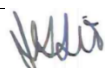


NETLEY CLIFF SHEET PILE WALL REPLACEMENT
CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN

Prepared for:

Netley Cliff Management Company

Project No: P2551	Name of Project: Netley Cliff Sheet Pile Wall Replacement		
Rev No: 02	Status: Planning Issue		
	Name	Signature	Date
Prepared by:	J. Au		23.05.24
Checked:	A. King		23.05.24
Approved:	A. King		23.05.24

Revision Record					
Rev:	Date:	By:	Summary of Changes	Chkd	Aprvd
02	12.09.24	JA	Ecologist and Environmental Health Officer comments incorporated	HJE	HJE

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1. Introduction

- 1.1. This document presents a Construction Environmental Management Plan (CEMP) for the sheet pile wall replacement located on the foreshore between Netley Cliff Apartments and Southampton Water at Netley, Hampshire.
- 1.2. The aim of the CEMP is to set out the responsibilities with regards to compliance with legislation and to implement any mitigation measures. This CEMP details management measures to minimise environmental impact from the construction phase of the replacement sheet pile wall.
- 1.3. The CEMP forms a framework within which the measures will be implemented throughout the project. This framework provides project-specific management measures and is a dynamic document which should be reviewed if activities or conditions onsite change that may influence management measures.
- 1.4. This document has been developed to avoid, minimise, and mitigate against any construction effects on the environment and surrounding community. It should be considered a living document with reviews being undertaken at set intervals and new information added as appropriate.
- 1.5. For the purposes of this document, the working area is defined as any area where there will be a requirement for temporary or permanent works to facilitate the piling works. This includes areas required for access, temporary construction, and temporary storage areas.
- 1.6. CEMP Document Management
 - The CEMP will be a controlled document and will be formally issued to the Employer and the Contractor.
 - Live copies of the CEMP will be held in the site office and on the document management system
- 1.7. Update and Amendment to the CEMP
 - In the event that there are changes to the proposed construction methodology (e.g. that require additional management or mitigation measures or changes to measures already proposed), identification of new environmental sensitivities, or emergence of new guidance or legislative requirements etc. it may be necessary to update the CEMP.
 - Where updates to the CEMP are required, the Contractor will notify the Employer of any changes and re-issue the CEMP.

2. Regulatory Framework & Planning Conditions

- 2.1. The CEMP is required to implement the core principles of the local planning, MMO and other relevant policies which encompass environmental controls required with due consideration to relevant environmental legislation.
- 2.2. The CEMP provides the framework for which commitments made in the Ecological Impact Assessment (EcIA) or any requirements of planning conditions can be realised. The CEMP outlines the Contractor's approach to environmental management throughout the construction phases with the primary aim of reducing any adverse impacts from construction on local sensitive receptors.
- 2.3. Relevant Legislation
 - The Environmental Protection Act 1990
 - Water Framework Directive (WFD)
 - Control of Noise at Work Regulations 2005
 - Town and Country Planning Act 1990

- Conservation of Habitats and Species Regulations 2017

2.4. Specific designations that apply to the work area are:

- Ramsar
- Solent and Southampton Water SPA
- Netley to Hamble Shore SINC
- Lee-on-the-Solent to Itchen Estuary SSSI
- MMO marine plan areas (England) South inshore

3. Project Description

3.1. Site Location



Figure 1 – Site Location Plan (Google Maps)

3.2. Scope of works

- Overpiling immediately in front of the existing sheet pile wall with like for like replacement sheet piles
- Backfill between replacement and existing sheet pile wall

Refer to P2551-CN-00-XX-MS-PL-0001 (RAMS) for further details

3.3. Operating Hours

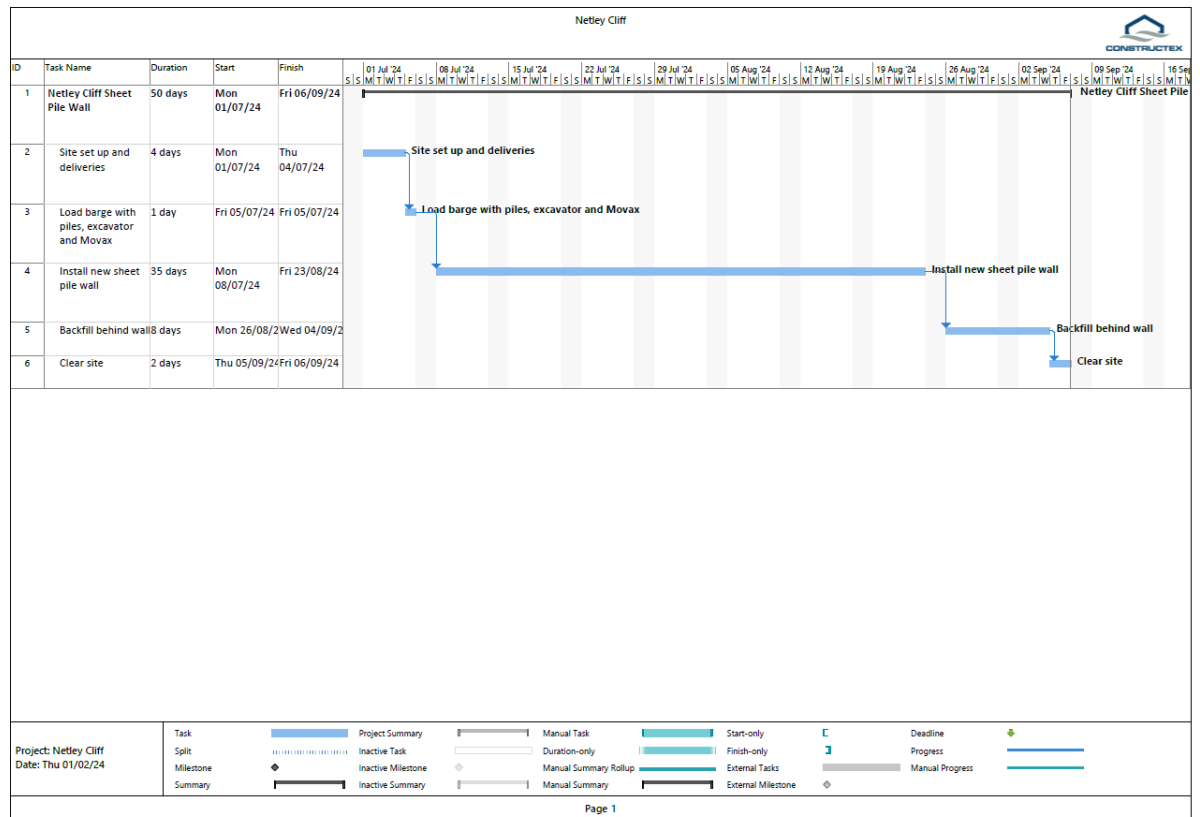
- Typically, 08:00 to 18:00 hrs Monday to Friday
- Saturday 08:00 to 13:00 by arrangement

- Out of hours working may be required to accommodate certain tidal conditions and to accelerate programme. **TBC**

3.4. Construction Programme

Indicative programme only showing activity duration

Indicative start date 1st June – 23rd June 2025



4. Roles and Responsibilities

4.1. All project personnel have a responsibility to comply with the requirements of the CEMP, however the key roles relevant to the delivery and implementation of the CEMP are:

- The *Contractor* Project Manager
- The *Contractor* Site Manager
- The *Contractor* Environmental Manager
- The *Employer* Project Manager
- The *Employer* Site Manager
- The *Employer* Environmental Manger

4.2. Specific responsibilities include:

The *Contractor* Project Manager

- Facilitate dissemination of environmental requirements to the Project Team.
- Ensure and be responsible for compliance with all permits, licences and consents, and to report any deviations or breaches.
- Oversee the implementation and review of environmental procedures throughout the Project.
- Monitor the environmental performance of the Project through maintaining an overview of incidents, inspections, and audits.
- Ensure that environmental considerations form an integral part of Design and Implementation of the Works and include environmental reviews as part of regular Project meetings.
- Review environmental matters with the Contractor Environmental Manager on a regular basis and as per Project requirements.
- Liaise with the Contractor Environmental Manager on all environmental issues as appropriate.
- Ensure that all environmental incidents are reported to the Contractor Environmental Manager according to agreed procedures; and
- Nominate individual Project Team members to support the Employer in public relations and community liaison activities, including local community meetings.

The *Contractor* Site Manager

- Maintaining a full-time presence on site;
- Understanding and implementing all environmental procedures ensuring that site operations function in compliance.
- Reporting environmental incidents at the earliest possible time and advising the Contractor Environmental Manager & Project Manager.
- Overseeing site works with a view to reducing the environmental impact of the works and raising any environmental concerns with Contractor Environmental Manager & Project Manager; and
- Ensuring toolbox talks are carried out as necessary on relevant environmental topics and records maintained.

4.3. Responsibility for the implementation and updating of this plan will rest with the Employer Project Manager upon contract award. The client and the designer will likely be involved in the process of reducing the impact of the project however this coordination effort will be led by the Employer Project Manager.

4.4. It is proposed that this will feature as an item for discussion during project progress meetings held between the Employer Project Manager and the Client.

4.5. All project personnel will attend an induction prior to commencing on site. This will include, but is not limited to, matters related to the Employer's environmental rules and policies, the Contractor's environmental rules and policies, site rules, health and safety requirements,

arrangements for first aid and emergency response (include spills and pollution), environmental management.

4.6. A formal training plan will be developed at project planning stage after contract award. This will detail who needs what training in order to successfully implement the CEMP.

4.7. Training and awareness specific to this CEMP will be delivered using toolbox talks, inductions, notice boards/awareness materials.

4.8. The contractor will record and maintain records of all training and competencies.

4.9. Internal communications

- During the works, daily or as required meetings / calls will take place involving the Contractor and Employer Site Manager. Consents and license compliance and environmental management will be discussed as necessary.
- Monthly written reports will be provided by the contractor which shall include reference to any environmental incidents / near misses or other such occurrences.
- All project personnel will be required to report any environmental concerns or issues to the Contractor environmental manager immediately.

The environmental incident reporting and investigation procedure as per Section 5 of this document shall be complied with.

4.10. External communications

All communications to external parties shall be undertaken by the employer or following approval by the Employer. The Contractor shall not communicate any information externally without prior authorisation from the Employer.

5. Management and Mitigation Plan

5.1. This section of the CEMP presents the mitigation and management measures relating to potential adverse impacts and also to potential beneficial effects. It also details the monitoring strategy and responsible party.

AIR QUALITY			
Potential Impact	Mitigation/enhancement Measure	Monitoring Requirement	Responsibility
Use of generators, plant and equipment on site – discharge of pollution e.g CO ₂ , NO _x , SO ₂ , etc	- Turn off generators and plant when not in use - Plan works to minimise use - Use smallest engine sizes possible - Use modern efficient plant where possible	Daily visual	Site Supervisor
Travel to and from site - discharge of pollution e.g CO ₂ , NO _x , SO ₂ , etc	- Minimise trips to site - Plan to stay locally. Shared vehicle use - Avoid driving to site if possible. Encourage bicycle use - Encourage use of public transport	Fortnightly review	Project Manager

NOISE AND VIBRATION			
Potential Impact	Mitigation/enhancement Measure	Monitoring Requirement	Responsibility
Use of powered hand tools – vibration to operatives	- Carry out vibration risk assessment - Anti-vibration gloves	Fortnightly / Daily	H&S representative / Site Supervisor
Use of generators, plant and equipment - noise to residents	- Unlikely to have any significant impact considering distance from nearby residential area - Site plant away from interaction with other facility users	Daily	Site Supervisor
Use of generators, plant and equipment – noise to surrounding	- Turn off generators and plant when not in use - Plan works to minimise use - Use smallest engine sizes possible - Use modern efficient plant where possible	Daily	Site Supervisor
Piling works along beachfront	- Operatives should be trained to employ appropriate techniques to keep site noise to a minimum - Work within operational hours and hours of work permitted by Local Planning Authority and Marine Management Organisation - Maintain healthy relationship between residents	During piling works	Site Supervisor / Project Manager

	• Show that all possible measures to avoid unnecessary noise has been taken • Maintain good community liaison and information distribution and the provision of a helpline to respond to queries or complaints • Vibro-piling method preferable to minimise impact on surrounding		

ECOLOGY			
Potential Impact	Mitigation/enhancement Measure	Monitoring Requirement	Responsibility
Debris entering the watercourse	• Plan works and brief out responsibilities • Ensure the work is monitored throughout • Instigate a STOP procedure in the event of materials entering the water. • Ensure any debris is removed when safe to do so • Debris netting enclosure to be erected if required	During backfill works	Site Manager / Project Manager
Disturbance to marine animals	• No significant impact expected to marine mammals and fish since works are expected to be carried out at low tide along foreshore • Backfill material to be sourced from reputable supplier with biosecurity statement		
Disturbance to bats	• No significant impact expected to bats since works are expected to be carried out during daylight hours		
Disturbance to nesting birds	• ECoW to attend site to determine whether there are any breeding birds present immediately prior to commencement of the works • If active nests are identified an undisturbed buffer zone to be established in line with ECoW recommendation	Prior to site commencement	All
Disturbance to overwintering birds	• Works will take place over the spring and summer months (May to September). Works will also be undertaken during daylight hours so no external lighting will be required to avoid any potential lighting impacts to nocturnal species and migration routes.		

Disturbance to reptiles	• Works will be completed during the reptile active period of May to September, in line with the mitigation for designated sites above. During this time reptiles will be active and can move away from the proposed work area. • It is considered unlikely any reptiles will be located within the proposed works area on the beach. In the unlikely event one is encountered it will be safely moved to an		
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CULTURAL HERITAGE AND ARCHAEOLOGY			
Potential Impact	Mitigation/enhancement Measure	Monitoring Requirement	Responsibility
No significant impacts anticipated	• Should any cultural heritage sites be reported during the course of the Project, it is recommended that they are investigated by a qualified marine. • Potential impacts on unknown heritage will be managed through implementation of a reporting protocol for the discovery of previously unknown marine cultural material during development e.g. the reporting protocol produced by Wessex Archaeology (2014) for the Crown Estate (http://www.wessexarch.co.uk/protocols-archaeological-discoveries-pad)	Ongoing	All

GROUND CONDITIONS			
Potential Impact	Mitigation/enhancement Measure	Monitoring Requirement	Responsibility
Plant movement across the beach	• Tracked plant to be used to spread loading • Route to be established (i.e. as close to the shoreline as possible)	Prior to site commencement	Project Manager

WATER RESOURCES AND HYDROLOGY			
Potential Impact	Mitigation/enhancement Measure	Monitoring Requirement	Responsibility

Use of generators, plant and equipment – leaking oils/fuels	• Drip trays beneath all stationary plant items • PUWER daily checks. Ensure maintenance carried out in accordance with asset management plan	Daily	Site Supervisor
Storage of fuels/oils/chemicals on site - Accidental release – contamination of groundwater/water courses	• Minimise storage of fuels on site (no more than 1000L max) • Minimise storage of hazardous materials on site • Ensure compliant containers used for storage • Use double bunded containers • Daily checks for leaks • Use drip trays • Store materials in secure restricted access COSHH area • Fuelling to be carried out in designated fuelling area only • Spill kit available on site	Weekly	Site Supervisor

TRAFFIC, TRANSPORTATION AND ACCESS			
Potential Impact	Mitigation/enhancement Measure	Monitoring Requirement	Responsibility
Travel to and from site - congestion	• Minimise trips to site • Rent local accommodation for permanent site workers or hire local labour • Encourage use public transport • Shared vehicle use • Encourage bicycle use	Fortnightly	Project Manager

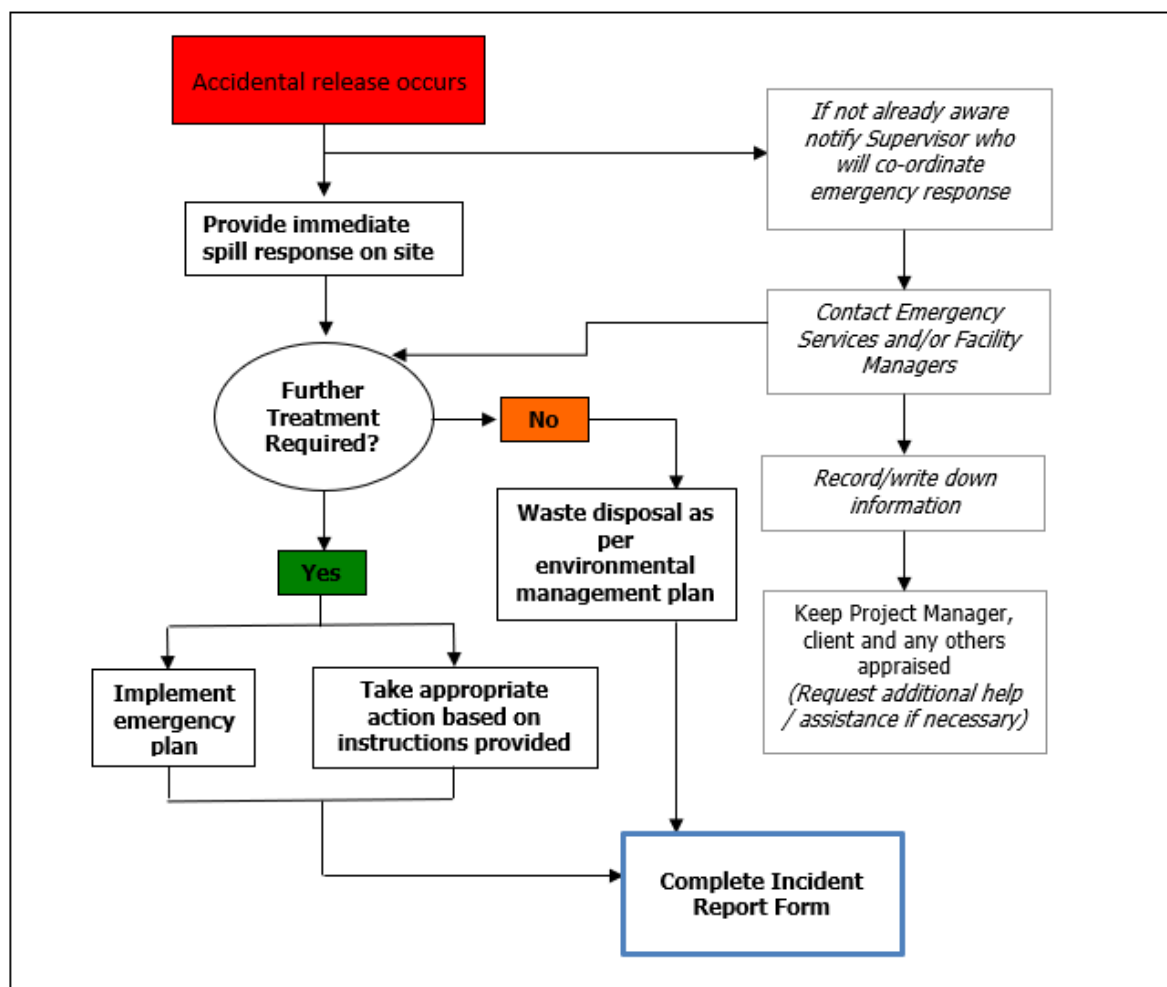
LANDSCAPE AND VISUAL			
Potential Impact	Mitigation/enhancement Measure	Monitoring Requirement	Responsibility
Welfare compound - visual disruption	• Notify Employer • Minimise programme duration • Site cabins to have minimum visual impact	Once. Prior to project commencement	Project Manager

	• Store plant and materials within compound in a safe and orderly manner		

6. Pollution Prevention and Spill Response

- 6.1. Potential sources of pollution are principally associated with the storage of materials on site, the use of plant over water and vessels. Oil, sewage and fuel.
- 6.2. Spill kits will be available on site appropriate to the volume and type of material on site.
- 6.3. COSHH assessments and material safety datasheets (MSDS) will be available for all substances in use on site.
- 6.4. The procedure for spill response is included below.

Emergency action Flowchart:



Environmental Incidents	
Spillage and contamination Procedures	• Deploy the spill kit • Notify the site Safety Operatives • Refer to the MSDS and COSHH data for the material • Notify the Constructex Project Manager • Licensed waste carrier must be used for disposal (call Reconomy 01952292000)
Complaints (e.g. Noise)	• Be polite and non-confrontational • Record as much information as possible • Contact the Constructex Project Manager who will advise on how to proceed.

7. Noise Management

- 7.1. BS 5228-1 Code of practice for noise and vibration control on construction and open sites – *Part 1: Noise* has been consulted in preparation of this section for noise management.
- 7.2. The contractor will keep residents informed about the timing, duration, and expected noise levels, as well as providing a point of contact for concerns.
- 7.3. An escalating approach to the piling method will be adopted to minimise impulsive noise. Initially, vibratory piling will be utilised until either refusal is encountered or the required depth is achieved. If the required embedment depth is not attained, a drop hammer may be employed to achieve the necessary depth.
- 7.4. The expected disruptive noise generating activity on site will primarily occur during pile driving. For vibratory piling of steel sheet piling, an appropriate noise target is a weighted sound pressure level of 88 dB at a distance of 10 meters from piling activity.
- 7.5. Noise monitoring equipment to be certified to appropriate standards, including Class 1 specification of IEC-61672 Electroacoustics – sound level meters.
- 7.6. Unattended noise monitoring systems to incorporate noise triggering levels based on activity.
- 7.7. When the relevant trigger is exceeded, an automated alert should be sent to appropriate site staff including the Supervisor, enabling an investigation process to be undertaken as soon as reasonably practicable.
- 7.8. Site staff who receive the automatic notification may continue work activities but the engineering team should be notified so they can determine the cause of the trigger and review work methodologies or control, as necessary.
- 7.9. Where the source of noise is found to relate to the construction works, potential mitigation measures are to be considered so that noise is minimised as far as reasonably practicable.
- 7.10. The contractor will give as much notice as possible in the event of any out of hour works required due to tidal windows.
- 7.11. As part of the Environmental Impact Assessment (EIA) for the MMO marine licence application, no noise generating activities will likely be permitted during winter months.
- 7.12. We suggest 1no. monitoring equipment mounted to nearby trees at 1.5m height approximately 10m away from proposed piling location – **indicative** location shown below:

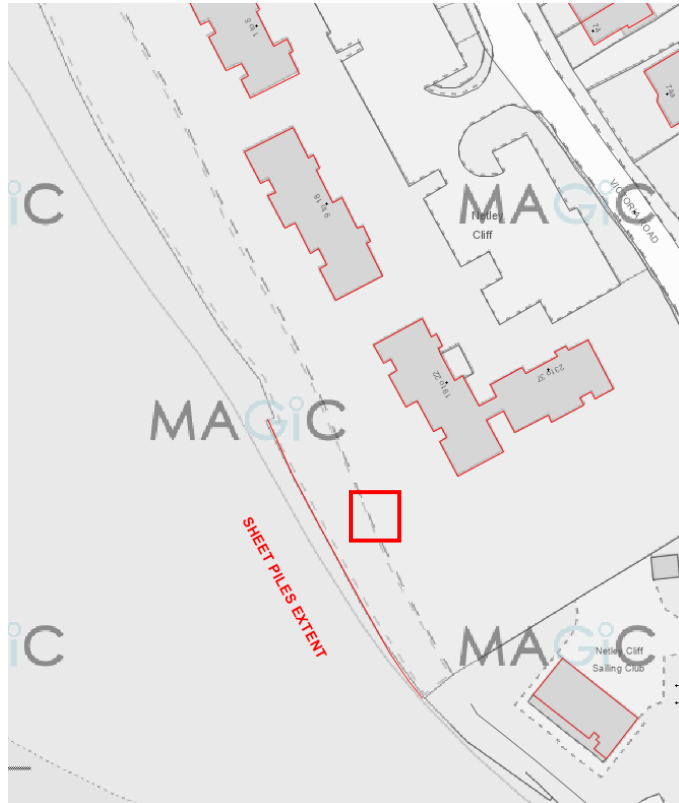


Figure 2 - Indicative location for monitoring equipment

- 7.13. Indicative plant and equipment includes the following. Consulting BS 5228-1 Table C.2, C.3 and C.4 of sound level of each plant at 10m distance also provided
- Tracked excavator up to 20T - 76 dB (ref 21: 22T power rating of 107 kW)
 - Tracked dumper up to 8T - 82 dB (ref 4: 9T power rating of 75 kW)
 - MOVAX excavator up to 14T - 88 dB (ref 8: 52T / 14m length is the only example with data. This figure significantly exceeds the noise level of the 14T excavator being proposed. It can be assumed that the noise level of the proposed plant will not reach the upper end of 88 dB)
- 7.14. A systematic method will be adopted towards receiving and rectifying noise complaints. This is explained in the following flowchart:

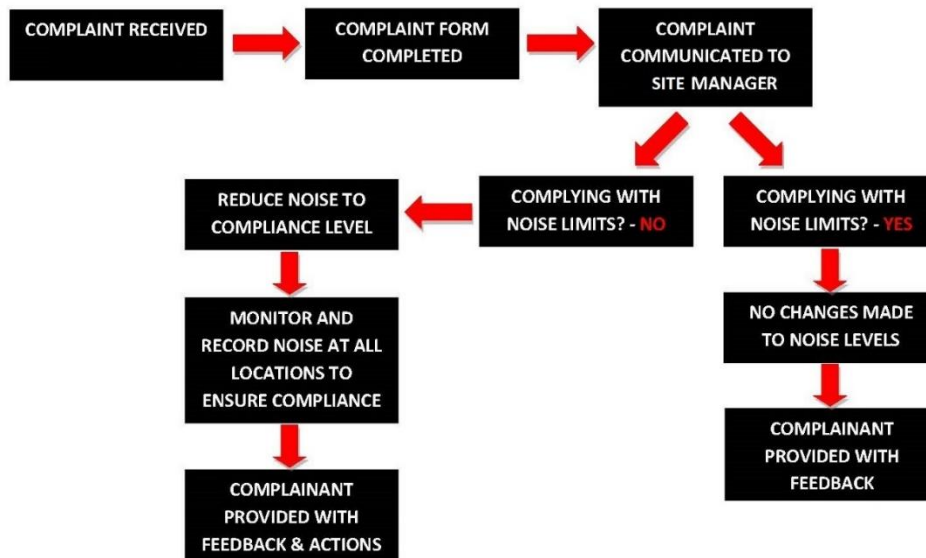


Figure 3 - Noise complaint procedure

8. Waste Management

- 8.1. Where required, all waste will be separated into different skips dependent on its classification given above. Advice will be sought from each of the waste carriers as to how they would like the waste separated.
- 8.2. Waste segregation site procedures will be explained during the site induction to all operatives.
- 8.3. All waste carriers will be confirmed as holding valid waste carriers' licenses prior to project commencement.
- 8.4. The main areas of waste generation as a result of the project are outlined in the draft site waste management plan within this document.
- 8.5. Consideration will be given to the use of pre-manufactured components to reduce the waste generated by the site.

SWMP Data Sheet																	
Project Name		Netley Cliff Sheet Pile Wall Replacement															
Date		TBC															
Project Stage		Draft															
Report Number		1															
Project Address/Location		Netley Cliff															
Client		Netley Cliff Management Company Ltd															
Principal Contractor		TBD															
Supervisor Responsible		TBD															
Responsible for this form																	
Site waste is going to																	
A				B				C				D					
Waste Carrier Details																	
A				B				C				D					
		Quantity (specify volume or weight)															
Type of waste	EWC Code	Reused		Recycled		Sent to recycling or reprocessing facility				Disposed of		(Related to above table)		WTN completed			
		On site	Off site	For use on site	For use off site					Landfill	Other than land-fill						
Target Achieved /		T	A	T	A	T	A	T	A	T	A	T	A	Waste Site	Waste Carrier		
Non-hazardous																	
Steel																	
Concrete																	
Brick & Concrete (Rubble)																	
Timber																	
Hazardous																	
Paint cans												2					
Hydraulic oils																	
Totals (m3, t)																	
Performance Score %																	
SWMP Target %																	

9. Complementary Plans, Procedures and Other Relevant Documentation

- P2551-DR-0001 - Existing Site Plan
- P2551-DR-0002 - Proposed Site Plan
- P2551-DR-0003 - Proposed Methodology
- TBC