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| **Risk Assessment / Method Statement** | | | |
| **Job LOG:** | 3416 | | |
| **Client:** | Trident engineering Consultants Ltd/ GB Oils | | |
| **Site address:** | Bryan Lane, Wrexham Industrial Estate, Wrexham, LL13 9UT | | |
| **Location of Works:** | Site yard | | |
| **Description of works:** | * Demolition of structures, including the fabric of the materials within the structure. * Removal of services including gas, electricity and water. * Removal of demolition waste for other use or disposal in suitable tip. | | |
| **Assessment date:** | 26/03/13 | **Review Date:** | 26/03/14 |
| **Produced by:** | Medi adadi | | |
| **Operatives involved:** | Joseph Earley, Nigel Ocego, Stephen Driscoll, Steven Preston, Allan Davies, David Johnson, Colin Powell, Gary Cahill, Paul Dowdall, John Brannigan, Stan Robinson, Tommy Johnson, Peter Earley, Peter Graves, Greg Braithwaite, Stuart Lawrence, Paul Crawford, Terry Dolan, Stephen Rogers, David Fairhurst, Bert Greenall, | | |
| **Supervisor on site:** | Joseph Earley, Nigel Ocego, Stephen Driscoll | | |

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| RISK ASSESSMENT & METHOD STATEMENT - METHOD STATEMENT DETAILING RISK CONTROL MEASURES  The risk (s) will be reduced by the implementation of the safe controls including a safe sequence of works. This Method Statement and the application of the associated risk control measure (s), will be strictly adhered to and its application ensured by the Sterling Services onsite supervisor. Full details are as follows: |

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| **Hazards Identified** | **Persons at Risk** | **Current Risk Rating** | **Control Measures to be applied to minimise risk** | **Residual Risk** |
| Interaction with GB oils site, and site employees, visitors, guests, other contractors.  Access to site when undertaking work.  Interaction with FLT’s, delivery vehicles, contractor’s vehicles, public and staff vehicles. | Engineer, Employees, Visitors | High | * All operatives shall be inducted to site by GB Oils site management outlining site rules and requirements and mandatory levels of PPE required on site. * All Sterling Services operatives shall sign site register on arrival at reception and sign out when leaving. * Quote and Scope of works shall be discussed and agreed with responsible manager on site before work commences. * Permit to Work shall be provided, agreed upon and completed between SS operative and responsible manager. * Once works have been completed PTW shall be signed back with Pink copy issued to SS operative. * Suitable control measures shall be implemented when working in populated areas to ensure that works are sufficiently segregated at all times and that work does not impact on the health and safety of GB Oils employees. * Suitable cones and barriers will be used to safely segregate the area of works and allow traffic to safely move around the area of works. * Safe routes, access and egress have been communicated. | Low |
| Manual Handling, musculoskeletal disorders, sprains etc | Operative | Medium | * SS operatives shall be trained in manual handling operations and lifting principles. * Manual Handling will be avoided where so far as reasonably practical mechanical lifting devices can be used. * Engineer shall only lift weight that they are comfortable with. * If works being carried out require repetitive or unusual manual handling then a specific manual handling assessment shall be done. | Low |
| Hand held tools, worn, damaged, unsuitable  Portable Power Tools  Extension leads | Operative | Medium | * All hand tools shall be fit for purpose, visually inspected before use for damage or wear and tear. * All portable power tools/extension leads shall be 110v only, be fit for purpose and visually inspected before use. * All portable power tools shall be PAT tested. * Only competent Engineer shall use portable power tools. | Low |
| Portable Power Tools  Extension leads | Operative | Medium | * All portable power tools/extension leads shall be 110v only, be fit for purpose and visually inspected before use or wear and tear, missing components, damage, alterations etc. * If equipment is found to be defective, faulty or damaged it shall be removed from use immediately. * All portable power tools shall be PAT tested. * Only competent operatives shall use portable power tools. | Low |
| Plant and Machinery, Mini Digger, Breaker and Abrasive Wheel when cutting reinforced mesh  Contact with buried services and overhead electricity wires | Operative | High | * Only trained and competent operatives shall operate Mini Digger, driver will be provided by Hire Company (HSS), he will be trained and certificated and familiar with the operation of digger. * Mini Digger shall have current service and inspections records which shall be inspected before machine is accepted onto site. * Only competent operatives shall operate breaker and power pack. * Breaker and power pack shall have a current service and maintenance record. * A Visual inspection of all plant shall be carried out before works commence. * Suitable PPE shall be worn at all times when working with pressurised systems and hazardous substances. * Good Hygiene shall be observed, no smoking, eating or drinking is permitted. * When cutting mesh sparks shall be directed way from road area and operatives, persons on site, fire extinguisher shall be present on site during cutting process. |  |
| Contact with hazardous substances, inhalation of respirable silca dust from breaking concrete, cement dust. | Operatives | Medium | * Hazardous substances shall not be used where possible or changed for less or non hazardous substances. * Suitable PPE and RPE shall be worn when working with hazardous substances. * Dust suppression shall be used to minimise the release of silica dust. * Good Hygiene shall be observed, no smoking, eating or drinking is permitted. | Low |
| Traffic/FLT’s/Plant  Impact/collision with site traffic and delivery Vehicles | Operative | High | * SS Operatives shall post suitable signs and erect barriers at a suitable distance to demarcate the work area and warn others of works taking place. * Site management shall inform ASA employees of work taking place on site and the presence of SS operatives in and around site traffic. | Low |
| Slips, Trips and Falls | Operative | Medium | * Operatives shall carry out a visual observation of the work area to familiarise themselves with the environment. * Work area shall be kept clean and tidy with materials and debris not allowed to accumulate. | Low |
| Vibration | Operatives | Medium | * Operatives are not exposed to extreme levels of vibration during the course of the work being undertaken. * They shall wear adequate personal protective equipment including gloves and hearing protection when operating breaker and abrasive wheel. * Work is of short duration only to loosen and remove existing damaged concrete. | Low |
| Noise | Operatives | Medium | * Operatives are not exposed to extreme levels of noise during the course of the work being undertaken. * They shall wear adequate personal protective equipment including gloves and hearing protection when operating jack hammer. * Work is of short duration only to loosen and remove existing damaged concrete. | Low |
| Underground Services & Hot works | Operatives | High | * Operatives will use CAT scanner to scan the area for any underground services * If the operatives detect any detected smell will report to the site manager * Fire sheets can be used surrounding the working area to prevent an hazardous sparks, etc from leaving the designated working area * Power supply generator will be diesel to supply power 110v | Low |
| Fire/Explosion | Operatives | High | * The operatives are aware that the site is hazardous area and will not operate any petrol operated tools * Special designated area will be provided for cutting and hot works * Designated area will be shielded will fire sheets to prevent any sparks * Power supply generator will be diesel to supply power 110v * If any smell is detected our operatives will report immediately to the site manager | Low |
| Fall from height  Struck by objects from height. | Operatives, contractors, employees | High | * Work at height shall be undertaken by competent and experienced operatives. * If a Portable Aluminum Tower is to be used only competent operatives with PASMA training can erect/alter or dismantle Portable Aluminum Towers. * Portable Aluminium Tower components shall be inspected before use to identify any crack, breaks or damage, if found components shall be removed from use. * When using Portable Aluminum Tower The area around work areas will be suitably and sufficiently demarcated using barriers to protect workers, contractors and non employees from falling objects * Signage shall be posted prominently to warn of work being carried out. * Ground conditions shall be flat, load bearing to take the weight of the tower, the operatives and materials. * Operatives shall not surf on portable tower, when being moved all items shall be brought to ground from tower and only then shall tower be moved. | Low |
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| **Method Statement – Sequence of Events** |
| WELFARE FACILITIES   * The site welfare facilities consisting of mess cabins, offices, toilet block are to be positioned within Car Park area close to the Fence   PROTECTIVE MEASURES   * Temporary fencing is to be erected along the building boundary warning signs are to be visibly displayed at all points leading up to the site and around the boundary of the building. * A complete exclusion zone, delineated by the fencing, shall be in place around the works access area which will only be relaxed when one or more of the following criteria demands; * Access & egress for emergency purposes, at the time of each lorry movement in and out of the site and for the monitoring or site safety inspection regimes necessary to check the safe system of work is effective. * Water sprays are to be provided as an effective dust control process. These sprays are to be hand held * Hand reduction of sections of the structure close to the adjacent retained buildings / structures is to be implemented where ever necessary in the interests of safety and the continued integrity of those structures.   ACCESS & EGRESS   * The access roadway into the site is via Bryan lane the entrance to the site by the office building (to be demolished) will be closed and be only used by the demolition operatives . Emergency vehicles to the site will need to use the second entrance to the site. * NO PARKING of any site vehicle is to be allowed within 6 meters of this entrance throughout the duration of the demolition works. * All site vehicles are to use the entrance by the car park area to turn and load/ off load. * Site staff are to be aware that the only access and egress in an emergency into the works area is via second entrance to the site. * Drivers of all construction traffic are to be made aware of the importance of ensuring that this access point is kept clear at all times.   SERVICES   * All services, with the exception of drainage are to be terminated / disconnected prior to SS commencing the demolition and asbestos removal works. However where such works are ongoing, the site management team in liaison with the utility Companies, will Endeavour to assist where reasonably practicable to complete all such works prior to any structural demolition element. * Revised / new drawings showing all remaining ’live’ locations etc shall be drawn up and issued to the site management team. * In relation to the electrical services, all such supplies will be terminated at the sub-station or pavement with cables physically cut. * No Demolition works will take place around the location of the existing equipment without adequate protective measures in place.   ASBESTOS   * Asbestos survey will be conducted by Trident prior to any demolition takes place. * Removal of asbestos materials shall be the subject of a separate method statement.   HAZARDOUS WASTE   * It has not been identified that there is a risk of contaminated / toxic / flammable / explosive substances contained within pipe work or vessels within the buildings. However due diligence will be given to ensuring that any redundant pipework etc is vented prior to removal.   SOFT STRIP   * All areas of the buildings will be checked prior to demolition. Soft stripping of flammable materials will take place. Oil and other residues as identified will be removed. * All soft stripping materials will include; timber doors, architraving, partitioning, panelling, windows, fittings, furnishings, rubbish, domestic & industrial. * Operatives will employ hand tools to carry out the bulk of the soft strip. These tools will include the following;   Mattock, Bar, Abrasive disc cutter, Chain saw / bow saw and other hand tools as required.   * During all soft strip activities, operatives will be advised on the need for vigilance in identifying hazardous substances and or materials. All such substances or materials will be assessed by the site supervisor and the appropriate action taken. * In the event that these identified substances and or materials will pose an unacceptable risk to operatives during their removal, a specialist contractor will be engaged to carry out the works. * Adequate PPE will be worn during all soft strip activities and removal of potential hazardous materials / substances. i.e. gloves, goggles, overalls, respiratory protection, safety footwear etc. * IT MUST BE NOTED THAT THE NEED TO ACCESS ROOF AREAS AND HEIGHTS SHOULD BE LIMITED TO THE LOWEST PRACTICAL NECCESITY. Mechanical stripping and demolition operations should always be the preferred manner where safe to do so. * Soft strip materials will be disposed off via suitable waste containers. The 360° demolition Excavator may be utilised to reduce bulking of the material and assist in the cost effective loading of such. * All such operations are to be undertaken in the cleared site or compound areas away from the vicinity of the road * Vigilance and care must be the watchword when removal of materials likely to spill or seep / escape to the ground. Such products must always be put inside sealed or secure containers.   MECHANICAL DEMOLITION   * Commencing at the exposed side elevation of the building, * The brick / concrete block cladding will be pushed inwards onto the floor slab and collected into manageable piles for loading away. * *T*he reduction process is to be top down shearing away each structural element from the next to ensure that the remaining sections are secure until such time as the demolition process dictates otherwise. * This process of reduction will be repeated to all the roof section and walls as the demolition sequence progresses. * Each section of the building shall be evaluated for its integrity and reliance on adjacent internal roof trusses & external walls. * The sections will in effect be taken down a bay at a time to ensure that all adjacent sections remain secure and safe until such time as the demolition process dictates otherwise. * No section shall be left unsupported or in a dangerous condition at any stage of the works. * Timber members will be separated from the rubble and processed according to size and condition. * The operator of the demolition rig will leave sufficient bracing to maintain stability allowing him to carefully reduce the concrete, steel & masonry a few courses / elements at a time into the footprint of the building. * A banksman will be positioned at site side elevations during these works to advise on any deviation in the vertical / perpendicular condition of the structure. * Control of all or any pedestrian and or vehicular traffic during these operations will be undertaken by the banksmen. * SS will re-claim all materials with a commercial resale value, as opposed to disposal as waste, but only if conditions and time allow. * SS will forsake all commercial values on re-claimed materials if the integrity and well being of the operatives or workplace are in doubt. * Crushed fill as directed by the Clients agent will be transferred to the relevant areas of the Site for levelling and compaction. * Operators of all vehicles and plant will be fully briefed in the safe movement of their respective equipment and shall use a banksman when ever necessary to ensure that this system is safely implemented. * All operations will where ever practical be undertaken by mechanical means to reduce exposure of risk to operatives. |

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| **Personal Protective Equipment - PPE** | | |
| High Visibility Clothing | Mandatory | Must be worn at all times. This must be the outermost garment of clothing worn so you are highly visible at all times |
| Safety Boots | Mandatory | Must be worn at all times |
| Safety Glasses | To be close at hand | To be worn with there is risk of flying debris or possible contamination to the eyes |
| Ear protection | To be close at hand | To be worn where levels of volume exceed 85db (A) – i.e. Ambient peak or persistent noise makes normal speech hard to be heard |
| Hard Hat | Mandatory | To be worn at all times in the yard area |
| Suitable Gloves | To be close at hand | To be worn where there is chemical, substance or and other identified hazard |
| Respiratory protection | To be close at hand | To be worn to control occupational diseases caused by breathing air contaminated with harmful dusts, fogs, fumes, mists, gases, smokes, sprays or vapors. |

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| **Emergency Procedures** | | | | | |
| All Sterling Services Operatives will be made aware of fire evacuation procedures, first aid procedures and location of firefighting equipment and first aid kits **BEFORE** starting works. This information will be provided by the Sterling Services Site Supervisor. | | | | | |
| Sterling Services Appointed First Aider: | Nigel O’Cego, Joe Early | Nearest First Aid Kit: | Company Vehicle | Nearest Hospital: | Wrexham Maelor Hospital  Croesnewydd Road  Wrexham  LL13 7TD  Tel: 01978 291100  Distance from site 4.0 miles |

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| **Site Monitoring / Inspection and Supervision** |
| * All Sterling Services Operatives will have at least one operative permanently on site who is trained to SSSTS standard and whose relevant experience for the tasks will see that individual nominated on this Risk Assessment and Method Statement. * Each ‘onsite supervisor’ will have access to the Sterling Services’ health & safety consultants if additional guidance / requirements are needed. * Sterling Services Supervisors will make amendments to these RA/MS to take in account any changes to circumstances. * Sterling Services Operatives are fully aware that their sites will be routinely and randomly inspected by senior management with a view to ensure that their training, and working strictly to this Risk Assessment and Method Statement, is adhered to. Failure to do so may result in disciplinary action. |

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| **Environmental Controls** |
| Every effort will be made to keep to a minimum the levels of noise, and dust made from Operations. Waste levels will be kept to a minimum to ensure they do not cause hazards or become a nuisance to others. Sterling Services Personnel will Tidy up, clear site, remove and transport equipment and surplus materials from site. Working areas will be tidied regularly and waste removed. |

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| **Storage on Site** |
| Nothing to be stored on this site |

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| **Specific Legislation** |
| * The Work at Height Regulations 2004 (WAHR) * The Management of Health & Safety at Work. Regulations 1999, Reg ‘3’ Risk Assessments. * Manual Handling Operations Regulations 1992. * Provision and Use of Work Equipment Regulations 1998 * Control of Substance Hazardous to Health 2002 * Electricity at Work Regulations 1989 |

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| **HSE and Other Guidance** |
| * Memorandum of guidance on the Electricity at Work Regulations 1989 * Electricity at Work: Safe Working Practices. HSG 85 2003. |

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| **Statement of Contractors Responsibility** |
| This method statement is provided to cover only the works indicated and can only be considered as validated when all personnel involved in the working activity have received a tool box talk with a signature obtained. The contractor shall be responsible and shall ensure that adequate supervision is applied to the work detailed within this method statement and shall ensure full and effective compliance. If there is any change in scope of the works or of any other impinging activity that may create risk work will cease and appropriate amendments will be made of this method statement. This statement confirms responsibility and commitment to this method statement and signature of validation below confirms this. |

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| **Name:** | Paul Blennerhassett |
| **Position in Company:** | Managing Director |
| **Date:** | 20th February 2013 |

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| **Signature and Data confirming distribution** | | |
| Site Operative Name | Site Operative Signature | Date |
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