

National Museums Liverpool, Estate Management Department, 127 Dale Street, Liverpool, L2 2JH.

Scheme :Pier Masters House Royal Albert Dock				DESIGNER RISK ASSESSMENT SUMMARY									Date: November 2018		Assessed by: Roy Forshaw			
Ref.	Hazardous Activity	Risk Being Assessed	Elimination by design	Degree of risk									Persons at Risk	Method Statements				
				Severity			Likelihood			Risk				Can the risk be avoided or reduced at reasonable cost by:-	Methods to reduce or avoid the risk – What to look for in contractor method statements / risk assessments including but not restricted to :-			Residual Risk
				Fatal/major = 3 Loss/disability = 2 Minor/illness = 1	Certain/very = 3 Reasonably = 2 Seldom/unlikely = 1	3,6 or 9 = high 2 or 4 = medium 1 or 0 = low												
RA1	Working at height	Falls from height Materials and / or operatives	Yes/No	1	2	3	1	2	3	L	M	H	Operatives & staff	Yes/No	Yes/No	Yes/No	<p>The scheme will involve working at height by means of ladders, trestles, scaffold etc.</p> <p>Competent Persons, system of work, defined working areas, PPE, tagged scaffold, reports.</p> <p>When core drilling for the balanced flue the external area below the area of work must be barriered off to prevent public access.</p> <p><i>Working at Height Regs 2005 CDM Regs 2015 PUWER 1998 Manual Handling Operations Regs 1992 BS1129 Ladders, Steps, trestles BS1139 Metal scaffolding</i></p>	Low/Medium/High
RA2	Unauthorised access to site	Injury from plant and /or materials	Yes/No	1	2	3	1	2	3	L	M	H	Staff & Public	Yes/No	Yes/No	Yes/No	<p>All ladders, scaffold etc must be secured when not in use / end of each working day. Compliance with NML Security Regs.</p> <p>Signage, signing in procedure, inspection of works, physical barriers, special risks, children</p>	Low/Medium/High

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RA3	Buried Services	Injury from accidental contact	Yes/No	1	2	3	1	2	3	L	M	H	Operatives & Maint'	Yes/No	Yes/No	Yes/No	Identification / location of services, use of hand held tracer or cable / pipe locators, provision of service details, trial holes, permit to work, training, competent person, lock-off procedures. <i>The Electricity at Work Regs 1989</i> <i>Gas Safety Regs (Various)</i> <i>PUWER 1998</i> <i>HS(G) 85 Electricity at work</i> <i>HS(G)47 Avoiding danger from underground services</i>	Low/Medium/High
RA4	Overhead Services	Contact with services	Yes/No	1	2	3	1	2	3	L	M	H	Operatives	Yes/No	Yes/No	Yes/No	Barriers, signs, training, supervision, liaison with supplier. <i>The Electricity (Overhead Lines) Regs 1970</i> <i>The Electricity at Work Regs 1989</i> <i>PUWER 1998</i> <i>HSE GS6 Overhead Electrical Lines</i> <i>HS(G) 85 Electricity at work</i>	Low/Medium/High
RA5	Exposure to noise	Deafness	Yes/No	1	2	3	1	2	3	L	M	H	Operatives, Staff & Public	Yes/No	Yes/No	Yes/No	Equipment with silencers, reduced exposure, noise assessment, PPE, signage <i>The Noise at Work Regs 2008</i> <i>IND(G) 127 Noise in Construction</i> <i>BS5228 Noise & Vibration Control</i>	Low/Medium/High
RA7	Demolition	Uncontrolled Collapse, dust, noise, vibration etc.	Yes/No	1	2	3	1	2	3	L	M	H	Operatives	Yes/No	Yes/No	Yes/No	The removal of plastered surfaces must be undertaken to produce a minimum of dust.. <i>CDM Regs 2015</i> <i>Con (Head Protection) Regs 1989</i> <i>PUWER 1998</i> <i>PPE Regs 2002</i> <i>COSHH 2002</i> <i>LOLER 1998</i> <i>GS 29 H&S in Demolition Work</i> <i>BS 6187 Code of Practice for Demolition</i>	Low/Medium/High

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RA8	Removal / storage of waste materials	Trip, injury, pollution	Yes/No	1	2	3	1	2	3	L	M	H	Operatives, Staff & Public	Yes/No	Yes/No	Yes/No	Waste registration certificate, transfer notes, no burning on site, site tidiness. Manual handling of materials to and from basement. <i>The Controlled Waste Regs 2004</i> <i>The Waste Management Licensing Regs 94</i> <i>The Special Waste Regs 1996</i>	Low/Medium/High
RA9	Use of abrasive wheels	Injury from machinery, fire	Yes/No	1	2	3	1	2	3	L	M	H	Operatives	Yes/No	Yes/No	Yes/No	Use of guards, LEV, training of operatives, suitability of machinery, maintenance, PPE, signage. <i>CDM Regs 2015</i> <i>PUWER 1998</i> <i>PPE Regs 1992</i> <i>HS(G) 17 Abrasive Wheels</i>	Low/Medium/High
RA12	Manual Handling	Injury to persons	Yes/No	1	2	3	1	2	3	L	M	H	Operatives	Yes/No	Yes/No	Yes/No	Risk assessment, information on load, safe systems, training, provision of mechanical aids, PPE. <i>Manual Handling Operations Regs 1992</i> <i>HS(G) 48 & 60</i>	Low/Medium/High
RA13	Power Tools	Shock, Entanglement, Eye Injuries	Yes/No	1	2	3	1	2	3	L	M	H	Operatives	Yes/No	Yes/No	Yes/No	110 / 55V tools to be used and maintained in good condition. Training, competent persons, PPE. <i>CDM Regs 2015</i> <i>PUWER 1998</i>	Low/Medium/High
RA14	Hot Work	Fire, Smoke, Burns	Yes/No	1	2	3	1	2	3	L	M	H	Operatives, Staff & Public	Yes/No	Yes/No	Yes/No	Hot work should not be undertaken unless absolutely essential and requires prior approval. Competent persons. Training. Permit to work. Fire fighting equipment. Operator training. PPE Flammable materials. Emergency procedures. A hot work permit must be obtained prior to works commencing <i>CDM Regs 2015</i> <i>The Fire Precautions (Workplace) Regs 97</i>	Low/Medium/High

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RA15	Working in Confined Spaces	Suffocation, toxic atmosphere, flammable atmosphere	Yes/No	1	2	3	1	2	3	L	M	H	Operatives, Staff & Public	Yes/No	Yes/No	Yes/No	Information, instruction , training, risk assessment, safe systems of work, PPE, RPE, atmospheric monitoring, communication, rescue procedures/ equipment, permit to work <i>PPE Regs 1992</i> <i>COSHH Regs 1996</i> <i>Con (Health, Safety & Welfare) Regs 1999</i> <i>PUWER 1998</i> <i>The Confined Spaces Regs 1998</i>	Low/Medium/High
RA16	Dust and / or Fumes	Skin irritation, respiratory problems	Yes/No	1	2	3	1	2	3	L	M	H	Operatives, Staff & Public	Yes/No	Yes/No	Yes/No	COSHH Assessments, PPE, RPE, sampling, training, control of fumes, LEV. <i>PPE Regs 2002</i> <i>COSHH Regs 2002</i> <i>CDM Regs 2015</i>	Low/Medium/High
RA17	Electricity	Electrocution, burns, Explosion, Fire, Suffocation, Secondary Accidents.	Yes/No	1	2	3	1	2	3	L	M	H	Operatives, Staff & Public	Yes/No	Yes/No	Yes/No	The scheme will involve the installation of site electrical supplies which will be 110V and the permanent installation which shall be 240V. All work must be carried out by a qualified electrician. No live working will be permitted. <i>The Electricity at work regulations 1989</i> <i>HS(G)85 Electricity at Work</i> <i>Provision and Use of Work Equipment Regulations 1998</i> <i>BS7671 IEE Wiring Regulations 17th Edition</i>	Low/Medium/High