Stonewest

METHOD STATEMENT

Congress House

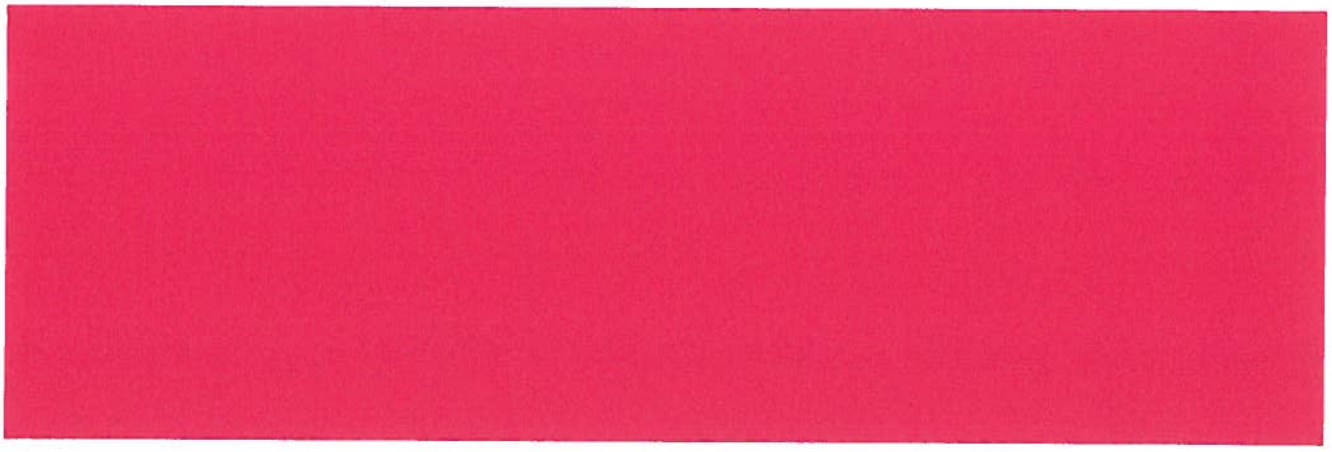
Cleaning Trials to the Jacob Epstein Memorial Statue

Job No: 67377

Date: June 2015 **Issue No: 2**

Principal & Specialist Contractors in Restoration, Conservation & New Build Masonry

E: info@stonewest.co.uk T: 0208 684 6646 F: 0208 684 9323 W: www.stonewest.co.uk
Stonewest Ltd, 67 Westow St, London, SE19 3RW



CONTENTS

a) REVISIONS

Review/Revision	Date	Reviewed By	Date of Re-issue	What Has Changed
Rev 01	15/06/15	C Nicholas	15/06/15	Amendments as per Andrew Ledgerton email dated 08/06/15
Rev 2	23/04/15	T Moore	23/04/15	Specific sample information

b) APPROVALS

Approved By	Title	Signature

c) CIRCULATION

Copy No.	Issued to:	Location:

1.0 RELATED DOCUMENTS

Stonewest Ltd Safety Management System incorporating Company Health and Safety.

2.0 NATURE OF THE REPAIR WORKS

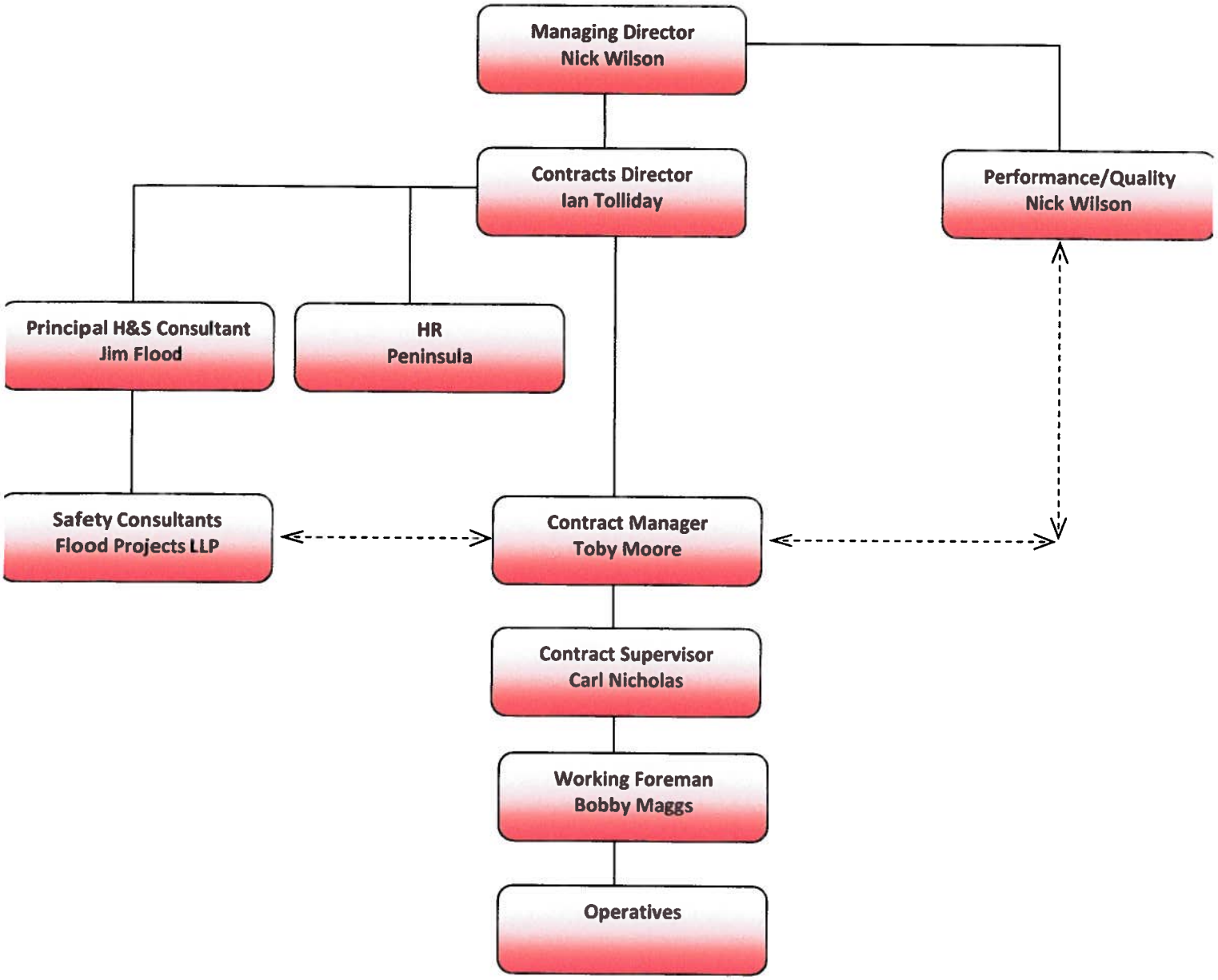
- To carefully undertake a discreet trial sample clean the Portland stone Jacob Epstein Statue for planning authority approval. Only once the trials are formally approved can the cleaning to the full statue commence.

- **Reason:** To safeguard the appearance and structural integrity of the sculpture in accordance with policy CS14 of the London Borough of Camden Local Development Framework Core Strategy and policy DP25 of the London Borough of Camden Local Development Framework Development Policies.

- The results of the aforementioned trial shall be submitted to and approved in writing by the local planning authority. If the results of the trial prove unsuccessful, then a new methodology shall be drawn up and trialled until such time as a methodology has been agreed and trialled successfully that can be applied to the entirety of the sculpture. The methodology for the cleaning of the entire sculpture once agreed and successfully trialled shall be carried out strictly in accordance with the approved details.

3.0 PERSONNEL & RESPONSIBILITIES

3.1 OVERALL MANAGEMENT STRUCTURE



3.2 ROLES & RESPONSIBILITIES

3.2.1 SPECIAL WORKS - CONTRACTS MANAGER

Mr Toby Moore **Tel:** **0208 684 6646**
Mobile: **07850 794 373**

ROLE & RESPONSIBILITIES

The Contracts Managers are accountable to the Contracts Director for the day to day observance of the company Safety, Health and Environmental Policy and is required to:

- Lead by example by wearing the correct PPE and observing the rules that govern any work place under the control or otherwise by the company.
- Ensure that the site safety pack is produced for every site under their control.
- Ensure that the company Policy is communicated to all those under their control.
- Ensure that the Safety, Health and Environmental plan is produced and available when a new contract commences.
- Ensure that the lines of communication are adequate to satisfy both company and client needs.
- Ensure the Project and Group Safety Managers are properly briefed on the project to be undertaken.
- Allocate appropriate Health & Safety responsibilities to Project Managers, ensuring they are understood and effectively implemented.
- Identify and meet the training requirements of the Project Managers so that they remain competent.
- Co-ordinate accident reports within their area of control.
- Strive for continual improvement on the projects that are under their control.

3.2.2 SPECIAL WORKS – CONTRACTS SUPERVISOR

Mr Carl Nicholas **Tel:** **0208 684 6646**
Mobile: **07850 794 369**

ROLE & RESPONSIBILITIES

The Contracts Supervisor is Accountable to the Contract Manager for the day to day observance of the Policy on site and is required to:

- Ensure that all operative and sub-contract employees under his control are suitably instructed in the safe methods of carrying out the duties expected of them.
- Ensure that the site speed limits are complied with, and access roads are maintained in good condition.
- Ensure that all drivers of vehicles are properly instructed and trained in line with the company's statutory obligation.
- Ensure that all loading and unloading is carried out in line with company rules and procedures.
- Carry out Risk Assessments for all areas under his control.
- Apply the risk control systems and workplace precautions to the work they supervise and identify any Health & Safety deficiencies.
- Manage, direct and supervise the activities of workers, consult with them and ensure that the work is done safely.
- Induct new/transferred employees and identify training requirements for individuals to ensure their competency.
- Ensure that Method Statements and Risk Assessments are in place for company employees and Sub-Contractors.

3.2.3 WORKING FOREMAN

Mr Bobby Maggs **Tel:** **0208 684 6646**
Mob: **07850 794 389**

The Foreman is accountable to the Construction Supervisor for the day to day observance and implementation of the Policy on his sites and is required to:

Lead by example by wearing the correct PPE at all times on site, also by following the site rules.

- Apply the Risk Control Systems and workplace precautions to the work they supervise and identify any Health & Safety deficiencies.
- Manage, direct and supervise the activities of workers, consult with them to ensure that the work is done safely.
- Induct new/transferred employees and identify training requirements for individuals to ensure their competency.
- Record and report all accidents and dangerous occurrences.
- Record and report all near misses to the contracts administrator.
- Tour the site regularly and record any hazards that are associated with the job and report to his Line Manager.
- Receive Safety Reports and attend the site safety committee meetings.
- Organise Tool Box Talks and distribute the register of attendance to the contracts administrator.
- Maintain the statutory documents and safety information on site.
- Ensure that Method Statements and Risk Assessments are followed by the company employees and any Sub-Contractors working for the company.

3.3.3 HEALTH & SAFETY OFFICER

Mr Jim Flood **Tel:** **0208 684 6646**
Mobile: **077860 275507**

ROLE & RESPONSIBILITIES

Is accountable to the Group Board for assisting in the co-ordination of the Policy. He will provide a professional and practical service throughout the company and will ensure that there is a regular review of the company KPI's; in particular he is required to:

- To maintain the Safety, Health and Environmental Management Systems and ensure they are kept up to date and complies with current legislation.
- Develop means by which safe and healthy working practices are adopted within the company as a way of life.
- Monitor accident and incident for the purposes of producing trend analysis.
- Ensure that the right Safety, Health and Environmental information is provided at the right time for the company projects.
- Instigate accident and incident investigations where appropriate and ensure that the right corrective actions are communicated to the company.
- Advise on the Safety, Health and Environmental needs of the company.
- Maintain clear line of communication throughout the company on Safety, Health and Environmental issues.
- Conduct site inspections at regular intervals.
- Carry out site audits and liaise with the principal contractors site representative.

4.0 SITE RULES

All operatives will adhere strictly to the site rules a copy of which will be handed to each individual on arrival on site along with a copy of this method statement and risk assessments. This must be signed once read and understood

Method Statement, Risk Assessment, COSHH Assessment briefings will be undertaken prior to the commencement of the works. The Stonewest Supervisor will ensure that adequate precautions have been taken to ensure a safe working environment.

All cleaning will be undertaken behind the scaffold hoarding.

5.0 PLANT & EQUIPMENT

5.1 OPERATORS OF PLANT & EQUIPMENT

Operators of plant and equipment are to be appropriately trained. Their certificates of training are held by Stonewest Ltd at their head office and copies will be kept in our site file, these will be checked before any works start on site by the Site Supervisor to ensure they are current.

5.2. PLANT AND EQUIPMENT

Plant and equipment supplied to site is to be checked by competent persons before they are delivered to site. Before plant and equipment is used on site they are to be checked by the Operator and the Working Foreman to ensure they are in good order. The equipment will require checking with the pre-use site inspection is carried out when inspecting the site. Site plant and equipment found not to be in good order will be taken out of use and removed from site. Operatives are to report plant and equipment defects immediately to the Site Management.

All plant will be PAT tested and will be appropriately marked prior to delivery to site.

5.3 PLANT TO BE USED:

- Doff Machine
- Hand tools

6.0 SITE ELECTRICS

Trailing leads/cables are not permitted and should be made safe to reduce the risk of trips and falls. Only 110v electric power tools are permitted to be used. Appropriate electrical testing will be carried out on all plant, including temporary supply during the progression of the works.

7.0 TRANSPORTING OF BUILDING MATERIALS AND EQUIPMENT

Deliveries will be booked in with Lee Kerrison 24hrs prior to delivery. Our specialist equipment and materials will be delivered to site and will be stored at an agreed location. It will be off loaded by our operatives. At the end of each shift all rubbish will be transported to the site compound.
Suitable plant will be used to distribute equipment around site, where possible, wheelbarrows and trolleys will be used to keep manual handling to a minimum.

7.1 ACCESS WAYS

Access ways are to be kept free from obstructions at all times around the work area.

Protection of assets and surroundings must be taken to ensure no damage is caused by our works.

8.0 MANUAL HANDLING

The lifting of materials and equipment may be a heavy operation, therefore, to prevent persons straining appropriate lifting aids are to be provided as mentioned above, or two or more persons will be needed. Our operatives will assess whether or not they are capable of lifting the particular items. If they are confident they are competent they may proceed. All our operatives received regular tool box talks with regard to manual handling.

All plant and materials will be delivered directly to the workface. From there any lift more than 50kgs will be carried out using the lifting gantry to avoid manual handling.

9.0 METHOD OF WORKING

GENERALLY

All works undertaken will be in accordance with the statutory requirements and the Project Health and Safety Plan.

All operatives to have competency qualifications in the operation of any plant they may use.

THERMATECH CLEANING

Preparation works will be our first protocol to protect surrounding finishes where necessary.

Care must also be taken in the location of the ThermaTech cleaning system as suitable venting is required. This will be manned at all times. This will not be an issue as the works are being undertaken in an external courtyard.

Our operatives will first carry out a discreet cleaning trial/sample of the aforementioned system for approval. This will be located in a discrete area of the Jacob Epstein statue as identified in red on the subsequent photo below.

The ThermaTech machine requires a 230v power supply. 32amp leads will be taken from our generator (32amp power outlet) required at close proximity of the machine. A step up transformer with built in RCD will then be connected, followed by a double armoured cable will connect to the hot box and pumping system.

Signage will be located adjacent to the working areas to keep operatives not involved in the cleaning process away from the work area. This will also prevent any unauthorized access within the work zone.

The ThermaTech machine is to be kept away from the cleaning area as the trial progresses to keep water and detritus away from the plant.

Operatives are experienced in the use of this type of plant and are aware that the lance becomes hot during long periods of operation. Protective clothes (PPE) will be worn at all times during the cleaning process on site.

The superficial detritus and dirt deposits will be removed progressively using the super heated water which softens the aforementioned. A second pass may be required to improve the aesthetics.

The standard electric pump is 110v and has a water flow rate of 4-8.5 litres min^{-1} when using standard guns. Pressure is adjustable from 30-140bar*

However, the ThermaTech system can now also be routinely operated in conjunction with pressure reducing guns and some additional small components, that can bring water usage down to almost next to nothing. This enables a maximum pressure to be set at the pump, but then the same or a reduced pressure to be set on demand at the gun. Whilst the minimum pressure at the pump is normally 30bar, setting at a pressure reducing gun can be as little as 10bar. At these low pressures (≤50bar), a ThermaTech can also even be used to supply 2 operators simultaneously, at full temperature, whilst allowing each operator to select a different pressure. This ThermaTech 'technique' was reviewed and specified by English Heritage

Our time served craft cleaner will determine the most effective and lowest temperature and pressure for this cleaning operation.

Upon completion of the trial to the client's satisfaction, all water residue will be cleared leaving the area clean and tidy.

Only once approval has been granted can the cleaning to the full statue commence.

10.0 PPE

a) Safety helmets are to be worn at all times on site.
b) Safety footwear – footwear with mid-sole protection will be worn by all persons on site.
c) Gloves – appropriate gloves are to be worn for respective trades.
d) Overalls – appropriate overalls are to be worn by persons on site where required.
e) Eye protection will be worn at all times.
f) Mask of the appropriate type will be worn when and where required.
g) Ear protection will be worn when noise levels are above 80db (A)
h) HI-Vis – this must be worn at all times.

Further guidelines with regards to wearing protective clothing and equipment will be read before using substances of a hazardous nature. This information will be contained in the COSHH Safety Data Sheets. COSHH Assessment sheets will be supplied to the site before materials are used.

11.0 MATERIALS

- Diesel

12.0 SITE ACCESS

Access to site for deliveries of plant, materials and equipment is from the front entrance. We will park in the spaces provided.

APPENDIX 1

RISK ASSESSMENTS

APPENDIX 2

COSHH AND
TECHNICAL DATA

APPENDIX 3

METHOD STATEMENT SIGNATURE SHEET

Method Statement Signature Sheet

PROJECT **Site Address**	**TUC CONGRESS HOUSE** **GREAT RUSSELL STREET**
Method Statement Title	**Cleaning Trials to the Jacob Epstein Memorial Statue**

I confirm that I understand the site rules and conditions as detailed in the Site Rules issued at the Induction and that I agree to abide with those as stated.

I confirm that the Method Statement and/or Risk Assessment has been understood and that I agree to work within it. Should the works activity alter substantially, then the existing method statement is to be amended and the risk re-assessed. I am to understand the assessment prior to commencing any new or. altered operation/activity.

OPERATIVES NAME (PRINT)	SIGNATURE	DATE

Stonewest

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Congress House

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Job No: 67377

APPENDIX 1

Date: June 2015 **Issue No: 2**

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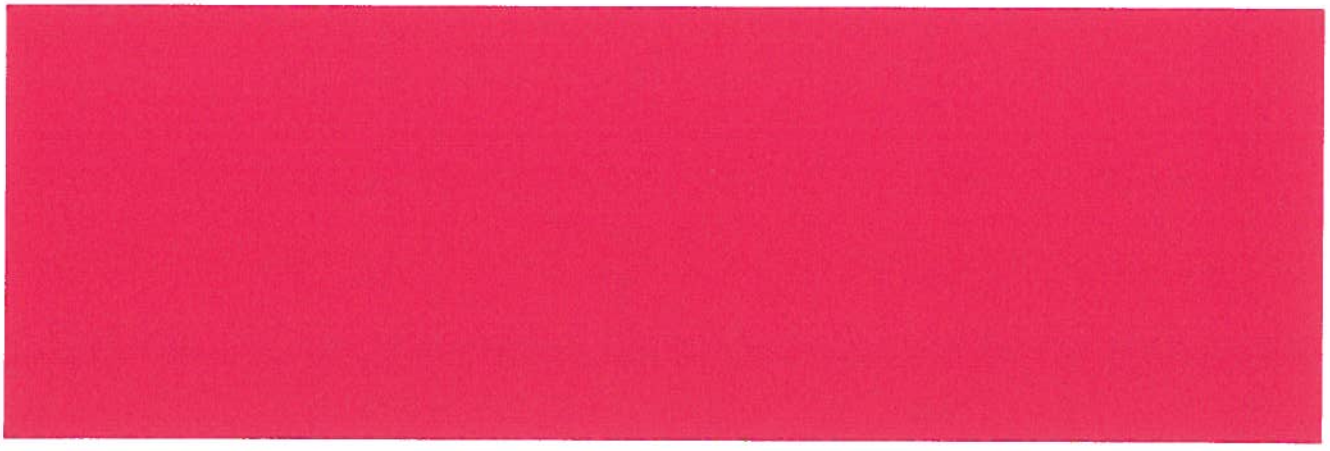

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RISK ASSESSMENT		
Assessor: Carl Nicholas	**Client: Noble & Taylor (Ongar) Ltd**	**Page: 1 of 2**
Date of Assessment: 6 June 2015	**Nature of Works: Dirt removal using the DOFF System**	
Project Address: Congress House		

Activity	Risk	Likelihood	Severity	Total	Control Measures Implemented to reduce the Risk	Residual risk factor
Water/steam cleaning of the road using DOFF system	Scalding from hot components on lance section	4	4	16	• Steam will dissipate very quickly and should not prove an inhalation hazard. • Drain positions will be monitored to minimise surface water. • Hoses and cables outside screens to be identified and screened where possible. • 240 volt supply to be via armoured cable and LCD protected breaker. • Personal protective equipment such as safety boots, goggles, masks, gloves and overalls to be worn. • Work areas to be isolated from other operatives and/or public. • Restricting noise and moisture nuisance clearly demarcated and identified by appropriate hazard signs. • All operatives to be fully trained in cleaning method and correct use of plant. • Use of experienced operative only.	4
	Danger from misuse of plant Use of 240 volt electrical supply (with trip switch)	3	4	12		3

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Risk Assessment Completion Guidelines

Risk Rating System

Each operation within the project will be assessed to identify potentially hazardous activities from which the significant risks can be ascertained. A rating of risk is then made by assessing the severity of any injuries or other loss and the likelihood of that injury or loss arising. This calculation is made before any control measures are implemented.

Calculation of Risk Rating

Ranking of Severity

Score	Severity
1	Minor
2	*Moderate*
3	*Moderate to High*
4	*High*
5	*Catastrophic*

Ranking of Likelihood

Score	Likelihood
1	Very Remote
2	Unlikely
3	*Possible*
4	*Very Possible*
5	*Certain*

Once an assessment of severity and likelihood has been made, the score of each is multiplied together to produce a risk-rating figure. The matrix below can then be addressed:

		Severity				
		5	4	3	2	1
Likelihood	5	*25*	*20*	*15*	*10*	*5*
	4	*20*	*16*	*12*	*8*	*4*
	3	*15*	*12*	*9*	*6*	*3*
	2	*10*	*8*	*6*	*4*	*2*
	1	*5*	*4*	*3*	*2*	*1*

Minor Risks	*1 to 6*	No further action needed
Medium Risk	*8 to 12*	Further control measures needed before works start
High Risk	*15 to 25*	Further control measures and specialist guidance needed before works start

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RISK ASSESSMENT

Assessor: Carl Nicholas	**Client: Noble & Taylor (Ongar) Ltd**	**Page: 1 of 2**
Date of Assessment: 4 June 2015	**Nature of Works: Doff Cleaning**	
Project Address: Congress House	**Persons at risk: Operatives, Other trades, Public**	

Activity	Risk	Likelihood	Severity	Total	Control Measures Implemented to reduce the Risk	Residual risk factor
Use of Small Plant, Power Tools & Hand Tools	1. Electrocution	3	4	**12**	1. Work only to be carried out within the confines of the work area provided. Ensure safe means of access and egress.	**3**
	2. Fire	3	4	**12**	2. Provision of a safe means of access and egress for materials and operatives.	**3**
	3. Damage to equipment	3	3	**9**	3. Any activity outside the above parameters will require a specific risk assessment to be in place prior to being carried out.	**3**
	4. Tripping over electrical equipment	3	4	**12**	4. Leads/extensions cables must not trail across walkways and should be routed off the floor to prevent trips.	**3**
	5. Eye injury	3	4	**12**	5. All equipment found to be defective must be switched off and reported immediately.	**3**
	6. Hand, foot or body injury	3	4	**12**	6. All portable electrical equipment will be identified individually and is subject to planned maintenance this includes a three monthly test and inspection. (PAT test)	
					7. Operatives to wear correct PPE, i.e. hard helmet, gloves, goggles, safety boots, dust masks and hi-vis vests	
					8. Use of experienced operatives.	
					9. Safe storage of materials.	
					10. Operatives to abide by the safety regulations in place.	
					11. Operatives will be trained in the precautions and safe use of portable electrical equipment by use of a Tool Box Talk	

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Risk Assessment Completion Guidelines

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Stonewest

RISK ASSESSMENT

Assessor : Carl Nicholas	**Client: Noble & Taylor (Ongar) Ltd**	**Page: 1 of 2**
Date of Assessment : 4 June 2015	**Project Address : Congress House**	
Nature of Works: Doff Cleaning	**Persons at risk: Operatives,**	

Activity	Risk	Likelihood	Severity	Total	Control Measures Implemented to reduce the Risk	Residual risk factor
Manual Handling	• Back injury caused by incorrect lifting	3	4	12	• All operatives to receive correct training in lifting procedures	4
	• Foot injury caused by dropping equipment	3	4	12	• Work area to be kept clear of all debris, leads etc	4
	• Hand injuries	3	4	12	• Lifting aids to be used to lift all heavy equipment ie sack trucks, pneumatic bogeys, block and tackle and lifting straps.	4
	• Trip hazards	3	4	12	• All electrical power leads to be kept clear of ground	
					• All operatives to be trained in the method of work and tool operations	
					• Operatives to wear correct PPE ie gloves and steel toe cap boots	

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Risk Assessment Completion Guidelines

Risk Rating System

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METHOD STATEMENT

Congress House

Cleaning Trials to the Jacob Epstein Memorial Statue

Job No: 67377

APPENDIX 2

Date: June 2015 **Issue No: 2**

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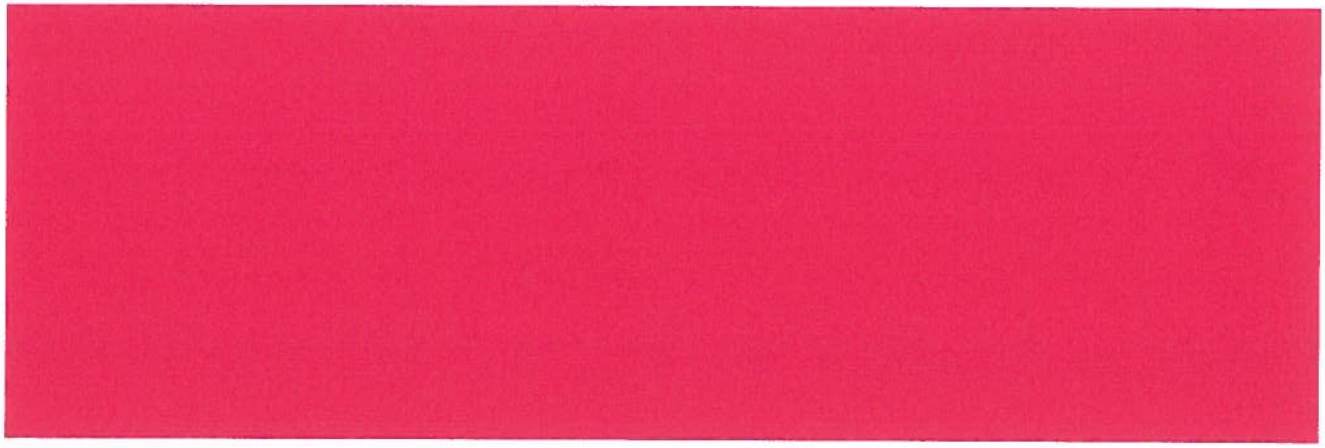


CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH

COSHH ASSESSMENT 156 - DIESEL

Stonewest

Trade Name:	**Diesel**
Substance:	Clear Liquid
Description:	Gas Oil
Manufacturer:	Linton Fuel Oils
Emergency Contact No:	020 8875 2809
MSDS Ref No:	**Attached: Y/~~N~~**
WEL: 8hr:	**Short Term:**
Overall Risk category:	Irritant

Activity use:

Hazards presented by Substance

Irritant to skin, eyes and respiratory tract


Harmful to aquatic environment

Control Measures

Wear appropriate PPE;
Avoid contact with skin or mouth

Personal Protective Equipment

Hard Hat	BSEN 397	✓	Gloves	BSEN 388	✓
High visibility vest	BSEN 345	✓	Overalls		✓
Safety Boots	BSEN 471	✓	Face Mask/Shield	BSEN 136	
Eye protection	BSEN 166B	✓	Chemical Suit	BSEN 7184	
Gauntlets:	BSEN 388		Respirator	BSEN 136	✓

Safe Working Method

Avoid contact with skin
Wear suitable protective clothing and gloves
In case of fire do not use water to extinguish
Avoid release to the environment

First aid Requirement (If the substance accidentally comes in contact with the body)

Inhalation: Remove to fresh air. Get immediate medical attention.
Ingestion: Do not induce vomiting. Get immediate medical attention
Skin Contact: Wash skin with plenty of soap and water until all traces of material are removed. Remove and clean contaminated clothing and shoes. Get medical attention if skin irritation persists or skin contact has been prolonged.
Eye Contact: Immediately flush with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids. Get medical attention.

Containment and Fire Fighting

Use water fog, dry powder, foam or carbon dioxide. Use water to cool fire-exposed containers

Storage and Disposal

Storage: Store in accordance with applicable local regulations. Keep away from heat, sparks, flame and other sources of ignition. Protect containers against static electricity, lightning and physical damage

Disposal: Dispose in a safe manner in accordance with local/national regulations.

Spillage

Ventilate area. Avoid breathing vapour. Use self-contained breathing apparatus or supplied air mask for large spills or confined areas. Contain spill, wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways

Comments

Assessment carried out by : K. WADE

Date to be reviewed: October 2010

Date: October 2009 **COSHH 156**

Linton®
Linton Fuel Oils Ltd

According to EU Directive 93/112/EEC READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT

1. PRODUCT AND COMPANY NAME

PRODUCT CODE AND NAME
001 GAS OIL, DIESEL AND HEATING

DESCRIPTION
Gas Oils

COMPANY
Linton Fuel Oils Ltd
Osiers Road
Wandsworth
London
SW18 1NR

Tel: 020 8874 6583
Fax 020 8877 1043
Email info@lintonfueloils.com

Emergency Tel: 020 8875 2809 (Operating hours only)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	% Wt	CAS No.	EC No.
Fuels, diesel	95 - 99.99	68334-30-5	269-822-7
Xn R 40	Possible risk of irreversible effects.		
Xn R 65	Harmful: may cause lung damage if swallowed.		
R 52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		

Product contains small amounts of additives.

3. HAZARDS IDENTIFICATION

Warning statement
POSSIBLE RISK OF IRREVERSIBLE EFFECTS FOLLOWING PROLONGED AND REPEATED SKIN EXPOSURE
MAY ENTER LUNGS AND CAUSE DAMAGE IF SWALLOWED
MAY CAUSE IRRITATION TO EYES AND RESPIRATORY TRACT
HYDROGEN SULPHIDE MAY BE RELEASED WHEN HEATED
EXPOSURE TO VAPOUR / MIST MAY CAUSE DIZZINESS AND DROWSINESS
HARMFUL TO THE AQUATIC ENVIRONMENT

Linton®
Linton Fuel Oils Ltd

Acute effects of exposure to man

Inhalation
Vapours or mist may cause irritation of the nose and throat, headache, nausea, vomiting, dizziness, drowsiness, euphoria, loss of coordination, and disorientation. In poorly ventilated areas or confined spaces, unconsciousness and asphyxiation may result.
Inhalation of vapours or mist may result in the absorption of potentially harmful amounts of material.
Skin contact
Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling.
Believed not to be a skin sensitiser.
Eye contact
May cause irritation, experienced as mild discomfort and seen as slight excess redness of the eye.
Ingestion
If more than several mouthfuls are swallowed, abdominal discomfort, nausea and diarrhoea may occur.
Aspiration may occur during swallowing or vomiting, resulting in lung damage.

Chronic effects of exposure to man

Medical conditions aggravated by exposure
Because of its irritating properties, repeated skin contact may aggravate an existing dermatitis (skin condition).
Other remarks
Prolonged or widespread skin contact may result in the absorption of potentially harmful amounts of material.
Effects of exposure to the environment
Some short-term toxicity to aquatic and marine organisms.

4. FIRST AID MEASURES

Route of exposure
Inhalation
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, qualified personnel may administer oxygen. Get immediate medical attention. External cardiac massage may be instituted if the heart has stopped.
Skin contact
Wash skin with plenty of soap and water until all traces of material are removed. Remove and clean contaminated clothing and shoes. Get medical attention if skin irritation persists or skin contact has been prolonged.
Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Hold eyelids apart while flushing to rinse entire surface of eye and lids with water. Get medical attention.
Ingestion
Do not induce vomiting. Get medical attention. Never give anything by mouth to an unconscious or convulsing person.
Other recommendations
Aspiration of this product during induced vomiting can result in lung injury which may be fatal. If evacuation of stomach contents is considered necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal incubation.
Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
Use water fog, dry powder, foam or carbon dioxide. Use water to cool fire-exposed containers. If a

leak or spill has not ignited, use water fog to disperse the vapours and to provide protection for personnel attempting to stop the leak.

Extinguishing media which must not be used for safety reasons

Water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire - Always call the fire brigade. Small fires, such as those capable of being fought with a hand-held extinguisher, can normally be fought by a person who has received instruction on the hazards of flammable liquid fires. Fires that are beyond that stage should only be tackled by people who have received hands-on training. Ensure escape path is available.

Special protective equipment for firefighters

The nature of special protective equipment required will depend upon the size of the fire, the degree of confinement of the fire and the natural ventilation available. Fire-resistant clothing and self-contained breathing apparatus is recommended for fires in confined spaces and poorly-ventilated areas. Full fire-proof clothing is recommended for any large fires involving this product.

6. ACCIDENTAL RELEASE MEASURES

Procedures in case of accidental release or leakage

Ventilate area. Avoid breathing vapour. Use self-contained breathing apparatus or supplied air mask for large spills or confined areas. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

7. HANDLING AND STORAGE

Handling

Local exhaust ventilation recommended if generating vapour, dust, or mist. If exhaust ventilation is not available or inadequate, use approved respirator as appropriate.

This product may contain volatile hydrocarbons which may accumulate in the container headspace, thereby creating a flammable or explosive atmosphere.

Storage

Transport, handle and store in accordance with applicable local regulations. Ground and bond shipping container, transfer line and receiving container if there is a chance that the tank has previously contained low-flash material.

Keep away from heat, sparks, flame and other sources of ignition.

Protect containers against static electricity, lightning and physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection

Airborne concentrations should be kept to lowest levels possible. If vapour, mist or dust is generated, use approved respirator as appropriate.

Supplied air respiratory protection should be used for cleaning large spills or upon entry into tanks, vessels, or other confined spaces.

Oxygen levels should be at least 19.5 % in confined spaces or other work areas.

Hand and skin protection

Protective clothing such as uniforms, coveralls or lab coats should be worn. Launder or dry-clean when soiled. Gloves and boots resistant to chemicals and petroleum distillates required.

Eye protection

Chemical type goggles or face shield recommended to prevent eye contact.

Exposure limit for the product

None established for product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Linton®
Linton Fuel Oils Ltd

Appearance	Clear liquid
Odour	Petroleum odour
Flash point, °C	56 min (PMCC)
Relative density	0.82 - 0.86 @ 15 °C
Viscosity	2 - 5 mm2/s @ 40 °C
Boiling point/range, °C	160 - 385

10.STABILITY AND REACTIVITY

Conditions to avoid
Sources of ignition such as naked flames, sparks, hot surfaces.
Materials to avoid
Avoid contact with strong oxidising agents.
Hazardous decomposition products
Carbon monoxide, carbon dioxide, aldehydes and ketones.
Hydrogen sulphide (H_2S) may be released on heating and may accumulate in confined spaces.

11.TOXICOLOGICAL INFORMATION

Acute

Inhalation
Likely to be irritating to the respiratory tract if high concentrations of mists or vapour are inhaled.
May cause nausea, dizziness, headaches and drowsiness if high concentrations of vapour are inhaled.
May be toxic when hydrogen sulphide is present in the vapour.
Skin contact
Slightly irritating to the skin.
Believed not to be a skin sensitiser.
Eye contact
Slightly irritating to the eyes.
Ingestion
Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea. Will injure the lungs if aspiration occurs, eg. during vomiting.
Chronic
This product, or a component of this product, has caused skin cancer when repeatedly applied to the skin of laboratory animals without any effort to remove the material between applications.

12.ECOLOGICAL INFORMATION

Mobility
Not determined
Persistence and degradability
According to EC criteria : Not readily biodegradable
Potential to bioaccumulate
This product is expected to bioaccumulate.
Aquatic toxicity
Some short-term toxicity to aquatic and marine organisms.
Remarks
None

13.DISPOSAL CONSIDERATIONS

Disposal
Dispose in a safe manner in accordance with local/national regulations.
Remarks
None

Linton®
Linton Fuel Oils Ltd

14.TRANSPORT INFORMATION

Sea transport

UN No	1202
Proper shipping name	GAS OIL
IMO, IMDG Class/Packing group	3.3 / III
Marine pollutant	No
EmS No	3-07
MFAG Table No	311

Road/rail transport

UN No	1202
Proper shipping name	GAS OIL
ADR/RID Class/Packing group	3,31(c) / III
Hazard identification No	30
CEFIC Tremcard No	26
UK Emergency action code	3Z
Pollutant to the aquatic environment	No

Inland waterways

ADNR Class	3,31(c)

Air transport

UN No	1202
Proper shipping name	GAS OIL
IATA/ICAO Class/Packing group	3 / III

15.REGULATORY INFORMATION

Labelling information

Indication of danger
Xn HARMFUL

Risk phrases

Xn R 40	Possible risk of irreversible effects.
Xn R 65	Harmful: may cause lung damage if swallowed.

Safety phrases

S 2	Keep out of the reach of children.
S 24	Avoid contact with skin.
S 36/37	Wear suitable protective clothing and gloves.
S 43	In case of fire, use CO_2, dry chemical or foam. Never use water.
S 61	Avoid release to the environment. Refer to special instructions/Safety data sheets.
S 62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Hazardous ingredients

Fuels, diesel

Additional information
Refer to any national measures that may be relevant.

16.OTHER INFORMATION

Linton®
Linton Fuel Oils Ltd

Hazardous concentrations of hydrogen sulphide (H2S) gas can accumulate in storage and rundown tanks, manne vessel compartments, sump pits or other confined spaces. When opening valves, hatches and dome covers, stand upwind, keep face as far from the opening as possible and avoid breathing any gases or vapours. When exposure concentrations are unknown and respiratory protection is not used, personal H2S warning devices should be worn. These devices should not be relied on to warn of life threatening concentrations. H2S fatigues the sense of smell rapidly. The rotten egg odour of H2S disappears quickly, even though high concentrations are still present. The ACGIH TLV/TWA for H2S is 10 ppm, the STEL 15 ppm.
The company recommends that all exposures to this product be minimized by strictly adhering to recommended occupational control procedures to avoid any potential adverse health effects.

All information contained in this Material Safety Data Sheet and, in particular, the health and safety and environmental information is accurate to the best of our knowledge and belief as at the date of issue specified. However, the Company makes no warranty or representation, express or implied, as to the accuracy or completeness of such information.

The provision of this Material Safety Data Sheet is not intended, of itself, to obviate the need for all users to satisfy themselves that the product described is suitable for their individual purposes and that the safety precautions and environmental advice are adequate for their individual purposes and situation.
Further, it is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product.

The Company accepts no responsibility for any injury, loss or damage, consequent upon any failure to follow the safety and other recommendations contained in this Material Safety Data Sheet, nor from any hazards inherent in the nature of the material, nor from any abnormal use of the material.

Product 001 Gas Oil

DATE ISSUED : 24/09/1999 SUPERSEDES : 30/06/1999
Data Sheet prepared by Linton Fuel Oils Ltd

Stonewest

METHOD STATEMENT

Congress House

Cleaning Trials to the Jacob Epstein Memorial Statue

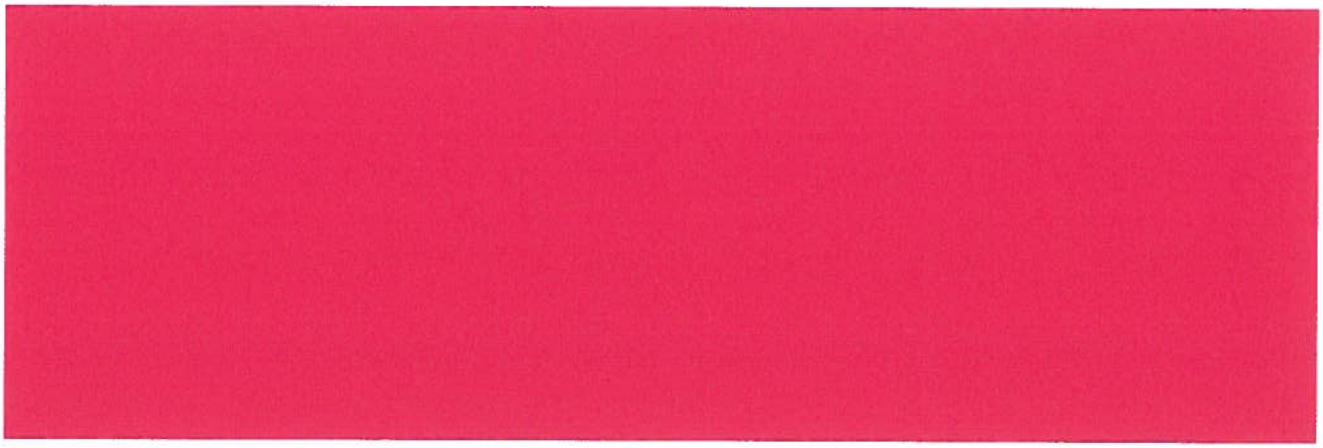
Job No: 67377

APPENDIX 3

Date: June 2015 **Issue No: 2**

Principal & Specialist Contractors in Restoration, Conservation & New Build Masonry

E: info@stonewest.co.uk T: 0208 684 6646 F: 0208 684 9323 W: www.stonewest.co.uk
Stonewest Ltd, 67 Westow St, London, SE19 3RW



Construction Awards Alliance is an alliance between Cskills Awards and City & Guilds

Construction Awards Alliance

Cskills awards

City & Guilds

This

Level 3

National Vocational Qualification

in

Occupational Work Supervision

(100/5123/5)

is awarded to

Robert Maggs

Adrian Beckingham
Head of Cskills Awards

Chris Jones
Director General
The City & Guilds of London Institute

Ofqual

Issued Date: 25-03-2010

909214

Registration No: 694040

Construction Awards Alliance is an alliance between Cskills Awards and City & Guilds

Construction Awards Alliance

Cskills awards

City & Guilds

This Certificate has been issued to

Robert Maggs

to mark the attainment of units leading towards Level 3 National Vocational Qualification in Occupational Work Supervision

Confirm the Occupational Method of Work	A/103/1192
Confirm Work Activities and Resources for the Work	M/103/1190
Confirm Work Meets Quality Standards	Y/103/1197
Facade Preservation	
Co-ordinate and Organise Work Operations	J/103/1194
Develop and Maintain Good Working Relationships	T/103/1191
Implement and Maintain Health, Safety and Welfare	F/103/1193
Implement Procedures to Support Team's Performance	D/103/1198
Facade Preservation	

Adrian Beckingham
Head of Cskills Awards

Chris Jones
Director General
The City & Guilds of London Institute

Ofqual

909213

Issued Date: 25-03-2010

Registration No: 694040

Cskills Awards provides awards, assessment and training support services and is a division of ConstructionSkills

Stone Federation Great Britain
Channel Business Centre
Ingles Manor
Castle Hill Avenue
Folkestone
Kent CT20 2RD

Certificate

Of Training Achievement

This document confirms that

Robert Maggs

Of

StoneWest

On

November 4th & 5th 2009

Successfully participated in the intensive two-day training workshop

Principles of

Occupational Work Supervision

(Construction)

This course included the following syllabus

The role of the supervisor; Communication skills; Explaining drawings, specifications, risk assessments, method statements, technical data and other documentation; Handling deliveries to site; Quality control; Site health & safety; Team motivation.

C.P.D. Units

16 hours with examination

This course contributes toward completion of

NVQ 3: OCCUPATIONAL WORK SUPERVISION (CONSTRUCTION)

Course facilitator

Stonetrain

Course administrator

Part of a NVQ assessed by

cskills

Authenticated by

Mark Priestman, L.CGI, L.IAV, F.InstSMM
Instructing Assessor, StoneTrain SFGB

David Priestman, A.SFGB, L.IAV, F.InstSMM
Head of Operations, StoneTrain
Training Officer, Executive Board Member, SFGB

Jane Bux[illegible] B(Hons)
Chief Executive Offic[illegible] SFGB

EXAMINATION RESULT

PASS with DISTINCTION

CSCS

CONSTRUCTION SKILLS
CERTIFICATION SCHEME

All enquiries and queries concerning your CSCS card should be addressed to:
CSCS, PO Box 114, BIRCHAM, KINGS LYNN, NORFOLK PE31 6XD
Telephone 0844 576 8777
If you have changed your name or address or if any of the details shown below are incorrect or incomplete (e.g. your postcode is not shown), please amend and return this form to the above address.

Stonewest Ltd
Lamberts Place
St James' Road
CROYDON
United Kingdom
CR9 2HX

CSCS REGISTRATION NUMBER
00694040/1

PLEASE QUOTE YOUR REGISTRATION NUMBER ON ANY CORRESPONDENCE

00694040/1-07

15 March 2011

Welcome to CSCS.

Please find enclosed your CSCS card, You should check the details carefully to ensure they are correct. In the event that any details are incorrect please advise us in writing of any changes to be made, returning the card within 14 days of receipt.

Further information on CSCS can be obtained by visiting the CSCS Website at www.cscs.uk.com. Alternatively you can call our help line - 0844 576 8777 - open Monday to Friday 8.00 – 18.00. Outside these hours, a voicemail service is operational.

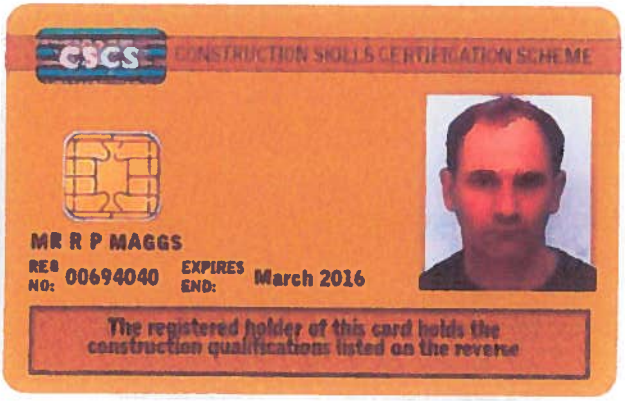
You will notice that your new CSCS card has a smart chip which has been introduced to allow those checking CSCS cards to access your CSCS data online in order to reduce the number of fraudulent CSCS cards in circulation. This smart chip may be also used for other applications. If you would like more information about CSCS SmartCards please visit www.cscssmartcard.co.uk.

CSCS Tel: 0844 576 8777 www.cscs.uk.com
Registration No: 00694040

Occupational Work Supervisor NVQ Level 3

The cardholder has met the Health and Safety awareness requirements as laid out in the CSCS Scheme Booklet

constructingbetterhealth
www.constructingbetterhealth.co.uk



CSCS

CONSTRUCTION SKILLS CERTIFICATION SCHEME

All enquiries and queries concerning your CSCS card should be addressed to:
CSCS, PO Box 114, BIRCHAM, KINGS LYNN, NORFOLK PE31 6XD
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CSCS REGISTRATION NUMBER
00694040/1

PLEASE QUOTE YOUR REGISTRATION NUMBER ON ANY CORRESPONDENCE

Stonewest Ltd
Lamberts Place
St James' Road
CROYDON
CR9 2HX

00694040/1-03

05 August 2010

Welcome to CSCS

Please find enclosed your CSCS card. You should check the details carefully to ensure they are correct. In the event that any details are incorrect please advise us in writing of any changes to be made, returning the card within 14 days of receipt.

Further information on CSCS can be obtained by visiting the CSCS Website at www.cscs.uk.com Alternatively you can call our help line - 0844 576 8777 - open Monday to Friday 8.00 – 18.00 Outside these hours, a voicemail service is operational.

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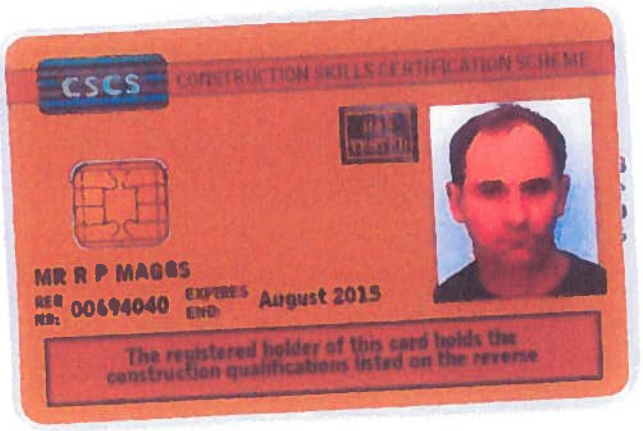


Construction Site Supervisor's Safety Certificate

Awarded to

Robert Patrick Maggs

on

14th July 2010

on the successful completion of

The Site Supervisor's Safety Training Scheme for the Construction and Civil Engineering Industries

Signed on behalf of
ConstructionSkills

Chief Executive

Course Organiser

REGISTRATION NUMBER **694040**

EXPIRY DATE **31/07/2015**

Site Safety Plus

constructionskills

Certificate of Training

This is to Certify that

ROBERT MAGGS

of

STONEWEST LIMITED

has completed the following course

One Day Scaffold Inspection Refresher Awareness

held at

Lamberts Place, Croydon, CR9 2HX

on

10th March 2009

FLOOD PARTNERSHIP LTD
Health and Safety Consultants

DIRECTOR

Certificate of Training

This is to Certify that

BOBBY MAGGS

of

STONEWEST LIMITED

has completed the following course

Asbestos Awareness

held at

Lamberts Place, St James's Road, Croydon CR9 2HX

on

3rd May 2012

fp FLOOD PARTNERSHIP LTD
Health and Safety Consultants

DIRECTOR

Certificate of Training

This is to Certify that

ROBERT MAGGS

of

STONEWEST LIMITED

has completed the following course

Asbestos Awareness Training

held at

Lamberts Place, Croydon, CR9 2HX

on

5th March 2009

FLOOD PARTNERSHIP LTD
Health and Safety Consultants

DIRECTOR

Certificate of Training

This is to Certify that

ROBERT MAGGS

of

STONEWEST LIMITED

has completed the following course

Site Safety Representative

held at

Stonewest Head Office, Croydon

on

4th June 2008

FLOOD PARTNERSHIP LTD
Health and Safety Consultants

DIRECTOR

STONEHEALTH LIMITED

73 London Road, Marlborough, Wilts, SN8 2AN
Tel & Fax: 01672 511515

14th February 1997

To Whom It May Concern

ROBERT MAGGS - SEAN MAGGS

This is to confirm that the above have been inducted into the proper use of the Stonehealth DOFF system on Thursday, 13th February 1997. The Induction covers the application, use, maintenance and Health & Safety aspects.

They were able to display their abilities and competence in the use and knowledge of using the system to the satisfaction of Stonehealth Limited.

It is understood that they are also experienced in the use of the Stonehealth JOS Cleaning System.

For and on behalf of
STONEHEALTH LIMITED

Stonewest

METHOD STATEMENT

Congress House

Cleaning Trials to the Jacob Epstein Memorial Statue

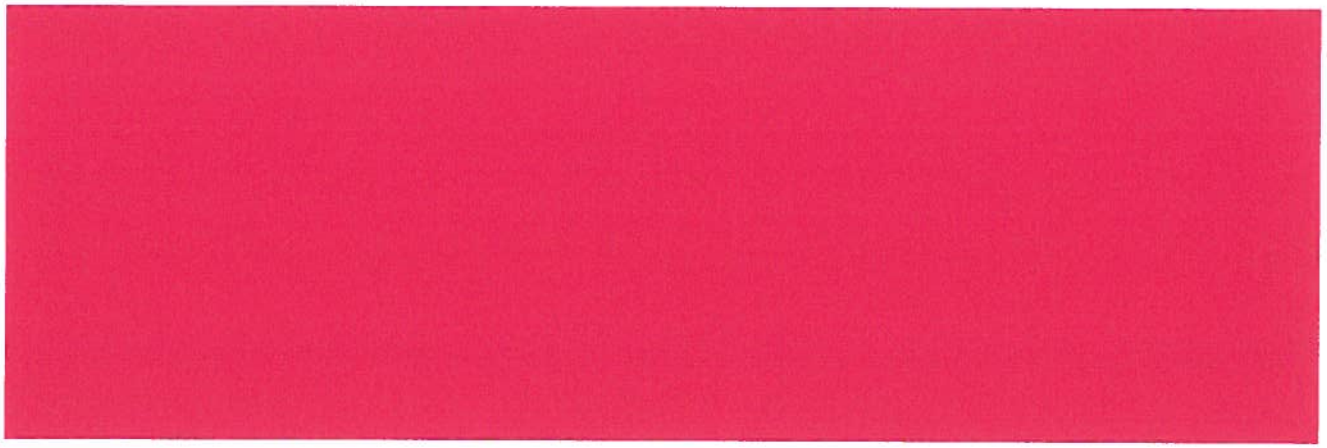
Job No: 67377

APPENDIX 4

Date: June 2015 **Issue No: 2**

Principal & Specialist Contractors in Restoration, Conservation & New Build Masonry

E: info@stonewest.co.uk T: 0208 684 6646 F: 0208 684 9323 W: www.stonewest.co.uk
Stonewest Ltd, 67 Westow St, London, SE19 3RW



THERMATECH THE THERMATECH® 'SUPERHEATED WATER' SYSTEM

Explanation

Unlike a conventional hot water pressure washer, the ThermaTech system combines continuous **high temperature and pressure** and **lower water volume**. This is delivered as a **liquid spray**, even at temperatures close to 155°C. This is referred to as '**Superheated Water**'.
It achieves this by using less water, high heat capacity and specific nozzle design and specification.

Description

The standard ThermaTech system comprises pump, 'Heater Module', high pressure hoses and 'gun'. The system is modular, the pump and fuel tank can be lifted away to aid vehicle loading and site mobility. Selection of lances and nozzles and the adjustment of temperature and pressure are made to suit the substrate and soiling or coating. A gauge on the pump and digital display on the Module, register the working pressure and temperature.

Cold water from a tap or water tank is pressurised by the pump and passes through a blue high pressure hose to the Heater Module. Heated by diesel or kerosene, hot water exits through flexible red high pressure hoses to the gun.

For vertical surfaces, a short lance can be used more accurately for surface detail or paint and coating removal.

For increased performance, it is possible to connect the pump to two Heater Modules and back to one gun. This provides full temperature at the full pressure rating.

Specification

The **standard electric pump** is 110v and has a water flow rate of 4-8.5 litres min^{-1}. Pressure is adjustable from 30-140bar*. The optional 230v pump has a maximum pressure of 160bar*.
The **standard Heater Module** is 110v but is made 'dual voltage' by use of the optional 'drop in' transformer. The fuel is red or white diesel, or central heating oil (kerosene). Kerosene should be used with a combustion additive to prevent 'sooting up'. With adjustment, cooking oil is also permitted. Temperature is adjustable from 30-155°C. With one Heater Module, 155°C can be maintained at pressures up to 90bar*, 120°C up to 120bar* and 100°C up to 155bar*.
High pressure hoses are supplied red, in 10m or 20m length. For lengths longer than 30m, it is recommended that the additional hosing be located between pump and Heater Module to minimize temperature loss. **One 'bar' is a unit of pressure equivalent to 14.5 pounds per square inch (P.S.I).*

Cleaning

The intensity of cleaning for delicate substrates is reduced by (a) Reducing the pump pressure setting (b) Changing the nozzle specification e.g. a nozzle of wider spray angle exerts a lower surface pressure at a given distance (c) Increasing the temperature so that the spray becomes diffuse (d) Increasing the working distance of nozzle to surface.

For delicate surfaces, full temperature but reduced pressure is used (see the explanation under 'paint/coating removal' below). The minimum practical pump pressure is 30bar*.

The temperature at which the spray becomes diffuse varies one nozzle design to another and so one with a lower diffusion temperature but operated at a higher temperature, will provide a 'softer' (diffuse) clean (see nozzle selection).

For tenacious soiling, it will be found advantageous to develop 'the clean' in stages, leaving an interval between. This 'dwell' period often acts to soften or release deposits more readily e.g. for removal of light sulphation, or deep organic soiling from wall copings.

Prolonged or close contact is unable to raise the temperature higher than the setting which, at a maximum of 155°C, is regarded as well below that which will induce chemical or physical change in most mineral substrates. However, direct contact with glass must be avoided.

The use of hot water greatly accelerates drying. Precautions must prevent wet substrates being subjected to frost.

Paint/Coating Removal

The closer a nozzle operates to the surface, the higher the temperature but also the higher the surface pressure (because the water exits the aperture in a 'fan' shape). In general, it is high pressure (and/or volume) that will potentially damage a substrate and not the temperature. Therefore, if a given temperature/pressure setting proves to be too aggressive, one should lower the pump pressure and use the nozzle closer to the surface. The pressure effect that would be induced by moving the nozzle closer is counteracted by reducing the pump pressure. The reduced distance will, however, raise the temperature at which the water strikes the surface thus aiding the yield of the coating.

If the coating proves too resistant, or the substrate is too weak, a chemical to soften the coating should be employed. This will allow the nozzle to be operated at a greater distance (lower surface pressure) and to reduce the action time.

Nozzle Selection

Choice of nozzle is important. For the ThermaTech system, we presently have a number of nozzle types.

The standard nozzle (Lechler type) loses sharpness at temperatures greater than 140°C. This produces an even spray with good cleaning and paint removal characteristics. The spray angle used for cleaning is normally 40° but a nozzle of 25° can be used where the substrate allows.

An alternative nozzle ('Spraying Systems' type) causes the spray to become diffused once the water temperature significantly exceeds 100°C. This is used selectively to generate a very soft and hot vapour for the most delicate cleaning. This is not normally necessary for sound surfaces and is generally inappropriate for paint removal.

Health and Safety and Documentation

The ThermaTech system has been designed and built in the U.K specifically for use with restoration and conservation projects and for all kinds of site work generally.

The design utilises 110v as standard. The Heater Module is fitted with twin safety relief valves, twin temperature controllers, direct temperature readout and the controls are 24v. It uses a jerry-can tank to reduce site fuel handling. Fuel tank 'bunding' and 'drip tray' options are available. The switches of both the pump and the Heater Module have current overload **and** low voltage cut-out protection.

Hot high pressure hoses have been manufactured in red, specifically for the ThermaTech, to denote high temperature. External plugs and connectors are of IP67 'watertight' construction.

In addition to this '**Technical Information Sheet**', Restorative has produced a family of documents to support project specification and management. These are for general guidance and include the '**ThermaTech Risk Assessment**' and '**ThermaTech Safe Working Procedure**'. These have been written in conjunction with our independent health and safety advisors, the NFU, and are reviewed by them and re-issued on an annual basis. These are available for architects, specifiers and contractors for the use of equipment and products supplied by Restorative Techniques Ltd.

Where applicable, '**Health and Safety Data Sheets**' are issued for products used in conjunction with this equipment such as that for 'ThermaTech Descaler Concentrate'.

Restorative can be engaged to produce on-site trials and reports and to aid decision making in specification and implementation.

04/07/2012.

110v 'Standard' Superheated Water System - Arrangement & Connections

THERMATECH®