

SureSearch
UNDERGROUND SERVICES

Capability statement

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

Established as a family run business in 2000, SureSearch delivered one of the first pipe, cable and leak detection services to Sydney and surrounds, and expanded through a strong focus on customer and industry innovation.

Our trusted and stringent procedures, and in-house training ensure we continue to deliver the industry leading standard that the SureSearch name is renowned for.

We are trusted by our clients for accurate information to assist in the design and construction of their projects.

SureSearch has experienced project managers with extensive experience in underground utilities who can quote, organise and facilitate works from inception to completion.

SureSearch is 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.

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

- **Utility Mapping / Surveying**
 - CAD & BIM Modelling
 - Topographic Surveys
- **Utility Locating**
- **Non-Destructive Excavation**
- **Concrete Scanning**
- **CCTV Inspection**
- **Pipe Rehabilitation**
- **Jet Vac Drain Cleaning**

Utility Mapping / Surveying



SureSearch has a team of highly qualified and experienced surveyors who are experts at translating utility information to an 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 and design, AutoCAD and 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 and Digital Levels.

SureSearch is well known for its utility surveys and equally high-quality surveys of design and investigative purpose. Surveys include:

- Topographical contour survey (detail).
- Point cloud surveys.
- Cadastral surveys.
- Civil construction setouts.
- Work as executed surveys.

Utility Locating

SureSearch is a leader in detection, mapping and pre-excavation planning with high-level utility accreditations for construction, telecommunications, rail and energy sectors.

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

- Electromagnetic Locating (EML) – used to locate conductive utilities such as metallic pipes, electrical and communication cables.
- Ground Penetrating Radar (GPR) – used to locate non-conductive 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 sewer and storm pipes and empty conduits

Our technicians can accurately map and oversee the installation and construction of utility piping, cabling and construction.

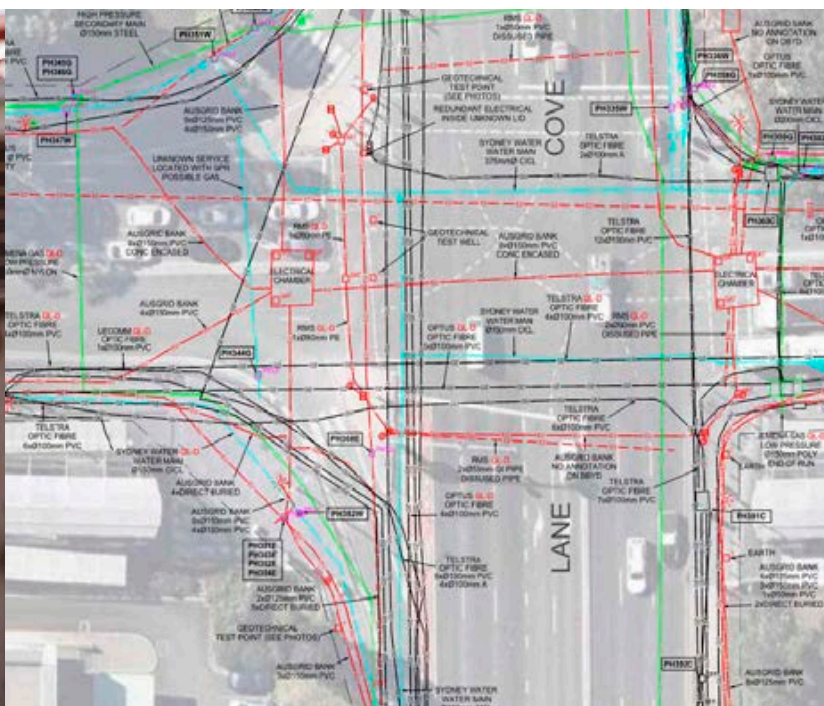
Our SureSearch certified utility locators can help identify:

- Underground utilities
- Pipes
- Voids
- Underground tanks
- Cables
- Blockages
- Water and gas leaks

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.



**CERTIFIED
LOCATOR**
www.dbydlocator.com



Non Destructive Excavation

Our fleet of non-destructive excavation trucks range in sizes and capabilities from 4x4 trucks to combination drain cleaning trucks with capacity from 4,000 litres to 8,000 litres.

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

Benefits include:

- 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 handling removes the risk of personal injury.
- Vacuum excavation is a safer alternative to conventional mechanical excavation and lowers 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.



Concrete Scanning

SureSearch uses Ground Penetrating Radar Concrete (GPRC) scanning technology and Electromagnetic Locating (EML) equipment to scan concrete and confirm the location and setout of reinforcement, post-tension and pre-tension cables, ducts, structural beams and voids.

Concrete Scanning is 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 determines:

- Location of post and pre-tension cables and duct.
- 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.



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 and WSA 05-2013 standards. All SureSearch CCTV operators are NATA Accredited to record and report to codes and standards.

Our CCTV Inspection services include:

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



Pipe Rehabilitation



SureSearch was the first NSW based installer of Quick-Lock a pipe rehabilitation system manufactured from self-locking V4A stainless steel sleeves and 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 and stormwater pipelines.

Quick-lock installs quickly and is a flexible, structurally sound repair system with minimal labor, minimal preparation and minimal risk without costly excavation.

Certifications and Approvals:

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

Jet Vac Drain Cleaning



SureSearch has a fleet of combination high 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.

The jet vac units clean the silted pipes and 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 with a 6000L debris tank that is large enough to carry all debris that has been cleaned from the pipe.



**QUICKVIEW
CAMERA VISION**



SureSearch uses QuickView cameras to check drains after clearing pipes. Our Jet Vac Drain Cleaning technicians have experience in dealing with all sorts of drainage projects issues, from heavy cleaning of storm water culverts and systems to mass infestation of tree roots in sewer networks.

Vision from the QuickView camera accurately records distance data to tag the location of problem areas in drains to enable our SureSearch operators to deliver fast service and repair.

In situations where detailed CCTV inspections identify problems in existing assets, and document their exact location for cleaning, the QuickView camera can then be used to check drains without the requirement for another CCTV inspection. Features of the Quickview camera include:

- Remote tilt adjustment and in-manhole view centering.
- Vivid HD images deliver 4x more inspection detail.
- Cable-free wireless design and video transmission.
- Touchscreen tablet control / portable to deploy anywhere.
- Maximised viewing distance and side wall illumination.



Servicing locations in:

SYDNEY WOLLONGONG CENTRAL COAST - NSW *including Newcastle*

P 1300 88 45 20

E quotes@suresearch.com.au

W www.suresearch.com.au