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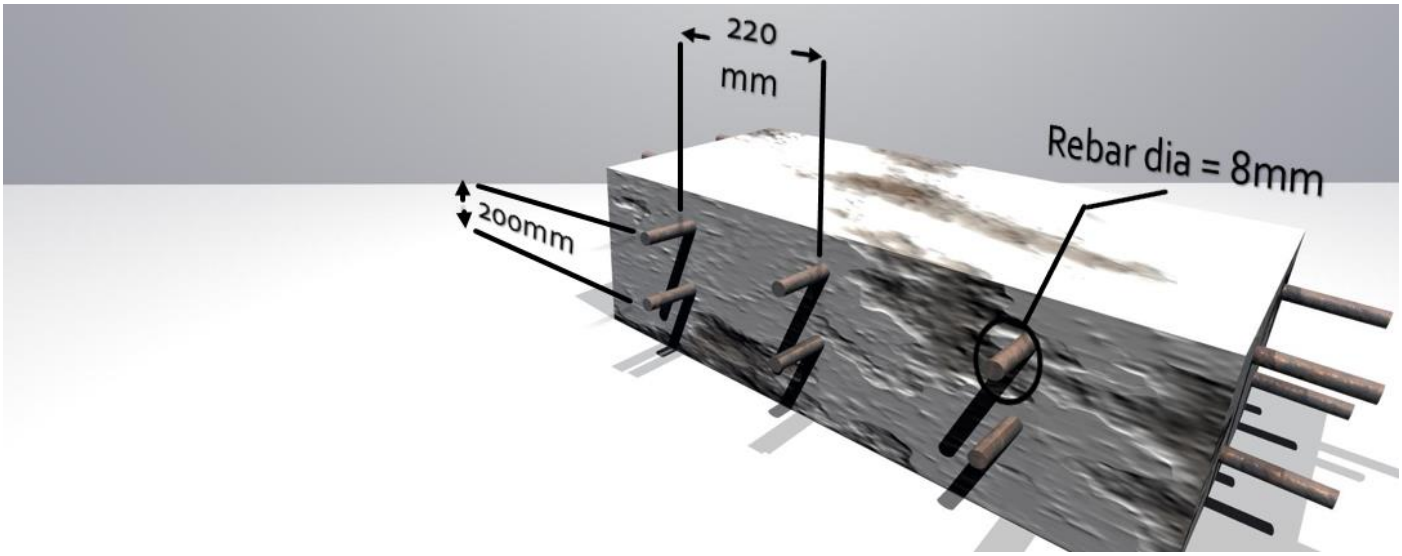
W: unitedscanning.com.au
P: PO Box 3029, Midland WA 6056
A: Level 8, 251 Adelaide Tce, Perth 6000
ABN: 89 262 952 771

UNITED SCANNING SERVICES PTY LTD

Concrete Scanning Report



DIAL BEFORE YOU DIG www.1100.com.au

ATCO Gas AUSTRALIA

WATER CORPORATION

CONCRETE INSTITUTE of AUSTRALIA

Whilst every effort is taken to accurately record and interpret the images located by the Ground Penetrating Radar, United Scanning Services cannot be held responsible for inaccurate or false interpretation of data, images or reports relating to target service locations. Design and structural interpretations or opinions expressed by the company or its technicians must be verified by a suitably qualified professional engineer.

United Scanning Services Pty Ltd

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JOB DOCKET

Scan Type: Concrete Scan

DOCKET No. 8190

Date: . .....

Purchase Order No: .....

Company Name: .....

Site Contact: .....

Telephone No: .....

Email: .....

Site Location: .....

.....

Pre-site Safety Checklist

On arrival at the site, tick the correct answer where relevant to the job. If the answer is NO the situation is unsafe. Alert the office.

	YES	NO		YES	NO
INDUCTION REQUIRED	☐	☐	VENTILATION ADEQUATE	☐	☐
FIRST AID LOCATED/ACCESSIBLE	☐	☐	SCAFFOLDING ERECTED	☐	☐
SAFETY EQUIPMENT FUNCTIONAL	☐	☐	FALL PROTECTION IN PLACE	☐	☐
ELECTRIC LEADS	☐	☐	OPERATIONAL EQUIPMENT	☐	☐
In good condition and safe	☐	☐	In good working order	☐	☐
Correctly Tagged	☐	☐	Components operational / safe	☐	☐
PROTECTIVE CLOTHING			HAZARDOUS SUBSTANCES		
Suitable	☐	☐	Identified	☐	☐
Fit for duty	☐	☐	LIGHTING SUITABLE	☐	☐

Disclaimer: Whilst every effort is taken to give an accurate assessments of all articles detected beneath the concrete surface by radar operating personnel. United Scanning Services and its Affiliates do not take any responsibility if any article is detected incorrectly or not detected by the radar or radar operating personnel. By reading and signing this you understand that no responsibility will be accepted for any damage caused whatsoever.

USS Rep: .....

Client Rep: .....

Print Name: .....

Print Name: . .....

Return to Site Required?

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UNITED SCANNING SERVICES PTY LTD

1. Scanning Results

To whom it may concern,

This document is to state that Ground Penetrating Radar Scanning was undertaken by UNITED SCANNING SERVICES PTY LTD on the:

Scanning was undertaken in the following location:

Description of Works Completed:

If you require any more information, please let us know.

Matthew Hill

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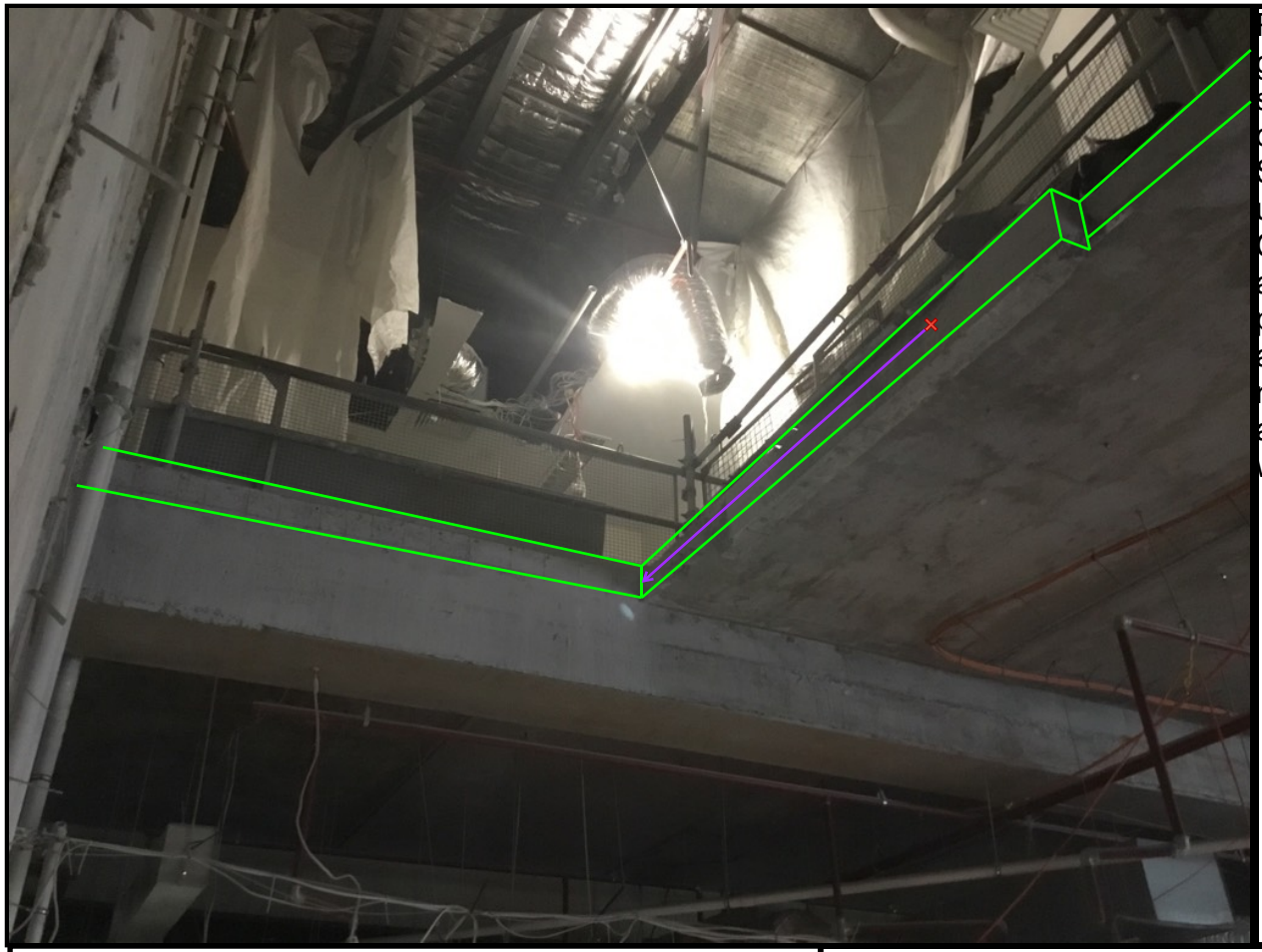
3. Photos



Pictured left is a photo showing the first area scanned, the green outline shows the approximate area in which scanning was undertaken to detect and mark services only, reinforcing was not requested to be marked. Scanning was undertaken prior to drilling being undertaken up to 150mm deep.
One possible service was detected whilst GPR scanning and marked on the top of the slab, the approximate position can be seen as a purple arrow and was approximately 130mm in from the slab edge. No power or radio signal could be detected in the location of the GPR anomalie and the possible service appeared to just end where it is shown ending with an “x”.

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Site Address

Client

Date:

Drawn By:

This is an indication of utilities clearance area or utilities located only, and is to be read in conjunction with the service statement and location terms and conditions of service. The 'As Located' Reference Plan is not to scale and cannot be used as a survey document. Please contact our company for further information if any part of your site clearance is unclear prior to excavation. Be aware of your utility damage potential at conclusion of location service and the associated client duty of care requirements. Review Utility Risk level and Utility Duty of Care Requirements including the WA Utility Code of Practice.

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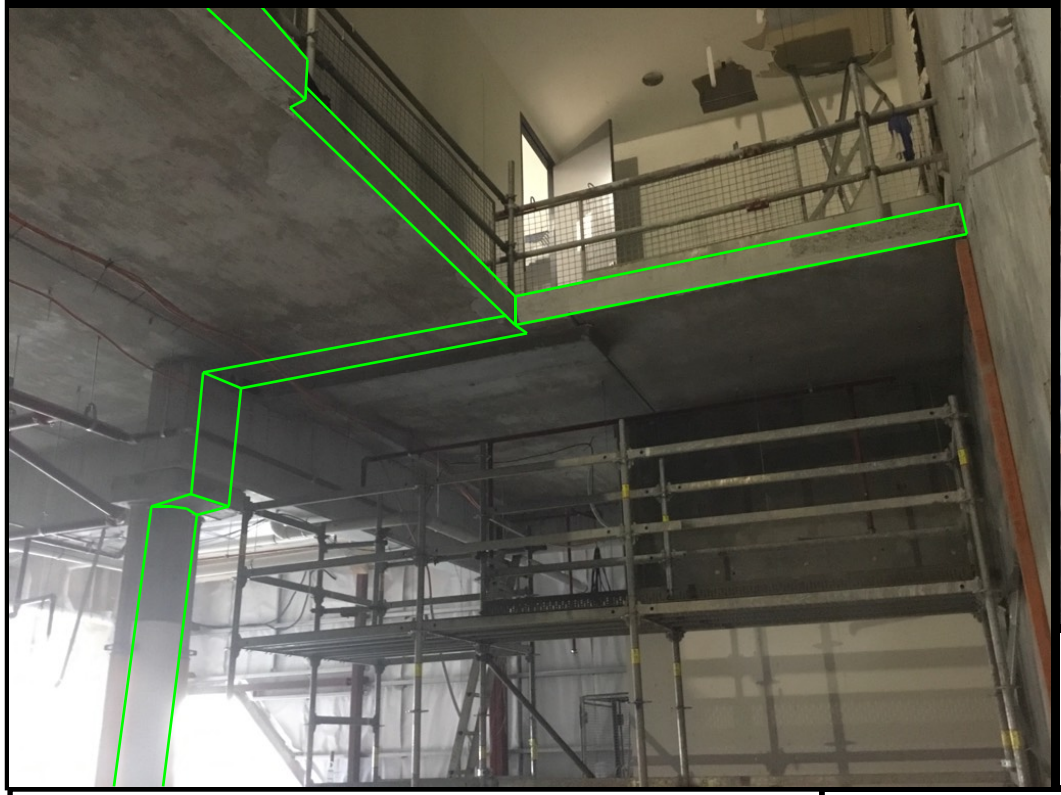
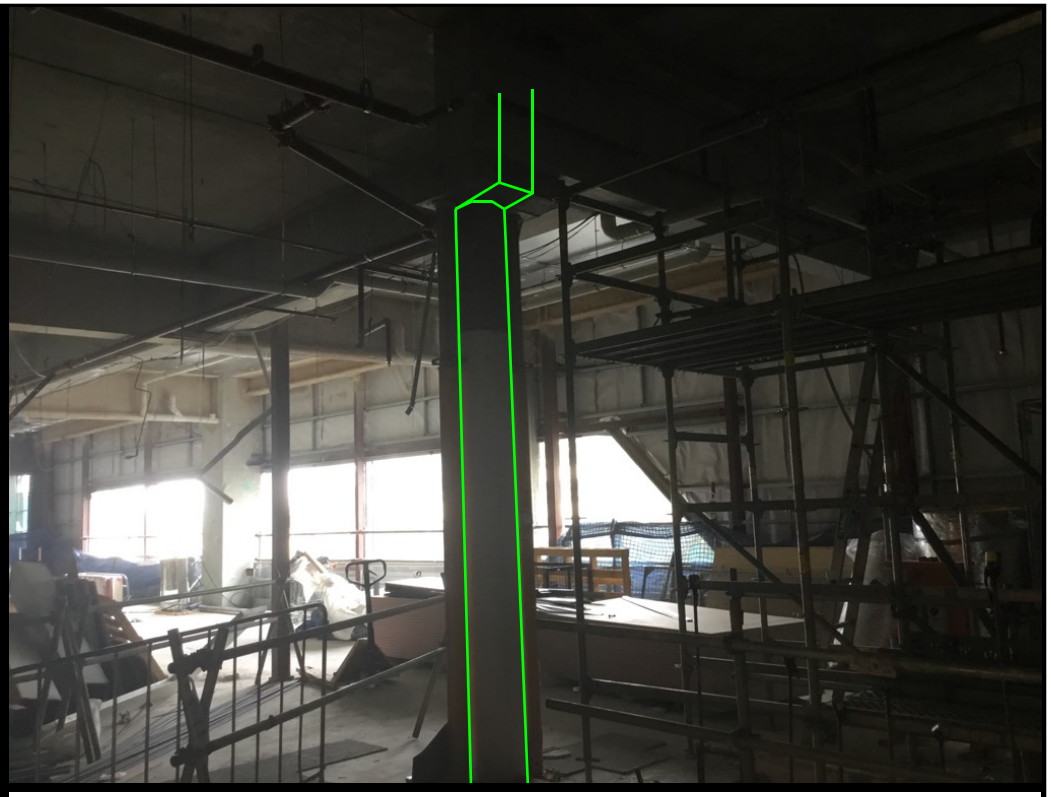
Pictured below and right are the rest of the areas scanned in the first location.
The column could not be GPR scanned due to it being too small, no live service signals were detected.





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Site Address

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Pictured left is a photo of the second location scanned.
This area was scanned prior to drilling being undertaken into the slab edge.
No services were detected.

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Site Address

Client

Date:

Drawn By:

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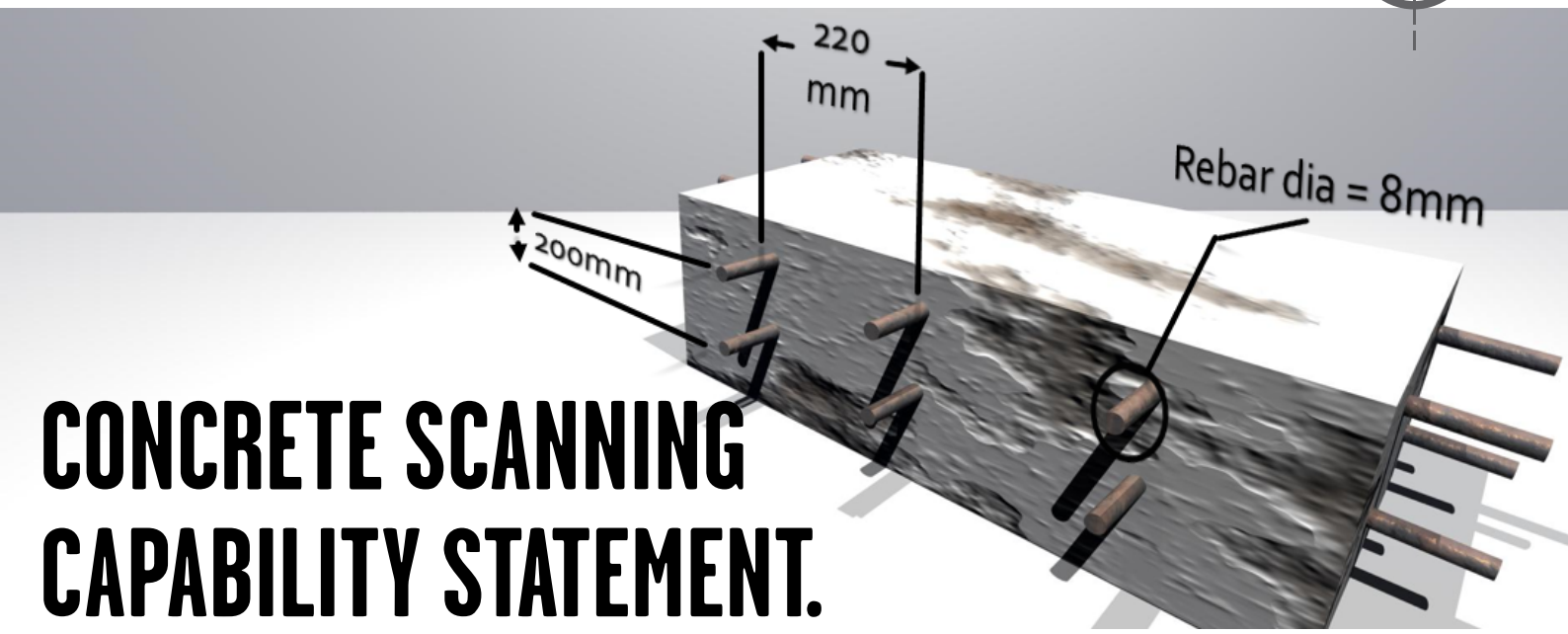
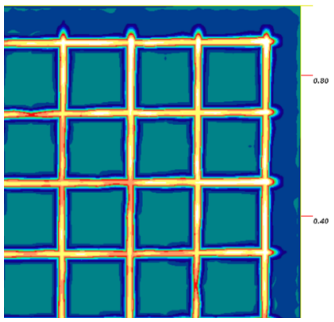


CONCRETE SCANNING CAPABILITY STATEMENT.

United Scanning services can provide what no one else in Perth is able to. Our 3D Ground Penetrating Radar (GPR) technology allows our experienced technicians to provide insights into concrete that allows for informed construction decisions. We provide the following services:

CONCRETE SCANNING

We offer GPR Concrete Scanning in a safe and timely manner with GSSI and Mala equipment. This includes:



- Location of safe areas to drill, cut or demolish
- Determine the location and depth of steel reinforcement, post tension cables, embedded metallic or plastic conduits in concrete slabs, walls or structural members
- Determine concrete slab thickness
- Structural inspections - bridges, monuments, walls, towers, tunnels, balconies
- Identify defects or damage inside concrete (voids, fractures)
- Quality inspection that identifies areas of delamination, tanking, honeycombing, cracks and voids Location of metallic and non-metallic targets in walls and floors
- Condition assessment - map relative concrete condition for rehabilitation planning
- NATA Accredited Lab testing

3D Imaging Technology

United Scanning use the best of GPR equipment including GSSI StructureScan and Mala CX Scanners.

ACCREDITED LOCATORS FOR

DIAL BEFORE YOU DIG
AMCOM
WESTERN POWER
WATER CORPORATION
ATCO GAS
TELSTRA

UNITED SCANNING
SERVICES PTY LTD

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Safe Work Method Statement (SWMS)

Company Name:	**United Scanning Service PTY LTD**	**Project:**	
Company Address:	Level 8, 251 Adelaide Tce Perth WA	**ABN No.**	89 262 952 771
Job / Trade Activity:	USE OF GROUND PENETRATING RADAR, to locate services, P.T cables and re bar. Core drilling.		
SWMS Prepared by:	**Name:**	**Sign**	**Date:**

Safe Work Method Statement (SWMS)

Emergency Company Contact Information

Contact: Matthew Hill
Position: Director
Phone: 0433 724 921
Email: matthew@unitedscanning.com.au

PERMITS TO WORK (✓)

- ☐ Work at Height *(unprotected over 2m)*
- ☐ Excavation
- ☐ Confined Space
- ☑ Concrete Cutting/Drilling
- ☐ Hot Work
- ☐ Other *(specify)*

MINIMUM PPE (✓)

- ☑ Safety Glasses (medium impact)
- ☑ Safety Footwear
- ☑ Hi-Visibility vest or shirt
- ☑ Hearing Protection (<85dB)
- ☑ Hard Hat
- ☐ Other *(specify)*

UNITED SCANNING SERVICES PTY LTD

Safe Work Method Statement (SWMS)

EQUIPMENT / TOOLS (✓)

- [x] Hazard Warning Signs
- [x] Barricade or Guarding
- [ ] EWP (Scissor Lift / Boom Lift)
- [x] Power Tools
- [ ] Scaffolds
- [ ] Portable Ladder(s)
- [ ] Safety Harness
- [ ] Other *(specify)*

LEGISLATION

WA Acts and Regulations

Building Regulations 1989
Dangerous Goods Safety Act 2004
Occupational Safety and Health Act 1984
Occupational Safety and Health Regulations 1996
Electricity Regulations 1947
Electricity (Licensing) Regulations 1991

WA Codes of Practice

(relevant to construction work, tick as applicable to work)

- [x] Concrete and masonry cutting and drilling, 2010
- [ ] Excavation, 2005
- [x] First aid, workplace amenities and personal protective clothing, 2002
- [x] Manual handling, 2000
- [x] Managing noise at workplaces, 2002
- [ ] Safe design of buildings and structures, 2008
- [x] The Prevention of falls at workplaces, 2004
- [ ] Tilt-up and precast concrete construction, 2004
- [x] Violence aggression and bullying at work, 2006
- [x] Working hours, 2006

UNITED SCANNING SERVICES PTY LTD

Safe Work Method Statement (SWMS)

National Standards

(relevant to construction, tick as applicable to work)

- [x] National Standard for Construction Work [NOHSC:1016(2005)]
- [x] Adopted National Exposure Standards For Atmospheric Contaminants In The Occupational Environment [NOHSC: 1003(1995)]
- [x] National model regulation for the control of scheduled carcinogenic substances [NOHSC:1011(1995)]
- [x] National Standard for Manual Tasks (2007)
- [x] National OHS Certification Standard for Users and Operators of Industrial Equipment - 3rd Edition [NOHSC:1006(2001)]
- [x] National Standard for the Storage and Handling of Workplace Dangerous Goods [NOHSC:1015(2001)]
- [x] National Model Regulation for the Control of Workplace Hazardous Substances
- [x] National Standard for Licensing Persons Performing High Risk Work
- [x] National Standard for Occupational Noise [NOHSC:1007(2000)]
- [x] National Standard for Plant [NOHSC: 1010(1994)]
- [ ] National Standard for Synthetic Mineral

National Codes of Practice (relevant to construction work, tick as applicable to work)

- [ ] Safe Removal of Asbestos 2nd Edition [NOHSC:2002(2005)]
- [ ] Code of Practice for the Management and Control of Asbestos in the Workplace [NOHSC:2018(2005)]
- [x] Code of Practice for the Control of Scheduled Carcinogenic Substances [NOHSC:2014(1995)]
- [x] National Code of Practice for Induction for Construction Work (May 2007)
- [ ] National Code of Practice for Precast, Tilt-up and Concrete Elements in Building Construction (2008)
- [x] National Code of Practice for the Prevention of Falls in General Construction (2008)
- [x] National Code of Practice for the Storage and Handing of Dangerous Goods [NOHSC:2017(2001)]
- [x] National Code of Practice for the Control of Workplace Hazardous Substances [NOHSC:2007(1994)]
- [x] National Code of Practice for the Control of Work Related Exposure to Hepatitis and HIV (blood-borne) Viruses [NOHSC:2010(2003)]
- [ ] National Code of Practice for the Control and Safe Use of Inorganic Lead at Work [NOHSC:2015(1994)]
- [x] National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]
- [x] National Code of Practice for the Prevention of Muskuloskeletal Disorders Caused From Performing Manual Tasks
- [x] National Code of Practice for Noise Management and Protection of Hearing at Work - 3rd Edition [NOHSC: 2009(2004)]
- [ ] National Code of Practice for the Safe Use of Synthetic Mineral Fibres [NOHSC:2006(1990)]

National Guidance Notes

- [ ] Guidance Note on the Membrane Filter Method for Estimating Airborne Asbestos Fibres 2nd Edition [NOHSC: 3003(2005)]
- [x] Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment 3rd Edition [NOHSC:3008(1995)] (HTML)
- [x] Guidelines for Integrating OHS into National Industry Training Packages

UNITED SCANNING SERVICES PTY LTD

Safe Work Method Statement (SWMS)

Australian Standards As quoted in legislation and codes of practice

Level	Description of Consequence or Impact	Consequence	Likelihood / Probability		
			L *Likely*	**M** *Moderate*	**U** Unlikely
H (1) ***(High level of harm)***	**Potential death, permanent disability or major structural failure/damage. Off-site environmental discharge/release not contained and significant long-term environmental harm.**	**H (1)** ***(High)***	**1**	**1**	**2**
M (2) ***(Medium level of harm)***	**Potential temporary disability or minor structural failure/damage. On-site environmental discharge/release contained, minor remediation required, short-term environmental harm.**	**M (2)** ***(Medium)***	**1**	**2**	**3**
L (3) **(*Low level of harm)***	**Incident that has the potential to cause persons to require first aid. On-site environmental discharge/release immediately contained minor level clean up with no short-term environmental harm.**	**L (3)** ***(Low)***	**2**	**3**	**3**

Level	Likelihood / Probability
Likely	**Could happen frequently**
Moderate	**Could happen occasionally**
Unlikely	**May occur only in exceptional circumstances**

	Health and Safety	*Environment*
Catastrophic	***Fatality or permanent disability (Class 1 incident)***	***High severity which has or may have permanent and/or irreversible effects (Level 1)***
Major	***Life threatening incident, Lost Time Injury or ongoing illness/health effects (Class 2 incident)***	***Medium severity which has or may have persistent but reversible effects (Level 2)***
Moderate	***Incident that requires medical treatment by a qualified medical practitioner (Class 3 incident)***	***Low severity which has short term and reversible effects (Level 3 incident)***
Minor	***Incident that may require first aid treatment only***	***Impact confined to area impacted by work operations***
Insignificant	***No injuries***	***Very low environmental impact, not noticeable***

UNITED SCANNING SERVICES PTY LTD

Safe Work Method Statement (SWMS)

Elimination	**Eg Eliminate the need for a fall risk area by careful design**	**Most Effective**
Substitution	**Eg Barricading or enclosing the fall risk area with edge protection**	
Isolation	**Eg Isolating the hazard or practice from people involved in the work**	
Engineering	**Eg Using a fall injury prevention system**	**Least Effective**
Administrative	**Eg Procedures, training, warning signs, limiting exposure time**	
PPE	**Eg Use of Personal Protective Equipment**	

Risk Hierarchy of Control - Preferred Order of Control Measures to Eliminate or reduce risks of injury or illness.

To calculate Inherent and Residual risk, refer to '*Qualitative Risk Analysis Matrix: Level of Risk' on Page 2*

No	Job Step *(break the job down into steps)*	Potential Hazards *(what can harm you or others?)*	Inherent Risk* *(Likelihood x Consequence)*	Controls & Checks Required *(What are you going to do to carry out the work safely – apply risk hierarchy of control)*	Who is Responsible? *(Position Title)*	Residual Risk* *(Likelihood x Consequence)*

UNITED SCANNING SERVICES PTY LTD

Safe Work Method Statement (SWMS)

1	**General planning Scanning and Coring**	**Inadequate training / instruction / supervision.**	**M (2) *(Medium)***	**Matthew Hill to ensure all employees:** • **Attend a construction industry "Safety Awareness Course Blue Card.** • **Attend a site-specific induction.** • **Attend a Daily Prestart** **Provide supervision on the site.** **Make sure the employees are instructed in the correct use of:** • **Personal Protective Equipment (PPE).** • **Tools, equipment and plant** • **Hazardous substances and chemicals (Provide Material Safety Data Sheets - MSDS).** • **Clean work areas regularly.** **Ensure that Personnel contact Site Manager for the following;** • **Access to Site Inductions Swan** • **Ensure sign in complete** • **Plant equipment onsite** • **Hazardous substances** • **Swan Permit to Work to be opened prior to work commencing** • **Swan Core Drill Permit** **Deliver materials to a safe lay down area as close as possible to the work.** **Undertake Take 5 prior to commencing task.** **Note: If you identify additional risks and their control measures are not listed on this SWMS, set them out on an additional SWMS Worksheet and attach to the end of this SWMS**	**Matthew Hill/ Nathan Rose**	**L (3) *(Low)***

UNITED SCANNING SERVICES PTY LTD

Safe Work Method Statement (SWMS)

2	Inspect the work area before work begins for the day.	Hazards caused through work activity: • Obstructed access. • Poor housekeeping causing manual handling injuries/slips trips and falls. • Other personnel injured from other work activities.	M (2) *(Medium)*	• Complete Take 5 • Inspect the work area for hazards before work • Provide safe access to all work areas. • Clean up work areas on a regular basis. • Make sure signs and barriers are erected in areas where required.	Operator/ Nathan Rose	L (3) *(Low)*
3	General planning	Areas been scanned for Core Holes • Electrical services	H (1) *(High)*	Prior to scanning ensure all exposed electrical cables that are in the area to be scanned are made safe or switched off (this does not include cables in conduits that are the in slab that is been scanned)	Operator/ Nathan Rose	L (3) *(Low)*
4	Scan Area where Core Holes required.	Manual Handling Slips and Trips	M (2) *(Medium)*	• Equipment is brought to site via a trolley as required • Ensure work area is clear and free of obstacles	Operator/ Nathan Rose	L (3) *(Low)*
5	Planning For Core Drilling - Arrive on site	- Site traffic and personal interference	M (2) *(Medium)*	United Scanning employee/s - consult with site Superviser - Ensure Necessary Permits are obtained - Wear correct PPE before entering site - Take care during site movement - Sign In prior to undertaking work.	Operator/ Nathan Rose	L (3) *(Low)*

UNITED SCANNING SERVICES PTY LTD

Safe Work Method Statement (SWMS)

6	- Meet with client, discuss job - Site Induction	- Activity of other workers - General site environment eg. objects or liquids on the ground. - Inadequate training and supervision of employees	M (2) *(Medium)*	United Scanning employee/s Client - Wear correct PPE - Take care during site movement - Have a blue/white card - Attend site specific induction Shell / Swan - Attend Prestart and Tool box meetings - Ensure Relevant Permits Obtained - Check notice board - Ensure appropriate training and tickets have been acquired	Operator/ Nathan Rose	L (3) *(Low)*
7	- Check work area	- Unsafe work environments, eg excavations, confined spaces, chemical presence etc - Inadequate airflow - Inadequate lighting - Obstructed or insufficient access and/or egress - Poor housekeeping - Uncomfortable or cramped work conditions - Unstable footing - Work activity of others - Weather conditions	M (2) *(Medium)*	United Scanning employee/s Client • Inspect the work area for hazards • Eliminate hazards where possible. • Ensure appropriate measures are taken should hazards exist. • Raise any safety concerns with supervisor and do not conduct work activity until all safety concerns are adequately dealt with • Ensure safe access and egress is in place • Cleanup work area • Ensure there is adequate airflow • Ensure there is adequate lighting • Erect signs and barricading around area • Ensure firm footing • Ensure the weather conditions are conducive to safe work activity, i.e. comfortable working temperature and dry. Use sunscreen and wear trousers and long sleeve shirts when exposed to direct sunlight • Have First Aid Kit in close proximity and be familiar with first aid personal	Operator/ Nathan Rose	L (3) *(Low)*

UNITED SCANNING SERVICES PTY LTD

Safe Work Method Statement (SWMS)

8	-General Planning and considerations	- Noise - Slurry, spark or shard projectiles - Slurry/water migration - Dust and mist - Fume build up - Insufficient propping, falling objects - Services being struck - Presence of other trades - Presence of general public There is an environmental risk due to; - Slurry entering drains and waterways	M (2) *(Medium)*	United Scanning employee/s Client - Obtain permits (concrete cutting/core drilling/hot works) - Complete (United Scanning) general procedures and pre start checks - Ensure you and others in close proximity, are equipped with the appropriate PPE - Be aware of possible slurry, spark, shard projection and slurry migration, use vacuum to control slurry and additional guards to control possible projectiles - Check exit location of blade or barrel and likely slurry projection at exit points - Erect signage and bunt off area - Use spotter where necessary - Do not cut dry, use water - Ensure there is adequate air flow. Use extraction systems if necessary - Use correct propping where necessary - Communicate with other trades as to the impact of activity - Do not cut concrete in the presence of general public - Ensure by way of bunting, silt traps and wet vacs that the slurry will be properly contained and disposed of	Operator/ Nathan Rose	L (3) *(Low)*
9	Set up; -Carry tools and equipment to work site -Set up tools and equipment, water hoses, slurry control and barricades	- Heavy equipment - Creation of obstacles - Spilling of fuel and oil - Faulty equipment - Faulty blades/barrels	M (2) *(Medium)*	United Scanning employee/s - Limit load size - Use correct/alternative manual handling techniques - Keep work area neat and clean - Clear area of slip and trip hazards - Use lead hooks and stands - Be aware of surroundings -Wear correct PPE - Ensure regular workshop servicing and complete machinery pre start check lists - Check electrical tags - Ensure blades and bits are in good condition	Operator/ Nathan Rose	L (3) *(Low)*

UNITED SCANNING SERVICES PTY LTD

Safe Work Method Statement (SWMS)

10	Use of Hand Held Drill - Barrel jamming and twisting - Moisture entering motor - Incorrect technique - Entanglement - Fatigue	• Wrist injury • Electrocution • Body stress, strains, sprains	M (2) *(Medium)*	United Scanning employee/s • Use correct PPE • Ensure operator is properly trained and competent • Employ proper technique, use both handles for support and/or to brace drill, grip drill firmly • Ensure drill is in the correct gear for hand held drilling and clutch is in good condition • Use drill rig for larger diameter core holes • Keep loose clothing clear • Keep hands and drill motor dry • Do not wear gloves while operating electric core drill or near rotating parts • Take frequent breaks • Do not hand drill above head height	Operator/ Nathan Rose	L (3) *(Low)*
11	Use Electric Rig Mounted Drill - Fix anchor in concrete - Hammer drill jamming and twisting - Poor punch and lump-hammer contact	- Wrist injury - Hand injury - Line of Fire Injury	M (2) *(Medium)*	United Scanning employee/s - Ensure operator is properly trained and competent - Employ proper technique - Ensure Line of Fire hazards identified	Operator/ Nathan Rose	L (3) *(Low)*
12	- Mount rig, attach motor, tighten anchor bolt, tighten rig toes , attach barrel and position unit - Maneuvering heavy equipment	- Body stress, strains, sprains,	M (2) *(Medium)*	United Scanning employee/s - Use correct/alternative manual handling techniques - Limit load size	Operator/ Nathan Rose	L (3) *(Low)*
13	- Commence drilling	- Moisture entering motor - Entanglement - Fatigue - Electrocution	M (2) *(Medium)*	United Scanning employee/s - Keep loose clothing clear of rotating parts - Keep hands and drill motor dry - Ensure Drill is tagged Current - Do not wear gloves while operating electric core drill or near rotating parts - Take frequent breaks	Operator/ Nathan Rose	L (3) *(Low)*

Safe Work Method Statement (SWMS)

14	- Remove concrete core	- Manual handling - Slip on core - Electrocution	M (2) *(Medium)*	United Scanning employee/s - Employ proper technique - Dispose or core appropriately - Ensure personnel identify Line of fire hazards	Operator/ Nathan Rose	L (3) *(Low)*
15	Housekeeping	Trips and slips.	M (2) *(Medium)*	Housekeeping standards are adequate to prevent other trades, personnel or members of the public from slipping or tripping on materials or associated discarded rubbish. • Work areas are left clean and safe at the end of each working day. • To prevent injury from poor housekeeping make sure: • Workers are trained in good housekeeping practices. • Regular clean-ups occur throughout the working day and at the conclusion • Swan Permit to be closed on completion, of work. Discarded materials and rubbish is placed in designated areas or bins/skips. Access ways are not obstructed by rubbish from work activity.	Operator/ Nathan Rose	L (3) *(Low)*
16	Working near the public	injury to public: • Trips / slips / falls • Struck by plant	M (2) *(Medium)*	When working near the public: • Erect rigid barriers and warning. Signs. • Follow site traffic management plan • Remove or make safe material stacks. • Make excavations safe or use a 1.8 metre security fence for open excavations.	Operator/ Nathan Rose	L (3) *(Low)*

UNITED SCANNING SERVICES PTY LTD

Safe Work Method Statement (SWMS)

Revisions	1	2	3	4	5
Initial / Date	Jan 2011	July 2014	July 2015	Jan 2016	

Employees involved in consultation, development and acceptance of this Safe Work Method Statement

Print Name:	Signature	Date signed	Print Name:	Signature	Date signed

Personnel qualifications and experience required to complete the task *(eg work at heights training)*	**Specific training required to complete this task:**	**Engineering Details/Certificate/Regulatory Approvals**
Site Induction		
Construction Industry Safety Awareness Training		

UNITED SCANNING SERVICES PTY LTD

Safe Work Method Statement (SWMS)

Job Safety Analysis Checklist

Safety Hazards

- ☐ Fall to below
- ☐ Fall to same level
- ☐ Dropped objects
- ☐ Struck against
- ☐ Struck by
- ☐ Caught between
- ☐ Cuts / Abrasion
- ☐ Flying particles
- ☐ Burns - Hot, Cold, Acid
- ☐ Contact with Chemicals
- ☐ Contact with Pressure
- ☐ Overstress, strain, sprain
- ☐ Fire
- ☐ Explosion
- ☐ Engulfment
- ☐ Oxygen deficiency / excess
- ☐ Atmospheric contaminants
- ☐ Electrical contact

Health Hazards

- ☐Heat Stress
- ☐Noise
- ☐Radiation
- ☐Vibration
- ☐Contact with Chemicals
- ☐ Dust
- ☐ Biological Hazards
- ☐ Synthetic Mineral Fibres
- ☐ Asbestos
- ☐ Atmospheric Contaminants

Environmental Hazards

- ☐Chemicals
- ☐ Chemical Spills

❒General Rubbish ❒ Hazardous Waste