

Aberavon Promenade Outline Construction Environmental Management Plan

Final

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Neath Port Talbot County Borough Council



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Revision history

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25/09/2018	Draft Report	Mark Cope
26/09/2018	Final Report	Alec Dane

Contract

This report describes work commissioned by Neath Port Talbot County Borough Council.

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Abbreviations

CEMP	Construction Environmental Management Plan
DEFRA	Department for the Environment, Food and Rural Affairs
ECW	Ecological Clerk of Works
EMS	Environmental Management Systems
IAQM	Institute of Air Quality Management
MHWS	Mean High Water Spring
NCN	National Cycle Network
NPTCBC	Neath Port Talbot County Borough Council
NRW	Natural Resources Wales
RNLI	Royal National Lifeboat Institution
SAC	Special Area of Conservation
SINC	Site of Importance for Nature Conservation
SSSI	Site of Special Scientific Interest
WFD	Water Framework Directive

1 Introduction

1.1 Purpose

This outline Construction Environmental Management Plan (CEMP) summarises the recommendations for environmental management during the construction phase of the Aberavon Promenade Scheme. It outlines the likely roles and responsibilities of those involved in the delivery of the project and sets out the environmental actions required to achieve a series of environmental management objectives identified for the scheme.

1.2 Roles

For each environmental management action set out in the table below, the appropriate project team member needs to be identified who has responsibility for ensuring that the action is fully implemented. Monitoring of the CEMP is undertaken by the Construction Contractor. It is recommended that where required the Construction Contractor is supported by an appropriately qualified Ecological Clerk of Works (ECW).

This outline CEMP should be used as a guide, to assist the Construction Contractor when implementing their own Environmental Management System (EMS). Typical environmental issues requiring management during construction could include:

- environmental permitting requirements and environmental planning conditions;
- protected species and habitat monitoring;
- archaeological remains;
- dust suppression measures;
- site waste management;
- materials management;
- pollution prevention and control (including storage, refuelling and incident response);
- noise management; and
- visual impacts.

1.3 Environmental audits

Site audits should be undertaken by the Construction Contractor on a regular basis, to ensure compliance with regulatory requirements and any construction best practice committed to in obtaining environmental consents. It is recommended that technical assistance is sought by an appropriately qualified ECW where this is required to complete the environmental audit.

1.4 Environmental incident reporting

As part of the construction contractor's EMS, any environmental issues or incidents must be reported, using the Construction Contractor's incident recording system.

2 Environmental Baseline and Scheme Proposals

2.1 Site location

Aberavon Promenade is a 2.1km long seawall structure and exposed sandy beach, situated between Port Talbot and the River Neath Estuary within Swansea Bay (Figure 2-1). The Promenade provides an important coastal defence function to residential properties and businesses in the resort town of Aberavon. Much of the surrounding coastline is heavily industrialised, with the Tata Steelworks in Port Talbot to the north and Queen's Dock, King's Dock and Prince of Wales Dock in Swansea to the south-east. As well as coastal protection to property the coastal defences protect land associated with these former land uses. There is also a Welsh Water rising main runs below the promenade, and running above the Wales Coastal Path, National Cycle Network Route 887 and areas of public realm.



Figure 2-1: Location of the site

2.2 Environmental baseline

The proposed scheme does not lie within any environmentally designated sites, and there are no internationally or nationally designated sites within 2 kilometres of the proposed scheme. Within 500m of the site are the following non-statutory designated sites:

There are four locally designated Sites of Importance for Nature Conservation (SINCs) within 2km of the site (illustrated on Environmental Constraints Plan, Appendix B), of which the closest is the Baglan Bay SINC is located approximately 190m from the site. Baglan Bay SINC is designated for the presence of bird communities, Sea Stock (*Matthiola sinuate*) and coastal sand dunes, which is priority habitat under Section 7 of the Environment (Wales) Act 2016.

The following protected ecological species have also been identified in the proximity of the site as follows:

- The boulder sea wall at Aberavon Promenade to the south has been found to contain small *Sabellaria alveolata* reefs (approximately 1km south of the proposed site area), although this is considered a potentially transient species, as a later ecological walkover failed to identify this species;
- Wetland bird species have the potential to utilise the site;
- The vegetated areas of the dune system at the northern end of the site are suitable habitat for reptiles;
- Sea Stock has found to be present in the dunes to the north, although was found not to be present in the most recent ecological site visit; and
- Within 1km of the scheme location are small areas of Water Framework Directive (WFD) Higher Sensitivity Habitat, polychaete reefs and mussel beds, around the mouth of the River Afan.

The following environmental constraints are located in and around the site:

- 15 shipwrecks registered with Cadw within 500m of the scheme location;
- The Wales Coast Path runs along Aberavon Promenade;
- National Cycle Network (NCN) Route 887 runs along Aberavon Promenade. NCN Route 4 runs parallel to the A4241, 1km from the scheme;
- Many businesses have residencies along the Promenade, many of which are based around tourism;
- Many local facilities are also based on the Promenade, including the local RNLI Lifeboat Station and Swn-y-Mor Assisted Living Centre; and
- Aberavon Beach is a popular site for recreational users, with dog walking, surfing, swimming and angling.

Over 13,000 people live within 1km of the proposed scheme, and over 19,000 within 2km. Most of the residential areas within 2km of the site are within the 20% most deprived in Wales, with one of the most significant problems the area faces being air pollution.

An Environmental Constraints Plan is provided for reference in Appendix A.

2.3 Scheme proposals

Aberavon Promenade comprises a concrete stepped revetment and wave wall. The structure is in a state of disrepair, due to the formation of voids within, and cycles of beach lowering impacting on the sheet piled toe in front of the structure. Unless this issue of erosion is addressed the Promenade is under threat of potential failure.

Neath Port Talbot County Borough Council (NPTCBC) are proposing engineering scheme to prevent erosion of the toe of the existing seawall and—as a consequence—prevent damage or loss to landward features within the area.

The improved coastal defences require the installation of rock armour revetment in front of the existing coastal defences, with 6 stepped pedestrian access routes down to Aberavon Sands to maintain public access. Repairs would also be made to Promenade, superficially to the concrete structure, and to fill any voids.

The design objectives of the scheme are to:

- Reduce the risk of failure of the existing sea wall;
- Maintain and improve access where possible;
- Minimise visual impact of the scheme; and
- Improve access for maintenance of the sea defences.

These objectives will be achieved by:

- The placement of 1.4 hectares of rock armour toe protection to the sea wall. This will reduce wave reflection and so reduce expected beach lowering, affording more protection to the existing defence toe;
- Concrete repairs and void filling works will take place on the existing sea wall and to reduce the likelihood of collapses in the concrete structure;
- To maintain access to the beach, reinforced concrete stairs will be provided through the rock armour at the six existing access points;
- A concrete slipway will be constructed to the north west of the scheme off the Scarlet Avenue car park down to the beach, to provide maintenance vehicles with easier access to the northern half of the defences.

The general arrangement plan for the scheme proposals is provided in Appendix B.

3 Construction Environmental Management Plan proforma

The CEMP is a live document that needs to be updated as the project progresses through the consenting process and pre-construction phase and throughout the construction of the proposed scheme. The following proforma should be used by the Construction Contractor's appointed ECW to develop and maintain a CEMP for the duration of the construction works.

Table 3-1: Construction Environmental Management Plan

Ref.	Objective	Action	Responsibility	Ref. to further info.	Progress and further action	Sign off and date
Pre-construction						
1. Consents						
PC.1.1	Planning Permission obtained from Neath Port Talbot County Borough Council (NPTCBC)	Ensure any environment related planning conditions are discharged prior to the start of construction. Incorporate relevant planning conditions into the CEMP.	Construction Contractor & ECW	Aberavon Promenade Design & Access Statement		
PC.1.2	Marine License to be obtained from the Natural Resources Wales (NRW)	Ensure the Marine License is in a place before undertaking any works below or adjacent to Mean High Water Spring (MHWS) and that any licence conditions are adhered to.	Construction Contractor & ECW	https://naturalresources.wales/permits-and-permissions/marine-licensing/?lang=en		
PC.1.3	Apply for an Environmental Permit from Natural Resources Wales (NRW)	An environmental permit may be required to ensure that measures are taken to minimise the risk of flooding and marine pollution. In particular, any measures to prevent pollution associated with storage of fuels, refuelling and leakages would need to be detailed incorporating principles of NRW's Pollution Prevention Guidance. Any liquids and solids of a potentially hazardous nature (for example diesel fuel, oils, solvents) should be stored on surfaced areas, and should be bunded with a 10% added capacity of the volume liquid being stored.	Construction Contractor	https://naturalresources.wales/permits-and-permissions/environmental-permits/?lang=en		
PC.1.4	Apply to temporarily divert the Wales Coastal Path and National Cycle Network Route 887 around the site	Apply to Natural Resources Wales Coast Path Team to apply to divert the Wales Coast Path. Notices informing of the diversions should be displayed to the public in advance of the alteration. Clear	Construction Contractor	Contact: wcp@naturalresources.wales.gov.uk		

Ref.	Objective	Action	Responsibility	Ref. to further info.	Progress and further action	Sign off and date
		boundaries should be provided, in the form of Heras fencing, to prevent members of the public from entering the construction site. Where this is not practical or crossing of the construction areas is required, clear signage would need to be provided to warn of construction traffic. During busy periods for construction traffic movement, provision of a banksman may be appropriate.				
PC.1.5	Minimise noise impacts on adjacent residents and businesses	Given the location of adjacent residential properties, a section 61 consent may need to be obtained for any noisy operations by the construction contractor from NPTCBC. The contractor will agree working hours and construction methods with NPTCBC. Such working hours will also need to abide by provisions controlling impacts on any sensitive ecological receptors (i.e. birds nesting nearby). Work outside of normal hours (i.e. night-time working) will only be undertaken with prior agreement of NPTCBC.	Construction Contractor	BS 5228-1:2009 Code of practice for noise and vibration control on construction and open sites https://www.npt.gov.uk/1130		
PC.1.6	Establish a baseline in order that the working area and access route can be left in as good or better condition than before works began	The contractor should carry out pre-start condition surveys of the construction site.	Construction Contractor	Aberavon Promenade Landscape Appraisal		
2. Natural resources						
PC.2.1	Reduce greenhouse gas emissions	Consideration should be given by the construction contractor to the logistics of transporting bulk materials to site, to ensure that minimising greenhouse gas usage is factor of selecting the most efficient method for delivery. Likewise, other considerations can be made during construction to prevent unnecessary use of GHG emissions, such as minimising idling equipment when not in use, or using green transport models.	Construction Contractor	Traffic Impact Assessment for the scheme How to reduce CO2 on construction sites guide: https://www.greenconstructionboard.org/otherdocs/CO2		

Ref.	Objective	Action	Responsibility	Ref. to further info.	Progress and further action	Sign off and date
				%20Construction%20sites%20master.pdf		
PC.2.2	Encourage sustainable use of materials	Materials that will be used in large volumes should be sourced locally to the development wherever possible. The use of construction materials with a high embodied energy should be kept to a minimum. The use of hazardous or pollution substances and materials on site should be kept to a minimum. Arrangements should be made in advance of commencement of works for recycling, or, where recycling is unavailable, appropriate disposal of waste created during construction.	Construction Contractor	https://gov.wales/docs/desh/publications/120119waste-hierarchyguideen.pdf		
PC.2.3	Avoid construction waste becoming a management issue and encourage the sustainable disposal of waste	Arrangements would need to be made for construction and municipal waste to be periodically (ideally weekly) removed from the site by a licensed waste carrier. Given the large amounts of inert waste that could be generated by the works, it is recommended that a Site Waste Management Plan is prepared by the Construction Contractor, which gives consideration to the sustainable disposal of waste with reference to the principles of the waste hierarchy.	Construction Contractor	https://naturalresources.wales/guidance-and-advice/environmental-topics/waste-management/how-to-classify-and-assess-waste/?lang=en		
3. Human receptors						
PC.3.1	Communicate information to members of the public, e.g. residents (including a residential care home) and businesses affected by construction prior to construction	Information about the proposed scheme should be provided to residents and interested parties prior to the start of works (consider notices or letter drops). Consultation with operators of businesses that operate on Aberavon Promenade to minimise disruption. Given the vulnerability of residents in the adjacent care home, consideration should be given to appointing a community liaison officer.	Construction Contractor & Community Liaison Officer	EA Building trust with communities guidance: file:///C:/Users/markcope/Downloads/ComCoastWP4-07.pdf		

Ref.	Objective	Action	Responsibility	Ref. to further info.	Progress and further action	Sign off and date
PC.3.3	Reduce impacts on Aberavon Promenade visitors and recreation	Construction activities that cause significant noise should not be planned during busy visitor periods such as weekends, bank holidays or school holidays. Acoustic panelling could be considered to reduce noise impacts.	Construction Contractor	BS 5228-1:2009 Code of practice for noise and vibration control on construction and open sites		
4. Ecological receptors						
PC.4.1	Avoid impacts on biodiversity & nature conservation	Preconstruction checks should be undertaken by an appropriately qualified ecologist, with advice given on management of ecological risks during construction (preconstruction ecological clerk of works support).	Construction Contractor	Aberavon Promenade Preliminary Ecological Report and update		
PC.4.2	Avoid impacts on biodiversity & nature conservation	An ecological Toolbox Talk should be provided to the construction workforce to advise on ecological risks, responsibilities and emergency reporting requirements.	Construction Contractor & ECW	Aberavon Promenade Preliminary Ecological Report and update		
PC.3.3	Avoid impacts on reptile species in compound area	Pre-construction checks for reptiles should be undertaken by the ECW in the scrub habitat in compound storage area location. Two stage strimming for clearance of ground vegetation may be required to safely disperse reptiles.	ECW	Aberavon Promenade Preliminary Ecological Report and update		
PC.4.4	Avoid designated habitats (Baglan Burrows SINC)	Defined working areas will be produced and included in the Contractor's Construction Method Statement. The works area will be strictly defined and fenced and vehicles and materials will be kept within this area.	Construction Contractor	Aberavon Promenade Preliminary Ecological Report and update		
5. Archaeological receptors						
PC.5.1	Avoid potential adverse impact on archaeological remains	Any requirements for Archaeological Watching Brief would need to be discussed with Gwent and Glamorgan Archaeological Trust (GGAT).	ECW	GGAT		
During Construction						
1. Human receptors						
DC.1.1	Avoid impacts from fugitive dust emissions on human	If weather during construction is sufficiently dry for dust to become a concern, wheel wash and dust	Construction Contractor	Institute of Air Quality		

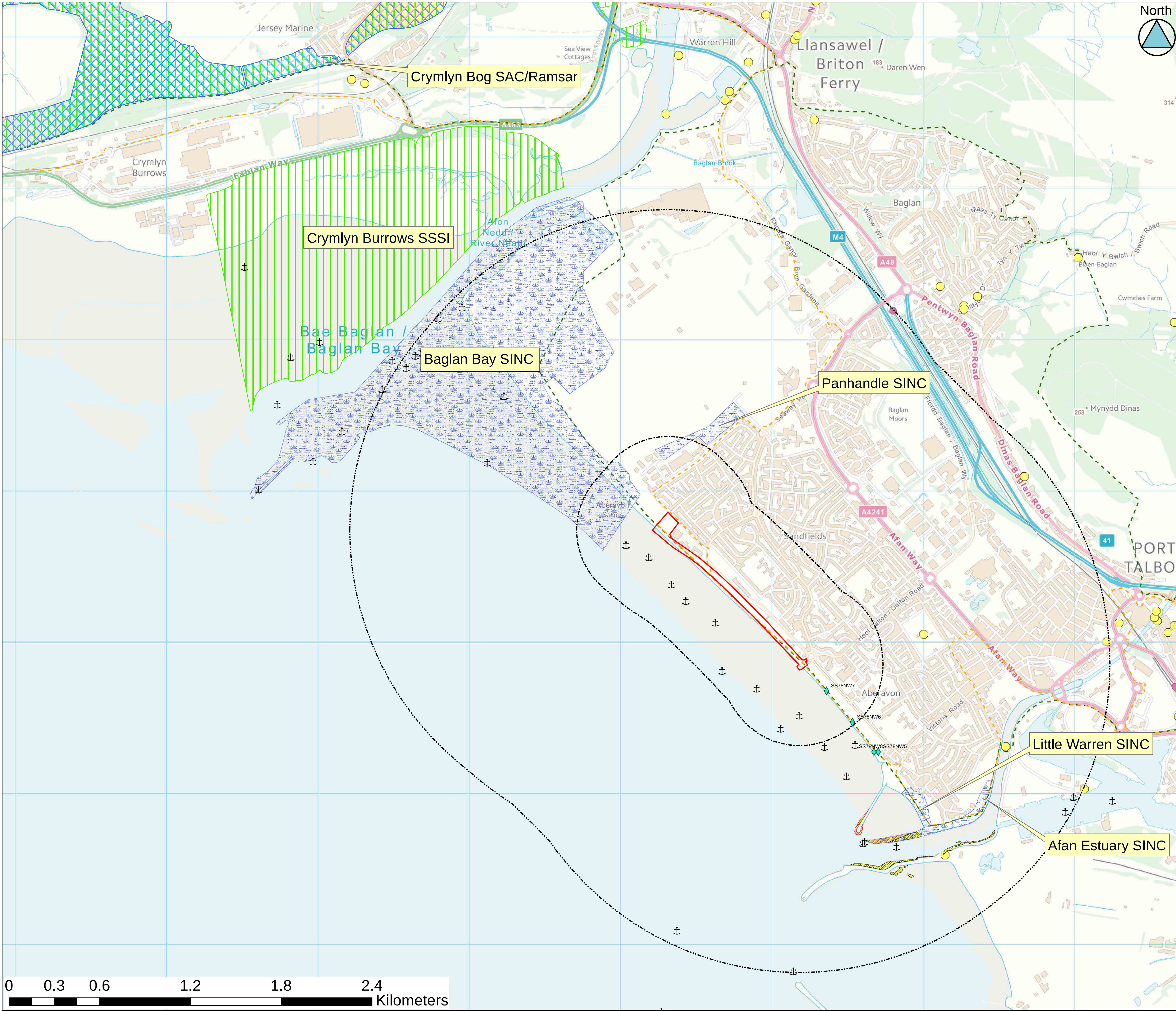
Ref.	Objective	Action	Responsibility	Ref. to further info.	Progress and further action	Sign off and date
	receptors and nearby ecological designations	suppression measures (such as water spraying from a bowser) should be undertaken as necessary to keep the construction access route and public roads free of dust. Any dust generated will be monitored and recorded. There will be no burning of construction waste on site.		Management (IAQM) Guidance on the assessment of dust from demolition and construction		
DC.1.2	Minimise impacts on recreational visitors	Construction will take place during the winter months to coincide with the quietest period for the local tourism industry.	Construction Contractor	http://tourismswanseabay.co.uk/swanseabay-tourism-area/port-talbot-aberavon		
DC.1.3	Minimise noise levels during construction to avoid impacts on residents and wildlife	The contractor should agree working hours with NPTCBC. Work outside normal hours (i.e. night-time working) should only be undertaken with prior agreement with NPTCBC. Consideration should be given to fitting noisy construction equipment with muffling or silencing equipment. All construction machinery will be well maintained and switched off when not in use, to decrease the levels of noise. Soft-start measures should be employed to avoid sudden noise increases.	Construction Contractor	BS 5228-1:2009 Code of practice for noise and vibration control on construction and open sites		
DC.1.4	Minimise additional congestion on the local road network	Any deliveries to the site should be phased, to avoid unnecessary queueing on the beach or within Aberavon (i.e. 'just in time').	Construction Contractor	Aberavon Promenade Traffic Impact Assessment		
2. Ecological receptors						
DC.2.1	Avoid impacts on any protected species or habitats present with the works area	Periodic checks of the site to be undertaken by the ECW during construction, with any actions updated in the CEMP	Construction Contractor & ECW	Aberavon Promenade Preliminary Ecological Report and update		

Ref.	Objective	Action	Responsibility	Ref. to further info.	Progress and further action	Sign off and date
DC.2.2	Avoid impacts on habitat designations	No construction activity (including gaining access) should take place within the Baglan Bay SINC.	Construction Contractor & ECW	Aberavon Promenade Preliminary Ecological Report and update		
DC.2.3	Protect marine mammals and fish from disturbance	A 'soft start' approach to any noisy works should be carried out each day to encourage ecological receptors away from the area. No piling works to be undertaken unless consulted with NRW in advance.	Construction Contractor & ECW	Aberavon Promenade Preliminary Ecological Report and update		
DC.2.4	Protect sea stock	Sea Stock is known to occur locally. If identified within works area any sea stock may need to be avoided or translocated. Consultation to be undertaken with the NPTCBC Biodiversity Officer.	Construction Contractor & ECW	Aberavon Promenade Preliminary Ecological Report and update		
DC.2.5	Protect Sabellaria	<i>Sabellaria</i> is known to occur locally. If identified within works area any Sabellaria should be avoided. Consultation to be undertaken with the NPTCBC Biodiversity Officer.	Construction Contractor & ECW	Aberavon Promenade Preliminary Ecological Report and update		
DC.2.6	Prevent the spread of non-native invasive species	Wheel washing facilities should be used by the contractor to clean wheels of vehicles entering the site, to ensure that biosecurity risk associated with bringing non-native invasive plants to the site is minimised. Biosecurity methods should be in line with the principles of Check, Clean, and Dry protocols.	Construction Contractor & ECW	http://www.nonnativespecies.org/checkcleandry/		
DC.2.7	Avoid the damage of maritime, subtidal and intertidal habitats via pollution and runoff	Pollution Prevention and Control Directions should be followed. All machinery must be checked regularly. Drip trays must be present when vehicles are idle or being refuelled. Emergency spill kits must be available at all times and workers trained in their use. All waste must be carefully contained and taken off site by an appointed waste management company.	Construction Contractor	NRW Guidance for Pollution Prevention: https://naturalresources.wales/guidance-and-advice/environmental-topics/water-management-and-quality/water-		

Ref.	Objective	Action	Responsibility	Ref. to further info.	Progress and further action	Sign off and date
		Biodegradable oils and fuels should be used wherever possible.		quality/guidance-for-pollution-prevention/?lang=en		
3. Water environment receptors						
DC.3.1	Avoid pollution of waterbodies	Pollution Prevention and Control Directions should be followed. Drip trays should be used to prevent oil leaking from machinery. If fuel spillages do happen they should be carefully contained and any contaminated material appropriately disposed of. Concrete repair works to be carefully planned with regards to tidal conditions to avoid impacting upon the marine environment.	Construction Contractor	Aberavon Promenade Coastal Water Framework Directive Assessment NRW Guidance for Pollution Prevention: https://naturalresources.wales/guidance-and-advice/environmental-topics/water-management-and-quality/water-quality/guidance-for-pollution-prevention/?lang=en		
DC.3.2	Avoid impacting on Aberavon Bathing Waters	Visual monitoring of the construction area should be undertaken daily during the construction period to identify any signs of sewage debris or any other contaminated materials, which should be removed offsite for disposal. This will minimise the risk of bacterial contamination adversely affecting beach users and construction personnel.	Construction Contractor	Aberavon Promenade Coastal Water Framework Directive Assessment		
4. Archaeological receptors						
DC.4.1	Protection of any archaeological remains encountered	If any features that are of potential archaeological interest are encountered, the works must cease within the vicinity of the find, and consultation would need to be undertaken with GGAT, and	Construction Contractor	GGAT		

Ref.	Objective	Action	Responsibility	Ref. to further info.	Progress and further action	Sign off and date
		agreement on proceeding with the works sort from NRW.				
DC.4.2	Avoid disturbing buried peat deposits.	Peat deposits of importance to archaeology are located at 5m AOD within the works area. Should works be required below 0m Ordinance Datum, then consultation may be required with GGAT, and agreement on the works sort from NRW. No piling to be undertaken as part of the works without consultation with GGAT and agreement from NRW.	Construction Contractor	GGAT		
Completion of construction						
CC.1.1	Avoid temporary landscape impacts from construction works becoming permanent	Ensure the construction site and access track is restored to a preconstruction condition on the basis of preconstruction condition surveys before closing down the site.	Construction contractor	Pre-construction condition surveys		

A Environmental Constraints Plan



LEGEND

- 2000m buffer
- 500m buffer
- Site
- Ramsar Sites
- Special Areas of Conservation (SACs)
- Sites of Special Scientific Interest (SSSIs)
- Local Nature Reserves (LNRs)
- Sites of Importance for Natures Conservation (SINCs)
- WFD higher sensitivity habitat: Mussel Beds
- WFD higher sensitivity habitat: Polychaete Reef
- Listed Buildings
- Shipwrecks
- Borehole Locations
- National Cycle Routes
- Public Rights of Way

KEY PLAN

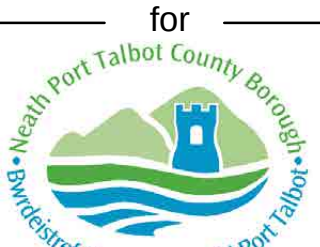


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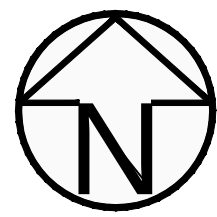
Environmental Constraints Plan

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Drawing Number: AJQ-JBA-00-00-DR-EN-0001-S8-P01-Environmental_Constraints	1 of 1	FINAL	

B General Arrangement Drawings



NEW CONCRETE SLIPWAY
(SEE AJQ-JBA-00-00-DR-C-5001 & 5002
FOR DETAILS)

NEW ROCK REVETMENT TOE PROTECTION TO
TIE INTO NEW SLIPWAY AND EXISTING ROCK
REVTMENT (SEE AJQ-JBA-00-00-DR-C-5001,
5002 AND 5003 FOR DETAILS)

NEW REVETMENT TOE PROTECTION TO TIE
INTO EXISTING ROCK REVETMENT (SEE
AJQ-JBA-00-00-DR-C-2002 FOR DETAILS)

NEW CONCRETE BEACH ACCESS STEPS TO
EXTEND FROM EXISTING STEPS AND THROUGH
THE NEW ROCK REVETMENT AT SIX LOCATIONS
(SEE AJQ-JBA-00-00-DR-C-3001 AND 3002 FOR
DETAILS)

NEW ROCK REVETMENT FORMED OF A
DOUBLE INTERLOCKING LAYER OF 1-3t
ARMOUR STONE (SEE
AJQ-JBA-00-00-DR-C-2001 FOR DETAILS)

CONCRETE REPAIRS TO EXISTING SEA WALL
AND STEPPED REVETMENT
(SEE AJQ-JBA-00-00-DR-C-6001 FOR DETAILS)

NEW REVETMENT TOE PROTECTION TO TIE INTO
EXISTING PEDESTRIAN ACCESS RAMP AND ROCK
REVTMENT (SEE AJQ-JBA-00-00-DR-C-2002 FOR DETAILS)

NEW BEACH ACCESS RAMP EXTENDING
FROM EXISTING RAMP THROUGH NEW ROCK
REVTMENT
(SEE AJQ-JBA-00-00-DR-C-4001 FOR DETAILS)

NEW REVETMENT TOE PROTECTION TO TIE INTO
EXISTING VEHICULAR SLIPWAY AND ROCK REVETMENT
(SEE AJQ-JBA-00-00-DR-C-2001 FOR DETAILS)

GENERAL ARRANGEMENT

SCALE 1 : 2000



• Excavation in front of sheet pile • Working in tidal environment • Working in an exposed coastal environment • Movement of plant in and around the sea • Unknown condition and structural capacity of existing revetment and access points	• Working on public amenity beach and public open space • Working adjacent to public right of way • Unauthorised site access	• Pollution hazards associated with working near the sea • Risk of damage to flora and fauna
Construction Risks	Public Risks	Environmental Risks
In addition to the hazards/risks normally associated with the types of work detailed on this drawing take note of the above. It is assumed that all works detailed on this drawing will be carried out by a competent contractor working, where appropriate, to an appropriate method statement.		

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX

Drawing Notes

- All dimensions shown are in millimetres unless otherwise stated and levels are in metres to Ordnance Datum.
- Do not scale from this drawing. All dimensions must be checked/verified on site.
- All works on the coast will be carried out with care to minimise the risk of pollution adhering to Pollution Prevention Guidelines.
- See AJQ-JBA-00-00-DR-C-0003 for general notes.
- All existing levels quoted on the drawings are from the time of survey. Levels and setting out should be checked by the site engineer to ensure their relevance at the time of construction.
- All materials and workmanship shall be as defined in the specification unless noted otherwise on drawings.

Key

- Site boundary = 5.1 ha
- New concrete steps
- New concrete ramp
- Rock Armour profile 1 (place rock on beach) =272m approx
- Rock Armour profile 2 (excavate to place rock) =950m approx
- Rock Armour profile 3 (excavate to place rock) =90m approx

	Comments									
Rev.:	Date		Drawn		Designed		Checked		Approved	
	Comments									
Rev.:	Date		Drawn		Designed		Checked		Approved	
	Comments									
Rev.:	Date		Drawn		Designed		Checked		Approved	
P04	Comments Minor adjustments									
Rev.:	Date	03/09/18	Drawn	RG	Designed	AF	Checked	AD	Approved	GK
P03	Comments Boundary line changed									
Rev.:	Date	12/07/18	Drawn	RG	Designed	AF	Checked	AD	Approved	GK
P02	Comments Base map corrected									
Rev.:	Date	02/07/18	Drawn	NF	Designed	AF	Checked	AD	Approved	GK
Client Approval										
A - Approved										
B - Approved with Revisions										
C - Do Not Use										
Purpose of Issue								Status		
Information								S1		

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ABERAVON PROMENADE DETAILED DESIGN AND BUSINESS CASE

GENERAL ARRANGEMENT

for



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