

## Hempyard Bridge, Ixworth Site Waste Management Plan

Document Reference: **5101354-MIL-SBR-ZZ-RP-LE-7004\_S2\_P01 Site Waste Management Plan**

Project Name	Hempyard Bridge, Ixworth		
Contract No.	<b>5101449</b>		
Project Address	Hempyard Bridge, The Paddock, Ixworth, West Suffolk, Suffolk, England, IP31 2HG		
Project Start Date	<b>TBC</b>		
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## 1 Introduction

This Site Waste Management Plan (SWMP) has been produced to ensure waste arisings are managed in accordance with legal compliance and best practice.

This Plan provides detail on how waste will be managed during the construction phase. Effective management arrangements will support:

- Legal compliance
- Best practice
- Milestone Infrastructure targets as detailed in Section Six

This plan details the scope of the work activities, the waste types and quantities associated with the proposed activities and the way in which these wastes will be managed.

The Waste Hierarchy (the Hierarchy) is the key underlying principle that must underpin all waste management activities during the Project. The waste hierarchy can be seen in Figure 1 - The Waste Hierarchy.

Application of the Hierarchy must begin at pre-construction phase as to design the project such that materials required, and waste produced are reduced as much as practicable.



Figure 1 - The Waste Hierarchy (European Commission, 2023)

The Hierarchy ranks waste management options from in order of environmental sustainability (DEFRA, 2023); prevention being the most sustainable, and disposal the least.

## 2 Requirements of this SWMP

This SWMP has been designed to encourage effective waste management practices, improve environmental performance, reduce the cost of waste disposal, and ensure regulatory compliance.

All waste materials sent off site, either for reuse, recovery, recycling, or disposal will be transferred, treated, and disposed of in accordance with the Legal Duty of Care required by the Environmental Protection Act 1990 and the Waste (England and Wales) Regulations 2011.

In line with best practice Milestone Infrastructure will ensure full Duty of Care compliance through the associated supply chain, including completion of pre-engagement audits and ad hoc spot checks on waste carriers and disposal facilities, throughout the duration of the contract or project.

The information and data required by this plan will be recorded using the Waste Management System (WMS) on the [Environmental Reporting Hub - Home \(sharepoint.com\)](#).

The Project Manager and Environment Advisor will review this SWMP for every project or scheme prior to construction and periodically throughout lifetime of project or scheme.

### 3 Project Description

Site Address:	Scope of Works
Hempyard Bridge, Ixworth	<p>Hempyard Bridge is a three span masonry arch structure. The central span is 4m, with 1.4m side spans. The bridge has a clear width between parapets of 4.2m at the middle of the bridge and increases towards the bank due to the plan splay of the bridge.</p> <p>The bridge has been described as being in very poor condition, with severe cracking, spalling and mortar loss evident throughout the structure. The primary cause for concern is the condition of the southwest wingwall where a significant rupture/crack extends through the arch barrel, spandrel wall and parapet. In June 2016 a temporary timber walkway was installed as an interim measure to relieve loading effects on the structure, and to enable the bridge to remain open for pedestrian and equestrian.</p> <p>A detailed special inspection was undertaken in October 2017 to determine the extent of the defects. Repair and maintenance works have been proposed and to be undertaken on the bridge to improve the condition of the bridge and enable the temporary timber walkway to be removed.</p>

## 4 Roles and Responsibilities

This SWMP has been produced in line with the Construction, Design and Management (CDM) Regulations in terms of the roles which are required to be specified.

**Client:** Suffolk County Council

**Principle Contractor:** Milestone Infrastructure Limited

**Document drafter:** Richard Hardeman

**Environmental Lead and document reviewer:** Charlie George

**Document approver:** Neil Carter

**Subcontractor Name(s):** TBD

This SWMP will be maintained on a regular basis by Milestone Infrastructure. A live version of the SWMP will be held for works on Procore and/or local shared drives.

## 5 Waste Reduction Principles

Milestone Infrastructure has made a commitment to manage waste in accordance with a set of guiding principles details in the Site Waste Management Plan. These principles include the use of the waste hierarchy whereby disposal is the least desired option. The waste hierarchy shall be applied as follows:

- Prevention and Reduction
- Reuse
- Recycling
- Energy Recovery
- Disposal

The purpose of the waste hierarchy is to reduce the amount of waste that is generated for disposal by implementing management techniques to ensure that alternative outcomes to disposal are achieved. Other principles of waste management to be applied to this project/ scheme include:

- Circular economy principles – understanding the value of materials and waste for suitable repurposing back into the project or network
- The Proximity Principle – this includes provision for the management of waste as close to the point of generation as possible to avoid transport impacts
- Best Available Techniques – this includes using the method of the lowest environmental impact to manage wastes
- Use of industry trends and innovation to ensure latest best practice is used

Milestone Infrastructure will draw upon operational experience to ensure that the principles of waste management are implemented at all times, with the primary emphasis on the reduction and prevention of waste arisings. This will be achieved in the following ways:

- Identify value engineering opportunities with client/designers during design stage
- Identify circular economy principles with client/designers during design stage
- Setting out and working towards waste management targets
- Getting it right first time (to reduce the need for rework and waste generation)
- Reviewing all method statements to emphasise waste reduction
- Driving down over ordering of materials which can result in excess materials at the end of the job
- Ensuring that materials are delivered, stored and handled with care
- Ensuring that staff and operatives are trained in waste reduction techniques
- Creation of Material Management Plans were appropriate (see MIL\_VPRO\_ENV\_005 Reuse of excavated material)

Where required for mirror waste entries, including but not limited to soils & stones and asphalt, appropriate sampling and analysis shall be undertaken to inform waste classification using HazWasteOnline (or similar).

## 6 Waste Metrics and Targets

All Milestone Infrastructure projects and schemes shall seek to achieve zero waste to landfill as an overriding waste management ambition.

Milestone Infrastructure targets are:

- 98% of waste diverted from landfill

- 30,000t of materials recycled via permits annually

Therefore all projects and schemes will be required to measure waste arisings by entering the waste transfer note data into the Waste Management System (WMS) on the [Environmental Reporting Hub - Home \(sharepoint.com\)](#).



## 7 Work Activities Waste Streams

Different activities will generate different waste streams, some of which will be reused and recycled on site and reused or disposed of off-site by third party contractors.

The table below identifies waste streams which are associated with each activity planned for the project, the European Waste Code (EWC) and potential methods of managing the waste.

Note: No MMP or waste classification needed if material used for backfill

**Table 1 - Wastes by Work Activity for the scheme**

Activity	Waste Material	Waste Code	Potential Management Method
<b>Vegetation Clearance</b>	<b>Green waste</b>	<b>20-02-01</b>	<b>Virgin timber is not considered to be a waste and is planned to be used as habitat piles for biodiversity enhancement, subject to landowner permission. (BEST ENVIRONMENTAL OUTCOME). Green matter is a waste and should be send off-site to be composted. Any invasive species (plant tissue, roots, and soils) will require treatment on site or removal from site to an adequately permitted treatment facility or landfill (their permit must specifically mention invasive species wastes).</b>
<b>Removal of Timber Bridge</b>	<b>Timber</b>	<b>17-02-01/17 02 04</b>	<b>Where the timber is suitable for use in the project, retain and reuse it as a non-waste (BEST ENVIRONMENTAL OUTCOME). Assess waste timber in accordance with MIL_VPRO_ENV_021 process on MIMS.</b>

			<p><b>Hazardous and non-hazardous waste wood should be sent off-site to an adequately permitted recycling, Energy-from-Waste (EfW), or incinerator facility.</b></p>
<b>Bridge Repairs</b>	<b>Engineering Bricks</b>	<b>17-01-02</b>	<p><b>Demolition materials may be treated (crushing, screening, etc.) and reused as a non-waste by using a Materials Management Plan (BEST ENVIRONMENTAL OUTCOME).</b></p> <p><b>Where the material generated from the bridge cannot be retained on site, it must be removed as a waste to an adequately permitted recycling facility.</b></p>
<b>Bridge Repairs</b>	<b>Soil and Stones</b>	<b>17-05-03/17 05 04</b>	<p><b>Soil and stone may be retained and reused as a non-waste by using a Materials Management Plan (BEST ENVIRONMENTAL OUTCOME).</b></p> <p><b>Where soil and stone cannot be retained on site it may be reused on another site as a non-waste by using a Materials Management Plan.</b></p> <p><b>Where soil and stone cannot be reused as a non-waste, it must be removed from site as a waste to an adequately permitted recycling facility. Soil and stone waste must be sampled and tested to determine</b></p>

			whether it is hazardous or not.
Site Compound demobilisation	Capping Material – Recycled materials 6F2 or similar.	17-05-04	As part of the compound demobilisation the capping material will be required to be removed from site as a waste to an adequately permitted recycling facility. Soil and stone waste must be sampled and tested to determine whether it is hazardous or not.
General waste from welfare	General waste and dry mixed recyclables	20 03 01	Send off-site for recycling off-site at a Material Recovery Facility with the appropriate environmental permit; or Send off-site for disposal at a landfill with the appropriate environmental permit.
General construction activities	Mixed construction waste	17 09 04	Send off-site, to a facility with an appropriate permit or exemption, for treatment and recycling.
Concreting	Hazardous packaging and containers (paint, resin, ready mix)	15 01 10*	Send off-site, to a facility with an appropriate permit or exemption, for treatment and recycling; Send off-site, to a facility with an appropriate permit or exemption, for energy recover (incineration); or Send off-site for disposal at a site possessing a relevant environmental permit.

## 8 Control Measures

Milestone Infrastructure will operate in accordance with industry best practices and requirements of relevant legislation and planning conditions pertinent to the scheme. Training in waste management and minimisation will be delivered to all operatives on the site as appropriate.

### 8.1 Supplier Controls

In accordance with MI best practice, the following supplier activities should be prevented during the Project:

- Unauthorised keeping, deposit, or disposal of waste on the Site or another site;
- Release or escape of waste on the Site or another site;
- Unauthorised treatment of waste;
- Unauthorised carrying of waste;
- Unauthorised treatment of waste; and
- Mixing of hazardous and non-hazardous waste streams.

### 8.2 Measures

Pre-appointment audits must be performed on the waste carrier and the waste facility receiving the waste to ensure they hold the correct Waste Carriers Licence (WCL), Environmental Permit, and / or Environmental Exemption to carry, store, treat, recover and / or recycle the proposed waste streams.

Audits should be performed on the appointed waste carriers and waste facilities to ensure that they are handling the Project's waste in accordance with the waste duty of care: code of practice and the Environmental Protection Act 1990 (Waste Management guidance for more detail). These audits must be performed regularly and must comprise of:

- Review of waste transfer notes produced for the transfer of waste between the Site and the appointed waste carrier;
- Review of waste transfer notes produced for the transfer of the Site's waste between the appointed waste carrier and the appointed waste facility; and
- Review of waste transfer notes produced for the transfer of the Site's waste between the appointed waste facility and the subsequent waste facility where the waste is recovered or disposed (if applicable).

Occasional in-transit audits must be performed. During an in-transit audit, a site operative must follow the waste carrier from the Site to the appointed waste facility to ensure their compliance to section Supplier Controls.

### 8.3 Hazardous Waste

Hazardous wastes must be transferred to the appointed waste carrier using a consignment note, as opposite to a waste transfer note for non-hazardous waste.

As the waste producer and the waste holder we must include, or if completed on our behalf by the appointed waste carrier or appointed waste facility, check that the consignment note includes all the required. It is an offence to exclude any section of the consignment note.

The appointed waste facility managing the hazardous waste produced on the Site must provide a quarterly consignee return to the Project. The consignee returns should be audited by the Environmental Advisor on a quarterly basis. All hazardous waste must be managed in accordance with the Hazardous Waste (England and Wales) Regulations 2005, and other relevant acts, legislation, regulations, and guidance.

#### 8.4 Waste Sampling, Testing and Assessment

All waste must be sampled to a predetermined sampling frequency, in accordance with MIL\_GUI\_ENV\_004 Waste Management Guidance and MIL\_FOR\_ENV\_013 Sampling Plan and Instructions/ Contract Sampling and Analysis Plan.

All waste must be scheduled and tested to a predetermined suite of analysis, in accordance with MIL\_GUI\_ENV\_004 Waste Management Guidance and MIL\_FOR\_ENV\_013 Sampling Plan and Instructions/ Contract Sampling and Analysis Plan.

All waste testing data must be assessed by the Environmental Advisor, or a member of the Environmental Technical Team before it is transferred to the appointed waste carrier, or it is transferred directly to the appointed waste facility by a member of the project team.

#### 8.5 Material and Waste Reuse

Where a project intends to reuse excavated or demolish material on site of origin or clear naturally occurring material on another site, a material management plan or U1 Waste exemption and register will be required. Refer to MIL\_VPRO\_ENV\_005 Reuse of Excavated Material Process.

For projects live for less than 6 months, low tonnages (<800t), client not requested MMP, then follow the U1 Waste Exemption conditions [U1 waste exemption: use of waste in construction - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/u1-waste-exemption-use-of-waste-in-construction) and complete and maintain appendix 3 on this document.

## 9 Training and Communication

### 9.1 Training

All those working on site should receive relevant training which should include the SWMP, roles and responsibilities, waste minimisation methods, waste procedures on site, information on hazardous wastes, Duty of Care responsibilities, materials storage and information on spill response.

Milestone Infrastructure will deliver the following types of training to all operatives as appropriate to support the waste management objectives including:

- Site Induction
- Toolbox talks

All records of training will be recorded on a briefing sheet which will be held in site folders on Procore and local share drives. [Portfolio • Milestone Infrastructure \(procore.com\)](#).

For managers, supervisors and other members of staff that hold a high level of responsibility of schemes/projects waste, additionally training through the METS Waste course shall be completed if staff have not already received the appropriate training within the last three years. This shall be organised and completed by the local Environmental Advisor.

### 9.2 Communication

This plan will be communicated via pre-start meetings and two-way feedback between staff, operatives, and sub-contractors.

## 10 Waste Tracking

Milestone infrastructure will track waste arising from the works using the WMS reporting system on Environmental Reporting Hub. The Project/scheme will report the progress against the waste management KPIs identified in Section Six of this document and against any client KPIs.

## 11 Waste Records

The Project must retain the following waste records for a minimum period of 6 years, as dictated by HM Revenue & Customs (HMRC):

- Environmental permits for the Site (if applicable);
- Environmental exemptions for the Site (if applicable);
- Waste carrier license(s) for all appointed waste carriers;
- Environmental permit(s) for all appointed waste facilities;
- Environmental exemption(s) for all appointed waste facilities; and
- Waste transfer notes for the transfer of waste from the Site to the appointed waste carrier.

In the instances of hazardous waste management, the following waste records must be retained for a period of 6 years, as dictated by the Hazardous Waste (England and Wales) Regulation 2005:

- Consignment notes for the transfer of hazardous waste from the Site to the appointed waste carrier, and from the appointed carrier to the appointed waste facility; and
- Quarterly consignee returns from the appointed waste facility.

Appointed contractor licenses, permits, and / or exemptions should be recorded in Appendix 2 and Appendix 3 of this SWMP.

The project/scheme Site Agent will ensure that the SWMP is maintained for the duration of the project.

Waste analysis and records can be reviewed on the [Waste and Monthly Report Dashboard](#) via the Environmental Reporting Hub.



## Appendix 1 – Project Waste Forecast & Duty of Care information – Disposal Sites\*

Waste type	EWC Code	ESTIMATED volume m3	Contractor / Sub-Contractor	Approved disposal site(s)	Permit reference (s)	Expiry date
Green Waste	20-02-01	3	TBD	TBD	TBD	TBD
Green waste (invasive species)	20-02-01					
Timber	17-02-01	4	TBD	TBD	TBD	TBD
Hazardous timber	17-02-04*	TBD	TBD	TBD	TBD	TBD
Soil and Stones	17-05-04	15	TBD	TBD	TBD	TBD
Non-hazardous mixed C&D waste	17 09 04	TBD	TBD	TBD	TBD	TBD
Hazardous mixed C&D waste	17 09 01*/17 09 02*/17 09 03*	TBD	TBD	TBD	TBD	TBD
Engineering Bricks	17-01-02	1	TBD	TBD	TBD	TBD

\*if using farms for disposal who hold the appropriate U1 waste exemption, the U1 user agreement form must be signed by both Milestone Infrastructure and the exemption holder and filed in the site folder.

### Appendix 2 – Duty of Care information – Waste Carriers

Waste contractor	Registered Address	Registration No.	Registration Date	Expiry Date
TBD	TBD	TBD	TBD	

### Appendix 3 -U1 Waste Exemption Register

For projects live for less than 6 months, low tonnages (<800t), client not requested MMP, then follow the U1 Waste Exemption conditions U1 waste exemption: use of waste in construction - GOV.UK (www.gov.uk)

U1 Registration Number	Holder	Date of registration	Date of expiry	EWC	Quantity	Location of excavation	Location of Disposition	Date of movement
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A