and updated as required.					
(e) Project audits against the Jones Bros BMS, the requirements of ISO50001 Energy Management, ISO14001 Environmental Management and relevant legislative and other commitments are periodically carried out by the HSE Advisor. Any non-compliance identified is issued to the Site Management team who ensure that timely corrective and preventative action(s) are implemented.					
SECTION 10 CEMP	ENERGY MANAGEMENT (EM)				Back to Content
(a) If the project is valued at over £1 million or a duration of over 20 weeks then the appointment of an energy management champion is required					
JB-Policy-007 - Energy Policy					
BP-p-004 - Jones Bros Group Business Management System Quality Manual					
EN-a-001 Environmental Inspection Daily Check (Mandatory) (Available on the PIM application) Contains a section on Energy Efficiency					
EN-a-002 Environment Daily Generator Fuel Recording (Mandatory) (Available on the PIM application)					
EN-p-004 - Energy Efficient Procurement					
Project Energy Management Champion (Only if project is valued at over £1 million and/or over 20 weeks in duration)	Sam Roberts	Jones Bros. Ruthin (Civil Engineering) Co. Ltd	Jones Bros. Ruthin (Civil Engineering) Co. Ltd Ty Glyn, Canol Y Dre, Ruthin, Denbighshire LL15 1QW	sam@jones-bros.com	07787 100758

SECTION 11 CEMP

TRAINING, AWARENESS AND COMPETENCY

[Back to Content](#)

(b) The site induction is used to promote overall environmental awareness as well as employee and contractor environment management responsibilities. This site induction is further enhanced through a series of toolbox talks that will be delivered to relevant site personnel on an on-going basis. The environmental toolbox talks that shall be delivered on this project are as follows: (refer to the HSEQ Tool Box Talk index below)

(c) Attendance at inductions will be recorded using

HS-f-020a Visitors Site Induction Form

[illegible]

All Inductions will be registered on the

Site specific training requirements such as toolbox talks will be delivered in accordance with

and recorded using

[HSEQ Toolbox Talk Index](#) (Contains a list with links to all previously delivered Health & Safety and Environmental toolbox talks)

and registered on a

The records are retained by the Site Management Team located in the Project Filing Structure {07 Project administration 07.02 Record & Logs 07.02.10 Site Inductions}

TR-t-001 Staff Training Matrix

TR-f-002 -Master Qualification Matrix

Communication Plan Process

BP-p-003 - Communication Plan

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme
Project Number:	E24-096

SECTION 12 CEMP	RECORD REFERENCING MATRIX	Back to Content
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Explanatory Notes:-

To support the effective management of projects and remove the potential for duplication of information and effort, all records referred to in this plan are filed in the Jones Bros Project Filing Structure whilst the records are continuing to be updated and the project is live. The following matrix supports the navigation and archiving of project records. It enables project teams and third parties (as applicable) to easily navigate the Project Filing Structure.

NOTE: OPERATIONAL CONTROL PROCEDURES PENDING WHICH WILL DEFINE FORMS

Environment Plan Section Reference	Record Description	BMS Format	Project Filing Location
1.1	Project Appointment Matrix	PROJECT ROLES & RESPONSIBILITIES	07 Project Administration\07.07 Health and Safety\07.07.02 Construction Phase Health and Safety Plan
1.1	Specific Appointment Letters		07 Project Administration\07.07 Health and Safety\07.07.02 Construction Phase Health and Safety Plan
5	Consents and Permits	EN-f-024 - Environmental Aspects and Impacts Risk Assessment	07 Project Administration\07.07 Health and Safety\07.07.06 Work Permits.
6	Environmental Risk Assessment	EN-f-024 - Environmental Aspects and Impacts Risk Assessment	Document Store\07 Project Administration\07.08 Environmental\07.08.03 Risk Assessments
7.1	Incident Reporting Form	HS-a-020 H&S - Incident Notification Form	Document Store\07 Project Administration\07.07 Health and Safety\07.07.13 Incidents and Investigations
7.2	Briefing Records	HS-f-007 - Briefing Register	Document Store\07 Project Administration\07.07 Health and Safety\07.07.16 Daily Briefings
7.2	Induction Records	HS-f-019 - Induction Register	Document Store\07 Project Administration\07.02 Records / Logs\07.02.10 Site Inductions
7.2	Toolbox Talk Records	HS-f-007 - Briefing Register	Document Store\07 Project Administration\07.07 Health and Safety\07.07.16 Daily Briefings
7.3	Ecology	EN-f-024 - Environmental Aspects and Impacts Risk Assessment	Document Store\07 Project Administration\07.08 Environmental\07.08.03 Risk Assessments
7.4	Hazardous Materials	HS-f-031 - COSHH Assessment HS-f-022 - COSHH Inventory	Document Store\07 Project Administration\07.07 Health and Safety\07.07.05a COSHH Assessments
7.5	Housekeeping and Safe Access	HS-f-100 - Setting Up Site Safety Checklist	Document Store\07 Project Administration\07.07 Health and Safety\07.07.02 Construction Phase Health and Safety Plan
7.6	Land Use and Management	HS-f-031 - COSHH Assessment HS-f-022 - COSHH Inventory	Document Store\07 Project Administration\07.07 Health and Safety\07.07.05a COSHH Assessments
7.7	Nuisance Management	EN-f-014 - Noise & Vibration Management Plan	Document Store\07 Project Administration\07.08 Environmental\07.08.02 Environmental Plan
7.8	Resource Management	PL-f-007 - Project Resource Requirements and CTC	Document Store\07 Project Administration\07.26 Plant & Labour Resource Management\07.26.02 Resource Forecasts
7.10	Waste Management	EN-f-010 - Site Waste Management Plan	Document Store\07 Project Administration\07.08 Environmental\07.08.02 Environmental Plan
7.11	Water Management	EN-f-010 - Site Waste Management Plan	Document Store\07 Project Administration\07.08 Environmental\07.08.02 Environmental Plan
7.12	Storage	EN-f-015 - Pollution Control Plan	Document Store\07 Project Administration\07.08 Environmental\07.08.02 Environmental Plan

CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN (CEMP)

Project Name:	Kinmel Bay Coastal Defence Improvement Scheme		
Project Number:	E24-096		
7.13	Fuelling	EN-a-002 Environment Daily Generator Fuel Recording (Mandatory)	Document Store\07 Project Administration\07.02 Records / Logs\07.02.06 Environmental
7.14	Site Security	HS-f-100-Setting Up Site Checklist	Document Store\07 Project Administration\07.07 Health and Safety\07.07.02 Construction Phase Health and Safety Plan
8	Spill Response Plan	EN-f-015 - Pollution Control Plan	Document Store\07 Project Administration\07.08 Environmental\07.08.02 Environmental Plan
8.1	Arrangements for Reporting Significant Environmental Incidents	HS-a-020 H&S - Incident Notification Form	Document Store\07 Project Administration\07.07 Health and Safety\07.07.13 Incidents and Investigations
8.2	Arrangements for Reporting Near Miss/Minor Environmental Incidents	HS-f-094 Incident Prevention Card Template (Paper Card)	Document Store\07 Project Administration\07.07 Health and Safety\07.07.17 Incident Prevention Cards
9	Inspections and Audit Reports	EN-a-007 - Environment - Site Inspection Report	Document Store\07 Project Administration\07.08 Environmental\07.08.05 Site Inspections & Records
SECTION 13 CEMP		FURTHER GUIDANCE	
		Back to Content	
Further guidance on Environmental matters is available from:		the HSE Team on 01824 703661 or E-mail hseqt@jones-bros.com	