



CONSTRUCTION PHASE PLAN

CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015

PROJECT	Tetrosyl, Bury
PROJECT No	333
CLIENT	Barratt Homes
DRAFTED BY	G Owen
CHECKED BY	P Wilson
DATE	25/11/19

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1. REVIEW & AMENDMENT

1.1. Principal Designer Approval

PRINCIPAL DESIGNER: BDW Trading Ltd - Manchester Division	
SIGNED:	DATE:

1.2. Amendment Record

Revision No	Authorised by	Date Authorised	Amendment Details

2. PROJECT DESCRIPTION

2.1. Project Details

Project Title:-	Tetrosyl, Bury	Contract No:- 333	
Project Start Date:- Project Duration:-	06/01/20 52 weeks	Project Finish Date:- 15/01/21	
Project Address:- Walmersley Old Road, Bury, BL9 6RG.		UR/USS Project Manager Name:	Tony Smith
		Telephone No:	07867 490746
Project Admin Office Address:- Urban Regen Ltd / Urban Soils Solutions Ltd 23 Spring Vale Off Bury Road Edgworth Bolton BL7 0FS		Email:-	Tony.Smith@urbanregen.co.uk
		Telephone No:-	01204 595 933
		Email:-	info@urbanregen.co.uk info@urbansoils.co.uk

2.2. F10 Notification

The F10 shall be displayed on the site notice board with a copy inserted into **App 17** of the H&S records held on site.

2.3. Project Location

A copy of the site location plan with address and postcode shall be displayed on the site notice board with a copy inserted into **App 5** of the H&S records held on site.

2.4. Project Directory

CLIENT	Barratt Homes Manchester 4 Brindley Road, City Park, Manchester, M16 9HQ.
CONTACT	Neil Goodwin
TEL NUMBER	01618 720161
EMAIL	Neil.goodwin@barratthomes.co.uk
PRINCIPAL DESIGNER	BDW Trading Ltd - Manchester Division 4 Brindley Road, City Park, Manchester, M16 9HQ.
CONTACT	Jon Partington
TEL NUMBER	01618 720161
EMAIL	Jon.partington@barratthomes.co.uk
DESIGNER	BDW Trading Ltd - Manchester Division 4 Brindley Road, City Park, Manchester, M16 9HQ.
CONTACT	Jon Partington
TEL NUMBER	01618 720161
EMAIL	Jon.partington@barratthomes.co.uk
PRINCIPAL CONTRACTOR	Urban Regen Ltd 23 Springvale, Edgworth, Bolton, BL7 0FS
CONTACT	Andy Walker
TEL NUMBER	01204 595933
EMAIL	Andy.walker@urbanregen.co.uk

2.5. Project Description

UR/USS as Principal Contractor will manage the health and safety of the project which will include the following remedial activities which can be separated into:-

- **Demolition Phase**
- **Earthworks Remediation Phase**

Demolition Phase

- The existing buildings and associated infrastructure will be demolished. This will include:
 - site clearance,
 - removal of asbestos from buildings,
 - demolition of site buildings and ancillary structures,
 - removal of existing drainage system and associated pipework,
 - process and reuse of arising's from the demolition works.

Earthworks Remediation Phase

- Erect boundary and Tree Protection fencing (Client),
- Service disconnections at boundary of site (Client),
- Site clearance,
- Break out all hard standings and processing for re-use,
- Break out Tarmac hard standings,
- Removal of existing drainage system and associated pipework,
- Turnover ground to remove obstructions and identify Hotspot areas,
- Treatment of contaminated ground water if required,
- Reassurance air monitoring during turnover and general earthworks operations,
- Reuse of appropriate soils and materials management of soils,
- Offsite disposal of unsuitable materials,
- Validation,
- Installation of an engineered cover system where required.

Anticipated Main Site Office Set Up

- Site Office and Meeting Room.
- Welfare and Drying Room.
- Toilet unit Male / Female.
- Silenced Generator.

Anticipated earthworks plant/resources:

- 1 no site Manager.
- 1 no Site Engineer.
- 4 no 35t 360° Excavators c/w operators.
- 1 No 30t Articulated Dump truck c/w operator.
- 1 No 13T self-propelled roller.
- 1 No 50T mobile crusher c/w operative (part time).
- 1 No Tractor & Bowser c/w operative.
- Fixed air monitoring stations c/w analyst (plus additional stations).

Anticipated Demolition plant/resources:

- 1 no. Site Supervisor.
- 1 no. Asbestos Supervisor.
- 3 no Asbestos Operatives (Max).
- 1 no. Decontamination Unit.
- 4 no. 35t Demolition type excavators

- Demolition machines will be fitted with controlled attachments such as rotating grapple and cold cutting shear.
- 1 no. General operative.

2.6. Project Programme

The Construction programme will be coordinated by the UR/USS Project Manager.

Anticipated duration on site is 52 weeks (Continuous weeks)

2.7. Key Utility, Regulatory and Emergency Contact Details (Display on Notice Board insert copy in App 21

Organisation	Contact	Address	Contact Numbers
Police	Greater Manchester Police	Dunster Road, Bury, BL9 0RD	999 Emergency 0161 872 5050
Fire	Ramsbottom Fire Station	Stubbins Lane, Ramsbottom, Bury, BL0 0PS.	999 Emergency 01619 098627
A&E Hospital	Fairfield General Hospital	Rochdale Old Road, Bury, BL9 7TD	999 Emergency 01616 240420
Environment Agency	Incident Hotline	Richard Fairclough House, Knutsford Road, Latchford, Warrington, Cheshire, WA4 1HT	0870 850 6506 Incident Hotline
HSE	HSE	Redgrave Court, Merton Road, Bootle, Merseyside, L20 7HS	0151 951 4000
Gas	Cadent	Plant Protection, National Grid, Block 1, Floor 1, Brick Kiln St., Hinckley, LE10 0NA	0800 111 999
Electricity	Electricity North West	Linley House, Dickinson St., Manchester, M1 4LF	0800 195 4141
Water/Drainage	United Utilities	Haweswater House, Lingley Mere Business Park, Lingley Green Avenue, Great Sankey, Warrington, WA5 3LP	0345 672 3723
Telecommunications BT	BT	BT Damage / Fault BT Dial Before You Dig	0800 0232 023 0800 917 3993

Planning Authority EHO	Bury Council	Town Hall, Knowsley Street, Bury, Lancashire, BL9 0SW	01612 535000
UR Project Manager	Tony Smith	23 Springvale, Edgworth, Bolton BL7 0FS	01204 595933 07867 490746
UR Ops Director	Peter Wilson	23 Springvale, Edgworth, Bolton BL7 0FS	01204 595933 07789 047227
UR H&S Consultant	Frank Boydell	32 Falconwood Chase, Worsley, Manchester M32 1FG	07808 793118

2.8. Existing Conditions and Constraints

BRIEF DESCRIPTION OF SITE

The site is located off Walmersley Old Road in Bury covering an area of approximately 25.5 acres. The site has been purchased by Barratt Homes Manchester and will be developed for residential housing. The site comprises the entirety of the Tetrosyl works together with a mill lodge and adjacent, previously undeveloped, open land. The works complex includes a nineteenth century cotton mill and textile print works buildings together with more recent plant, warehouses and office buildings. The works has latterly been used by Tetrosyl Ltd. for the manufacturing, packaging, storage and distribution of car-care products including a wide range of items such as antifreeze, cleaning-materials, waxes and paints. Tetrosyl also previously operated a solvent recovery process under an Industrial Pollution Control (IPC) authorisation.

Geology

The site is covered by superficial deposits of glacial till (boulder clay), with bedrock exposed just outside the northern boundary. The glacial till is generally thin sandy gravelly clay, usually less than 2m thick, and absent over significant parts of the site.

The presence of widespread made ground can be anticipated given the industrial development and use of the site, featuring the damming of the valley, coal mining and spoil disposal in the southeast, quarrying, use of coal-fired boiler houses with ash disposal. Significant thicknesses must have been deposited to infill the valley in the south of the site. Progressive development and replacement of buildings must also have generated significant volumes of demolition rubble, and relatively recently the construction of the warehouses generating rock and soil fill. This is confirmed by the intrusive site investigations that have recorded variable depths of made ground throughout the developed parts of the site. It follows that the generally undeveloped northern third of the site appears to contain only natural soils other than a veneer of hardcore in the northwest. The deepest area of fill is recorded as lying to the south of Mill Lane ('The Croft') where historical mapping shows a fill embankment over the culverted stream; BH9 in this area recorded 11m of predominantly ash fill.

The site investigations record a local area of silt below part of the solvent recovery area to the west of the lodge; this may be natural or might represent made ground resulting from the removal of alluvium from the stream valley during construction or maintenance of the lodge and dam.

Bedrock is mapped as the Rough Rock, a sandstone of the Millstone Grit series (Namurian age). Close to the western boundary this gives way to the underlying Upper Haslingden Flags, sequences of sandstones and mudstones. The Rough Rock is typically around 20m thick, and contains the Sand Rock coal seam, typically around 0.6m thick at about 12m above the base of the Rough Rock; the seam may be underlain by mudstones. The Sand Rock coal seam is shown outcropping adjacent to the southeast site boundary and dipping away from the site to the southeast; this is consistent with the Lumn Mills Colliery mine abandonment plan.

A fault crosses the centre of the site southeast-northwest, displacing the strata down to the southwest.

The hydrogeology is likely to largely reflect the original surface topography, which falls from around 154m aod to 135m aod across the development area. Typical levels of groundwater appear to be around 2-3m below the sandstone rockhead, sloping down to the south, with localised flows expected to be southwest from the western side of the site. The Rough Rock is likely to exhibit significant secondary permeability via bedding planes and joints and faults and is classified by the Environment Agency as a Secondary A aquifer. The presence of historical wells and pumps in the area indicate sufficient transmissivity for local abstraction for industrial use. There are no current licensed abstractions within 500m.

2.8.1 Historic Use of Site

The site occupies the valley of a tributary to Pig Lee Brook which was dammed to form a mill lodge discharging to two further lodges and a culvert below the southeast part of the site. Bentley and Lumn Cotton Mills were the original development within the site. Part of the site extends south of Mill Road and is referred to as 'The Croft'. An abandonment survey for Lumn Mills Mine dated 1877 shows 2 adit entrances (one as an incline) located in the south east corner of the site connecting with workings in the Sand Rock coal seam off-site to the east.

The mills were redeveloped or expanded before the date of the 1877 mine abandonment plan, and the main mill lodge extended northwards, presumably by raising the height of the dam. The 1890 Ordnance Survey 25"/mile scale map (see figure 3.2) shows the current masonry constructed mill buildings were largely in place, annotated 'Lumn Mills (Cotton and Logwood Dyes)', with two small lodges still present in the south, and a new earth-retained reservoir in the southwest; the central lodge enclosed by buildings was reduced in size compared to the 1844 plan. An air shaft is shown on the northwest side of the main lodge, and a well in the southwest corner of the site. Two round structures (marked as chimneys on the 1908 revision) were shown alongside the mill buildings.

The 1910 map marks the Lumn Mills as 'disused', and the 1928 map describes the mills as 'Bevis Green Print Works; the central reservoir is built over by this date and the air shaft is no longer shown. A rock quarry measuring ~33m east-west by ~60m north-south is recorded about 50m west of the main lodge, with a spoil heap between the quarry and former air shaft.

The two chimneys previously shown are absent whilst a new building and chimney signifying a boiler house are shown on the eastern side of the southwestern reservoir.

The 1960 map records the quarry as disused with a pond present in the base, and the 1971 maps shows the quarry as part-infilled and a refuse tip is indicated in the southern part.

Tetrosyl acquired and developed the site in the mid-1960s, and the 1971 map annotates the site as 'Car Accessories Factory'. The boiler house chimney was no longer shown, presumed demolished, and some storage tanks were indicated. The solvent tank farm was constructed after 1981, and the current office and reception building was constructed after 1996. The small lodge in the southeast corner of the site is shown as infilled on the 1984 map, and two large portal frame warehouses are shown in the northwest of the site. Tetrosyl personnel advised that the warehouses were constructed in the 1970s and that the excavation required to construct the northern warehouse generated rock and soil that was used to infill the large reservoir in the southwest and to form the present car park. The 1984 map does not show the quarry which is presumed to have been fully infilled by this date. Two areas of fill on the southern and western sides of the main lodge are shown on the 1999 map.

A variety of wells and pumps are depicted on the various maps in several locations and at different dates indicating probably shallow and small structures drawing water from the shallow sandstone bedrock below the site.

2.8.2 Immediate Boundary Conditions

The site is bound by a residential estate and Walmersley Old Road to the West. The Northern boundary has residential properties (Farming) along Bentley Lane with open farm land beyond. To the East there is another farm and grazing land leading to Pig Lee Brook. Continuing further East is the M66 motorway and Walmersley Golf Course beyond. To the South lies more residential housing along Mill Road with open wooded land opposite leading to further housing beyond.

(see aerial photo on next page)



2.8.3 Key 3rd Parties affected by the works

The site is bounded on the western and southern boundaries by residential estates which will require consideration during the hours of demolition and remediation. Deliveries and export of waste streams need to be planned around, and notified of, the close proximity of residents to the site along these boundaries.

The eastern and northern boundaries are less populated with residents but still require consideration. These properties are predominantly farming businesses which will also need consideration during the hours of working with regards to plant movements and access requirements. Access rights to local farming businesses must be maintained at all times throughout the works.

All movements in and out of site will need to be coordinated through a banksman to ensure there are no interface issues with residents and adjacent farm businesses.

2.8.4 Identified Hazards

- **Access/Egress**

To ensure the H&S of operatives and ensure legal compliance and best practice, a segregated pedestrian route is to be established to ensure pedestrians and vehicles remain apart.

Access initially will be situated off Walmersley Old Road and will utilize the current main entrance of Tetrosyl. All deliveries will enter site through this access and proceed to the site office compound for assistance.

All deliveries and plant movements to site will be given clear instruction on the route in and the times available so as not to clash with school start / finish times and local residents / businesses.

The parking of company and visitors vehicles will be within a defined contractor's area and at a safe distance from the welfare provisions and site offices. Contractors' vehicles will not be permitted to park on the public highway, and all works will be contained within the site boundary. All roads and footpaths will be kept clear of debris etc. at all times.

All site personnel will ensure the Traffic Management Plan is complied with. This will be monitored by the URBAN REGEN LTD Project Manager.

All deliveries will be managed and coordinated by the URBAN REGEN LTD Project Manager to ensure that ALL delivery vehicles approach and leave the site from the one agreed route.

Deliveries to the Project will be in accordance with planning conditions and are restricted to 08:00-18:00 Monday- Friday and 08:00-13:00 on Saturday. As previously stated these will be arranged outside of the school start and finish times.

A vehicular banks man will be in attendance to supervise all on site deliveries including the reversing of all vehicles. This will be monitored by the URBAN REGEN LTD Project Manager.

- **Live services**

All services will require disconnection by the client prior to any construction or demolition activity. The existing buildings currently have live Electric, Gas and Water supplies which require isolation prior to works commencing.

- **Asbestos**

An Abestos Reinspection Report Reference "Report P-24594 December 2011" has been undertaken for the existing buildings. The report identified various Asbestos products which will require removal prior to demolition taking place. These consist of Asbestos coatings to

walls and ceilings, Asbestos Cement products (Flue Pipes, Roof Sheets, Gutterings) and Gaskets within Electrical Fuse Boxes.

Asbestos removal methodology will be detailed in specific Asbestos Removal Method Statements and Plans of Work, compiled in accordance with the requirements of the Control of Asbestos Regulations 2012 and all associated ACOPs and guidance as a minimum.

Urban Regen will commence works with the removal of asbestos containing materials (as identified in the project Demolition & Refurbishment Asbestos Survey) prior to the demolition. Non Notifiable Non License works will be conducted by Urban Regen operatives with Notifiable Non Licensed and Notifiable Licensed works carried out by specialist subcontractor with trained and experienced operatives working under the control of Asbestos Supervisors. Asbestos will be removed in accordance with best practice and industry guidance all in accordance with the Control of Asbestos Regulations 2012, and disposed at a licensed landfill site.

Asbestos removal works will be validated through personal and background monitoring conducted during the removal process by a UKAS registered analyst. On completion of licensed works the analyst will verify that all asbestos has been removed to the required safe standard.

Asbestos RAMS have been prepared by Elite Asbestos Solutions Ltd. The recommended procedure for the removal of asbestos sheeting via mechanical means and subsequent recovery of the asbestos under their supervision will be detailed within the RAMS for the site.

- **Demolition**

Urban Regen will provide a series of Demolition site-specific method of works / method statement and associated risk assessments for the project. In summary the demolition activity will consist of the following:-

- **Soft Strip**

Works involving the removal of fittings and fixtures from each structure during a pre-demolition soft strip where it is deemed safe to do so. Materials will be removed via mechanical means to minimize manual handling. All arising's will be processed, sorted / partitioned allowing for maximum recycling and minimal removal to landfill.

- **Machine Intensive Demolition**

Urban Regen will demolish the structures either down to ground slab or to base of foundations as required. The scope and extent of demolition will be made clear on the individual method statement provided for the structure. Demolition will be via remote means, using a selection of specialist demolition plant. The demolition of structures and site finishes will be in accordance

with the contract specification. All works will be in compliance with the Section 81 stipulations and all demolitions will comply with BS6187:2011 Code of Practice for Demolition. Demolition works will not interfere with the structural integrity of any adjacent buildings or structures.

Hardcore and demolition rubble will be stockpiled with superstructure and foundation materials kept separate prior to and after crushing so as to mitigate cross contamination. All unsuitable materials will be disposed of offsite and the remaining suitable materials will be processed to 6F2 for developer re-use. All hard standing arising's will have to be segregated and stockpiled piecemeal and all resultant voids created will be in-filled with site won arising's and re-engineered accordingly.

- **Working at Height**

Urban Regen ensure that work at height is planned and conducted with due regard to the Working at Height Regulations 2005 and all other, applicable H&S legislation, guidance and ACoP. Urban Regen ensure that where possible work at height is eliminated. Where this is not possible it is strictly reduced. Urban Regen achieve this through the selection of demolition plant as the primary demolition method. Where work at height is required Urban Regen ensure that risks to persons are controlled via measures such as group protection and finally personal protection (e.g. fall arrest PPE). Where access to heights is required Urban Regen operatives are fully trained and experienced in access equipment use (PASMA, CPCS etc). Urban Regen determine the safest means of access to heights to conduct each task and outline this to operatives within specific Permit to Work, Method Statements and Risk Assessments.

Work at heights will be required during selected portions of asbestos removal works and pre-demolition soft strip and waste removal.

- **MEWPS**

For selected access to heights external to structures Urban Regen will possibly need to use mobile elevated working platforms (MEWPs). MEWPs will be sited on firm and level ground. MEWPs will be operated by CPCS trained and experienced operators. Exclusion zones will be in force around the MEWP at all times.

- **Scaffolding**

Any scaffolding will comply with BS EN 12811-1:2003 Code of Practice for erection of temporary works (Scaffolds) - Performance requirements and general design. Tubes and fittings will comply with the amendments. Prior to the erection of scaffold Urban Regen will liaise with the local authority to gain permission to close any required public footpaths and establish pedestrian diversions, ensuring the safety of the public.

- **Ladders**

Where deemed appropriate through risk assessment a ladder or stepladder may be used for short duration access and for 'light work' (not strenuous or heavy work). In addition operatives must ensure a handhold is available on the ladder or stepladder where three points of contact can be maintained at all times (hands and feet) at the working position. Where a ladder is used it will be footed and will be positioned at a safe angle. Access directly below working at height will be controlled as an exclusion zone and restricted to operatives. Care will be taken to site the step-ladder or ladder on clear and level ground. Floors must be clean and not slippery. In addition operatives will be required not to overload ladders and not to overreach.

- **Sheeting Skips**

Urban Regen's wagons will be sheeted to prevent dust release prior to their movement off site. The wagons will be fitted with an auto-sheeting system to eliminate the requirement to work at height.

- **Contaminated Land**

The depth of Made Ground varies across the site. It is shallowest below the main Mill Building ranging from 0.5m to 1.0m. To the north in the area of the Solvent Tank Farm Area the Made Ground range is 1.0m to 2.0m. The main Car Park Mader Ground is significantly deeper ranging between 4.0m to 6.0m. The abandoned backfilled Quarry has Made Ground greater than 5.25m but has not been proven to what depth it extends. The Croft Area which lies outside the developable part of the site has recorded Made Ground of 11m.

The site has been found to be impacted by inorganic heavy metals, asbestos fibres and non-volatile PAH and as such appropriate mitigation measures in the form of a suitable cover system within the proposed residential gardens and careful management of materials during site enabling works will be required.

Elevated volatile (aliphatic and aromatic) petroleum range (BTEX) compounds have been identified within the shallow soil and groundwater adjacent to the AST's used for the storage / recovery of bulk solvents and UST's used to store petrol, diesel and white spirit. On completion of the decommissioning demolition works further site investigation works will be required to develop the Remediation Strategy to a satisfactory conclusion for the Local Authority and Environment Agency to approve for development.

Further post demolition site investigations will be required to further characterise the nature of the deep fill within the historic reservoirs and in filled ground.

Initial monitoring has identified the presence of marginally elevated methane and CO₂ within the areas of deep Made Ground & hydrocarbon impacted fills. Further monitoring will be required upon the start and before completion of the remediation phase of works.

- **Working adjacent to the general public / 3rd parties**

Urban Regen will minimize any inconvenience, impediment or restriction to the public at all times during the period of works. Urban Regen will carefully pre-plan all vehicular movements on / off site and will strictly manage the interface between vehicles and pedestrians on site. Urban Regen will adopt all applicable control measures as defined in HSG 144 (2nd edition 2009). The safe use of vehicles on Construction Sites, and HSG 151 (2nd edition 2009) Protecting the Public.

- **Ecology**

There are several trees to be retained in the Northern and Northeast area of site adjacent to the reservoir. There will be Tree Protection Fencing erected prior to remediation works commencing in accordance with the recommended specification detailed in the Ascerta Tree Report. The works will only take place outside of the nesting bird season.

During the draining of the reservoir Common Toads and Fish will be rescued and re-homed by a suitably qualified ecologist.

There is a Badger Sett currently within the Northern area of site outside of the remediation area. Prior to works commencing a 30 metre exclusion zone must be established and Tool Box Talk given by an ecologist identifying any precautionary measures to be undertaken during the works.

- **Bats/Birds**

There are several Bat roosts in the older Mill buildings on site which prior to demolition will need to be inspected by a licenced ecologist ensuring there are no Bats present within. There are no issues regarding nesting birds as works fall outside of the nesting season.

2.9. General Site Procedures

- All personnel and visitors shall report to the site office and sign in / out.
- Access to the site office shall be clearly signed and provide for a safe transit route directly to the site office without need to access operational areas of the site.
- All site personnel shall undergo a full induction prior to going to work.
- Visitors shall be escorted at all times.
- Designated PPE shall be worn at all times.
- Site boundaries shall be fully secured to prevent unauthorized access prior to start.
- Drinking/Eating/Smoking on Site
 - No eating / drinking outside welfare area.
 - No smoking except in designated area adjacent to compound.

- Parking
 - Parking shall only be allowed in designated areas – see TM Plan displayed on site notice board (copy included in App 6 of the site H&S records).

- Delivery Time / Route Constraints
 - Due regard shall be made regarding time restrictions & permitted access routes to / from the site in line with planning conditions and other local arrangements. Hauliers shall be notified in advance with orders conditional on compliance with these transport constraints.

- Storage of Hazardous Materials
 - The Project Manager shall ensure that hazardous materials are stored in full compliance with the material safety data sheets, in secured / segregated areas.
 - Necessary controls shall be communicated with the workforce with unauthorized personnel excluded from the storage areas.

- Existing Services

Remediation & earthworks activities frequently conflict with services and is seen as a major risk area. The following shall be incorporated into site management arrangements:

- A masterplan indicating the current layout of known services shall be displayed within the site office.
- Prior to excavation scanning of the area shall be carried out by competent person and all services shall be physically marked on site.
- No excavation, be they hand trials or mechanical excavation shall commence without a permit to dig issued for the discreet areas and shall only remain valid for a period of 1 week.
- At the start of each week the project manager will issue a new permit and present site personnel with a briefing prior to works commencing on site.
- Site Personnel will sign to confirm receipt of the permit / briefing and their understanding of the required procedures. Prior to issue of a permit to dig, the UR project manager (trained & competent in the use of cable detection equipment) will carry out a review of the work area, using current record drawings and relevant surface features to determine if utilities are present or suspected.
- Hand excavated trial holes shall be excavated using insulated spade / shovels to identify nature, line and level of the service. Use of picks, forks or wrecking bars shall be expressly forbidden. In the event concrete or other hard obstruction is located within the trial hole, cease excavation and inform the project manager immediately.
- Services identified should be assumed to be live unless written confirmation is received from the service owner (through Client).

- Where live services are found an agreed safety corridor shall be set up until arrangements are made by the Client to isolate / disconnect / divert / protect the service, no mechanical excavation shall proceed within 1.5m of the service alignment.

All excavation works shall be undertaken in accordance with HSE guidance HSG47.

- Waste Management & Material Management Plans
 - All waste materials shall be disposed of offsite to a permitted / exempt facility or where suitable transferred to another development site subject to the receiving site having the relevant permit exemption or declared materials management plan.
 - Wastes will be segregated into the relevant waste stream by competent personnel and classified in line with current legislation.
 - Records of material disposal shall be retained on site for inspection including:
 - Waste stream analysis.
 - Waste Code / Premises Code.
 - Receiving Site Permit / Exemption / MMP details.
 - Haulier Permit details.
 - Duty of Care documentation.
 - Wagon / skip conveyance documentation.

- **Environmental Management**

All site operations shall be undertaken to restrict the impact on the local environment to a minimum. This shall include as a minimum:

- General Housekeeping – Site management will ensure good housekeeping and waste management is adopted to control vermin risk and other potential health hazards. Good standards of welfare provision and maintenance to be maintained throughout the project.
- Refueling – shall be fully considered with procedures in place for:
 - Fuel storage / Spillage Controls.
 - SW / GW controls.
- Dust Management – mitigation controls shall include:
 - Pre-start survey / measurement.
 - Site logistics and phasing.
 - Interim monitoring records / weather reporting.

- Communication of controls.
 - Incident response arrangements.
- Vibration
 - Assessment of potential vibration risk to sensitive receptors pre-start.
 - Amend compaction arrangements where practical.
 - Install monitoring equipment where appropriate.
- Site Access/Egress – Control of road cleanliness
 - Deploy appropriate arrangement to ensure cleanliness of approach roads when site traffic movements required (reference planning conditions).
 - Daily monitoring of site approach to verify effectiveness of arrangements.
- **Surface Water Management**
 - In line with good practice all operatives will be briefed on the issues of surface water management and the importance throughout the works to control and mitigate any runoff to the Stream.
 - Baseline testing of the watercourse upstream / downstream will be undertaken before the works commence, and thereafter on a weekly basis by the clients Geo-environmental Consultants to demonstrate no degradation of the water quality has occurred.
 - Installation of boundary fencing incorporating silt mitigation measures post tree clearance works and pre vegetation clearance works to the embankment.
 - There will be the installation and maintenance of protective bunds and grips to prevent surface water runoff into the watercourse throughout the works.
 - All surface water controls will be monitored by Urban Regen's Project Manager; these will be visual inspections and photographic evidence of the condition of the watercourse daily and a visual inspection check sheet completed.
 - In the event the site is inundated with excess water due to inclement weather works will cease to mitigate potential pollution to the water course.

- **Traffic Management Plan (See TM PLAN WITHIN App 6)**

The site Traffic Management plan shall be displayed on the site notice board and communicated to all site personnel (induction) and hauliers (within order). The plan shall be designed to minimize the interface between plant and pedestrians and will be revised as site conditions change, with the relevant changes being brought to the attention of site personnel and hauliers.

3. COMMUNICATION AND TRAINING

3.1. Site Induction

- All personnel working on site shall undergo a full site induction covering relevant H&S arrangements on site.
- Induction will identify key risks and control measures to reduce the risks.
- Competency checks on personnel will be carried out to ensure individuals are trained, competent and certified to undertake planned works before being allowed on site.
- Checks will be undertaken to ensure individuals have the correct certified equipment and specified PPE prior to entry on site.
- Inductees will be asked to provide written confirmation of their full understanding of the arrangements and procedures they must comply with whilst on site.
- Inductees will be required to confirm there is no existing health condition that would impact on their safe performance of their normal duties.
- In addition to the UR induction all operatives and subcontractors will be briefed on Surface Water Management which identifies the management requirements to mitigate water runoff into the water course and therefore reducing the risk of silt runoff from site activities. In addition to this a Tool Box Talk will be briefed to all employers on site and signed acknowledging their understanding of the importance to control and manage surface water throughout the works.

3.2. Site Briefings / Toolbox Talks

- Specific task briefing shall be held by the site manager / supervisor at the start of each shift to ensure personnel are fully aware of all activities planned and measures to ensure they are completed safely.
- Where specific changes to methodology are planned, or a new phase of operation is due to start, further arrangements and relevant safety topics shall be communicated by toolbox talks. A record of attendance shall be retained on site.

3.3. Training

- Updates on training to comply with legislative changes, enhanced roles and responsibilities for individual personnel and changed site conditions shall be arranged by senior management as required.

3.4. Workforce Communication

In addition to the arrangements above, the site safety notice board shall include relevant information including:

- Health & Safety Law Poster
- Emergency Procedures & Contacts Sheet
- Insurance Certificates
- F10 Notification
- Site Rules / Safety Notices
- H&S Policy Statement
- Traffic Management Plan
- First aid arrangements

3.5. Subcontractor Selection / Performance

All subcontractors engaged by the company shall be subject to competency assessment to ensure they have adequate levels of resource, skills and experience to undertake the proposed works.

Sub-contractors shall submit their own Project Specific Health and Safety documentation, which shall be reviewed by the UR / USS Management pre-start.

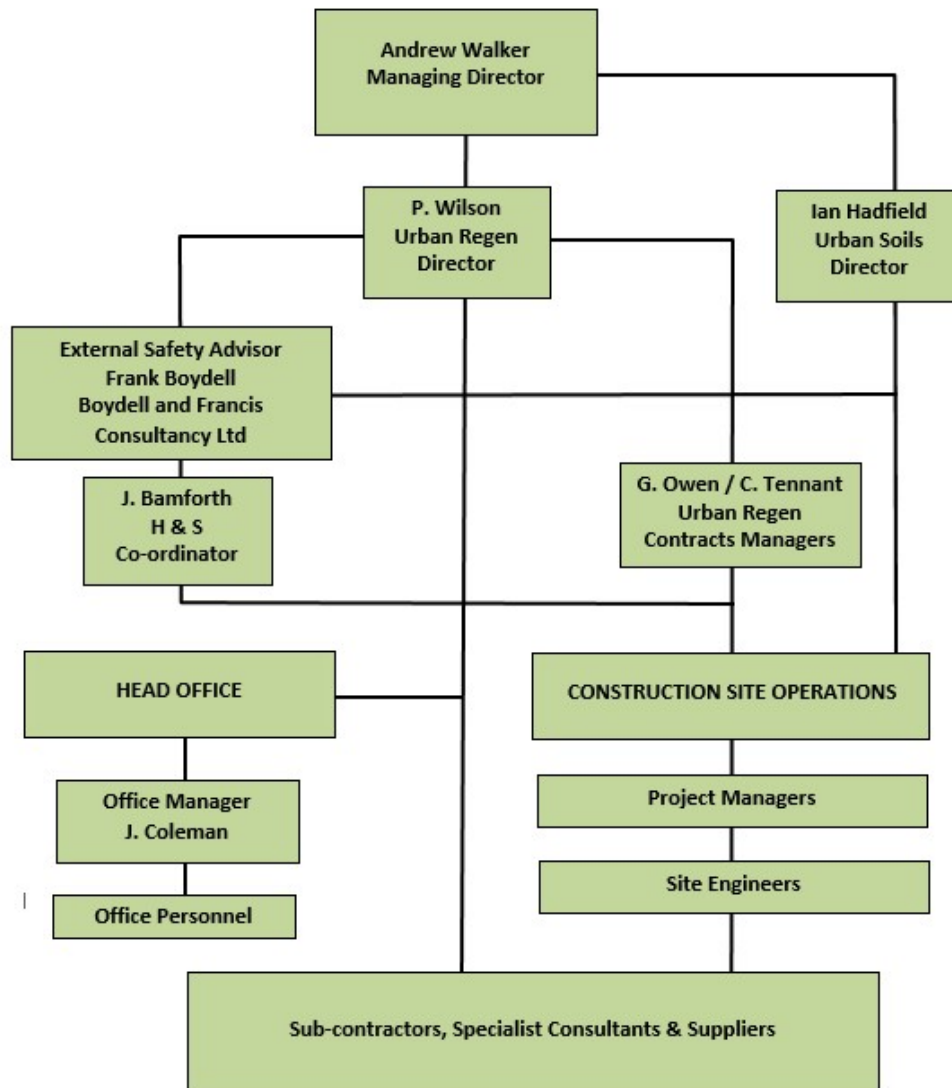
All sub-contractors are to ensure competent supervision of their operations (SSSTS minimum requirement).

All s/c operatives will be suitably competent. Proof of CSCS/CPCS/NPORS or equivalent certification prior to entry to site.

Sub-contractor performance shall be reviewed throughout the work to ensure there is full health & safety compliance with a record of performance.

4. PROJECT HEALTH AND SAFETY MANAGEMENT TEAM & KEY RESPONSIBILITIES

4.1. Company Structure



4.2. Project Roles & Responsibilities

The list below is to be detailed by Construction Manager, Contracts Manager & Project Manager. Any changes in roles & responsibilities must be updated with immediate effect to ensure adequate resources for the Project.

	Duty Holders Name	Deputy Name
1) Project Manager	Anthony Smith	Gary Owen
2) Traffic Management Plan	Anthony Smith	Gary Owen
3) Health & Safety Adviser	Anthony Smith	Gary Owen
4) First Aider	Anthony Smith	Gary Owen
5) RAMS / COSHH	Anthony Smith	Gary Owen
6) Service Constraints Plan	Anthony Smith	Gary Owen
7) Asbestos Management Plan	Anthony Smith	Gary Owen
8) Emergency Procedures / Plan	Anthony Smith	Gary Owen
9) Induction / Toolbox Training	Anthony Smith	Gary Owen
10) Permits to Dig /Work	Anthony Smith	Gary Owen
11) Weekly Safety Inspection	Anthony Smith	Gary Owen
12) Weekly Environmental Inspection	Anthony Smith	Gary Owen
13) Plant Inspection/checks	Anthony Smith	Gary Owen
14) Materials Management Plan	Anthony Smith	Gary Owen

4.3. Project RAMS

- No works shall commence without a suitable and sufficient method statement and risk assessment.
- RAMS shall consider relevant information from the Pre Construction Information Pack, design risks identified, building materials specified, physical, environmental, logistical restrictions that are anticipated.
- Practicable / safe methods of construction shall be adopted and construction best practice implemented at all times.
- Where RAMS are prepared by 3rd party contractors, these shall be subject to review by the Company Site / Project Manager to verify acceptability before works start.

4.4. Project Performance Targets

- Target Zero Accidents / Incidents & Dangerous Occurrences through positive worker engagement, advice and education.
- Promote good positive occupational health and safety awareness and improve health and safety culture upon the Project.
- Ensure Zero HSE / LA / EA intervention.
- Mitigate risks to the occupational health of all site personnel.

5. EMERGENCY PROCEDURES

Project Emergency procedures shall be posted on the site safety notice board and conveyed to all personnel at the site induction:

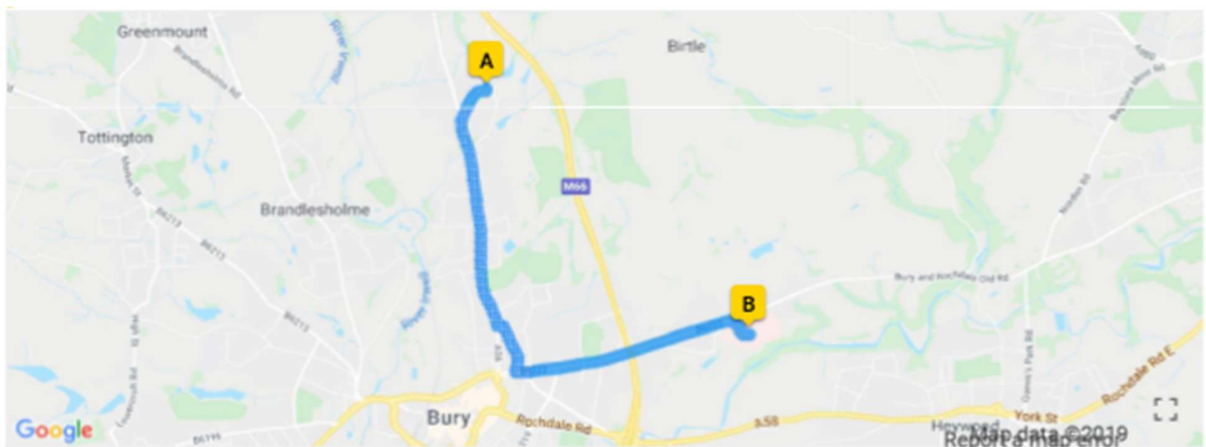
5.1. First Aid

- The site First Aider is: Anthony Smith.
- The First Aid Box / Equipment is retained in the site office.

5.2. Emergency Contacts

Project Emergency Coordinator / Deputies	Location	Contact Tel No.
Anthony Smith	Project	07867 490746
Frank Boydell	H&S Adviser	07808 793119
Pete Wilson	Head Office	01204 595933
	Head Office	07789 047227

5.3. Nearest A&E – (APP21)



From: Lumn St, Bury BL9 6RG, UK

Distance: 3.2 miles

To: Bury BL9 7TD, UK

Time: 11 mins

Distance	Directions	Total
Start:	Lumn St, Bury BL9 6RG, UK	
0.0	Head south on Lumn St towards Mill Rd	0.0
0.0	Turn right onto Mill Rd	0.0
0.0	Turn left at the 1st cross street onto Walmersley Old Rd	0.1
0.2	Turn left onto Walmersley Rd/A56	0.3
1.2	Turn left onto Taylor St/B6221 Go through 1 roundabout	1.4
0.3	Turn left onto Bell Ln/B6222 Go through 1 roundabout	1.8
0.5	Continue onto Rochdale Old Rd	2.3
0.8	Turn right onto Rough Hill Ln	3.0
0.0	At the roundabout, take the 3rd exit onto Jericho Rd	3.1
0.0	Turn left Destination will be on the left	3.1
0.1	Arrive: Bury BL9 7TD, UK	3.2

Fairfield General Hospital

Tel: 01616 240420

Address: Rochdale Old Road, Bury, BL9 7TD.

5.4. Emergency Plan – Prior to starting works suitable arrangements will be in place for arrangements in case of fire. These will include:

- Ensure adequate escape routes are kept clear and signed at all times.
- Ensure adequate and fully serviced FFE (extinguishers) are provided within the site accommodation.
- Ensure designated personnel are trained to use the FFE provided.
- Ensure suitable means for raising the alarm and calling the Fire Service.
- Mustering arrangements (identified on the TM Plan on the site safety notice board).
- Arrangements to undertake a roll call in the event of an emergency evacuation (or fire evacuation drill) to ensure that all persons are accounted for.

5.5. Accident Reporting & Investigation

- All accidents, incidents and near misses must reported to the Contracts Manager / Director responsible for the project who will determine the level of investigation required and subsequent remedial action / training to be implemented.
- All RIDDOR 2012 accidents and incidents will be investigated by the H&S Consultant and the Director Responsible with HSE notification coordinated through head office and the company's health and safety consultant.
- All accident / injuries shall be detailed in the site Accident Book held within the site office under the control of the Project Manager.

6. INSPECTION, CONTROLS & MONITORING

6.1. Weekly Record of Site Inspection

- A weekly record of H&S Inspection will be carried out by the Project Manager. Remedial actions identified will be carried out within timescales agreed with the Contracts Manager.
- Weekly plant inspection records summarizing daily visual examination, will be carried out by competent personnel, and will be recorded, with plant requiring repair, taken out of service until repairs have been completed by an authorized fitter.
- Monthly inspections shall be carried out by the company's health and safety adviser. Remedial actions identified will be carried out within timescales agreed with the Director.

6.2. Operative Competency

- Personnel without the relevant competency certification (CSCS/CPCS/NPORS etc) will not be allowed to work on site.

6.3. Personal Protective Equipment

- Company personnel will be provided with the required PPE equipment and will be trained in its use where appropriate.
- Sub-contractors will ensure their personnel are provided with the correct PPE equipment. Where this is not provided, the Company will provide the equipment in lieu.

6.4. Permits to Work / Dig / Enter / Hot Works

- No work shall commence without the appropriate permit being issued and the relevant health and safety measures briefed to the personnel involved who will be required to confirm their full understanding of the procedures in writing.

7. SECURITY

7.1. Access - to the Project will be closed and secured when not required. This will be managed by the Company Project Manager or delegated competent person.

7.2. Unauthorized Entry - Site Management will ensure so far as is reasonably practicable that unauthorized access onto the site is prohibited. Any security issues shall be directly reported to the relevant authority and Client accordingly.

8. WELFARE ARRANGEMENTS

8.1. The welfare arrangements on site include:

- Site Office / Canteen / Drying Room / Toilet (combined unit)
- Silenced Generator within the combined unit
- Bunded Fuel Tank

9. EXTERNAL VISITS

Records must be kept of any Enforcing Authority visiting the Project. Where the HSE/EA/LA Inspector issues a Prohibition Notice or indicates the intention to issue an Improvement Notice the Director (or in his absence the H & S Adviser) **MUST** be notified by telephone as soon as possible.

Any external visits by enforcing authorities are to be reported to the Managing Director / Ops Director and the Company's H & S Advisor immediately.

10. RECORDS

The Project Management Team & Principal Designer will be responsible for the, collation of information as the Project progresses.

Within the process the Company will co-ordinate the as-built information and issue to the Principal Designer who will compile the Health and Safety File.

As a minimum the required information to be supplied will include:

- As Built Site Plans / Constraints Drawings.
- Description of the project and works undertaken.
- Further site investigation undertaken during the works.
- Chemical Analyses / validation testing.
- Records of wastes dispatched from site.
- Remediation Strategy & Completion report (where contracted).
- Regulator correspondence and sign off.
- Material Tracking Records describing material distribution / re-use on site.
- MMP and copies of signed QP Declaration (where appropriate).
- Details of specialist suppliers / contractors.
- 3rd Party Stakeholder correspondence.

This is the end of the main body of the Construction Phase Plan which has the following appendices:

Appendix	Description
1	Project Method Statements
2	Risk Assessments
3	COSHH Information
4	Pre-Construction SHE
5	Site Location Plan
6	Site Layout, Traffic Management Plan, Fire Plan
7	Engineering Drawings / Documents
8	Site Induction
9	Tool Box Training Records
10	Site Inspection Records
11	Permits
12	Plant Inspections / Test Certificate Record
13	Competency Certificates
14	Certificates of Insurance
15	Service Drawings
16	Planning Permission – F10 – Section 81/82
17	Asbestos Survey
18	Accident Book and Incident Reporting
19	Environmental Policy and Inspections
20	Visitors Book / Signing In and Out
21	Emergency Procedures / Hospital Route