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## Job Safety and Environmental Analysis (JSEA) / Job Hazard Analysis (JHA) The Sample Company Pty Ltd

#### Part 1: Project and Task Identification

**Process** Initiators of JHAs are responsible for consulting the Project Supervisor, Quality OSH Manager or other persons directly in charge of the work and other personnel involved in the execution of the task (as appropriate) for input into the JHA. Other persons may be consulted for technical advice or review of the JHA to see that proposed measures are effective and workable. The task is to be broken up into steps. For each step, the safety hazards are identified. For each of the hazards identified, corrective action, precautions, equipment are identified to reduce the hazard. All involved in the task must review and sign this JHA form.

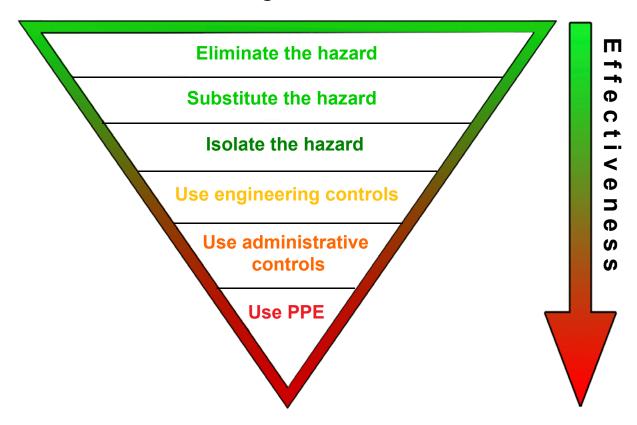
| Client: TotalTrack Pty Ltd               | I                                     |                |                 |                  |               |                               |
|--|---------------------------------------|----------------|-----------------|------------------|---------------|-------------------------------|
| Site: 4800 Neponset Str                  | reet, Denver CO 80202                 |                |                 |                  |               |                               |
| Contact Name                             | Job Title                             | Phone          | Mobile          | FAX              | Email         |                               |
| Scott LeBlanc                            | Director                              | +61 8 7070 616 | +61 408 831 550 | 08 8261 9977     | scott@totalti | rack.com.au                   |
|  |                                       |                |                 |                  |               |                               |
|  |                                       |                |                 |                  |               |                               |
| JHA Initiated By                         | Sample Guy                            | Dat            | te:             | <b>JHA No.</b> 3 | Rev: 0        | <b>Rev. Date</b> : 12/10/2018 |
| Supervisor Review                        | Sample Guy                            | Dat            |                 | Nork Locations/  | Areas:        |                               |
| Management Review                        | Sample Guy                            | Dat            | te:             |                  |               |                               |
| Description of Work In to be Undertaken: | nstallation of underfloor plumbing ar | nd drains      |                 |                  |               |                               |

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First, identify and assess the risks, then decide the best way to control them by applying the Hierarchy of Control as follows:

| LEVEL   | CONTROL                       | DEFINITION  |
|---------|-------------------------------|---|
| Level 1 | Elimination                   | Controlling the Hazard at source                              |
| Level 2 | Substitution                  | Replacing one substance or Activity with a less hazardous one |
|         | Isolation                     | Separating the hazard from the person                         |
|         | Engineering                   | Installing Guards on machinery                                |
| Level 3 | Administration                | Implementing policies and procedures for safe work practices  |
|         | Personal Protective Equipment | Use of safety glasses, hardhats, protective clothing, etc.    |

# Hierarchy of Controls



| Personal Qualifications and Experience<br>Required To Carry Out the Works:                                 | Duties and Responsibilities of Personnel<br>Completing the Task: | Formal or Specialised Training or<br>Licenses Required to Complete Work or<br>Operate Specific Plant or Equipment: |
|--|--|--|
| Plumbing Certification (Preferred) or a competency level of working with copper, UPVC and allied materials | Reporting of any injuries / incidents to your Project Supervisor | Heavy Vehicle Drivers licence with a class equal to or greater than the required for the mass of the truck         |
| Certificate III in Civil Construction Plant Operations   | Adherence to company's and the site's WH&S policies              | Excavator Training & Assessment  |
| (Preferred) or a competency level of plant operation   | and procedures   | Competency in the Safe Operating Procedure of the  |
| Completion of White Card Induction   | Maintain adequate house-keeping on site                          | selected power tools   |
| The ability to work unsupervised and part of a team  | Operate safely and perform daily pre-shift inspections           | Heavy Equipment Operator Training and Assessment   |
| Certificate III in Plumbing (Preferred) or a competency  | Take reasonable care for the health and safety of others         | -  |
| level of working with UPVC and allied materials  | Take reasonable care for your own health and safety              | -  |

|     |            | JHA Sign Off – Your sigr<br>the JHA and accept a | nature below indicates that you have been consulted ir<br>nd will implement the requirements of the JHA and cor | n development of<br>ntrol measures |      |
|-----|------------|--|---|------------------------------------|------|
| No. | Name       | Classification                                   | Employed By   | Signature                          | Date |
| 1   | Sample Guy | Plumber  | The Sample Company Pty Ltd  |                                    |      |
| 2   |            |  |   |                                    |      |
| 3   |            |  |   |                                    |      |
| 4   |            |  |   |                                    |      |
| 5   |            |  |   |                                    |      |
| 6   |            |  |   |                                    |      |
| 7   |            |  |   |                                    |      |

|             | Job Safety and E  | nvironmental Analysis (JSEA)  |                | Job Hazard Analys  | sis (JHA              | )               |
|-------------|---|---|----------------|--|-----------------------|-----------------|
| Step<br>No. | Process Steps List the steps needed to do the job in the sequence to be done. | Potential Hazard(s)  Against each step list potential hazards that could cause injury when the job is done. | Risk<br>Rating | Hazard Control Measures For each hazard, identify control measures to eliminate or minimise the risk of injury.                    | New<br>Risk<br>Rating | Action By       |
| 1           | Undertake Clients general all site  | es induction  |                |  |                       |                 |
| 1.1         | Undertake a site induction  | Unfamiliarity with emergency procedures   | 14             | Listen and ensure you obtain information and site emergency and evacuation procedures  | 1                     | All             |
|             |   | Unawareness of site specific hazards  | 14             | Listen and ensure you obtain information about any and all site hazards  | 1                     | All             |
|             |   | Unawareness of restricted areas   | 18             | Listen and ensure you obtain information about any restricted areas  | 1                     | All             |
|             |   | Unawareness of other operations or hazardous activities being undertaken on site                            | 9              | Listen and ensure you obtain information about any other activities being undertaken on site                                       | 5                     | All             |
| 2           | Arrive at domestic site with truck  | and trailer and establish unloading area  |                |  |                       |                 |
| 2.1         | Park truck on site of road  | Obstructing traffic   | 2              | Check for clearways and bike lanes   | 1                     | Driver          |
|             |   |   |                | Do not block people's driveways  | 1                     | Driver          |
| 2.2         | Set up unloading area   | Being hit by motor vehicles   | 19             | Watch for oncoming traffic   | 3                     | All             |
|             |   |   |                | Always wear Hi visibility clothing   | 1                     | All             |
|             |   |   |                | Set up hi visibility temporary bollards or cones   | 1                     | Driver          |
| 3           | Claim Work Area   |   |                |  |                       |                 |
| 3.1         | Access the site   | Breaching minimum site PPE requirements   | 13             | HI visibility clothing must be worn at all times whilst on site  | 1                     | All             |
|             |   |   |                | Steel toe safety boots must be worn at all times whilst on site  | 1                     | All             |
|             |   |   |                | Safety glasses must either be worn or carried at all times whilst on site  | 1                     | All             |
|             |   | Breaching site rules or requirements  | 13             | NO SMOKING on site-designated smoking area will be available and ALL butts to be placed in bin                                     | 1                     | All             |
|             |   |   |                | Progressive housekeeping clean as you go   | 1                     | All             |
| 3.2         | Establish safe perimeter  | People entering work area   | 21             | Controlled by Site Manager   | 5                     | Site Supervisor |
|             |   |   |                | Bunting or Caution tape shall define the work area by providing a 3 meter barrier or denying access whichever is more appropriate. | 3                     | All             |
| 4           | Unload skid steer excavator from  | trailer/ truck using aluminium ramps  |                |  |                       |                 |
| 4.1         | Place ramps in position   | Muscle strain - musculoskeletal disorders   | 13             | Ensure correct manual handling procedures  | 3                     | Installer       |

|             | Job Safety and En   | vironmental Analysis (JSEA)   |                | Job Hazard Analy  | sis (JHA)             | )               |
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|             |   |   |                | Keep Load close to body   | 5                     | All             |
|             |   | Dropping components   | 17             | Ensure a firm grip  | 2                     | All             |
|             |   |   |                | Wear safety boots   | 3                     | All             |
|             |   | Ramps may strike personnel  | 7              | Ensure locating pins are securely in place  | 3                     | Operator        |
| 4.2         | Release machine restraints  | Machine may move  | 4              | Ensure machine is stable before tie down tension is released  | 1                     | Driver          |
|             |   |   |                | Ensure truck is parked on level hard surface  | 1                     | Driver          |
|             |   |   |                | Due care by personnel   | 5                     | All             |
| 4.3         | Board the Machine   | Falling from machine  | 14             | Gain access and egress from the manufactured entry/ exit opening only   | 2                     | Operator        |
|             |   |   |                | Keep three points of contact during access and egress   | 2                     | Operator        |
| 4.4         | Unload and drive machine to ground  | Machine can tip, slip or fall down ramps  | 9              | Ensure firm ground  | 3                     | Operator        |
|             |   |   |                | Experienced and competent operator with VOC to perform task   | 5                     | Operator        |
| 4.5         | Moving or driving the machine   | Injury to people, damage to product or equipment from running into or over                                  | 13             | Only trained and authorised employees with VOC may operate this equipment                                       | 3                     | Driver          |
| 5           | Acceptance of delivery to site for  | materials   |                |   |                       |                 |
| 5.1         | Establish area to accept delivery   | Other trades and or persons wanting to use area   | 11             |   |                       |                 |
| 5.2         | Direct vehicle to appropriate area  | Running into objects and or persons   | 13             | Place "spotter" to watch path of truck  | 3                     | Site Supervisor |
| 5.3         | Untie load if secured   | Load tipping or falling   | 12             | Release straps slowly to ensure load does not move  | 3                     | Driver          |
| 5.4         | Receive goods manually  | Muscle strain - musculoskeletal disorders   | 13             | If materials are of a considerable length or weight then ensure a 2 (or more) person lift and carry             | 3                     | All             |
|             |   |   |                | Do not over reach   | 3                     | All             |
|             |   |   |                | Ensure correct manual handling procedures   | 3                     | All             |
| 6           | Marking Out Ground  |   |                |   |                       |                 |
| 6.1         | Measure from datum point  | Other trades entering work area   | 2              | Arrange clear access Flag off the work area to prevent entry, if necessary                                      | 1                     | All             |
|             |   |   |                | Notify persons entering the area your intentions to close off area  | 1                     | All             |
| 6.2         | Set out string line   | Tripping hazard   | 12             | Use high visability string line   | 4                     | All             |

|             | Job Safety and En   | vironmental Analysis (JSEA)   | Job Safety and Environmental Analysis (JSEA) |  |                       |                 |  |
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|             |   | Striking hand or body part  | 9  | Concentrate on object  | 2                     | Operator        |  |
|             |   |   |  | Hold pin at a lower point  | 2                     | Operator        |  |
|             |   |   |  | Use correct PPE - Gloves   | 1                     | Operator        |  |
| 7           | Safety check and operation of Exc   | cavator for trenching and excavations   |  |  |                       |                 |  |
| 7.1         | Safety check of unit. Fill out Pre-trip/                                      | Faulty equipment machine failure  | 14   | Check for dents, cracks and faulty welds   | 3                     | Operator        |  |
|             | Daily Inspection  |   |  | Check all hydraulic rams and lines, controls for leaks   | 3                     | Driver          |  |
|             |   |   |  | Check all safety devices   | 3                     | Operator        |  |
|             |   |   |  | Check for leaking Fuids  | 1                     | Operator        |  |
|             |   |   |  | Check tracks for tightness and rollers, idlers, and sprockets for damage   | 3                     | Plat Operator   |  |
| 7.2         | Boarding the machine  | Falling from Ladder   | 23   | Ensure 3 points of contact   | 3                     | All             |  |
| 7.3         | Operating / traveling with or without a<br>load                               | Injury to people, damage to product or equipment from running into or over                                  | 13   | Only trained and authorised employees with VOC may operate this equipment  | 3                     | Driver          |  |
|             |   | Thrown out of cab or against cab interior   | 13   | Always wear seatbelt   | 1                     | Plat Operator   |  |
|             |   | Personal Injury   | 20   | Allow no one to ride outside of the cab  | 1                     | Plant Operator  |  |
|             |   |   |  | Never use the basket or other attachments as a staging platform for workers  | 1                     | Plant Operator  |  |
|             |   | Tipping over  | 19   | Be alert for trenches, open cuts, sump holes and pits  | 2                     | Driver          |  |
|             |   |   |  | Keep the machine as level as possible when operating   | 3                     | Operator        |  |
|             |   | Electrocution   | 25   | Always check for overhead power lines  | 1                     | Driver          |  |
| 7.4         | Dig   | Digging up underground services   | 18   | Dial 1100 before you dig   | 5                     | Supervisor      |  |
|             |   |   |  | Any suspected services should be uncovered by hand digging and clearly marked so as to be visible to plant operators on site | 2                     | Site Supervisor |  |
|             |   |   |  | Obtain service location from property owner  | 3                     | Supervisor      |  |
|             |   | Ground collapse   | 22   | If excavations exceed 1.5m no persons should work in the trench without support  | 3                     | Site Manager    |  |
|             |   |   |  | If excavations exceed 1.5m undertake benching , battering or shoring   | 2                     | Site Manager    |  |
| 7.5         | Load the truck  | Running over someone  | 15   | Be aware of everyone's location in the work area   | 5                     | Plant Operator  |  |

| Job Safety and Environmental Analysis (JSEA) |   |   |                | Job Hazard Analysis (JHA)   |                       |                 |  |
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|  |   | Dropping material on cab and driver   | 9              | Do not move bucket near cab of truck.   | 3                     | Plat Operator   |  |
|  |   | Uneven loading may affect control of truck  | 13             | Load truck evenly   | 5                     | Plat Operator   |  |
| 7.6  | Backing up  | Reversing/ Running over people and equipment and not very good visual                                       | 22             | Make sure that your back up alarm is working  | 5                     | Driver          |  |
| 8  | Dig/ clean trench by hand   |   |                |   |                       |                 |  |
| 8.1  | Dig into ground with Shovel   | Digging up underground services   | 18             | Dial 1100 before you dig  | 5                     | Supervisor      |  |
|  |   |   |                | Obtain service location from facillity manager  | 5                     | Supervisor      |  |
|  |   | Muscle strain - musculoskeletal disorders   | 13             | Do not over reach with shovel   | 3                     | Operator        |  |
|  |   | Environmental - Disturbance to Plants or animals - removal of vegitation                                    | 17             | Ensure fragile vegetation is removed carefully for reinstatement  | 1                     | All             |  |
|  |   | Environmental - Dust  | 16             | Wet down area in dry dusty conditions   | 1                     | All             |  |
|  |   | Environmental - Spreading of Weeds and pests  | 4              | Contain weeds if present for disposal   | 3                     | All             |  |
| 8.2  | Check gradient by laying pipe into trench and setting level                   | Moving Machinery  | 21             | Ensure constant communication with coworkers  | 5                     | Operator        |  |
|  |   |   |                | Wear Hi visibility clothing   | 1                     | All             |  |
|  |   | Falling into trench   | 13             | Be aware of loose edges   | 2                     | All             |  |
|  |   |   |                | An additional SWMS must be developed for shaft or trench with an excavated depth of greater than 1.5 metres     | 5                     | Site Manager    |  |
| 9  | Installation of UPVC Pipe   |   |                |   |                       |                 |  |
| 9.1  | Cut pipe to length with hand saw  | Cut through body parts  | 18             | Ensure the user has been inducted with SOP  | 2                     | Site Supervisor |  |
|  |   |   |                | Ensure opposite hand is well clear of cutting area  | 5                     | Plumber         |  |
|  |   | Environmental - Waste Generation  | 11             | Measure twice and cut once  | 3                     | All             |  |
| 9.2  | Apply Cleaning Fuid to Pipes  | Inhalation of toxic and noxious fumes   | 25             | Provide adequate fan forced ventilation   | 3                     | Operator        |  |
|  |   |   |                | Read SDS to know the specific hazards of the substance you are using  | 1                     | All             |  |
|  |   | Skin irritation   | 7              | Wash hands immediately if contact with skin occurs  | 1                     | All             |  |
| 9.3  | Apply glue to pipe ends   | Inhalation of toxic and noxious fumes   | 25             | Ensure adequate ventilation   | 1                     | All             |  |
|  |   |   |                | Read SDS to know the specific hazards of the substance you are using  | 1                     | All             |  |
|  |   | Skin irritation   | 7              | Refer to manufacturers Safety Data Sheet  | 1                     | All             |  |

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|             |   |   |                | (SDS) prior to commencement  Wash hands immediately if contact with skin occurs  | 1                     | All             |
|             |   | Environmental - Spills to land contamination  | 8              | Immediately clean up any spillage  | 1                     | All             |
| 9.4         | Fit pipes together  | Skin irritation   | 7              | Wash hands immediately if contact with skin occurs   | 1                     | All             |
| 10          | Dig final connection trench using   | an excavator  |                |  |                       |                 |
| 10.1        | Dig   | Digging up underground services   | 18             | Dial 1100 before you dig   | 5                     | Supervisor      |
|             |   |   |                | Any suspected services should be uncovered by hand digging and clearly marked so as to be visible to plant operators on site | 2                     | Site Supervisor |
|             |   |   |                | Obtain service location from property owner  | 3                     | Supervisor      |
|             |   | Ground collapse   | 22             | If excavations exceed 1.5m no persons should work in the trench without support  | 3                     | Site Manager    |
|             |   |   |                | If excavations exceed 1.5m undertake benching , battering or shoring   | 2                     | Site Manager    |
| 10.2        | Load the truck  | Running over someone  | 15             | Be aware of everyone's location in the work area   | 5                     | Plant Operator  |
|             |   | Dropping material on cab and driver   | 9              | Do not move bucket near cab of truck.  | 3                     | Plat Operator   |
|             |   | Uneven loading may affect control of truck  | 13             | Load truck evenly  | 5                     | Plat Operator   |
| 10.3        | Backing up  | Reversing/ Running over people and equipment and not very good visual                                       | 22             | Make sure that your back up alarm is working   | 5                     | Driver          |
| 11          | Working in open trench  |   |                |  |                       |                 |
| 1.1         | Gain access to trench   | Ground collapse   | 22             | If excavations exceed 1.5m no persons should work in the trench without support  | 3                     | Site Manager    |
|             |   |   |                | If excavations exceed 1.5m undertake benching, battering or shoring  | 2                     | Site Manager    |
| 12          | Cut into existing earthenware bran  | nch using and angle grinder   |                |  |                       |                 |
| 12.1        | Choose the right size grinder for the job                                     | Grinder too large could grab or jam and kick back causing horrific injury or property damage                | 20             | Choose the right size grinder  | 3                     | Operator        |
| 12.2        | Check the grinder for condition   | Machinery Failure   | 17             | Perform Pre operational checks on Machine  | 1                     | Operator        |
| 12.3        | Check if the wheel is for cutting or grinding of the wheel                    | Wheel could disintegrate causing injury to presons or property  | 18             | Make sure the correct wheel is used  | 3                     | Operator        |
| 12.4        | Check condition of wheel  | Disc shattering   | 18             | Visually inspect for cracks, nicks and blisters  | 2                     | Operator        |

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| 12.5        | Check that the wheel is designed for the machine   | Wheel could disintegrate causing injury to presons or property  | 18             | Make sure it is the right wheel in good condition for the machine and job, size revolution speed                 | 3                     | Operator    |
| 12.6        | Check that the wheel is suitable for intended purpose  | Wheel could disintegrate causing injury to presons or property  | 18             | Make sure that the wheel suits the specific needs i.e. Metal or Stone etc.                                       | 3                     | Operator    |
| 12.7        | Check that the correct wheel flange washer and locking nuts are fitted correctly                                     | Wheel could disintegrate causing injury to presons or property  | 18             | Make sure the wheel is tight using the appropriate tools and sitting properly on the machine                     | 3                     | Operator    |
| 12.8        | Check that the grinder has an automatic cut off or dead man switch so power is cut off as soon as finger is released | Personal Injury   | 20             | If grinder is not fitted with this feature have one fitted. Do not use the grinder                               | 3                     | Operator    |
| 12.9        | Check that wheel guard is firmly fixed in place  | Eye Damage  | 20             | Ensure Guard is firm and in correct position   | 2                     | Operator    |
| 12.10       | Make sure that work area is accessible and clear of flammable product and personnel                                  | Cramped work conditions   | 15             | Clean area underfoot and around work area  | 3                     | Operator    |
| 12.11       | Line of fire   | Sparks and debris harming personnel   | 23             | Ensure that operating stance is not in line with sparks, debris  | 3                     | Operator    |
| 12.12       | Check that PPE is in a satisfactory condition utilised   | Eye Damage  | 20             | Ensure correct use of PPE – Safety Glasses   | 3                     | All         |
| 12.13       | Grip the machine and allow to run up before applying it to the job   | Machine jamming or kicking back   | 25             | Make sure correct grip if formed utilising the handle  | 3                     | Operator    |
| 12.14       | Do not apply pressure while using the grinder  | Machine jamming or kicking back   | 25             | Let the machine do the work  | 3                     | Operator    |
| 12.15       | Continuous use of the grinder  | Blade jamming or shattering   | 25             | Have breaks and allow machine time to cool down  | 3                     | Operator    |
| 12.16       | Changing disc on grinder   | Machine starting up   | 25             | Unplug before changing the wheel   | 3                     | Operator    |
| 13          | Connect pipes together using a fle   | xible connector   |                |  |                       |             |
| 13.1        | Slide the flexible connector over the end of the pipe  | Cuts and lacerations  | 16             | Clean ends of pipes to remove all burrs and sharp edges prior to installation                                    | 2                     | Plumber     |
| 13.2        | Slide the flexible connector into final position   | Cuts and lacerations  | 16             | Clean ends of pipes to remove all burrs and sharp edges prior to installation                                    | 2                     | Plumber     |
| 13.3        | Tighten clamps   | Pinch point injury  | 14             | Ensure opposite hand is well clear   | 3                     | Steel fixer |
| 14          | Back Fill trench using excavator w   | rith original spoil   |                |  |                       |             |
| 14.1        | Boarding the machine   | Falling from Ladder   | 23             | Ensure 3 points of contact   | 3                     | All         |

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| 14.2        | Operating / traveling with or without a load                                  | Injury to people, damage to product or equipment from running into or over                                  | 13             | Only trained and authorised employees with VOC may operate this equipment                                       | 3                     | Driver         |
|             |   | Thrown out of cab or against cab interior   | 13             | Always wear seatbelt  | 1                     | Plat Operator  |
|             |   | Personal Injury   | 20             | Allow no one to ride outside of the cab   | 1                     | Plant Operator |
|             |   |   |                | Never use the basket or other attachments as a staging platform for workers                                     | 1                     | Plant Operator |
|             |   | Tipping over  | 19             | Be alert for trenches, open cuts, sump holes and pits   | 2                     | Driver         |
|             |   |   |                | Keep the machine as level as possible when operating  | 3                     | Operator       |
|             |   | Electrocution   | 25             | Always check for overhead power lines   | 1                     | Driver         |
| 4.3         | Fill the trench   | Running over someone  | 15             | Be aware of everyone's location in the work area  | 5                     | Plant Operator |
|             |   | Crushing  | 23             | Check for services (tap stands, stormwater pipes etc)   | 1                     | All            |
|             |   |   |                | Ensure rocks and sharp objects are not in contact with pipes  | 2                     | Plant Operator |
|             |   | Digging up underground services   | 18             | Ensure warnng tape is placed in the trench when it is halfway back filled                                       | 2                     | Plant Operator |
| 4.4         | Backing up  | Reversing/ Running over people and equipment and not very good visual                                       | 22             | Make sure that your back up alarm is working  | 5                     | Driver         |
| 15          | Back Fill trench by hand with orig  | inal spoil  |                |   |                       |                |
| 5.1         | Shovel soil back into hole  | Muscle strain - musculoskeletal disorders   | 13             | Do not over reach with shovel   | 3                     | Operator       |
|             |   | Damage to Pipe from large stones  | 5              | Remove any large stones prior to shovelling into trench   | 1                     | Operator       |
| 16          | Load skid steer excavator onto tru  | uck/ trailer using aluminium ramps  |                |   |                       |                |
| 6.1         | Place ramps in position   | Muscle strain - musculoskeletal disorders   | 13             | Ensure correct manual handling procedures   | 3                     | Installer      |
|             |   |   |                | Keep Load close to body   | 5                     | All            |
|             |   | Dropping components   | 17             | Ensure a firm grip  | 2                     | All            |
|             |   |   |                | Wear safety boots   | 3                     | All            |
|             |   | Ramps may strike personnel  | 7              | Ensure locating pins are securely in place  | 3                     | Operator       |
|             |   | Equipment failure   | 19             | Visual inspection prior to use  | 1                     | All            |
|             |   |   |                | Check for cracks, stressed or fatigued parts  | 1                     | Driver         |

|             | Job Safety and En   | Job Hazard Analysis (JHA)   |                |   |                       |           |
|-------------|---|---|----------------|---|-----------------------|-----------|
| Step<br>No. | Process Steps List the steps needed to do the job in the sequence to be done. | Potential Hazard(s)  Against each step list potential hazards that could cause injury when the job is done. | Risk<br>Rating | Hazard Control Measures For each hazard, identify control measures to eliminate or minimise the risk of injury. | New<br>Risk<br>Rating | Action By |
| 16.2        | Board the Machine   | Falling from machine  | 14             | Gain access and egress from the manufactured entry/ exit opening only   | 2                     | Operator  |
|             |   |   |                | Keep three points of contact during access and egress   | 2                     | Operator  |
| 16.3        | Drive the machine up the ramps onto the Truck                                 | Losing control of the machine   | 22             | Only trained and competent operators are permitted to drive the machine   | 2                     | Operator  |
|             |   | Driving off the ramps   | 19             | Ensure the machine is straight in line with the ramps before commencing accent                                  | 2                     | Operator  |
|             |   | Equipment failure   | 19             | Ensure the Safe Working Load of the ramps is adequate to take the weight of the machine                         | 1                     | Operator  |
|             |   | Vehicle running into objects and or persons   | 7              | Ensure parking brake is on and operational  | 1                     | Driver    |
| 16.4        | Attach machine restraints   | Machine may move  | 4              | Ensure attachment point of restraints is capable of confining the load that could be imposed in an accident     | 2                     | Driver    |
|             |   |   |                | Only use restrains that have a documented safe work load appropriate to the weight of the machine               | 2                     | Driver    |
| 16.5        | Remove ramps and stow on truck  | Muscle strain - musculoskeletal disorders   | 13             | Keep Load close to body   | 5                     | All       |
|             |   | Dropping components   | 17             | Ensure a firm grip  | 2                     | All       |
|             |   |   |                | Wear safety boots   | 3                     | All       |
|             |   | Unsecured load  | 15             | Ensure load is secure with rated restraints   | 1                     | Driver    |
| 17          | Cleaning up work area   |   |                |   |                       |           |
| 7.1         | Pick up all off cuts / rubbish from work                                      | Cuts and lacerations  | 16             | Wear PPE if sharp edges are exposed   | 3                     | All       |
|             | area  |   |                | Due care by personnel   | 2                     | All       |
|             |   |   |                | Ensure correct handling to prevent injury   | 1                     | All       |
|             |   | Manual handling injuries  | 20             | Ensure correct manual handling procedures are followed  | 1                     | All       |
|             |   |   |                | Use mechanical lifting device where practicable   | 2                     | All       |
|             |   |   |                | Share lifting loads   | 3                     | All       |
|             |   | Eye Damage  | 20             | Ensure correct use of PPE – Safety Glasses  | 3                     | All       |
| 17.2        | Put all off cuts into bin or designated area provided on site                 | Environmental - Waste Generation  | 11             | Ensure all recylcable materials are collected for recycling   | 1                     | All       |
| 17.3        | Ensure work area is left clean and free                                       | Material blowing away   | 17             | Ensure stacked in a safe manner and tied  | 3                     | All       |

|             | Job Safety and En   | vironmental Analysis (JSEA)   | Job Hazard Analysis (JHA) |   |                       |            |
|-------------|---|---|---------------------------|---|-----------------------|------------|
| Step<br>No. | Process Steps List the steps needed to do the job in the sequence to be done. | Potential Hazard(s)  Against each step list potential hazards that could cause injury when the job is done. | Risk<br>Rating            | Hazard Control Measures For each hazard, identify control measures to eliminate or minimise the risk of injury. | New<br>Risk<br>Rating | Action By  |
|             | of debris   |   | •                         | down if necessary   |                       |            |
| 18          | Clean street and sidewalk   |   |                           |   |                       |            |
| 18.1        | Scrape off excessive build up/ debris   | Muscle strain - musculoskeletal disorders   | 13                        | Do not over reach   | 3                     | Installer  |
|             | with floor/ road scraper  | Being hit by motor vehicles   | 19                        | Always wear Hi visibility clothing  | New Risk Rating       | All        |
| 19          | Sweeping the road and sidewalk  |   | <u> </u>                  |   |                       |            |
| 19.1        | Pick up broom   | Muscle strain - musculoskeletal disorders   | 13                        | Do not over reach   | 3                     | Installer  |
| 19.2        | Sweep the sidewalk/ road  | Environmental - Dust  | 16                        | Sweep using slow strokes in dusty situations  | 1                     | All        |
|             |   | Muscle strain - musculoskeletal disorders   | 13                        | Do not over reach   | 3 1 3 3 2 2           | Installer  |
| 20          | Monitoring and review of JHA  |   |                           |   |                       |            |
| 20.1        | Monitor the JHA   | Ineffective JHA   | 13                        | Review the JHA at a minimum of 3 monthly intervals  | 2                     | Supervisor |
|             |   |   |                           | Monitor and complete an inspection of a minimum of 2 task observations  |                       | Supervisor |
|             |   | JHA Failure   | 18                        | Stop Work   | 1                     | All        |
|             |   |   |                           | In conjunction with workers and all involved, review and formulate a new JHA                                    | 1                     | Supervisor |
|             |   |   |                           | Implement new controls  | 1                     | All        |
|             |   |   |                           | Conduct a toolbox meeting with all personnel involved with work activity  | 1                     | Supervisor |

|             | Job Safety and Envir  | ronmental Analysis (JSEA)   | Job Hazard Analysis (JHA) |  |                       |           |  |
|-------------|---|---|---------------------------|--|-----------------------|-----------|--|
| Step<br>No. | Process Steps List the steps needed to do the job in the sequence to be done. | Potential Hazard(s)  Against each step list potential hazards that could cause injury when the job is done. | Risk<br>Rating            | Hazard Control Measures  For each hazard, identify control measures to eliminate or minimise the risk of injury. | New<br>Risk<br>Rating | Action By |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |
|             |   |   |                           |  |                       |           |  |

| Reference and Detail Applicable Sections of:     | ✓ Legislation | ✓ Codes Of Practice | Project WHS       | ✓ Site WHS | ✓ Manufacturer Or Supplier Recommendations |
|--|---------------|---------------------|-------------------|------------|--|
| Hazardous Manual Tasks Code of Practice          |               |                     |                   |            |  |
| Excavation Work Code of Practice                 |               |                     |                   |            |  |
| Managing the Risk of Plant in the Workplace Code | e of Practice |                     |                   |            |  |
| Occupational Safety and Health Regulation under  | the US Occur  | pational Safety and | Health Act of 197 | 70         |  |

| Plant and Equipment to be used for task:  | Plant, Equipment and Area Safety Inspections:        |
|---|--|
| Excavator                                 | Electrical tools to be tested and tagged and current |
| Warning signs and bunting as required     | Excavator Pre Operational Checks                     |
| Hi-visibility temporary bollards or cones | Hand Tools Pre Operation Check                       |
| Shovel                                    | Power Tools Pre Operational Checks                   |
| Hand Tools                                |  |
| Electric Angle Grinder                    |  |
| Aluminium Ramps                           |  |
| Broom                                     |  |
| Floor/ Road Scraper                       |  |

### PPE Requirements for Task: The Sample Company Pty Ltd



Eye and Hearing Protectiopn



**Eye Protection** 



Gloves



Hi Visibility Vests or Clothing



**Safety Boots** 



**RED** - December to February **GREEN** - March to May

BLUE - June to August YELLOW - September to November

| FREQUENCY   | RISK MATRIX     |                           |                     |                     |                             |  |
|---|-----------------|---------------------------|---------------------|---------------------|-----------------------------|--|
| Almost certain (daily or less)                        | MODERATE<br>11  | ні <u>д</u> н<br>16       | EXTREME<br>20       | EXTREME 23          | EXTREME<br>25               |  |
| Likely<br>(weekly not>4<br>times per month)           | MODERATE 7      | ні <b>G</b> Н<br>12       | ні <b>G</b> н<br>17 | EXTREME<br>21       | EXTREME<br>24               |  |
| Occasionally (monthly)                                | LOW<br>4        | MODERATE<br>8             | ні <b></b><br>13    | ні <b></b><br>18    | EXTREME<br>22               |  |
| Unlikely<br>(annually)                                | LOW<br>2        | LOW<br>5                  | MODERATE<br>9       | ні <b>G</b> н<br>14 | ні <b>G</b> н<br><b>19</b>  |  |
| Rare (once in five years)                             | LOW<br>1        | LOW<br>3                  | LOW<br>6            | MODERATE<br>10      | ні <b>G</b> Н<br><b>1</b> 5 |  |
| 722   | 1               | 2                         | 3                   | 4                   | 5                           |  |
| Safety  | Minor           | Medical                   | LTI                 | PTD                 | Fatality                    |  |
| Environmental   | Inconsequential | nconsequential Negligible |                     | Critical            | Catastrophe                 |  |
|   | CONSEQUENCE     |                           |                     |                     |                             |  |
| Low 1 - 6 Moderate 7 - 11 High 12 - 19 Extreme 20 - 3 |                 |                           |                     |                     |                             |  |

### **Acronyms and Abbreviations:**

LTI - Lost Time Injury

PPE - Personal Protection Equipment

PTD - Permanent and Total Disability