



URBAN SPLASH CONSTRUCT

ENVIRONMENTAL AND WASTE MANAGEMENT PLAN

NI3C

COMMENCEMENT DATE
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'This plan has been formulated for the management of waste for Phase 2 of Port Loop Development. Wherever possible we will recycle our waste.'

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1) WASTE MANAGEMENT PLAN SUMMARY

Anyone planning a construction project costing more than £250,000 must by law produce, keep and maintain a site waste management plan.

The responsibility for writing and implementing the site waste management plan is with the principal contractor

Local Authorities and the Environment Agency will enforce the legislation and impose penalties for failure to make, keep, or produce a Site Waste Management Plan.

The purpose of this site environmental and waste management plan is to implement, manage and reduce the quantity of waste created at NI3

The following benefits for this waste management plan are as stated below:

1. Queries from the waste regulation authority can be answered simply and easily.
2. Materials and waste are managed responsibly and will therefore be less risk to the environment.
3. It shows how our waste will be managed and may help to reduce costs.
4. Information that can be used to set targets, costs and reduction of waste for the following phases of the project.
5. Improve re-use and re-cycling rates
6. Provide a greater resource efficiency

As Principal Contractor, Urban Splash Build will:

- Obtain relevant information from sub-contractors
- Update the SWMP at least every three months as the project progresses
- Keep the SWMP on site during the project
- Ensure that other contractors know where the SWMP is kept



- Allow other contractors and the client access to the SWMP during the project
- Hand the completed SWMP back to the client at the end of the project
- Keep a copy of the SWMP for two years.

The Waste Management Plan will consist of the following information:

- Who is responsible for managing and updating the plan? (see table below:)
- Quantities and types of waste that will be generated on site and targets for reduction, re-use and recycling.
- Where the site waste will be disposed of to ensure that 'duty of care' requirements are met.
- Details of arrangements for measuring, monitoring and reporting on the waste streams to ensure that waste targets are met.

2) RESPONSIBILITY FOR WASTE MANAGEMENT

Name	Position	Location	Telephone No.
Ashley terron	Construction Manager	Head Office - Manchester	0161 8392999
Craig williamson	Site manager	Site	07742 162169
Kevin Colleran	Safety Consultant	Rawlings Consultancy Services - Liverpool	0151 4808968

As Project Co-ordinator with day to day responsibilities for, health, safety and environmental management, Dave Rodgers is the nominated responsible person, for ensuring this plan is kept and updated throughout the project.



3) IDENTIFICATION OF TYPES OF WASTE ON SITE

The three different types of waste that will be found on site are as follows:

INERT WASTE – Waste that will not decompose to cause green-house gases
(i.e. Rubble, concrete, glass, metal).

ACTIVE WASTE – Waste that will rot and decompose and does not contain dangerous substances
(i.e. Food, Paper, Cardboard, Timber)

HAZARDOUS WASTE – Waste that contains dangerous substances which is dangerous to human health and the environment.
(i.e. Asbestos, chemicals, fuels.)

Phase 1 will have different work activities throughout the 3 years and there will be many different types of waste that will arise from works on site.

IDENTIFYING YOUR WASTE MANAGEMENT OPTIONS STEP 3)

Urban Splash Construct will follow the waste hierarchy controls and choose the most suitable;

- **Eliminate** – Avoid producing the waste in the first place.
- **Reduce** – Minimise the amount of waste produced.
- **Re-Use** – Use items as many times as possible.
- **Recycle** – Recycle what you can only after you have re-used it.
- **Dispose** – Dispose of what's left in a responsible way.

4) WASTE STORING – SKIPS

Skips will be provided on site main sub contractors and each will be responsible for collection of waste that is produced on site. All skips will be easy to reach and access, and clearly labelled regarding what type of skip it is.

The USC site team will ensure that all skips are not overloaded therefore will be monitored and emptied on a regular basis.



All skips that contain waste that is at risk of blowing away will be covered/protected to prevent this. All skips that need to be covered to prevent contaminated water run-off from the rain will be protected as required.

5) USC COLLECTIVE WASTE

▪ GENERAL OFFICE WASTE

This will include paper, general canteen and welfare waste and paper towels. All waste will be bagged in black bin bags and placed in the general waste skip and collected by a recycling centre to be nominated where they will separate the waste materials into loads for either recycling or sent to an active landfill.

▪ NON RECYCLABLE WASTE

All non recyclable waste shall be placed in its own specific skip and be collected by the subcontractors designated waste carrier. Copies of all waste transfer notes are to be issued to USC for record

▪ WOOD

There is a wood skip on site which will be used for scrap wood. From this skip all wood that can be recycled is sent to a recycle centre and is created as MDF. The non-recyclable wood goes to an incinerator.

▪ METAL

The designated metal skip on site when full will be picked up by the subcontractors waste carrier, which in turn will be transferred to the appropriate metal recycling facility.

▪ CHEMICALS

To prevent pollution to the ground by oils, fuels, solvents and other chemicals the following measures will be taken in storing and disposal of these materials:

- Have safe procedures to avoid any spillage
- Provide training and supervise employees
- Dispose properly of all chemicals

▪ CHEMICALS cont'd

- Provide tool box talks and give clear procedures on how to deal with spillages.
- Install bunding around all storage areas, even temporary fuel stores.
- Maintain equipment and storage vessels in good condition.
- Provide drip trays for plant and equipment that may leak.
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▪ **PAINT**

All paint that is finished with will be disposed of in the general waste skip and taken off site by the subcontractors waste carrier. Any other wet liquids will have to leave site as specialist waste

▪ **INVASIVE PLANTS**

If invasive plants are found on site USC site team will seek advice from specialists who will provide further details on how best to treat and dispose of these plants. Invasive plants are plants that have been introduced where they do not naturally occur as non-native species which are bigger, faster growing and more aggressive than the native species. The following are types of invasive plants:

- *Giant Hogweed*
- *Giant Kelp*
- *Japanese kelp*
- *Japanese seaweed*
- *Himalayan Balsam*

All waste transfer notes from USC and its subcontractors arisings are documented on a monthly basis with calculated quantities of waste held within the waste management file. All documentation will be kept on site in the file for two years,



MANAGEMENT AND ORGANISATION OF SITE MATERIALS AND WASTE HANDLING

USC and its subcontractors will attempt to reduce the amount of waste by pre-ordering materials to specification and avoid over ordering.

Where possible, recycled or previously used materials will be used.

COMMUNICATING THE PLAN

A copy of the Environmental and Waste Management Plan will be communicated to all contractors on site, as part of the pre-let and induction process to ensure that everyone is aware of the guidelines laid down with regard to site waste management and the importance of recording the correct paperwork, receipts, destinations of materials etc.

MEASURING WASTE

Once the plan is in use on site, Urban Splash Construct will measure its effectiveness, including;

- Record how much and what type of waste is being produced, including
- Volume (e.g. number of skips)
- Value (e.g. cost of disposal)
- Weight (e.g. weighbridge tickets returned to you)

These costs can be recorded against;

- Value of project
- Area of build floor-space
- Volume of building

MONITOR THE PLAN

The responsible person will monitor the success of the plan periodically throughout the project

REVIEW AND LEARN

By the end of the project, the site waste management plan should give an accurate record of how effectively USC have managed the materials on site, and how well the targets for waste management were met.



The information can also be used for future construction projects in determining the value of the process, its impact on the cost of the project and its benefit to the environment.

OTHER KEY ENVIRONMENTAL CONSIDERATIONS

Working Hours

Working hours are restricted to 08.00am to 16.30pm, Monday to Thursday and 08:00am to 15.30pm on Friday. Saturday working will be with the agreement of USC management. No work will occur on Sundays or Bank Holidays without the prior consultation with the appropriate authorities.

Timber Procurement

All timber based products to be sourced from legal and sustainable sources and carry independent certification as proof of compliance.

Project Specific Environmental Hazards

- Timber from sustainable sources
- General materials storage
- Oil storage
- Noise, vibration and dust (especially from demolition/piling operations)
- General waste
- Hazardous waste
- Crushed concrete
- Static plant
- Mobile plant

Construction Targets

- Target zero pollution incidents
- Measure energy use as follows;
 - Sub contractors to issue copies of fuel, gas, oil etc
 - Where electricity meter is installed, readings to be taken monthly and noted
 - Water use to be monitored
- Crushed materials to be used where approved by structural engineer
- Sub contractors to target zero pollution
- Full compliance to be achieved with the site waste management plan.



Energy Conservation Measures

The following energy conservation measures will be considered

- Low energy fluorescent lighting to be used in all cabins, and for all temporary lighting

Energy Conservation Measures cont'd

- Where timers are fitted to the heater circuits they will be set to turn off at 18:00hrs and come back on at 07:00hrs, except for the drying room and reception area, where the heaters will be set to a lower setting when not in use. For cabins with not timer, the heaters are to be turned down to the lowest setting by the last occupant when they leave for the night
- External compound lights will be fitted with PIR detectors for night security
- Plant to be kept well maintained and switched off when not in use.

Materials Management

The following materials management measures will be employed:

- All hazardous materials will be kept within a locked storage area, and access to these materials will be restricted to those who have viewed the COSHH assessment for the particular material.
- All timber products are to be from a Chain of Custody source to ensure legality and sustainability. (Forest Stewardship Council (FSC), Canadian Standards Association (CSA), Programme for the Endorsement of Forest Certification Schemes (PEFC), North American Sustainable Forest Initiative (SFI) Where this is not possible the client will be informed and alternative timbers proposed.
- All bulk materials are to be stored on the hard standing as existing in the car park area adjacent to site cabin set up.

Oil, Fuel and Liquid Chemical Storage

The storage of oil containers with a capacity of more than 200ltrs or more will comply with the requirements of the control of pollution (oil storage) regulations as follows

- Oil drums are to be stored on proprietary secondary containment systems that will contain 110% of the contents of the largest container, or 25% of the total, whichever is greater. These are to be protected so as to minimise the ingress of rainwater and secured against unauthorised discharge.



- All bulk storage tanks are to be integrally banded proprietary tanks. The tanks are to be located within the compound area of the site, away from general traffic movements and surface water drains, and secured against unauthorised discharge
- The site manager is to be notified of all spillages, however minor.
- A spill kit will be available on site.
- Oils and other chemicals in containers with a capacity of less than 200ltrs will be stored within a locked store; again, only authorised personnel will be issued with a key to this store.

Oil, Fuel and Liquid Chemical Storage

- Subcontractors storing oil or chemicals are to set up similar arrangements to the above. The location of oil storage areas and procedures must be agreed with USB site management prior to any deliveries. No storage will be permitted within 10m of the stream of surface water drains.

Community Relations

The site is close to a residential area; therefore noise, vibration and dust are the main concerns.

The following measures are to be considered for each scheme:

- A news letter to be sent out before the start of the project, introducing the project team and giving a brief outline of the project, and at regular intervals throughout the project. The news will include site contact details, name and telephone number as the point of contact.
- The local authority's Environmental Health Officer is to be contacted, and the details of the project discussed.
- Site management will take immediate action on receiving a complaint, and respond to any complaint by the end of the next working day.
- The working hours will be as per the planning conditions.
- All plant and machinery to be switched off when not in use
- During dry periods dust suppression will be used.

CONCLUSION

Urban Splash Construct takes its legal and moral responsibility under environmental legislation seriously, and will make every effort to ensure that the effect on the environment from the project will be minimised as much as possible, with proactive measures as described throughout this Environmental and Site Waste Management Plan being implemented.



The production of waste material on this site is to be avoided wherever possible by following the hierarchy of risk control, Eliminate, Reduce, Re-Use, Recycle or Dispose.