DC/12/54919

RECEIVED : 20 AUGUST 2012

O'Brien
DEMOLITION

HEALTH SAFETY & ENVIRONMENTAL PROJECT PLAN FOR THE DEMOLITION OF THE BLAST PROOF TEST LABORATORY AT RHODIA

Project Reference – 120334

Date	Purpose of Issue	Revision	Issued to Whom	Sign/Initial
03/08/12	Commencement	1.0	Client	J.Turner

Project Name	Health safety & environmental project plan for the demolition of the Test Blast Laboratory
Address(s) of site	Rhodia UK Ltd, PO Box 80 Trinity Street Oldbury West Midlands B69 4LN
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Client Representative	
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Management & Responsibilities			
Contracts Director	**Visiting**	**Mr M O' Brien**	**07966560579**
Demolition Manager	**Site Based**	**TBC**	
Quantity Surveyor	**Visiting**	**Tim Mekins**	**07841050004**
Safety & Environmental Manager	**Visiting**	**Mr Mark Pearson**	**07894 616222**

Introduction

This Project HSE plan should be read in conjunction with the O'Brien's risk assessments/ and Safety Policy document alongside the pre tender information supplied by the client.

Additional method statements will be generated if additional hazards or risks arise during the demolition of the buildings on site but that is not envisaged due to the pre planning involved.

It is assumed that non - licensed asbestos may be present in the form of gaskets which will be detailed in the task section at the rear of this document. We await the contamination report and results of sampling taken from within the test areas and ducting.

Consultations/Working with Others

Close relation with all parties is essential to the successful demolition of the building. The company will be proactive in its approach to ensuring all work is completed successfully in partnership with all other working parties and reducing to a minimum any disruption likely to be caused by these works. This is particularly important due to the other contractors in place.

To ensure this risk is mitigated competent members of the management team as detailed in the plan above will carefully plan and coordinate the works to ensure no persons within the vicinity are affected.

We have carefully considered the outline scope requirements and have adopted the following control measures to ensure the works are completed in line with all relevant Health Safety and Environmental Legislation.

General statement of the health & safety principles of the project

The Company's business activities principally comprise of demolition and dismantling, recycling and asbestos removal and disposal.

The Company is committed to adopting safe systems of work which will ensure a safe and healthy working environment for it's employees and also to implement adequate safety measures and procedures to ensure that third parties (namely those persons not in its employ) including the general public are not endangered or affected in any way by it's activities.

The company pays due diligent attention to all relevant legislation and recommended guidance and ACOPS that apply to its work activities.

In accordance with the general duties imposed by the Health and Safety at Work Act 1974, the company appreciates the requirement to produce a written statement of it's Health and Safety policy, its organisation and how it is implemented.

The Company's Health and Safety Policy is reviewed on a regular basis, (minimum annually) or more frequently should there be any major changes in legislation.

This general statement stipulates the overall intention of the Company to ensure so far as reasonably practicable

The health safety and welfare of its employees.

To safeguard any other person who is not in it's employ whom may be affected by its activities

To control the keeping and use of explosive, highly flammable or otherwise dangerous substances and to prevent the unlawful acquisition, possession or use of such substances.

To control the emission into the atmosphere of noxious offensive substances from prescribed premises or practices.

The company will ensure that adequate funds, staff and equipment are provided to meet all Health and Safety requirements

G O'Brien & Sons also recognises that its employees also have a duty to co-operate in the implementation of the Health and Safety Policy by

- Working in a safe manner
- Meeting their statutory duties
- Reporting all incidents or occurrences that have or may lead to injury or damage
- Following all Health and Safety procedures and safe systems of work.

Health & Safety Goals

We operate a zero accident policy on every site and the aim for the company is for all personnel associated with our work to be protected from any harm which could affect their health, safety and welfare.

Description of the Site

Rhodia's Oldbury site manufactures a range of different chemicals, all based on phosphorus. These products are used in a wide range of everyday items such as mobile phones, children's nightwear, pharmaceuticals and detergents, as well as to treat water and help increase oil well production.

The site is located alongside the site perimeter, adjacent Station Road, this road is also a residential street, but trees screen the part of the site where the proposed work is taking place

The Site operates under top-tier COMAH and IPPC Regulations.

Project Description & Structural Considerations

The task will be completed as detailed below and in the H&S Plan:

- Removal of contents of the Laboratory
- Demolition of the Laboratory to slab level using demolition machine

The building is structurally sound and consists of a reinforced concrete structure to carry out Laboratory Testing, due to the nature of the tests taking place, the building is designed to contain and protect the surrounding area in the case of a chemical explosion.

SHE Induction Procedure

On arrival on site all personnel will be inducted at the site office by the G O' Brien & Sons (NDC) Ltd Site Manager/client who will undertake an induction incorporating but not limited to – RAMS, PPE, First aid representatives, traffic routes, fire procedures, site rules etc all of which will be explained and presented to personnel to ensure they are fully conversant of the stringent safety controls on site.

All personnel must sign in at the site security office upon entering and leaving the site at the beginning and end or each full or part shift. They must also sign in once at the work area.

Visitors to site will be inducted and must sign and sign out at the beginning and end of each visit to site.

Key hazards which need to be managed and will be covered in the induction include:

- Traffic control
- WAH
- Plant operations
- Chemical residues
- Noise & dust controls
- Hot works
- Demolition sequence
- Height restrictions for vehicles (17.8)

The above list is not exhaustive

Toolbox talks/ Daily safety briefing

Weekly toolbox talks will be carried out by the site manager. More regular toolbox talks will be carried out for particular high risk tasks such as crane lifts, hot works etc. A Toolbox talk programme will be established for this project

A daily safety briefing will also be carried out and recorded by the site manager

Scope of the Works (brief)

Commencement

- Safety Induction of personnel and method statement brief.
- Establish site welfare facilities
- Erection of Heras fencing
- Erect signs at frequent and prominent areas
- Establish traffic management plan in line with existing site arrangements
- Prepare work area
- Ensure plant/equipment is in working order (carry out pre - checks)
- Check for underground and above ground live services
- Establish permit to works
- Complete strip out works including removing the asbestos/gaskets
- Complete all daily checks and inspection and record as required.
- Ensure site is left safe and tidy to the satisfaction of the client.
- Hand client any relevant paperwork

See below for further information.

Services

A programme to undertake the disconnection of the services has been established. Written confirmation of this together with marked up sketches showing the locations of those service disconnections and those that are to be protected will be provided prior to commencement.

Live services which are to be retained will be highlighted and protected by the client.

Building/pipes/ducts have been decontaminated and flushed as detailed in the H&S plan and below. There may be some residues present however due to the flushing exercise undertaken this has been classed as a low risk. If we have any concerns we will stop works and liaise with our client. Operatives will wear coverall sand safety glasses as standard:

- Possibly small amounts of phosphorus in pipework and equipment
- Low level Hydro-carbons
- Calcium phosphate deposits

Safety data sheets are available for the materials which will be following at all times.

As required a toolbox talk will be undertaken to emphasise the key points regarding services.

Access & Egress from site, Traffic Management Systems & Arrangements

We will follow the existing traffic management arrangements onsite and park in the designated area as instructed in the induction.

We will observe all vehicle height restrictions leading to the area.

We are aware that there is existing vehicles/traffic present on site and when approaching the area we will take care at times.

Deliveries should normally be made to the site only between 08:00 and 15:30 hrs. Advance notification of anticipated deliveries of material should be given to the Lobby Commissionaires, together with a point of contact to expedite clearance at the Lobby.

We will prohibit reversing as much as possible but due to the restrictions in place on certain occasions this will be required. When reversing or any complex manoeuvres is required it will

be under the strict control of a banksman who must be in full view of the driver/plant operator.

Vehicles approaching site must restrict their speed to 30mph (or lower to comply with mandatory local signage).

The speed limit within the site will be limited to 10 mph.

All site operatives and visitors will wear high visibility clothing and all plant/vehicles on site will have adequate warning devices in operation including flashing beacons, audible warning systems etc.

Operatives will also use existing footpaths/designated walkways around site to prevent where practicable any possible interaction with vehicles/plant.

Priority to be given to pedestrians and other road users at all times.

Wagons will be loaded in accordance with the traffic plan.

Traffic movement shall take account of local conditions in particular avoiding rush hour traffic.

Sequencing & Working Hours

All site activities are co-ordinated at initial site induction meetings and during daily briefing.

The expected duration is 4 weeks.

Day	Permitted Working Hours
Monday - Friday	08.00:am – 19:00pm (TBC)
Saturday	08:00 am – 19:00pm (TBC)
Sunday	Not without consent of the client/LA

Environmental Considerations

Our approach to managing the potential environmental impact to adjacent buildings or our own operatives is detailed below.

Noise

Employees Noise:

In general demolition work is noisy. With respect to employees health and safety the threshold values are 80 dB (A) (first action level) and 85 dB(A) (second action level) as detailed in the Noise at Work Regulations 2005. Where possible will reduce the level of exposure to an absolute minimum by management of the works but ear defenders will be worn at or above 85 dB. Ear defenders will be available to anyone who requests them during the project regardless of whether the first action level has been reached.

General site noise:

The possibilities of reducing the noise from any demolition site are rather limited. However, it is important that as a responsible environmentally aware contractor we plan and choose machinery and plant in such a way that he complies with the given noise limits

We have adopted the following noise control principles for the project:

- For any particular job, the quietest plant and/or machinery will be used.
- All equipment on site will be maintained in good mechanical order and serviced in accordance with manufacturer's instructions and fitted with the appropriate silencers, mufflers or acoustic covers.
- Plant will not be left to idle during breaks or when non operational it will be switched off
- Plant will be serviced as per manufacturers servicing requirements and will be subject to daily inspection.
- Any physical demolition will be carried out by the method causing the minimum of noise and vibration.
- The movement of vehicles (wagons/vans) to and from the site will be controlled to ensure vehicles are not waiting about with engines running.
- Employees will be supervised to ensure compliance with the noise control measures adopted.
- During the loading of wagons the materials will be placed in the back carefully and not dropped from height.
- Noise monitoring will be undertaken where required

Dust

Water will be used to suppress the dust particularly in dry and windy conditions.

Odour Control

In terms of demolition activity, odour problems will be minimal.

In respect of the control of odour from plant the following control measures will be in place:

- Plant will only be operational during working hours
- Generating sets will only operated when and as required. Noise reduction screens and baffles will be erected if required by site location
- Generators will be positioned away from noise sensitive areas such as adjacent businesses etc.
- Plant will not be left to idle during breaks or when non operational it will be switched off
- Plant will be serviced as per manufacturers servicing requirements and will be subject to daily inspection
- Tracking around site to refuel will be reduced by appropriate siting of fuel bunds and stores this will reduce both potential noise and odour from exhaust.
- No potential odour control issues have been identified at tender stage.

Engine and hydraulic oil

- Used oils such as engine and gearbox oil from plant maintenance may be derived from either mineral or synthetic sources. This will be generated from plant on site during servicing and when changing plant attachments.
- All oil will be drained into suitable containers nominally 5 gallon drums sealed and returned to the servicing agent for disposal. Oil of this type is normally recycled for use as a secondary fuel in blast furnaces or cement production.
- Extreme care must be taken to ensure clean uncontaminated containers are used and used oil is not mixed with other substances such as white spirit, paint or solvents, as this makes recycling extremely difficult.
- In all cases, care must be taken to avoid spillage when transferring waste oil to drums for disposal an appropriate spill kit will be available and the operative appropriately trained in it's use.
- Drip trays will be also used during the servicing and changing of plant attachments.

Refuelling

- The risk of spilling of fuel is at its greatest during refuelling of plant on site. Where possible, all refuelling operations of mobile plant are to be undertaken in the designated area.
- A 3000 litre double skinned bunded tank will be delivered to site for refuelling plant during the works.
- Drip trays are to be placed beneath the fuelling area to catch any potential drips.
- No vehicle is to be left unattended during refuelling of plant
- A spill kit will be sited adjacent to the fuel bowser.
- Any spillages will be cleared immediately and generated contaminated materials will be disposed of appropriately.
- All hoses and valves will be checked visually weekly for signs of wear and the site management team will ensure that they are turned off and securely locked when not in use.

Water pollution

The potential for the contamination of existing drainage either on site or adjacent to the site during the demolition activities with demolition debris, silt, and chemical fuel or oil materials is an identified risk which needs to be proactively addressed.

The following control measures have been designed to ensure the potential for generation of risk and the actual risk is removed as far as practicably possible.

- Drains were practicable to be sealed as early in the project as possible this will be marked identified and recorded
- All fuel and oils to be kept in bunded containers.
- Only trained operatives to dispense fuel and chemicals.
- Minimum quantity of fuel retained on site to reduce potential for release in the event of an incident.
- All fuel and chemical products deliveries to be supervised
- Storage points sited away from existing drainage.
- If required site drainage retained during the works will, be sealed on a temporary basis with geotextile fabric and sand banks to prevent contamination with silt.
- All vehicles fitted with spill kits appropriate to their size and type.
- Site servicing of plant and vehicles avoided as far as practically possible to reduce potential for oil and fuel spills.
- If servicing is required drip trays will be used for plant servicing and repairs on site.
- Operatives trained in spill kit use.
- Any spillage immediately reported via site management team and addressed using site spill kits and an incident report prepared.

Bats and nesting birds

No nesting birds/bats have been identified however we will have a watching brief in place and should any be indentified then work will cease work and liaise with our client.

Welfare

Facilities in place at the rear of the Health and Safety Offices, these will be in place for the duration of the works which will include:

- Canteen/mess facilities
- Toilets facilities
- First Aid facilities
- Storage Facilities with equipment and spill kit

- Drying room
- Fire extinguishers

The welfare unit will be positioned in an agreed area prior to works commencing.

The welfare facilities will be kept in a clean and tidy condition for the duration of the project and will be subject to regular inspection to ensure the highest possible of hygiene are maintained.

Site rules will be in place to ensure that the operatives are aware of the ways to reduce the potential of attracting rats (i.e. eating food in designated canteens and not dropping litter etc)

Emergency Arrangements

First Aider	Site Manager – To be advised First aid boxes will be kept within the site office and adjacent the works area. First Aid Personnel will be introduced to the operatives during the induction procedure and identified on the site notice board/safety helmet.
Muster Point(s)	The **muster point** for the site will be as instructed in the safety induction and highlighted by signage. The points will be identified to the operatives through toolbox talks and signage.
Location of nearest A&E facility	Queen Elizabeth Hospital Mindelsohn Way, Edgbaston, Birmingham, B15 2WB
Telephone number of nearest hospital	0121 627 2000
Emergency numbers	999 for fire service, police and ambulance.

Directions to the Nearest A&E

1		Starting from **B65 4LN**	
2	-	Head **B4170 (STATION ROAD)** straight on	12:15
3	0.1	Take second available left on to **B4170 (TITFORD ROAD)** where the road splits	12:15
4	0.1	Follow **TITFORD ROAD** straight on, continue for 0.3 miles	12:16
5	0.4	Take fourth available left on to **A4123 (WOLVERHAMPTON ROAD)**, continue for 2.3 miles	12:17
6	2.7	Turn left on to **AUBREY ROAD**, continue for 0.2 miles	12:23
7	2.9	Take second available right on to **BALDEN ROAD**, continue for 0.4 miles	12:23
8	3.3	Follow **CROFTDOWN ROAD** straight on	12:24
9	3.3	Take first available exit off roundabout on to **A4123 (COURT OAK ROAD)**, continue for 0.6 miles	12:24
10	3.9	Take second available exit off roundabout on to **A4040 (LORDSWOOD ROAD)**, continue for 0.2 miles	12:26
11	4.1	Take first available exit off roundabout on to **A4040 (HIGH STREET)**, continue for 0.9 miles	12:27
12	5.0	Take third available exit off roundabout on to **A4040 (HARBORNE PARK ROAD)**	12:30
13	5.0	Follow **A4040 (HARBORNE PARK ROAD)** where the road splits, continue for 0.3 miles	12:30
14	5.3	Take first available exit off roundabout on to **A0 (ASTON WEBB BOULEVARD)**, continue for 0.2 miles	12:31
15	5.5	Take first available right on to **A38 (ASTON WEBB BOULEVARD)**	12:31
16	5.6	Take first available exit off roundabout on to **NEW FOSSE WAY**, continue for 0.2 miles	12:31
17	5.7	Take first available exit off roundabout on to **local road**, continue for 0.2 miles	12:32
18	5.9	Turn left at mini-roundabout on to **MENDELSOHN WAY**	12:33
19	5.9	Arrive at **B15 2WB**	12:33

Emergency Arrangements cont

The positions of emergency equipment and emergency arrangements will be discussed at the G. O'Brien induction and ongoing toolbox talks.

Suitable warning devices will be used to indicate emergency situations (i.e. klaxons, rotary alarms). These will be positioned adjacent the and working levels during the works.

Extinguishers will also be provided in the site mess facility.

At least one qualified first aider will be present on site for the duration of the works. First Aid equipment is to be located within the site office and adjacent to each work area.

All existing access routes to the external areas of each structure are to be retained as emergency escape routes and shall be kept clear of debris and other obstructions at all times.

Access/Egress/Emergency routes will be suitable lit during the project and highlighted by signage and toolbox talks.

The specific emergency procedures for each working area must be adhered to by all personnel.

The entrance to the site will be kept clear in case of the need for emergency vehicles to enter.

Additional notes regarding the medical centre:

The Site has a fully equipped Medical Centre and qualified medical staff. In the event of any Contractor on Site suffering an injury, no matter how trivial the injury might appear, the individual must seek medical treatment. Within normal working hours this will be by attending directly to the Medical Centre. Outside of normal working hours by reporting to the Lobby Commissionaire when the injury will be attended to by a first-aider. This service is available without charge to the Contractor. A works accident report form (ARIP) will be generated for completion by the Engaging Engineer and the accident fully investigated.

Please note all the below emergencies will established with full liaison with the client and as detailed in the induction.

Response to emergency alarms.

There are four alarm signals in use on Oldbury Site (besides the Off-Site Siren). You must be able to distinguish between them and to take the correct action on hearing any of them. The four alarms are as follows:-

(A) Departmental fire alarm.

Local fire alarms in Plant, offices or laboratories may be automatically activated by smoke detection systems, or may require manual activation by the breaking of glass in an alarm button station (Call Point).

This fire alarm consists of a continuous ringing of a bell in the department. It demands action by all personnel in the department.

Any person discovering a fire should take the following action:

a) Sound the local alarm. (Call Point).

b) Dial 222 and report the fire to the Lobby.

c) If the fire is small, and you have been trained in fire extinguisher use, attack the fire if it is safe to do so.

On hearing the fire alarm all other personnel in the building should:

a) Leave the building by the fire exits or nearest safe route.

b) Close all doors behind them.

c) Report to the specified assembly point, advise the Fire Warden of their presence and await further instruction. A full or partial **site evacuation** is unlikely but may become necessary.

If you are involved in a fire or have to respond to the Fire Alarm:

1. DO NOT take risks by yourself or with others.

2. DO NOT return to the building for any reason until authorised to do so.

3. DO NOT use lifts for escape from the building.

Site evacuation procedure

1. At your assembly point use the key in the break-glass to open the radio cabinet.

2. Listen for any message over the radio. Do not tamper with or remove the radio.

3. If a quadrant (or full site) evacuation is necessary all of the building fire alarms in that quadrant (or across site) will be sounded and a recorded message played to report to either the site car park or the north end of Trinity St.

4. Follow these instructions. Remain off site until authorised to return.

(B) Site general alarm.

- This consists of a klaxon which is sounded at strategic points across the Site. The klaxon sounds intermittently 7 sec on, 7 sec off and normally repeats ten times.
- This klaxon notifies Management, Rhodia Fire Brigade, Rhodia First Aid Teams etc. that there is a fire, accident or other occurrence on Site. They will take the action laid down in the Site Emergency Procedure.

General site alarm response

In the event of the Site General Alarm being sounded, unless an individual is directly affected or required as part of the Site's emergency response, he/she is advised:

(i) **do not** leave the area in which he/she is working*

(ii) **do close** local doors/windows in Labs/Offices/Control rooms in case of airborne hazardous chemicals.

(iii) **do be prepared** to make safe whatever tasks are being undertaken at the time, in anticipation of area evacuation (e.g vacate roofs, confined spaces).

(iv) **do not** leave Site unless authorised to do so

(v) **do ensure** that any Contractors or Visitors in your area comply with all of the above.

*To clarify: if en route from one part of the Site to another, he/she is advised to continue to destination or return to previous location, whichever is nearest, provided that there are no obvious hazards preventing this.

(C) <u>Site toxic gas alarm.</u>

- Oldbury Site stores and uses chlorine and phosphine – two toxic gases. In the event of a release of toxic gas which might affect personnel on Site, the Toxic Gas Alarm would be sounded. **This is a rapidly oscillating electronic siren continuing without pause for approximately 2 minutes.**

- On hearing the Toxic Gas Alarm, all personnel on Site must respond immediately. Key members of staff on Site will adopt prescribed roles in dealing with the emergency. All other personnel should respond as follows:-

  a) Suspend your normal work immediately.

  b) Make your workplace safe as quickly as possible.

  c) Proceed in an orderly manner to your nearest Toxic Gas Refuge Room.

  d) DO NOT use lifts as a means of expediting your move to Toxic Gas Refuge Rooms.

  e) Take note of wind direction from exhaust plumes and avoid going into danger areas.

  f) Follow instructions given by members of the emergency teams.

When you reach a Toxic Gas Refuge Room, you should follow these instructions:-

a) DO – close all doors and windows.

b) DO – open emergency strong box.

c) DO – make all doors and windows in the room air-tight using the equipment in the box.

d) DO – turn off all heating.

e) DO – take a roll call. List people either injured or believed missing.

f) DO – keep calm.

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g) DO NOT – seal the door until everyone is inside.

h) DO NOT – smoke.

i) DO NOT – use the telephone to ring out.

j) DO NOT – open doors or windows or leave the Refuge until the ALL CLEAR is sounded or you are instructed to do so.

k) DO NOT – panic.

N.B.

The Toxic Gas Alarm is tested at 15:50 hours every Wednesday. THIS TEST DOES NOT CALL FOR ANY RESPONSE.

(D) All clear

- After any incident, whether General Alarm (B) above) or Toxic Gas Alarm ((C) above), notification of the ending of the incident will be given by the sounding of the "ALL CLEAR".
- **This consists of a continuous sounding of the klaxon for approximately 45 seconds without any fluctuation in the amplitude of the sound.**
- A map of the Site showing all the Toxic Gas Refuge Rooms and Assembly Points is available. Be sure to locate your nearest toxic gas refuge room(s) wherever you may be working on Site.
- A copy will be provided during your induction.
- The nearest TGRR and your assembly point will also be specified on your Permit to Work.

Collapse of structure

- Stop work
- Immediately proceed to muster point for roll call
- Notify emergency services immediately, if required
- Stay clear of the area
- Post sentry on gate to inform emergency services of associated risks and names of persons missing
- Do not attempt any rescue work unless deemed safe to do so by site foreman.
- Inform the Health and Safety Executive immediately
- Inform head office
- If any casualties, inform next of kin
- Head office to raise appropriate communication with HSE

Injury

- Inform site manager immediately who will arrange for first aid by a competent trained first aider.
- The site manager may decide to take action following the event, these can include
- Minor injuries will be treated using the site first aid kit
- More serious injuries will result in the injured person(s) being taken to hospital, or calling emergency services
- Halting the works
- Informing various concerned parties such as next of kin, client, head office, HSE
- Completing all appropriate site documentation
- Safety personnel to undertake an accident investigation

Gas escape

In the event of any personnel suspecting an escape of gas, then

- DO NOT SMOKE
- Cease works
- Raise alarm
- Inform site foreman
- Site foreman to call emergency escape hotline/service provider
- Prevent any further access into the area

Water escape

- Stop work
- Inform site foreman
- Site foreman to inform necessary service authority
- If possible, prevent leak by temporarily capping pipe e.g. bend over copper pipe and flatten to seal with hammer.

Electricity

- Cease works immediately
- Inform site foreman
- Site foreman to notify the service provider

- Cordon off area
- Prevent access

Discovery of asbestos not identified in the pre demolition survey

- Cease Works
- Evacuate area
- Notify Supervisor of location of suspicious material. Supervisor to notify the safety department immediately – **0191 537 4332 (Head Office)**
- If asbestos trained operatives are on site they will wear the appropriate PPE/RPE and proceed to cordon off the area (large an area as possible) using bunting tape.
- Ensure adequate signage is in position to warn of the hazards.
- Sample will be taken for analysis by competent person (analyst if required). Results will be relayed to site before anyone accesses the area to confirm the content of the sample.
- Depending on the result of the sample the safety department will decide on the remedial action to be undertaken and whether the HSE/ client needs informed.

Permit to Works

Permit to works will be issued by the works engineer for the below works and any other tasks deemed necessary.

- General works but also specific to Hot works.

Plant

All mobile and transportation vehicles used on site shall be fitted with an audible warning system and an automatic reverse warning system and flashing light.

All mobile plant shall be suitable for the type of works being carried out and shall be maintained in accordance with the manufacturer's instructions and legislation.

All equipment used for lifting and lowering shall have current test certificates and where appropriate, safe load indicators. The weight of each lift is to be assessed and the lifting equipment positioned so that all, lifts made shall be within the safe load areas for the particular plant concerned.

All plant brought to site shall be supplied with current maintenance schedules and test certificates, which shall be made available for inspection if requested.

All plant operations will be carried out by competent personnel at all times.

Emergency drill on contact with electric services using excavator or other plant

If plant in contact with an electric service cannot be disentangled by backing off, they should remain seated in the cab and worn others to keep clear of the machine until the electricity company confirms that conditions are safe. If it is essential to the leave the machine for example if it catches fire, jump well clear and do not attempt to climb down in the normal way nor touch any part of the machine when on ground.

Accident reporting procedure

All employees are required to immediately inform the client/ourselves of any accident, ill health or dangerous occurrence which occurs on this site at any time. Reports should be made in the first instance to the Site Manager, or failing that to another member of the Contract Team.

A full written report is required from the relevant employer where the incident is reportable to the Health & Safety Executive under the RIDDOR Regulations.

Accidents will be reported in accordance with the procedures defined within the G O'Brien & Sons (NDC) Limited Safety Policy document.

The Site manager will ensure that all relevant information is passed to the Client Team.

Chemicals residues

Building/pipes/ducts have been tested by the client, the report will be made available prior to demolition taking place, the area may need to be de-contaminated prior to demolition taking place . If we have any concems we will stop works and liaise with our client. Operatives will wear coverall sand safety glasses as standard:

- Possibly small amounts of phosphorus in pipework and equipment
- Low levels of Hydro-Carbons
- Calcium phosphate deposits

Safety data sheets are available for the materials which will be following at all times.

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Temporary services.

The majority of the high risk work will be completed during daylight hours however if anywork is to be carried out during darker hours then generators, transformers and temporary lighting will be brought to site. All will be tested and marked accordingly.

Only 110V supplies will be used

All electrical equipment will be PAT tested prior to the commencement on site.

All entry/exits routes will also be suitably illuminated to ensure there is a safe access/egress route at all times.

Temporary Supports

No temporary supports or propping are required.

Interfaces with others – exclusion zones & protective measures

A Heras fence exclusion zone will be erected around the working area to restrict unauthorised access. Warning notices will be placed in frequent and prominent areas around the site

We will provide suitable and sufficient gated access to the work area to allow entry/exit of both plant and transport for the duration of the works.

Banksman will also be used during critical works including crane operations/banking vehicles.