

MS-OP 001: Method Statement for the excavation and disposal of Japanese Knotweed contaminated soils

Operations/Works to be Carried Out:	<ul style="list-style-type: none"> - Supervision of Excavations to remove all Japanese Knotweed contaminated soils from site
Season:	<ul style="list-style-type: none"> - Any
Site Conditions: (which may possibly affect the method)	<ul style="list-style-type: none"> - Dry compacted ground. - Other Sub-Contracted Operations - Proximity of possible surrounding obstructions i.e. trees - Adverse weather conditions (extreme heat or heavy rain or snow)
Plant/Machinery/ Equipment.	<ul style="list-style-type: none"> - 14t Excavator - 8 Wheel tipper Wagons - Appropriate test certificates for all plant, machinery and equipment used in the operation shall be checked by Ebsford prior to works starting. - Daily/Weekly inspections to be carried out by Ebsford
Operatives Certificates and Training	<ul style="list-style-type: none"> - Contracts Manager SSSTS - CSCS - First aid - CPCS card relevant to category of plant being operated - Valid MOT and road worthy Wagons. - Waste Transfer notes

**Method &
Safe Working Practice:**

Preliminaries:

- Assess conditions on site and liaise with client or site manager concerning any site-specific hazards.
- An onsite Health and safety risk assessment will be completed at the start of each week before work commences and refreshed as required.
- Client supplied site drawings to be assessed for services
- Ebsford to carry out a full CAT and Genny survey on areas to be excavated before works start, any buried services found within the work area are to be physically marked out and measures put in place to manage excavations around them.
- Permit to dig must be in place before any works can start and all personnel involved in this operation must have been briefed on the permit to dig and this method statement.
- When the permit to dig has been checked and work is ready to commence a Tool box talk will be given to all operatives that are involved with the excavating of the Japanese knotweed with the following points.
- **360 Operator**
- Always follow the instructions/pre-agreed hand signals of the Ebsford appointed person when excavating Japanese Knotweed
- Do not over fill Wagons to prevent spillage of contaminated soil. 90% max
- Do not track Machine into contaminated areas this will prevent knotweed rhizomes being spread around the site

For other operatives involved within the operation.

- Always follow the instruction of the Ebsford operative when in contaminated areas.
- Clean all boots and equipment that comes in contact with the soil in the knotweed areas. Must be carried out under supervision of Ebsford.
- Please note any machinery involved within the excavations of the Japanese Knotweed must not pass between dirty and clean areas without being cleaned down and inspected by Ebsford.

Sequence of Work:

- Ebsford to mark out extent of Japanese Knotweed, all Knotweed identified on site will be excavated and removed.
- The excavator will dig down in layers with the formation of each layer and sides of the excavation being visually inspected by Ebsford. The material will be placed directly into Wagons for disposal.
- The wagons will reverse into position as instructed by Ebsford to avoid entering contaminated areas, when the wagon has come to a complete stop and the driver has signalled he has engaged his handbrake the loading will begin.
- As the excavation deepens it will be necessary to ensure the wagons keep a safe distance from the edge of the excavations.
- The wagon will only be loaded to 90% capacity to avoid any spillages while in transit, the wagons sheet must be in place before leaving site.
- The area will then be checked for any spillages, any spillages will be placed in the next wagon.
- The above process will be repeated until all Knotweed material has been removed.
- Where Knotweed cannot be fully excavated (along site boundaries) a vertical root barrier will be installed to avoid the JK re-infesting the site (a detailed drawing of this will be provided should this be the case)
- All plant, tools and equipment used during the process will be cleaned under the supervision of Ebsford, as the excavator will not have to track over any JK infestation only the bucket of the machine will require cleaning, this will simply be done with brushes and shovels, any contaminated material will be placed in the last wagon to leave site.
- All excavations that take place will be made safe at the end of every working day, all sides of the excavations will be battered to a safe angle of repose to allow pedestrian (walking) access in and out of the excavations, unless backfill has been specified this will be achieved by taking scrapes from other areas of site.

Summary

- If the work is undertaken during the growing season, it is advisable to spray the knotweed with a herbicide two weeks before the operation.
- Ensure a supervisor who is experienced with knotweed rhizome identification supervises the work at all times.
- Ensure all wagons have an adequate seal to prevent contaminated material being lost in transit, as well as ensuring the wagon sheets are fully secure.
- All wagons should be thoroughly cleaned and contaminated material removed after use. This must be done before the wagon has left the tip and all dislodged material included within the knotweed waste.

<p>Storage:</p>	<ul style="list-style-type: none"> - All equipment to be stored in clean, dry, secure conditions. - Site compound to be set up for the storage of any machinery used.
<p>After care:</p>	<ul style="list-style-type: none"> - As per contract specification.
<p>Proposed Control Measures to reduce Risks onsite.</p>	<ol style="list-style-type: none"> 1. The Ebsford member of staff to be briefed on the system of work in operation for this project. 2. All plant, machinery and equipment shall be visually inspected prior to works commencing. 3. Appropriate test certificate shall be available for all plant, machinery and equipment. 4. Ebsford appointed supervisor shall have received formal training in health and safety management and risk assessment. 5. Tool box talks 6. Site inductions 7. Daily briefings <p>Permits Required:</p> <ol style="list-style-type: none"> 1. Permit to Dig <p>Overall Assessment of risk after implementation of control measures: Low.</p> <p>Personal Protective Equipment:</p> <ol style="list-style-type: none"> 1. Safety Helmet EN 397 2. Protective footwear EN 345 3. High-visibility clothing EN 471 4. Gloves EN 388 5. Safety Glasses EN 166

	<p>Emergency Arrangements:</p> <ul style="list-style-type: none"> - Ebsford shall appoint an authorised person who is given the responsibility to ensure that all necessary safety precautions are followed and will remain in this supervisory role for the duration of the work. - A Trained first-aider and/or Appointed Person shall be on hand at all times and for the duration of the work. - In summoning assistance call 999, site details are in the job pack carried by the site supervisor <p>Contractor Information:</p> <p>Method Statement checked by Ebsford - appointed authorised person.</p> <p>Contractor Monitoring and Compliance:</p> <p>Ebsford site staff will ensure compliance with the Method Statement.</p>
<p>COSHH</p>	<ul style="list-style-type: none"> - Diesel - Fuels and Oils.

