

*SureSearch*  
UNDERGROUND SERVICES

Capability statement

# SureSearch is a leader in the utility locating, mapping and asset protection industry.

SureSearch is an industry leader in the utility locating, mapping and asset protection industry. Established as a family run business in 2000, SureSearch delivered the first Pipe, Cable and Leak detection service to Sydney and surrounds. Since then, the company has grown through a strong focus on customer and industry requirements, and adopting innovative practices for the field.

Stringent procedures and in-house training ensures the team can continue to deliver the industry leading standard that the SureSearch name is renowned for.

We provide our clients with accurate information to assist in the design and

construction of projects, with minimal risk of injury or delay.

SureSearch are the only business of its type to have dedicated teams of Allocators, Estimators, Project Managers, Surveyors, Draftsmen, Utility Locators, CCTV Technicians and Vac Truck Operators.

All SureSearch field staff are issued with iPads to allow them to produce onsite reports for all services conducted which are then sent directly to the client.

SureSearch is part of Kiwa, an independent global leader in Testing, Inspection and Certification.

**Our fully equipped vehicle fleet and qualified team ensure we can offer the following services:**

- **Utility Locating**
- **Concrete Scanning**
- **Survey Solutions**
- **Utility Mapping**
- **CAD & BIM Modeling**
- **CCTV Inspection**
- **High Velocity Drain Cleaning**
- **Non-Destructive Excavation**
- **Topographic Surveys**

# Survey & Mapping



SureSearch has a team of highly qualified and experienced surveyors who are experts at translating utility information to engineering grade survey data.

We specialise in Utility surveys, Topographical surveys and construction grade survey control.

Our surveyors and drafters are skilled in using the latest CAD software, including 12D for survey reduction & design, AutoCAD & Civil 3D for drafting/modelling and CompNet for reducing complex survey control networks.

Our surveyors use equipment that are the latest in technology, including:

- 1" Trimble Robotic Total Stations
- Trimble 3D Scanners
- RTK and Static GNSS solutions
- Digital Levels

# Concrete Scanning

SureSearch provide concrete scanning using Ground Penetrating Radar Concrete (GPRC) and Electromagnetic Locating (EML). Concrete Scanning is ideal to confirm the location and setout of reinforcement, post-tension and pre-tension cables, ducts, structural beams and voids, and should be used prior to commencing core drilling, concrete cutting, dyna-drilling, wall-sawing or cutting, and the removal of concrete floors or walls.

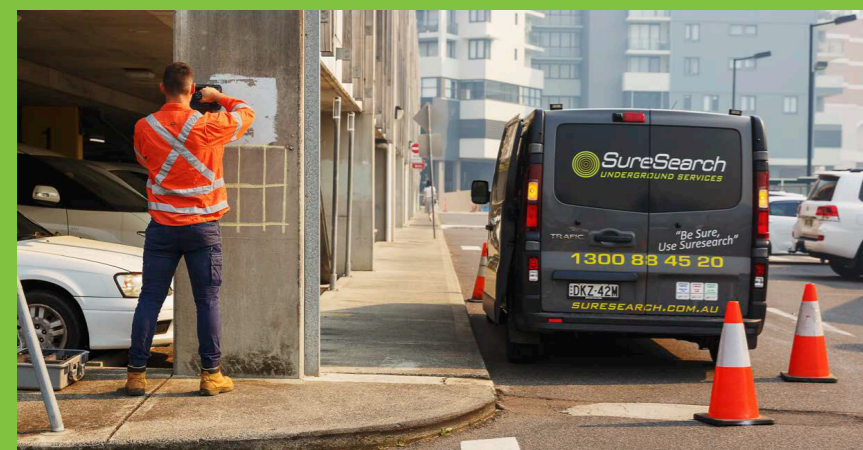
SureSearch has the capabilities and equipment to precisely detect the entry or exit point of penetrations for you to understand and confirm your work location.

We compile all our findings into SureSearch specific detailed reports for engineers, contractors, owners and surveyors.



GPRC is ideal for determining:

- Location of Post and Pre-tension cables and ducts
- Approximate depth of slab
- Location of thickenings and beams
- Live electrical cables and more
- Inconsistencies such as voids, cracks and honeycombing
- Schmidt hammer testing to determine compressive strength (mPa)
- Cover meters to provide spacing, size and depth of reinforcement



Survey deliverables:

- Survey plans
- 12D/DWG CAD models, including BIM and 12D objects
- Field reports and Interactive pdfs
- Survey Control, Least Squares reductions suitable for construction

SureSearch may be best known for providing high quality utility surveys, but we also provide equally high-quality surveys of design and investigative purpose.

- Topographical Contour survey (Detail)
- Point cloud surveys
- Cadastral Surveys
- Civil construction Setouts
- Work as Executed surveys

SureSearch is part of the Transport for NSW Utilities Panel and have been successfully completing projects for TFNSW and associates on small to large scaled projects.



# Utility Locating

SureSearch's dedicated team of DBYD certified utility locators can help you map and protect all underground assets on your site. We use both electromagnetic cable locating and ground penetrating radar (GPR) technology to designate underground utilities.

- EML Locating – Used to locate conductive utilities such as metallic pipes, electrical and communication cables
- Ground Penetrating Radar – Used to locate nonconductive material such as Poly or Nylon gas lines, blue brute and uPVC water mains, empty conduits, underground storage tanks and possible underground voids
- Traceable Rod with EML – Used to locate accessible empty pipes or conduits i.e. sewer and storm water pipes and empty conduits.

All our work complies to the Australian Standard AS-5488.1:2019 classification of subsurface utility information, compiled with our detailed locate reports that are completed and sent directly from site to the client.



# CCTV inspection



For detailed reports of existing assets, including storm water pipes, sewer pipes, wells, shafts and ducts we deploy closed circuit television (CCTV) technology. SureSearch's CCTV inspection service allows our expert team to inspect, survey and record to WSA 05-2008 & WSA 05-2013 standards, all SureSearch CCTV operators are accredited to record and report to codes and standards.

- Push Rod CCTV – Used to inspect and locate 60mm – 150mm sewer and storm water conduits.
- CCTV Tractor – Can inspect sewer and storm water conduits from 150mm – 2m in diameter. Up to 500 lineal meters.
- Vehicle and portable options available for those locations with limited access
- WinCan reporting software used for all inspections



# Non Destructive Excavation

We have a fleet of non-destructive excavation trucks ranging in sizes and capabilities from 4x4 trucks to combination drain cleaning trucks, our tanks range in size from 4,000 liters to 10,000 liters.

Non-destructive excavation uses high pressure water and vacuum to safely expose and pothole underground utilities without damaging utilities or their coatings, making it ideal for road design, power and street light pole installation, tree planting & remediation and the exposure of underground utilities before excavation or ground disturbance:

- Reduced reinstatement costs due to minimal surface disruption
- The risk of damaging subsurface utilities including protective coatings is eliminated.
- Cost effective and fast results
- Easy disposal of excavated soil that is contained in the vacuum tank at approved disposal transfer stations
- Reduced manual handling removes the risk of personal injury.
- Vacuum excavation is a safer alternative to conventional mechanical excavation therefore lowering environmental impacts.

Our vacuum units are fitted with specialist equipment allowing us to employ a range of techniques, including:

- Hydro Vacuum Excavation, which combines high-pressure water and a high-flow vacuum, allowing for quick, clean and precise excavations.
- Air Excavation and Knifing, which uses high-pressure air compressors, to either pothole or excavate.
- Vacuum Excavation (or suction excavation), which is used for the removal of dry and wet materials, as well as to transfer debris and remove soil around and near underground utilities and services.



# Pipe Rehabilitation



SureSearch is the first NSW based installer of the Quick-lock system, which is manufactured from self-locking V4A stainless steel sleeves & seamless EDPM rubber gaskets, and is capable of repairing many common defects found in pipes sized between 150 DN – 800 DN.

Quick-lock is a German engineered, no-dig, trenchless repair system for rehabilitating existing sewer & stormwater pipelines. Quick-lock installs quickly and is a flexible, structurally sound repair system with minimal labor, minimal prep and minimal

risk. Costly excavation is a thing of the past when it comes to quick-lock - it locks permanently, installs quickly and with minimal disruption.

Certifications and Approvals:

- Approved for RMS drainage repair
- WSAA Appraisal
- 50-year manufacturers life expectancy
- Passed jetting resistance test to DIN-19523

# Leak Detection



SureSearch has been helping home and property owners locate plumbing leaks since 2000. Identifying the source of a leak and tracing the location or damage is key to maintaining efficient and effective pipes, while limiting structural damage, water loss and unnecessary costs. SureSearch uses a range of proven methods to identify the location and cause of the leak, as well as to remedy the problem.

- Pressure testing
  - Nitrogen Sniffer testing
  - Correlation test between valves/hydrants on mains
  - waterproof flood testing
  - Thermal imaging camera
- Providing a comprehensive report that is emailed to the client while on site, this provides next steps to remedy the leak issue.

# Reporting

Our comprehensive reporting that is completed and emailed to the client on site is one of the many services that sets SureSearch ahead of our competitors. These reports are completed for every utility locating job no matter the size. A mud map can also be produced on top of a google map image showing approx. location of the services found.

Potholing reports are completed by our non-destructive excavation operators, these reports give our clients photo evidence, depths, size and material of the service that has been found in the ground. Along with this report an additional pothole card can be produced that gives a visual representation of the hole/trench that was dug along with the configuration of the services found, depths and sizes.

Having these reports allows our client to keep valuable information on file for future works without having to relocate and pothole services, saving them time and money.

## HSE

At SureSearch we strive to continuously improve the health, wellbeing and safety in our workplaces so as to protect the wellbeing of and prevent injury or illness to our employees and the communities in which we operate.

SureSearch has an established, documented and implemented certified Integrated Management System to meet the requirements of Internationally recognised standards, ISO 9001, ISO 14001, AS/NZ 4801.

The processes SureSearch adheres to are managed by the company in accordance with the requirements of these standards. Documented information, including relevant documents and records, are maintained to provide evidence of compliance and to ensure these processes remain effective.

# Hi Velocity Drain Cleaning



Our fleet of combination hi velocity drain cleaning trucks are capable of cleaning debris and roots from both storm water and sewer mains ranging from 150mm diameter to 1800mm diameter. These units not only clean the silted pipes, they also remove the debris from pits via the vacuum unit.

With a powerful 1" Water jetting pump, pumping 333 l/min @ 170 bar and 180m x 1" sewer hose, our high-pressure jet cleaning is sure to remove any blockages in the pipe. A 6000L debris tank is large enough to carry all debris that has been cleaned from the pipe.



QMS Certification Services

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