

Report No: EARTHWORKS MS / SMITHIES, WAKEFIELD ROAD, BARNSELY / REV 0

Date: 5th June 2025

**THE CONSTRUCTION (DESIGN AND MANAGEMENT) REGULATIONS 2015:
PROPRIATORY AND REMEDIAL EARTHWORKS METHOD STATEMENT**

Land South of Wakefield Road, Barnsley.

**HEALTH & SAFETY NOTE TO ALL PERSONS ENGAGED TO CARRY OUT ANY WORKS ON SITE ON BEHALF
OF ECC**

ALL STAFF EITHER DIRECTLY EMPLOYED OR SUB-CONTRACTED TO ECC ARE EXPECTED TO COMPLY AND FOLLOW ALL SITE RULES, REGULATIONS, AND WORK TO AND COMPLY WITH ALL METHODS OF WORKS AND RISK ASSESSMENTS AND ENSURE AT ALL TIMES THEY KEEP THEMSELVES AND COLLEAGUES SAFE. ALL PERSONS ARE EXPECTED TO BE MINDFUL OF THE WORKS THEY ARE BEING ASKED TO DO AND IF AT ANY POINT THEY FEEL THE WORKS ARE BEING UNDERTAKEN UNSAFELY OR INDEED SEE ANY PRACTICES OR PERSONS CARRYING OUT ANY WORKS THEY DEEM TO BE UNSAFE THEY ARE TO MAKE EITHER ECC'S SITE MANAGER OF IF ANOTHER CONTRACTOR THEIR MANAGER IMMEDIATELY AWARE AND ENSURE THE ACTIVITY IS STOPPED AND CORRECTIVE ACTIONS TAKEN.

IF IN DOUBT

STOP, ASK, TELL

KEEP EVERYONE AROUND YOU SAFE!

TABLE OF CONTENTS

1	INTRODUCTION & GENERAL COMMENTS	3
2	WELFARE ACCOMMODATION	5
3	WORKING HOURS	5
4	SERVICES.....	5
5	SAFETY	6
6	OPERATION NO 1: SITE ESTABLISHMENT	7
7	OPERATION NO 2: PROPRIATORY AND REMEDIAL EARTHWORKS.	7

PREPERATORY AND REMEDIAL EARTHWORKS METHOD STATEMENT

LAND OFF WAKEFIELD ROAD, BARNSELY

REV 0

DATE: 5th JUNE 2025

1 INTRODUCTION & GENERAL COMMENTS

- 1.1 This document is the method statement covering the Proprietary and Remedial earthworks to be undertaken within Land off Wakefield Road, Barnsley. The land is a single parcel of rough grassland and formerly comprised agricultural land and a historic colliery. ECC will be PC for the works, which will be undertaken in accordance with the Construction Environmental Management Plan (CEMP) produced by SLR and the Remedial Strategy for the issued by Lithos Consulting Limited.
- 1.2 This method statement has been prepared by East Coast Construction who have been appointed as Principal contractor for the works.
- 1.3 This Method Statement is to be read in conjunction with the associated works specific Risk Assessments, the requirements of which must be strictly observed.
- 1.4 This MS is a working document and although every effort has been made to accurately document the safe and methodical works methods, additions and revisions to this MS may need to be made while undertaking the works. If during the works, it becomes apparent that a documented method needs to be reviewed and revised, works in that area will cease and the method will be reviewed by the site manager, the plant and machine operators, ECC's operations director, ECC's Health and safety manager and if required external agencies (Consultants etc) to ensure the safe and correct methods are always implemented. Any revisions to this MS will be fully documented and all personnel will be re-briefed and will sign on to the revised document.
- 1.5 ECC Ltd employees must at all times whilst on site comply with the requirements of the Health and Safety at Work Act 1974 etc. the construction (Design and Management) Regulations 2015 and all other relevant safety legislation codes, standards and guidance.

SITE STAFF: (Additional resources including plant & labour may be provided on site dependant on workload & programme etc)

1 No site Manager (SMSTS, CPCS, NPORS, FIRST AID)

10 No Plant / machine operatives. (CPCS, NPORS)

2 No Labourers / Banksman / Plant / Machine Operatives. (CSCS, CPCS, NPORS)

Visiting Site Engineers

Visiting testing engineers

PLANT & EQUIPMENT: (Additional resources inc plant & labour may be provided on site dependant on work load & programme etc)

Excavators in the range of 20 to 40 tonnes with breaker & bucket attachments

1 mobile crusher

1 mobile screen

1 No 9t forward tipping dumper.

2 No 30t articulated dumpers

1 No D6 dozer or similar

1 No tractor and bowser

1 No self-propelled ride on roller

Fuel bowser

Herras type fencing, feet & clips.

Pedestrian barriers

Welfare facilities

Hand tools

Stihl Saw

Calibrated CAT scanner & Genny

Double insulated tools (spade, pick etc)

- 1.6 Plant certificates will be obtained for all plant used and copies of the certificates retained on site to demonstrate compliance with relevant legislation (e.g: PUWER, LOLER).
- 1.7 Protocols / arrangements for changing attachments on the excavators will be agreed on site.
- 1.8 All site personnel are to produce CSCS licenses. All plant operators are to produce CPCS / NPORS licenses.
- 1.9 Welfare facilities, first aid provision and fencing etc will be provided and established by ECC.
- 1.10 COSHH assessments will be completed for all hazardous materials stored on site and these will be presented in the Construction Phase file, kept in the site manager's office.
- 1.11 Manual handling must be undertaken in accordance with relevant risk assessments, which should assess risks to health associated with dust, vibration, leptospirosis etc.
- 1.12 ECC Ltd will endeavour to undertake the work described below in such a way as to minimise the impact of that work. Therefore, the ECC works manager will:
 - pay attention to wind direction so as to anticipate the impact of any work downwind of the working area;
 - ensure all plant is fit for its purpose and adequately maintained so that noise generation is within the manufacturer's stated maximum noise level;
 - Give particular consideration to activity on site at the start of the day to minimise disturbance of the neighbours. Reversing manoeuvres will be avoided in the early morning to prevent reversing sirens sounding. Mobile plant, which requires approximately 20 minutes idling to warm-up before a shift, will be parked sensibly away from houses. Any particularly noisy operations (e.g: use of hydraulic breakers) will be programmed to minimise disturbance.
 - Monitor the condition of the public highway when HGVs are leaving site. Self-propelled road sweepers will be engaged from time to time as necessary to keep the highway clean and where necessary wheel washes will be installed.
 - A temporary access road and compound will be installed as per the SLR CEMP to facilitate safe access/egress.

- 1.13 All visitors to site will receive an induction from the ECC Site Manager before being admitted to the works area. During the induction, the current activities on site will be described so as to assist visitors in anticipating the presence of mobile plant on site. If necessary, visitors will be accompanied / chaperoned around site.
- 1.14 Operatives undertaking any form of works on site will read, understand and sign on to the relevant RAMS.

2 WELFARE ACCOMMODATION

- 2.1 ECC are providing all welfare facilities. The welfare facilities provided on site will be utilised by all ECC personnel. These are identified on the traffic management / Logistics plan prepared and maintained by ECC.
- 2.2 The Traffic management / logistics plan is a 'Live' document and as such the plan if required may need to be modified / adapted as the works progress or if other issues arise / are brought to ECC's attention that would require the agreed plan to be adapted. Any changes to the agreed plan would be agreed with the client and then advised to all site personnel to ECC's procurement department and to all contractors.
- 2.3 ECC will provide a standalone welfare and office unit provided by a local Hire company, the welfare unit will be delivered to site and lifted into position using a Hiab by the hire company. The unit has its own power in the form of a Diesel Generator. The unit has hot and cold running water, drinking water will be provided by ECC.
- 2.4 The welfare provided will conform with all relevant legislation and legal requirements inc Schedule 2 of the CDM 2015 regulations.
- 2.5 Outside working hours, all plant will be parked within the works area and left in a safe configuration.

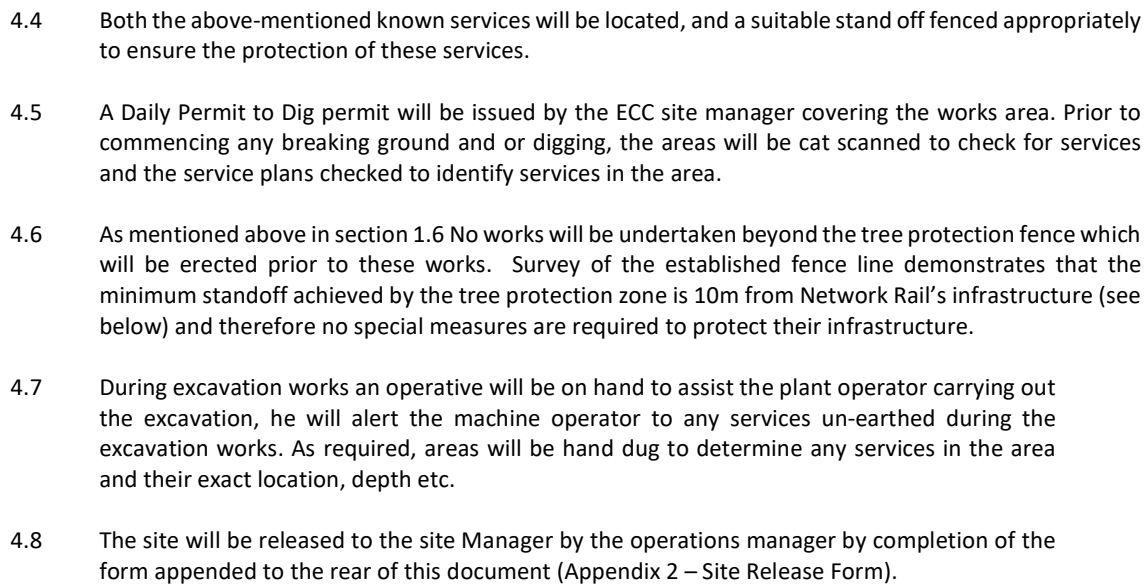
3 WORKING HOURS

07.30 am – 18.00 Monday-Friday
09:00am – 13:00 Saturday

There is no requirement to work Sundays or bank holidays.

4 SERVICES

- 4.1 The client has provided ECC with a full set of service plans and drawings within the PCIP information.
- 4.2 There are known services located on site including overhead electricity cables, sewers (foul and surface water), gas and telecoms.
- 4.3 The location of known services are presented in the Constraints Plan (as per the figure overleaf).



5.1	At all times Senior Staff of ECC Ltd will ensure a high standard of Health and Safety is achieved on site.
5.2	All operatives on site must wear full PPE including as a minimum safety boot, hard hat, a high visibility vest or coat. Additional PPE requirements as identified within the risk assessments will be utilised when undertaking specific tasks.

- 5.3 Smoking is not permitted anywhere on site. A smoking zone will be established within the site compound / welfare area, with an additional smoking zone and or zones located at specific points around the site.
- 5.4 Adequate segregation of pedestrians and vehicular traffic will be maintained at all times. Reversing of vehicles and plant will be always minimised.
- 5.5 As such a robust system will be implemented to control all site traffic and site deliveries. Vehicular access to the works area will be prevented/segregated with anti-climb security fencing / pedestrian barrier fencing.
- 5.6 All deliveries must comply with the Regeneration Logistics and Cyclist Safety (CLOCS) report, looking out for Vulnerable Road Users.
- 5.7 All deliveries are co-ordinated by the site manager and in turn ECC's procurement department to ensure all deliveries are controlled and communicated effectively on site. Care will be always taken to take into account the needs and access / egress requirements for other businesses and residents in the area.
- 5.8 Any fuel spillage will be absorbed by use of sorbent granules, mats and booms available in the spill kit on site. Any used material will be placed in polythene sacks and disposed of as hazardous waste.

6 OPERATION NO 1: SITE ESTABLISHMENT

- 6.1 The boundary of the site and agreed areas of works have been agreed by the client. Previous works by ECR were undertaken where ECR installed all boundary fencing / Tree protection fencing as per drawings provided by the client.
- 6.2 To note since the erection of the boundary fencing, a considerable amount has been damaged and stolen, ECR have been instructed to reinstate this in the first instance when we start on site. Mechanical aids will be utilised in the form of a post borer attachment on the excavator to create the holes the timber post's will be secured using post crete and then the heras panels secured once set. Circa 487 meters of fencing is to be reinstated.
- 6.3 Site compound and welfare will be set up prior to commencement of works as described in Section 2 above please see TMP plan (external document).

7 OPERATION NO 2: PROPRIATORY AND REMEDIAL EARTHWORKS.

- 7.1 ECC's work comprise of the following –
- Site Establishment (fencing, welfare, delivery of plant & equipment, establish compound area logistics route / plan etc).
 - Proprietary and remedial earthworks inc topsoil strip, turnover of the made ground across the site and importation/placement of structural fill.
- 7.2 Risk assessments for this process; for the tools, plant and equipment which will be utilised to undertake this work and for the associated hazards are recorded in a separate document. The risk assessments and this method statement are mutually complementary.

- 7.3 Exclusion zones will be established around the works areas using anti-climb security fencing.
- 7.4 ECC will issue all daily permit to digs.
- 7.5 A full traffic management / Logistics plan will be provided, updated and maintained by ECC throughout the works.
- 7.6 Areas will be Cat scanned prior to any excavation.
- 7.7 All personnel will read, understand, and sign onto this MS and the associated RAs.
- 7.8 Special Conditions: **Dust**
- 7.8.1 The proposed method of work has been developed with the objective of achieving full compliance with these requirements; specifically, this will require:
- Use of an optimum amount of water to keep fine-grained material damp, thereby preventing the mobilisation of dust to the atmosphere;
 - Reducing to a minimum the degree to which arisings are moved / handled;
 - Sheetting-off skips containing waste materials;
 - Possible suspension of work on dry, windy days when the potential to generate dust is greatest.
 - The maintenance of clean vehicular traffic routes.
- 7.9 Special Conditions: **Noise.**
- 7.9.1 All plant to be used on the contract will be modern and well maintained. Noisy operations such as the use of hydraulic, excavator mounted breakers, will be commenced no earlier than 8.00am.
- 7.10.1 Deliveries to and removal of materials from site will be managed by site manager to take-place within normal hours of business and neither very early in the morning nor very late in the evening. Traffic routes will be established to reduce to a minimum or even eliminate completely the requirement for any vehicles to reverse, thereby removing the nuisance caused by reversing sirens.
- 7.10 Special Conditions: **Vibration.**
- 7.10.1 Due to the nature of the work and the ground conditions it is not expected that managing vibration will present a problem on this contract and monitoring will only be undertaken during breaking out of slabs. If monitoring is requested, monitoring results will be reported weekly during these works.

REMEDIAL AND PROPRIATORY EARTHWORKS

- 7.11 The Remedial and Proprietary earthworks in the form of turnover and topsoil strip are described below and as per the below plan.

Turnover of Made Ground, Placement of engineered fill & compaction, cut & fill.

- 7.12 Turnover of made ground will be undertaken to expose natural soils across the site. Materials will then be used to achieve a cut and fill exercise across the site (high level area will be trimmed and material removed, low level areas will have material deposited and brought up to agreed levels).
- 7.13 Site won aggregate processed and crushed to the required specification will also be re-used and placed across the site.
- 7.14 Excavators in the range 20 – 30 tonnes with bucket attachments will systematically excavate made ground materials. Only fully automatic quick hitches are only to be used on all excavators.
- 7.15 Arising's will be transferred (If required) from the excavation to the deposition area using an articulated dump truck (ADT) in the range 25 - 30 tonnes or a smaller 9t forward tipping dumper. The haul route will be identified on the traffic management plan.
- 7.16 Other site won materials created from the aggregates will be loaded into dumpers and transferred to the required works areas, the material will be tipped and placed to create agreed development levels.
- 7.17 Any large (coarse) components of the made ground which are encountered will be set aside for crushing.
- 7.18 Arising's will be placed in the deposition area and levelled using mechanical excavators.
- 7.19 Placed materials will be subject to compaction in accordance with the earthwork's specification and Highways Agency Specification for Highway Works using a self-propelled vibratory roller.
- 7.20 Materials will be placed in repeated layers until formation level has been achieved.

Contamination

- 7.21 Identified contaminated areas (Hotspots) present on site will be excavated and remediated using the following methods.
- 7.22 Some soils may require treatment work, involving techniques such as stabilisation and/or bio-remediation and where applicable offsite disposal to a licensed facility.
- 7.23 Excavators in the range 20 – 30 tonnes with bucket attachments will systematically excavate the full thickness of contaminated made ground to expose undisturbed and apparently clean natural ground.
- 7.24 Arisings will be transferred from the excavation to a treatment area (where the existing hard-standing will be retained for the duration of the treatment process or visqueen liner provided to mitigate cross contamination of underlying soils) using a forward-tipping dumper up to 10 tonnes. The haul route will be identified on the traffic management plan.
- 7.25 Any large (coarse) components of the made ground which are encountered will be set aside for crushing as described above.

- 7.26 Once the excavation of the contaminated material appears to be complete, validation samples of the excavation will be taken. Until the results of the validation exercise are available, the excavation will be fenced-off to prevent man access and signage provided.
- 7.27 Once it has been confirmed that the sides and base of the excavation are free from contamination (or that any residual contamination is at an acceptable level), the excavation will be surveyed and then backfilled using site-won material: suitable material will be transferred to the excavation using a forward-tipping dumper, loaded by one of the excavators on site. Forward tipping dumpers must have ROPS fitted, seat belt worn and operator away from machine during loading. Stop-blocks will be placed near the edge of the excavation at the deposition point and the material spread evenly across the base of the excavation by one of the excavators or dozer / tracked loading shovel.
- 7.28 Compaction of any fill will nominal (by repeated over-tracking of the fill by an excavator and compaction with a minimum 2No. passes of a self-propelled vibratory roller).
- 7.29 Contaminated soil / fill material within the treatment area will be analysed to determine which additives may be required and at what concentration. Additives may include lime or cement and COSHH assessment & MSDS to be provided prior to use of any additive (following selection). Any additives will be incorporated into the soil / fill material using one of the excavators. Periodically the material will be turned using one of the excavators and further analysis undertaken to gauge the efficacy of the treatment regime.
- 7.30 At all times the material will be formed into regularly shaped stockpiles and prevented from becoming saturated by being covered with 1000 gauge polythene (Visqueen or similar) suitably and sufficiently ballasted with tyres or similar to prevent it being dislodged by the wind.
- 7.31 Once analytical information indicates that the contamination has been reduced to an acceptable degree (in accordance with the thresholds set by the Remedial Strategy), the material will be incorporated into the works in a location agreed with a supervising geo-environmental engineer.

Topsoil Strip.

- 7.32 Using the bucket attachment on the excavator or using the Dozer the existing topsoil will be stripped and stockpiled in an agreed location.

Crushing activities

- 7.33 Mobile crushing and screening plant will be used throughout the contract period.
- 7.34 The material to be crushed will be processed where necessary using excavator-mounted hydraulic breakers or pulverisers.
- 7.35 The crushing plant will be fed by a 360° excavator. Oversize material will be sized in the jaw crusher to generate a crushed product to the requirements of the specification. Remaining reinforcement will be removed from the discharge conveyor by an over band magnet discharging into a skip unit.
- 7.36 The crushed product will be removed to stockpile by a rubber tyred or tracked loading shovel or excavator or will be placed in stockpiles directly from the crusher / screener using conveyor belt stackers.

- 7.37 These stackers can be raised and lowered and moved easily to allow the material to be quickly and safely stockpiled directly from the crushing and screening operations without the need for additional heavy plant.
- 7.38 The equipment to be utilised shall be licensed by a local authority. A water supply shall be connected to the dust suppression apparatus of the crusher which shall always be operational during the crushing. No crushing is to take place until the dust suppression system is functioning. If a water source cannot be connected to the crusher additional equipment in the former of a tractor and water bowser will be utilised to damp down the materials for processing and when required provide a water dust suppression covering onto the crushed materials either when being crushed or during stockpiling.
- 7.39 The following requirements will apply to the operation of the mobile crusher:
- No attempts shall be made to defeat any safety device
 - No guard shall be removed from any part of the crusher or screen unit whilst the system is in operation and suitable 'nip' protection will be provided.
 - During normal operation, the crusher operator will periodically check that: -
 - There is no undue vibration of the crusher
 - There are no signs of overheating
 - The crusher is working correctly
 - The emergency stop is operational
 - No attempts shall be made to remove any obstruction from the lump breaker unless the power to the infeed unit, the discharge conveyor and the crusher has been isolated and clocked off.
- 7.40 All maintenance work to the crusher or screen unit other than routine lubrication via properly designed external connections will be undertaken under lock-off conditions, i.e. the person undertaking the work will close down and remove from the unit the isolator key. A sign stating 'Maintenance Working Operation' will be hung in a prominent position adjacent to the key location. The isolator key will be carried by the maintenance engineer or crusher operator

Importation and Regrading

- 7.41 Excavators in the range 20 – 30t will reduce ground levels where (following the work described above) this is above the designed post-remediation formation level. The material generated by this operation will be formed into stockpiles by the excavator and loaded onto articulated dump-trucks for relocation to areas on site which are lower than the designed post-remediation formation level.
- 7.42 The articulated dump trucks will deposit the fill material in fill areas and a tracked excavator will spread the material into layers of even thickness.
- 7.43 The site has a shortfall of available fill materials and suitable fill materials will be imported using 8 wheeled road wagons to achieve proposed levels.
- 7.44 Materials will access the site using agreed traffic routes as stipulated via the traffic management plan and utilise the temporary site access.
- 7.45 It may be necessary to transfer materials to site dumpers and where required, this will be undertaken using the temporary hardstand located adjacent to the site compound.
- 7.46 Materials will be transported to deposition areas and placed using the tracked dozer.

- 7.47 Compaction of the fill will be in accordance with HA Specification for highway works and the Lithos Consulting Specification.

Preparation of adoptable highways

- 7.48 Excavators in the range 20 – 30 tonnes with bucket attachments and or the dozer with scraper box will systematically excavate at least 2m of made ground beneath adoptable highways.
- 7.49 Arising's will be transferred from the excavation to the deposition area using a articulated dump truck (ADT) in the range 25 - 30 tonnes. The haul route will be identified on the traffic management plan.
- 7.50 Materials will be placed in layers using tracked excavators and/or shovels/dozers with thickness to be determined in accordance with the compaction capabilities of the plant employed.
- 7.51 Placed materials will be subject to compaction in accordance with the Highways Agency Specification for Highway Works.
- 7.52 Following completion of backfilling, a 200mm thick layer of site won aggregate will be placed and compacted on the formation materials (where available until exhausted). Compaction will be in accordance with the Highways Agency Specification for Highway Works.
- 7.40 Source approval and performance testing will be in accordance with Series 600 of the HA Specification for Highway Works.

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**EAST COAST
CONSTRUCTION
& REGENERATION**

CIVIL ENGINEERING

REMEDIATION

GROUNDWORKS

DEMOLITION

APPENDIX 1: SITE RELEASE CHECKLIST.

SITE RELEASE (STOP / CHECK / REVIEW) FORM

Site name **Smithies, Wakefield Road, Barnsley**

ID	CONSTRAINT	CONFIRMED?	DATE	FOREMAN'S INITIALS
1	Client representative and ECC Operations Director agree boundary of site by a SITE VISIT			
2	Phasing / sequence of works agreed between client representative and ECC Operations Director.			
3	ECC given possession of site by client			
4	ECC Operations Director confirms CDM Construction Phase Health & Safety Plan on site			
5	ECC Operations Director confirms Method Statement on site			
6	ECC Operations Director confirms Risk Assessments on site			
7	ECC Operations Director confirms services plans on site			
8	ECC Operations Director confirms F10 on site			
9	ECC Operations Director confirms position of boreholes etc to be retained / protected			
10	ECC Operations Director confirms position of Trail Pits and borehole locations			
11	ECC Operations director confirms all service plans on site. Cat & Genny on site and double insulated tools			
12	ECC Operation director confirms all plant and equipment on site, traffic management / logistics plan			
13	ECC OPERATIONS DIRECTOR RELEASES SITE TO ECC MANAGER			
14	ECC Manager confirms suitable welfare facilities on site			
15	ECC Manager confirms sufficient boundary and other fencing on site			
16	ECC Manager confirms suitable water supply established (welfare & dust suppression)			
17	ECC MANAGER CONFIRMS SITE READY TO BECOME ACTIVE FOR WORKS TO COMMENCE.			

APPENDIX 2: RAMS INDUCTION RECORD / SIGNATURE SHEET.

HEALTH & SAFETY NOTE TO ALL PERSONS ENGAGED TO CARRY OUT ANY WORKS ON SITE ON BEHALF OF ECC

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IF IN DOUBT

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KEEP EVERYONE AROUND YOU SAFE!

NOTE: Personnel can receive induction into as many Method Statements/other Documents as needed but do not start work without receiving induction and 'signing on'

16