



Robin Hood's Bay Project Appraisal Report

Appendix P: Site Waste Management Plan

February 2016

Scarborough Borough Council

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Appendix P: Site Waste Management Plan

1 Introduction

1.1 Site Waste Management Purpose

The purpose of this Site Waste Management Plan (SWMP) is to address the efficient use of materials and resources at the earliest stage possible in the project. This can allow economic savings and increase the sustainability of the project. This can allow economic savings and increase the sustainability of the project. As a required appendix of the PAR submission, this SWMP acts as a preliminary issue.

A Site Waste Management Plan has three main aims (<http://www.sitewastemanagementplan.com/> accessed August 2015):

- To improve efficiency and profitability by promoting reuse, recycling and recovery of waste, rather than disposal;
- To reduce fly-tipping by keeping a full audit trail of waste removed from sites and complying with waste duty of care regulations; and
- To increase environmental awareness of your workforce and management – by ensuring workers are aware of their responsibilities.

1.2 Consideration of Waste

The Site Waste Management Plan Regulations (2008) make it a legal requirement for any construction projects within England with a value of £300,000 to complete a Site Waste Management Plan. A more detailed plan is needed for construction projects with a value over £500,000. It is the intention of the Environment Agency (EA) that any likely waste to be produced during construction works is identified and considered as early as possible to allow an assessment of possibilities for re-use or recycling of the material in addition to the potential impacts of the type of material produced.

Article 1(a) of the Waste Framework Directive defines 'waste' as: *"any substance or object which the holder discards or intends or is required to discard"*

'Waste management' is defined as: *"the collection, transport, recovery and disposal of waste, including the supervision of such operations and the after-care of disposal sites, and including actions taken as a dealer or broker"*.

This report considers the major waste materials that are likely to be produced through demolition and movement of materials required by the design of this project. Everyday site waste, such as packaging and general waste, has not been included as it is believed that these lie within the direct control of the contractor irrespective of the design. The consideration of legislation has been limited at this stage to an understanding of whether the wastes likely to be produced constitute either "hazardous" or "special" waste as defined by the law of England and Wales and European Council Directive, most notably referring to "The List of Wastes (England) Regulations 2005". It is important, however, that waste is considered as fully as possible in order that any significant impacts on time, cost or sustainability of construction are drawn out and mitigation requirements are considered. Therefore a list of the primary materials which are likely to be encountered during the construction has been made. These may or may not, constitute waste.

1.3 The Review of the SWMP

SA stated above the complete SWMP should be undertaken at a more appropriate time, most probably following completion of detailed design and by the Contractor. However, until then this document should be maintained and revised following any significant alterations to the design or input from other stakeholders.

This SWMP has been reviewed by the key members of the project team (as well as subsequent revision) who have advised on any possible errors and omissions and additional issues they feel need to be addressed at this stage in the interests of programme, cost and sustainability of construction.

2 Site Waste Management Plan

2.1 Responsibilities

Client	Scarborough Borough Council
Principal Contractor	TBA
Plan drafted by	Mott MacDonald
Notes and Amendments	None

2.2 Description of the Construction Works

The location of the construction works is on the seawall along the frontage at Robin Hood's Bay. Construction works are in 5 phases; phase 1-4 will involve the removal and replacement of concrete panels on the wall and the installation of galvanised anodes, 30% of the wall will be completed in each phase; phase 5 will involve the full replacement of the seawall casing. The estimated construction costs of the project are £9,063k.

2.3 Materials Resource Efficiency

Table 2.1 details the initial estimates for the primary material production and movement during the Robin Hood's Bay Seawall Works. The material descriptions and quantities are based on a preliminary assessment only and the final quantities of recycling and disposal of waste could be different when the final plan is prepared following detailed design. The intention may be to re-use the material on site or dispose of it off site and therefore the confirmation of waste materials needs to be made at the suitable time.

Table 2.1: Table to show initial estimates for production and movement of material in Robin Hood's Bay Seawall Works

Section of the works	Material and Usage Comment	Estimated Quantity	Hazardous or Special Waste?	Waste code	Possible additional delay/expense	Comments
General	General mixed site waste	TBC	TBC	N/A		Likely to be waste
Removing Concrete Panels	Concrete to be taken to the appropriate recycling or re-use facility	576m ³ per Phase (Phase 1-4) and then 1,920m ³ in Phase 5.	No	17-01-01	Sorting and transportation of concrete. May also require crushing. Additional cost for mobile crushing plant.	To be taken to waste recycling facility (waste exemption licence required)

Source: Waste codes derived from "The List of Wastes (England) Regulations 2005)

2.4 Conclusions

Of the materials initially identified, there are none that are considered either hazardous or special, as defined by the law of England and Wales or by the European Council Directive.

The Environment Agency has issued a Work Instruction to clarify how they will implement Site Waste Management Plans. This applies to all major projects. The appendices attached are examples of forms which will be completed during detailed design, construction and post construction:

- Appendix A – Site Waste Management Plan Checklist
- Appendix B – Site Waste Management Plan Datasheet

During Detailed Design, this SWMP will be fully developed in line with the most recent version of the work instruction and its requirements fulfilled.

Appendix A: Site Waste Management Plan Checklist

Planning/ Project Phase	Items to Consider	Comments
Planning and preparation	Have you set aside time to prepare your SWMP?	SWMP to be developed at detailed design stage.
	Have you considered the construction methods and materials that you can use to reduce the amount of waste your project produces?	To be developed at detailed design stage.
	Have you thought about ordering materials that have less or reusable/returnable packaging?	Unwanted packaging will be processed on site for recycling or re-use where reasonably practical.
	Have you recorded all of your waste reduction decisions in your plan?	To be developed at detailed design stage
Allocating responsibility	Has someone with authority been assigned overall responsibility for the SWMP?	To be done at contract award stage prior to commencement on site.
	Have you included a declaration from the client and principal contractor in your SWMP?	To be done at contract award stage prior to commencement on site.
Identifying your waste	Have you assessed the waste produced at each stage of the project - the types, how much and when, including the processes involved?	Preliminary estimates included at this stage. Further detail to be developed at detailed design stage.
Managing your waste	Has an area of the site been set aside for storing new materials and waste, including separate containers for different types of waste? You must store new materials separately from waste, and make sure storage areas are secure against vandalism.	To be developed as part of CMP at detailed design stage.
	Have you set targets for the different types of waste likely to be produced by the project? Include targets for the amounts of each waste type to be reused, recycled and disposed of.	Targets to be set at contract award stage using Appendix B.
	Have measures been put in place to deal with expected and unexpected hazardous waste?	Standard contractor procedures will be adopted for all waste including hazardous waste in the event of it being encountered.
	Have you considered whether you can reuse materials either on site or off site?	Concrete to be used where possible within works. Rock units to be reused by Tendring District Council along the frontage.
	Have you considered on-site and off-site processing and reuse of materials?	Concrete, rock, excavated sand and clay and timber can be re-used on site or recycled off site
Disposing of your waste	Have you considered how you will dispose of liquid wastes such as wash-down water and lubricants?	Disposal will be included in the relevant method statements.
	Have you got agreement from your water and sewerage operator for trade effluent discharge?	Not required
	Are you complying with your duty of care, including using waste transfer notes or consignment notes for all movements of waste from your site and checking the details of those removing the waste?	To be obtained during construction
	Has someone been made responsible for checking that loads of waste leaving your site are accurately described, and waste transfer notes and consignment notes are completed correctly?	To be done at contract award stage prior to commencement on site.
	Have you checked that every waste carrier you use is registered with your environmental regulator?	To be agreed prior to construction mobilisation.
	Have you identified your nearest waste sites?	Silverton Aggregates, Kirby-le-soken (or other to be agreed prior to commencement on site).

Planning/ Project Phase	Items to Consider	Comments
	Have you checked that all sites receiving your waste have the appropriate permits, licences or registered exemptions?	To be done at contract award stage prior to commencement on site.
	Have you considered how to reduce disposal costs by reusing or recycling waste materials with a commercial value?	All waste material to be reprocessed to be re-used where possible.
Organising materials and waste	Have you assessed the quantities of materials you need to order to reduce over-ordering and site waste?	Quality procedures to be implemented to manage and control take off's, procurement, delivery, storage and usage of materials.
	Can you return unused materials to the supplier, sell them or use them on another job?	Excess material can be used by Tendring District Council elsewhere on Clacton and Holland-on-Sea frontage.
	Have you considered using recycled materials?	Secondary materials will be utilised where possible in compliance with drawings and specifications. Contractor to explore opportunities during detailed design stage.
	Can you return unwanted packaging to the supplier for reuse or recycling?	Unwanted packaging will be processed on site for recycling or re-use where reasonably practical.
	Will you separate different types of waste to get the best value from good waste management practices?	Management to be agreed prior to construction mobilisation.
	Have you labelled containers and skips clearly to avoid confusion? Colour coding your containers could help.	Management to be agreed prior to construction mobilisation.
	Are your storage areas secure and weatherproof to prevent wind and rain damaging your materials?	It is considered that wind and rain will not cause damage to the materials in question.
	Have you covered or netted any loose materials to prevent them being spread and possibly causing pollution?	Beach recharge material will not need any form of netting. No other loose material identified.
	Is everyone who will handle waste aware of the SWMP requirements?	To be done at contract award stage prior to commencement on site.
Communicating and training	Have you planned site inductions and toolbox talks for all site staff?	These will be implemented during the construction phase.
	Are contractors and subcontractors trained and aware of their responsibilities?	Contractors and sub-contractors will be selected for their competence and abilities, with the selection process being recorded.
	Have contractors and subcontractors understood and agreed the SWMP?	Contractors and sub-contractors will sign the final SWMP prior to commencement of construction.
	Are SWMP requirements built into contracts?	The SWMP is to be incorporated into the contract and sub-contract conditions.
	Are you carrying out spot checks and monitoring your staff regularly to make sure they are following procedures?	Management to be agreed prior to construction mobilisation.
Measuring and monitoring your waste	Are you updating your plan every time waste is removed from your site?	Management to be agreed prior to construction mobilisation.
	Are you checking the SWMP regularly and making sure targets are being reached?	Targets to be set at contract award stage using Appendix B.
	Is the agreed waste management procedure being checked and monitored regularly?	Management to be agreed prior to construction mobilisation.
	Are you producing regular reports on waste quantities, treatment/disposal routes and costs?	Management to be agreed prior to construction mobilisation.
	When construction is underway, are you making	Management to be agreed prior to

Planning/ Project Phase	Items to Consider	Comments
	notes of problems and recording them for your next plan?	construction mobilisation.
Reviewing the success and learning lessons for the future	Have any issues or problems been taken into account for action in future projects?	To be recorded during construction.
	Is there a copy of the SWMP at the project site? You must keep it for two years at either the project site or at the principal contractor's office.	Management to be agreed prior to construction mobilisation.

Appendix B: Site Waste Management Plan Datasheet (http://www.netregs.gov.uk/static/documents/NetRegs/SWMP_waste_data_form.doc accessed August 2015)

