


<b>SS EMP</b>	<b>NCH Project – Main Contract Phase A</b>			
<b>Site Specific EMP</b>	Note: Always print or copy to double-sided pages	REV: 09	Date: June 2017	<b>Site Specific EMP</b>

The potential for the construction works to have an impact on the quality of the local watercourses shall be minimised through the implementation of the following control measures, which have been developed with reference to the guidance contained in EP-10 Surface Water Control, EP-13 Bulk Fuel & Oil Storage, EP-14 Storage & Handling of Hazardous Substances and EP-15 Containing & Cleaning Up Spills and the IFI (2016) Guidelines on Protection of Fisheries during Construction Works in adjacent to Waters.

Control measures to be implemented include;

- *Care shall be taken to avoid interference with the supply or quality of any groundwater resource.*
- *Waste products associated with the works shall not be permitted to enter watercourses adjacent to the works through the use of French drains, petrol interceptors or other agreed methods.*
- *Water that is high in solids or contaminated with cement or oil, shall not be pumped from excavations directly to watercourses without pre-treatment (e.g. sedimentation/ filtration and oil separation).*
- *All site run-off associated with the construction shall be directed to storm control areas or tanks to prevent direct discharge into the river.*
- *All operational machinery used in-stream shall be kept to an absolute minimum.*
- *Spill kits will be provided at all river locations identified.*
- *Fuels, oils, greases and hydraulic fluids shall be stored in bunded compounds well away from watercourses. Refueling of machinery, etc. must be carried out in bunded areas. Fuels shall be stored during the construction phase in bunded fuel storage tanks with a 110% holding capacity. Where it is necessary to dispense fuels on site, this shall be undertaken in areas covered with an impermeable surface to protect surface water and ground water.*
- *Construction works, especially ones involving the pouring of concrete, shall be conducted in the dry. Precast concrete shall be used in preference to uncured concrete, which kills aquatic fauna through alteration of stream pH. When cast-in-place concrete is required, all work shall be done in the dry and allowed cure for 48 hours before re-flooding.*
- *To help prevent the contamination of the ground and groundwater, contaminated materials (oils, fuels, chemicals etc.) will be used and stored in an appropriate manner as outlined in the relevant guidance, i.e. CIRIA (2001) and DMRB Volume 11 (1994).*

#### 8.1.2 Water Quality Monitoring

- Not applicable to this site

#### 8.1.3 Water Pollution Incidents

Should any monitoring or inspection indicate that pollution of the St. James NCH Enabling Works site has occurred then the Site Management Team shall immediately inspect the all work activities to ascertain whether they are operating effectively. All works may be stopped and/or additional control measures installed to prevent further pollution or discharge to the watercourse. Appropriate action shall be taken in consultation with the Site Agent. Water samples shall be taken at the watercourse if required. The incident shall be logged in the Incident Register.

### 8.2 Noise & Vibration Control

The primary sources of noise and vibration associated with the contract have been identified as follows:

- *Vibrating rollers*
- *Plate Compactors*
- *Concrete vibration*
- *Site vehicle movements*
- *Excavators*
- *Demolition Equipment*

Noise limit criteria:

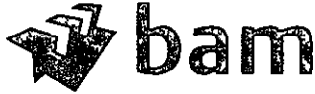
Period which criterion applies	Hours	Noise Impact Criterion LAEQ1hr n
Mon - Fri		
Day	07:00 – 19:00	70dB
Evening	19:00 – 22:00	60dB
Night	22:00 – 07:00	The higher of 45dB or the ambient level
Sat		
Day	08:00 – 14:00 (work outside these hours no higher than 45dB or ambient noise level)	65dB
Sun & Bank Hol		
	Day: 08:00 – 14:00	60dB

Allowable vibration for sensitive and residential buildings:

Allowable vibration (in terms of peak particle velocity) at the closest part of sensitive property to the source of the vibration, at a frequency of:		
Less than 10 Hz	10-50 HZ	50-100HZ (and above)
10 to 50 Hz	12.5mm/s	10mm/s
3mm/s	3-8mm/s	8-10mm/s

All works are scheduled to be completed within the *relevant* working hours as specified in the contract.

Best practicable means should be employed to minimise noise levels, in accordance with the British Standard BS 522: 2009+A1:2014. Noise and vibration control on construction and open sites (Parts 1 and 2) for basic information and procedures for noise and vibration control. A copy of this standard is available at the site or from sharepoint.

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### 8.2.1 Noise & Vibration Control Measures

Noise reduction measures will be undertaken in accordance with the Procedure EP-09 Noise and Vibration Control, which has been developed taking into account the requirements of BS 5528, particularly Section 10, and include:

- *Control measures will be as per the project specification*

### 8.2.2 Noise & Vibration Monitoring

- Noise monitoring in compliance with project requirements – There are six noise units on site placed at strategic positions where noise from the site could affect the residents living in the vicinity of the National Children’s Hospital site. Trigger values have been set at amber at 65dB and red at 70dB. The noise monitoring units will send a message or an email alert to all parties concerned if a ‘trigger’ value has been breached. Trigger levels for Noise Monitor 003 have been adjusted to allow for ambient noise levels at South Circular Road. The red trigger level is now set at 73dB at this location only.
- Vibration monitoring in compliance with project requirements - There are five vibration units on site placed at strategic positions where vibration from the site could affect the residents living in the vicinity of the National Children’s Hospital Site. The trigger values have been set at amber at 2.5mm/s and red at 3mm/s. The vibration monitoring units will send a message or an email to all parties concerned if a trigger value has been breached.

### 8.2.3 Noise & Vibration Incidents

Should any monitoring indicate that noise or vibration levels have exceeded the intervention values then the plant or equipment causing the noise / vibration shall be powered down immediately. Appropriate action shall be taken in consultation with the Site Agent to reduce the noise and/or vibration levels. Actions may include:

- Servicing and or modifying the plant / equipment;
- Replacing the plant / equipment;
- Moving the operation away from sensitive receptors;
- Rescheduling the activity;
- Erecting noise barriers where other measures are not practical


When noise and vibration monitoring is taking place, all monitors should take into account the background noise and situation when monitoring. External noise and vibration reports to reference to this fact also.

The incident shall be logged in the Incident Register if levels have been breached and background noise was deemed not a factor at the time of the occurrence.

## 8.3 Air Pollution Control

The main types of air pollution that will result from the works are dust and exhaust emissions from combustion engines, and plant machinery and vehicles. Activities with the potential to produce to dust are:

- *Plant and vehicle movement;*

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- Bulk materials handling;
- Vehicle movement off site.

### 8.3.1 Dust Minimisation Plan

Dust shall be minimised on site through the implementation of the following control measures developed in accordance with the Procedure EP-08 Air Pollution Control:

- *Dust netting will be erected on scaffolding*
- *Water bowsers will be used to keep down dust on site*
- *Stone/Sand trucks will be required to have covers on trailers*
- *Aspergillus control plan put in place*

### 8.3.2 Other Air Quality Control Measures

- Exhaust emissions where practical shall be minimised by ensuring that all plant, equipment and vehicles are in good working order and regularly serviced to ensure efficient running, by using the smallest engine-sized plant and equipment suitable for the task and by ensuring that engines are not left idling unnecessarily.
- Burning of materials on site shall not be permitted.

### 8.3.3 Dust Monitoring

- Dust monitoring in compliance with project requirements – There are seven dust units on site placed at strategic positions where dust from the site could affect the residents living around the site area. The dust monitoring units will send a message or an email alert to all parties concerned if a 'trigger value has been breached. The trigger levels have been set up at 150ug/m<sup>3</sup> as amber alarm and 300ug/m<sup>3</sup>.

## 8.4 Habitat (Flora & Fauna) Protection

Generally ecological mitigation measures are incorporated into the project design and the requirement during the construction stage is to ensure that all mitigations are fully implemented. Additional measures may be implemented during construction to limit additional habitat and fauna disturbance outside the area of works as listed below.

All work activities will comply with the Environmental Protection Agency Act 1992 and Wildlife Act 1976 and amendments 2000 to 2010 and the European Communities (Birds and Natural Habitats) Regulations 2011.

### 8.4.1 Construction Mitigation Measures


Control measures shall be implemented in accordance with EP-12 Habitat, Flora and Fauna Protection are as follows:

- *As per BAM procedures*

## 8.5 Waste Management (incl. Hazardous Waste)

A Waste Management Plan will be instituted during the works and the waste management measures for the project are detailed in this separate document, which includes:

- Waste management targets
- The potential waste materials produced during the project;

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- Waste handling procedures;
- Waste Permits required;
- Waste reuse, recycling and disposal techniques; and
- A map showing designated waste handling areas.

The Waste Management Plan also covers the handling and disposal of hazardous wastes such as asbestos, fuels and used absorbent materials.

With regard to potential nuisance from temporary site offices and canteen, the following measures shall be observed:

- Site offices shall be maintained in a tidy condition.
- Litter shall be cleaned up daily, particularly around skip bins, in accordance with EP-19 Litter Management.

#### Dealing with Contamination

- Assess in conjunction with G.I.R
- Test to classification
- Dispose to appropriate facility

#### Areas of Potential Contamination:

- Mount Brown
- Fuel Tanks
- Underground Weighbridge

#### Areas of Known Contamination:

Potential area in car park south of ORA

### **8.6 Hazardous Materials Handling & Storage**

During the works there will be a requirement for the use of hazardous substances, including but not limited to:


- Fuel oil
- Diesel
- Hydraulic Oil
- Shuttering Oil
- Liquid cement
- Concrete Curing Agent

The management of such substances shall be carried out in accordance with the procedures for:

- Bulk Fuel and Oil Storage (EP-13);
- Storage and Handling of Hazardous Substances (EP-14);
- Containing and Cleaning Up Spills (EP-15).

All chemicals not covered by EP13, EP14 and EP15 shall be managed in accordance with the requirements of the relevant safety data sheet (SDS) and the Health and Safety Plan.

- Hazardous materials are kept in lockable stores at site compound locations. Spill kits are also kept at these locations. Any hazardous materials must be returned to the stores at the end of each day and not left on site.

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- Oil and fuel will be stored in bunded areas and shall be stored well away from any water discharge point or, where not possible, the discharge point will be adequately protected to prevent spills from entering.
- Diesel pumps, generators or similar shall be placed on impervious drip trays to capture minor spills and leaks and located at least 10m from any water discharge point.
- Tools and equipment shall not be washed in or near any watercourses and if undertaken on site wash water shall be directed to appropriate retention controls and not allowed to directly enter any watercourse.

Fuels, lubricants and hydraulic fluids for equipment used on the construction site shall be carefully handled to avoid spillage, properly secured against unauthorised access and provided with spill containment. Fuelling and lubrication of equipment shall not be carried out in the vicinity of water discharge points. Waste oils and hydraulic fluids shall be collected in leak-proof containers and transported off-site for disposal or recycling at appropriately licensed facilities.

### **8.7 Vermin Control**

Control measures associated with vermin are as follows:

- All work and canteen areas will be tidied, cleaned and free from waste on a daily basis.
- Employ a pest control company (Rentokil) to lay traps around the site and monitor same on a weekly basis.

### **8.8 Landscape**

Landscape measures shall be implemented in accordance with the Landscape Design required by the contract, to be prepared by the Designer.


### **8.9 Archaeology**

- *As per specifications and BAM Procedure*

## **9. Management Review**

The implementation of the EMP is reviewed monthly on site at the internal site meetings. These meetings are attended by site management and by personnel responsible for the implementation of the EMP. During the meeting all aspects of the environmental management are considered, including:

- Upcoming work
- Environments risks foreseen
- Control measures for the protection of the environment
- Internal and external audit results
- Inspection and monitoring results;
- Environmental alerts and bullet-ins
- Any issues raised by site staff or in relation to environmental management
- Site goals and targets
- Control measures for protection of the environment
- Any other significant issues;

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Changes are made to the on-site management as required to achieve a continual improvement in environmental performance.

Environmental issues will be brought to the attention of the workforce through toolbox talks and through the Monthly HSE Meeting.


The EMP itself shall be reviewed at least every three months by the Site Management Team to ensure that it continues to be adequate and effective and changes made as required. Any changes shall be made by the Site HSE Officer and a new revision of the EMP issued to all personnel on the circulation list on page 1 of this document.

## 10. Training & Competence

The environmental management goals and strategy shall be communicated to all staff and contractors at the safety and environmental induction. All employees and contractors are required to undertake a site induction prior to conducting any work on site (for further details refer to the Health and Safety Plan) and employees shall be made aware of their responsibilities in accordance with this management plan. A record of inductions shall be kept by the Safety, Health & Environmental Officer.

Toolbox talks will be conducted with relevant employees on various aspects of the environmental management plan, activity control measures and environmental procedures. Three toolbox talks on environmental or waste issues must be conducted per quarter.


Toolbox talks shall be conducted by the Site HSE Officer, Section Engineers or others nominated by the Site HSE Officer. The schedule for toolbox talks shall be at the discretion of the Site Management Team and additional toolbox talks will be given in response to complaints, or where the particular environmental risks have been identified.

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## 10.1 Recommended Toolbox Talks

Toolbox Talk Topic	Reference Material	When*	Recipients
<b>Environmental Management</b>	Environmental Policy, EMP, Environmental Procedures Manual	Commencement of site activities	All site crews
TBT 01	Hazardous Substances	Regular Intervals	All site crews
TBT 02	Environmental Awareness	Regular Intervals	All site crews
TBT 03	Managing Waste	Regular Intervals	All site crews
TBT 04	Spill Control	Regular Intervals	All site crews
TBT 05	Waste Pollution Prevention (Fuel & Oil)	Regular Intervals	All site crews
TBT 06	Silt Management	Regular Intervals	All site crews
TBT 07	Fire	Regular Intervals	All site crews
TBT 08	Storage of Hazardous Waste on Site	Regular Intervals	All site crews
TBT 09	Japanese Knotweed	Regular Intervals	All site crews
TBT 10	Chemical & Fuel on site	Regular Intervals	All site crews
TBT 11	Trees	Regular Intervals	All site crews
TBT 12	Water on Construction Sites	Regular Intervals	All site crews
TBT 13	Dust and Air Quality	Regular Intervals	All site crews
TBT 14	Noise and Vibration	Regular Intervals	All site crews
TBT 15	Archaeology	Regular Intervals	All site crews
TBT 16	Working in previous developed areas	Regular Intervals	All site crews
TBT 17	Pumping and over pumping	Regular Intervals	All site crews
TBT 18	Water pollution - cement and concrete	Regular Intervals	All site crews
TBT 19	Material handling and housekeeping	Regular Intervals	All site crews
TBT 20	Washing down plant and equipment	Regular Intervals	All site crews
TBT 21	Energy conservation - electricity and fuel	Regular Intervals	All site crews
TBT 22	Bentonite	Regular Intervals	All site crews
TBT 23	Be a good neighbour	Regular Intervals	All site crews




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<b>TBT 24</b>	Sustainability	Regular Intervals	All site crews
<b>TBT 25</b>	Eco driving	Regular Intervals	All site crews
<b>TBT 26</b>	Fuel efficiency	Regular Intervals	All site crews
<b>TBT 27</b>	Material handling and storage	Regular Intervals	All site crews
<b>TBT 28</b>	Segregation of waste	Regular Intervals	All site crews
<b>TBT 29</b>	Storage of waste	Regular Intervals	All site crews
<b>TBT 30</b>	Energy efficiency	Regular Intervals	All site crews
<b>TBT 31</b>	Void space	Regular Intervals	All site crews
<b>TBT 32</b>	Waste hierarchy	Regular Intervals	All site crews

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## Appendix 1: Table of Requirements for ISO14001:2015


	<b>ISO14001:2015</b>	<b>EMP</b>	<b>Section</b>
5.2	Environmental Policy	Company Environmental Policy	Appendix 5
6.1.2	Environmental aspects	Environmental planning, aspects and control Site Environmental Risk Assessment	5 5.1
6.1.3	Compliance obligations	Relevant Statutory Provisions	6.5
		Contract Requirements/ ERA	Appendix 2 & 3
6.2	Environmental objectives and planning to achieve them	Environmental objectives and targets	7
6.2.1			
6.2.2			
5.3	Organizational roles, responsibilities and authorities	Organisation & Responsibilities	2.1 2.3
7.2	Competence and awareness	Training and competence	10
7.3			
7.4	Communication	Environmental Management Arrangements Communication	3 2.2
7.5.3	Control of documented information	Control of Documents	6.7
8.1	Operational planning and control	Environmental Control Measures	8
8.2	Emergency preparedness and response	Summary of emergency procedure	4
9.1	Monitoring, measurement, analysis and evaluation	Environmental management	3.1
9.1.2	Evaluation of compliance	Environmental compliance requirements	6
10.2	Nonconformity and corrective action	Environmental incidents	3.2.2
9.2	Internal audit	Environmental management	3.1
9.3	Management review	Management Review	9

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## Appendix 2: Table of Contractual Requirements for Environmental Management

Table of Contractual Requirements for Environmental Management  
(From Project Specific Construction Requirements)


Clause	Restriction – refer to Contract for complete details
6.	<p>The development shall comply with the following requirement of the City Archaeologist</p> <ul style="list-style-type: none"> <li>viii. The developer shall retain a suitable qualified licenced archaeologist to advise regarding the archaeological implications of site clearance, demolition and/or construction methodology and to make appropriate recommendations for mitigation including the detailed survey as necessary.</li> <li>ix. The developers archaeologist shall allow for the resolution of archaeology (both on site and necessary post excavation) in the project budget timetable.</li> <li>x. The developers archaeologist shall undertake licenced archaeological monitoring or all demolition and sub-surface work associated with the development including the breaking and removal of any floor slabs, levelling of ground etc.</li> <li>xi. The archaeologist shall consult with and forward their Method Statement in advance of commencement to the City Archaeologist.</li> <li>xii. In the event of archaeological features being located in the course of the monitoring, the developer shall facilitate the archaeologist in fully recording such features, including if necessary the archaeological excavation of such features. In the event of significant archaeological features on site, the archaeologist retained by the developer shall immediately contract the City Archaeologist. The City Archaeologist (in consultation with the National Monuments Service, Department of Arts Heritage and the Gaeltacht) shall determine the further archaeological resolution of the site.</li> <li>xiii. A written and digital report containing the results of the archaeological monitoring shall be forwarded on completion to the City Archaeologist and the National Monuments Service, Department Arts Heritage and the Gaeltacht.</li> <li>xiv. Following submission of the final report the City Archaeologist where archaeological materials is shown to be present the archaeological paper archive shall be compiled in accordance with the procedures detailed in the Dublin City Archaeological Archive Guidelines (2008 Dublin City Council) and lodged with the Dublin City Library and Archive 138-144 Pearse Street, Dublin 2.</li> </ul>
8	<p>The development shall comply with the following conditions during the demolition and construction stages: -</p> <ul style="list-style-type: none"> <li>i. During the demolition and construction phase the proposed development shall comply with the British Standard 5228: 2009 – Code of Practice for noise and vibration control on construction and open sites, Part 1 Noise and Part 2; Vibration. In addition the mitigations measures for demolition and construction of works as detailed in volume 2 of the EIS shall be followed.</li> <li>ii. During the demolition and construction phase of the development, Best Practicable Means shall be employed to minimise air blown dust being emitted from the site. This shall include covering skips (including those being transported from the site) and stack-heaps, netting of scaffolding, watering of rubble chutes, daily washing down of pavements or other public areas, and any other precautions necessary to prevent dust nuisance.</li> </ul>

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	<p>iii. The watering down of the area should be carried out where necessary to minimise dust transfer into neighbouring premises.</p> <p>iv. Stockpiles of earth shall be damped down or otherwise suitably treated to prevent the emission of dust from the site. The stockpiles should be planned and sited to minimise the potential for dust nuisance.</p> <p>v. Prior to the commencement of development a demolition and construction method statement and plan addressing the issues of noise, dust, vibration (such as from pile driving) odour, construction traffic management, and their mitigation shall be submitted to the Planning Authority for their written agreement.</p> <p>Reason:</p> <p>In the interest of minimising adverse impact during the demolition and construction phased of development in the interests of amenities and the proper planning and development of the area.</p>
9.	<p>The development shall comply with the following conditions for Waste Management:</p> <p>i. Prior to the commencement of any works a Construction and Demolition Waste Management Plan must be furnished to and approved by Dublin City Council.</p> <p>ii. Prior to the construction phase the quantity of C&amp;D waste shall be determined in order to ensure that the required regulatory permit (issued by Dublin City Council or Licence issued by the EPA) is in place prior to the commencement of the development.</p> <p>iii. During the Construction phase, Waste Management Services requests the provision of monthly statistics regarding waste arising, verification of quantities recycled and disposed and the location of disposal facilities. A construction Liaison contact should be identified by the developer and the information forwarded electronically to Waste Management Services on a monthly basis in order to ensure compliance with legislation.</p> <p>iii. The works must comply with the following:</p> <ul style="list-style-type: none"> <li>e. Waste Management Act 1996, as amended.</li> <li>f. Dublin City Council Commercial Waste Bye-Laws 2008 (Bye-Laws for the storage, separation at source and presentation for collection of commercial waste) as amended.</li> <li>g. Dublin Region Waste Management Plan 2005 – 2010 as amended.</li> <li>h. Any other relevant Waste Management related regulations.</li> </ul> <p>Reason: In the interests of the protection of the environment having regard Circular WPR 07/06 – Best Practice Guidelines on the Preparation of Waste Management Plans for Construction and Demolition published by the DoEHLG 2006 and Dublin City Waste Management Guidelines.</p>
10.	<p>(a) The site and building works required to implement the development shall only be carried out between the hours of</p> <ul style="list-style-type: none"> <li>• Monday to Friday – 7:00am to 6:00pm</li> <li>• Saturday – 8:00am to 2:00pm</li> <li>• Sunday and Public Holidays – No activity on site.</li> </ul> <p>(b) Deviation from these times will only be allowed in exceptional circumstances where prior written approval has been received from Dublin City Council. Such approval may be given subject to conditions pertaining to the particular circumstance being set by Dublin City Council.</p> <p>Reason: In order to safeguard the amenities of adjoining occupiers.</p>

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11.	<p>The site development works and construction works shall be carried out in such a manner as to ensure that the adjoining street(s) are kept clear of debris, soil and other material and if the need arises for cleaning works to be carried out on the adjoining public roads, the said cleaning works shall be carried out at the developers expense.</p> <p>Reason: To ensure that the adjoin roadways are kept in a clean and safe condition during construction works in the interest of orderly development.</p>
12	<p>The development shall comply with the following requirements.</p> <p>(a) Noise levels from the site, during both the construction and operational phases, measured as a LAeq (5min at night, 15min in day) when all proposed plant is operating, shall not exceed the LA90 by 5dB(A) or more.</p> <p>(b) Noise levels should not be so loud, so continuous, so repeated, of such duration or pitch or occurring at such times as to give reasonable cause for annoyance to a person in any premises in the neighbourhood or to a person lawfully using any public place. All mechanical plant and ventilation inlets and outlets should be attenuated as necessary to ensure that the noise level as expressed as Laeq over 15 minutes at one metre from the façade of any noise sensitive premises does not exceed the background level by more than 10dB(A) for daytime and shall not exceed the background level for night – time.</p> <p>(C) Details relating to the likely sound power levels of all externally located plant including roof access level and equipment associated with this development shall be submitted to the Planning Department prior to installation.</p> <p>Reason: To protect the amenities of adjoining occupiers.</p>

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## **Appendix 3: Environmental Risk Assessment Report**




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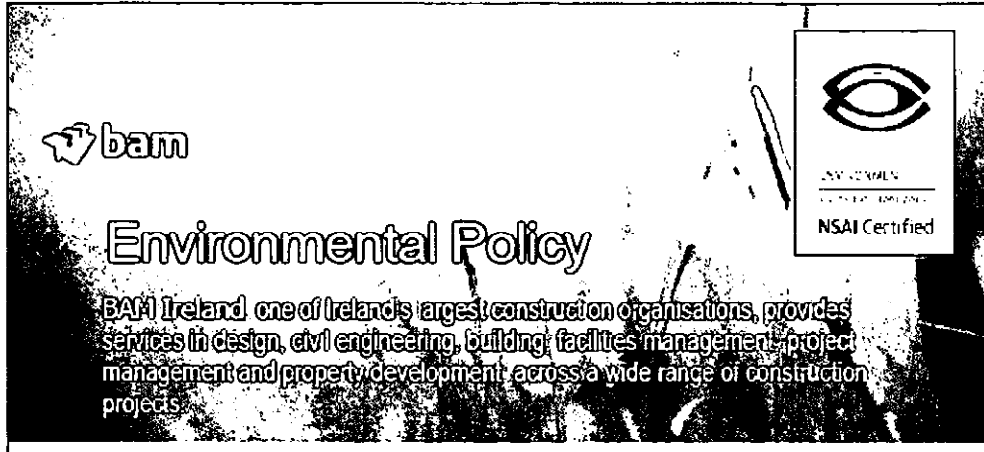
## Appendix 4: Site Maps



Location of Noise  
Vibration and Dust I

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## Appendix 5: Environmental Policy



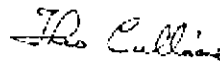
The organisation promotes a responsible and proactive approach to environmental and waste management at every level of the business and on all sites of operation.

BAM Building recognise that business aims must be balanced against environmental considerations. We are committed to continually improving our environmental performance and managing our operations to minimise potentially adverse impacts on the environment.

Specifically, where it is within the organisation's control or influence, BAM Building will:

- ✓ Identify the significant environmental aspects of our activities by assessing their potential impact on the environment.
- ✓ Based on our significant environmental aspects, set specific objectives and targets, against which we shall monitor and review our performance.
- ✓ Comply with legal and other requirements that are applicable to our activities and relevant to the environmental aspects of the business.

- ✓ Develop management processes and procedures that prevent pollution, protect native species and habitat, minimise waste generation, promote recycling and the use of recyclable materials, and maximise the efficient use of material and energy resources.
- ✓ Implement strategies to communicate our environmental commitments and requirements to employees, customers, suppliers, subcontractors and other interested parties.
- ✓ Provide training and support to employees, so they understand and can fulfil their responsibilities with regard to environmental impact and performance.
- ✓ It is the individual responsibility of all persons working for or on behalf of BAM Building to support and apply the Environmental Policy and Environmental Management System as it pertains to their activities.




T. O'Leary, CEO  
Date: March 2017



ISO 26000 | to 1 standard  
Social Responsibility



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## Appendix 6: Subcontractor Details

Contract	Company	Environmental Contact	Commencement Date	Duration
C6024	Shanarc Archaeology	Michael Gleeson – 087 9787693	19/09/16	6 Months
C6024	THM	David Lewis – 085 8878128	05/08/16	8 Months
C6024	Cloncad	Niall Caffrey – 087 0575504	26/09/16	6 Months
C6024	John Casey	Neil Mc Guirk – 087 1389107	05/08/16	4 Months
C6024	Paul Mc Gee Construction	Paul Mc Gee 086 3837656	12/09/16	8 Months
C6024	Jones Engineering	Andrew Byrne	01/11/16	8 Months
C6024	Hegarty Demolition	Noel Gill	26/09/16	8 Months
C6024	Excel Drains	Brian/Edel 01 6208200	07/11/16	1 Month
C6024	Fire Seal	Allan Mc Farlane	14/12/16	1 Month
C6024	Grove Environmental	David Hickey	20/02/17	2 Months
C6024	ACSU	Donald Murphy	29/03/17	1 Month
C6024	Shawport	Adam Finlay	06/03/17	3 Months
C6024	Mercury Engineering	Paul Walsh	1/9/17	12 Months