



Urban Regen

ESTABLISHED 2001



Urban Soil

SOLUTIONS

METHOD STATEMENT

**Excavation of Japanese Knotweed and
placement into burial cell. Belle Vue
Stadium.**

URBAN REGEN LIMITED

Ref No: 358/003

Drafted by A Smith Signed  (15-4-21)

Reviewed by Signed()

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1.0 Introduction & Background

The purpose of this method statement is to detail the requirements, arrangements and methodology for the excavation and on site burial of Japanese Knotweed on site at Urban Regen project at Belle Vue Stadium.

The scope of works include

- Excavate burial cell
- Excavate Japanese Knotweed loading Dumptrucks with Japanese Knotweed
- Place barrier in burial cell, Fill burial cell with knotweed backfill using excavated material and on site inert material
- Export impacted soils following Badger Sett Mitigation

Prior to any works being carried out, the details of the works methodology will be presented to all personnel.

2.0 General Health & Safety

Upon arrival at site all operatives, visitors and delivery drivers shall report to Urban Regen Site Office. A vehicular banks man will be in attendance for the reversing of all vehicles at the work location on site. This will be monitored by the UR Project Manager.

No HGV deliveries to site before 0800 or after 1800 Mon – Friday

All visitors and site personnel will undergo the Urban Regen site induction into the site health & safety procedures and systems in operation on this site.

Vehicle speeds and movements on site will be kept to a minimum (<15mph) during the movement of potentially impacted soils during the earthworks phase to reduce the potential to generate dust.

Competency certificates will be provided by all operatives prior to commencing work on site. All machines used on site will be tested and certified as necessary in accordance with PUWER Regulations 1998 with details /copies of certificates being kept in the site Health & Safety File.

Beyond the standard Urban Regen PPE of safety helmet, safety boots and fluorescent waist coat, any additional task specific mandatory PPE shall be supplied to operatives when and where required.

Welfare facilities are provided by Urban Regen. No smoking shall be allowed on site, and may only be permitted in an area designated by the Urban Regen site supervisor.

First Aid is located within Urban Regen Site Offices.

Emergency Muster location is situated at Urban Regen Site Offices Car Park

3.0 Environmental

The following additional environmental rules MUST also be applied on a site wide basis;

- Fuel shall be stored in bunded fuel tanks in the compound area, or other designated areas which will be sited well away from any watercourses or sensitive areas.
- Spill kits to be available at all times at work areas and at re-fuelling points
- All plant shall be regularly inspected for leaks. Any leaks shall be reported immediately and the plant parked up until repairs can be rectified.
- All plant will be parked in a position well away from adjacent properties as far as practicable overnight.
- All plant shall be switched off when not in use and not left idling or unattended with their keys in.
- Workers vehicles will be parked within the site adjacent to the site compound, parking will not be permitted on any adjacent roads leading into the site.

The nature of the site location, the number of domestic residences that will be sensitive to the level of activity generated by the development works, and the nature of the works required to mitigate identified constraints on the site will require careful consideration of potential mitigation measures and agreement with affected stakeholders and the Environmental Health Officer by Urban Regen.

4.0 Programme

The operation is anticipated to take approx 10 days, targeted commencement being 3-5-21. Works post badger mitigation measures tbc

5.0 Plant and Labour

Proposed but not limited to:

- 1 No 360' Excavators – c/w operator
- 1 no banksman
- 25t ADt c/w operator
- Heras type fencing
- Project Manager
- Welfare set up provided by Urban Regen:

6.0 PPE

Standard PPE requirements on site are:

- Hard Hats
- Safety Boots (with steel safety cap and mid-sole)
- Hi-vis reflective vest / jacket
- Gloves (when involved in manual handling)

7.0 Communication of Health & Safety Risks

All personnel on arrival to site will be given a Urban Regen site safety induction and brief on site working procedures. The new operative will be informed of the site rules, which will be displayed on the site Safety Notice Board.

Tool-box Talks will be held prior to each change of activity. The UR Project Manager will inform all site personnel about the potential risks and measures to be used to eliminate or reduce those risks to an acceptable level as a briefing of this RAMS.

No work will commence on site until a safe method of working has been established and approved by the Company

As part of the induction given to site personnel by the site manager, all persons involved will be asked if they understand what their responsibilities will be as part of these works.

The induction will also cover details of the site rules and procedures, the arrangements for their health and safety on site and information as to who the key duty holders are.

8.0 Methodology

8.1 Earthworks General Arrangements

Prior to any excavation works commencing a PERMIT TO DIG detailing the available service information on site will be issued by the Urban Regen/UR Project Manager.

Constraints

There is on site exclusion zone due to the presence of a badger sett. See sketch below.



Japanese Knotweed Stands that are found to be within in these areas (areas 1,2,3,4) will be excavated following the mitigation measures put into place. The likelihood is these areas will be excavated and exported from site.

Traffic Management

All traffic movements will gain access to the JKW via the existing roads within the development area. Please note that there maybe other construction activities and deliveries occurring on site and it is expected that all drivers remain courteous at all time.

Pedestrian Management

The activity involves the excavation of significant volumes of material. To mitigate the risk to pedestrian workers, pedestrians must remain within designated walking routes, only authorised access will be granted to the excavation area for the Knotweed. No unauthorised personnel will be admitted to the work area. (Ref Urban Regen Site Traffic Management Plan). Visitors to site must be accompanied by UR/Urban Regen personnel at all times.

Location of Japanese Knotweed at Belle Vue Stadium



Approx OS co-ordinates for the location of the knotweed

- Area 1 - SJ 87780 96025 - adjacent track fence in front of scoreboard building
- Area 2 - SJ 87776 95982 - 87807 95965 - long strip on banking in front of row of Privet*
- Area 3 - SJ 87886 95968 - area on southern boundary
- Area 4 - SJ 87918 95987 - area on southern boundary
- Area 5 - SJ 87939 96021 - small area located at end of concrete terrace adjacent track
- Area 6 - SJ 87982 96047 - area on tree-covered banking adjacent large, concrete terrace
- Area 7 - SJ 87987 06055 - 87997 96066 - large area on tree-covered banking adjacent large, concrete terrace
- Area 8 - SJ 87998 96076 - 87956 96115 - large stand of knotweed on banking immediately to rear of large, concrete terrace
- Area 9 - SJ 87983 96122 - area on banking adjacent fence / open gravel area in north east corner of site

The burial cell dimensions will vary according to the area to be placed (see sketch below). An estimated 2m cover from remediation level will be required to be placed over the top of the cell



Approx. locations of burial cells (TBC by CPPLC)

UR supervisor will brief machine operator and UR Project manager as to the location of each burial cell to be excavated and exported off site as per sketch above.

The removal of the Japanese Knotweed operation will be undertaken as follows;

- 1) Urban Regen to remove all materials and work equipment from the excavation location prior to mobilisation
- 2) Check all available service records.
- 3) UR Engineer set out location of burial cell. Excavate the burial cell. Sidecast inert material making sure not to overspill back into the excavation
- 4) Competent person to CAT scan the area using a Cable Avoidance Tool
- 5) Obtain 'Permit To Dig'
- 6) Erect fencing around worksite area.
- 7) A suitably qualified and experienced external Japanese Knotweed Supervisor (JKS) will be appointed to be on site throughout all of the below works
- 8) Using tracked 360-degree excavator, the Japanese Knotweed is to be excavated to its lateral and vertical extents as directed by the JKS who will be in attendance throughout to inspect the excavation
- 9) The Knotweed shall be excavated and placed into a 25 t adt dumptruck and transported to the burial cell. The burial cell shall have the barrier lining spread out and the excavated material placed upon it as directed by JKS. Upon completion the JKS shall encapsulate the excavated material

Pic 5 – Cell lining



typical burial cell JKW impacted material covered in Cutex geomembrane

- 10) UR project manager will log all movements into a material management plan.
- 11) Backfill the resultant void with suitable materials taken from Urban Regen stockpile of ground fills.
- 12) Backfill the burial cell
- 13) Verification report that all of the Japanese Knotweed has been removed to be submitted to Urban Regen

In the event unusual ground conditions/different visual works will cease immediately and a UR Project Manager informed

9.0 Risk Assessments

The following Risk Assessments are attached:

Earthworks
Refuelling
Risk Management of Underground Services

10.0 Briefing Arrangements

The designated Urban Regen site supervisor will brief all personnel regarding the site as part of the general site induction / briefing prior to any works commencing. (see sheet below) A toolbox talk on Japanese Knotweed will be conducted by Urban Regen Supervisor.



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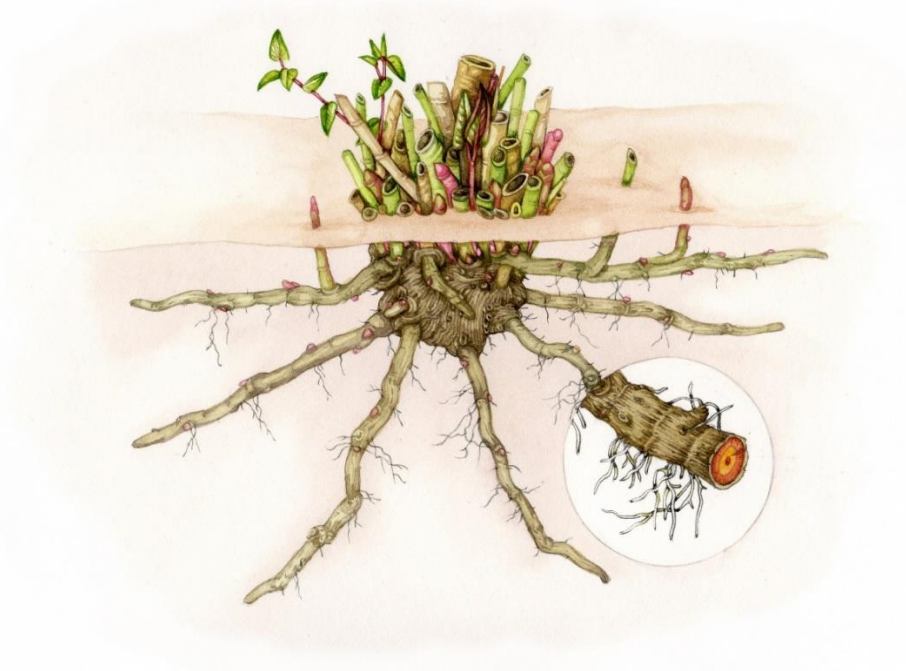
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Toolbox Talk

Working within areas impacted with Japanese Knotweed



Japanese Knotweed is an Invasive Non-Native Species that can cause significant damage to structures and services. It is a criminal offence to cause the spread of this plant.



As tall as it is when it is mature (7-8 feet tall) this may only be about 1/3 of the total plant material i.e. 2/3 underground root system!

It is the movement of the underground roots or rhizome material that generally cause the spread of the plant.

You only need a piece roughly the size of your finger nail of active rhizome to move from one place to another for a new plant to begin to grow!

This can be in the soil and can be moved via the tracks of an excavator, the tread of a wheel or even attached to a work boot.

We must ensure we carry out the excavation, movement of knotweed-contaminated soil or work within impacted areas with extreme care. The cross contamination of residential sites with Japanese Knotweed can lead to significant financial consequences.

You should think of getting knotweed on the tracks of the digger / wheels of the dumper / sole of your work boot, in the same way as treading in dog muck - you don't want it to happen and if it does then you must clean it off immediately!

That means go steady! Don't over fill the excavator bucket / dumptruck or wagon and load in a steady manner, to avoid spillages while loading or in transit.

When tipping ensure that the wheels of the dumptruck keep off impacted soils – if the wheel comes into contact with impacted soils they **MUST** be decontaminated before moving off.

A tipping off ramp will be created for the dumptruck to reverse onto to tip the material out for the receiving excavator to pull away from the entry point without risking putting the rear tyres into a contaminated area **AND** a banksman must ensure that the dumptruck does not go beyond the "clean" ramp into the contaminated area.

We **MUST** avoid wherever possible, tracking excavators into knotweed areas and where works are required in large areas of Knotweed ALL plant must be washed down and cleaned prior to inspection by the site invasive species supervisor, before leaving the contaminated area

No plant should be driven into a Knotweed area without the presence **AND** authorisation of the invasive species supervisor.

Where tree stumps cannot be buried with the Knotweed on site or have to be removed from the soil prior to off-site disposal at landfill then a thorough cleaning off of excess soil from rootballs must take place.

The invasive species supervisor will carry out a close examination and declare the tree stumps / rootballs 'clear' once they are happy no further Knotweed rhizomes are present.

Only authorised people should enter the Knotweed areas and upon exiting should thoroughly inspect their boots for excess soil that may contain Knotweed rhizome material.

Once any excess soil is removed (and retained within the area) a thorough inspection should take place.

Only once the invasive weed supervisor has declared the area clear of knotweed material can the area be entered into by machine or on foot.

Failure to follow these procedures will lead to personnel being removed from site.

We must at all costs avoid this:



If there have any questions regarding the knotweed or you are unsure about any aspect of what is required do not proceed until you have spoken with the invasive species supervisor.

METHOD STATEMENT INDUCTION REGISTER

This is to certify that I have read or had read to me the attached Method Statement

NAME	COMPANY	INDUCTION DATE	SIGNATURE