

Subsurface Utility Investigation

Going beyond the traditional above ground surveys, Beveridge Williams now offers the complete package with quality utility survey and locating.

Beveridge Williams has a team of highly qualified and experienced Dial Before You Dig Accredited Utility Locators and Surveyors who are experts at not only investigating and marking underground utilities, but translating utility information into engineering-grade survey data.

Removing The Risk

With the assets hidden underground, specific and tailored research and resources are necessary to complete a utility survey, as there can be serious consequences if something is missed.

Utility Survey and Drafting is unique, and the Beveridge Williams team's knowledge of locating methodologies, tolerances, site constraints, and their overall understanding of utilities are essential for risk minimisation and achieving quality outcomes.

Subsurface Utility Locating

Beveridge Williams has a dedicated team of professional and fully-qualified utility locators who are all Dial Before You Dig Certified.

The team utilises the latest and leading equipment, ensuring accurate locating for each project. Both Electromagnetic Locating (EM) and Ground Penetrating Radar (GPR) technology are used to identify underground utilities and substructures.

Electromagnetic Locating

Our team uses a range of electromagnetic and high-frequency induction devices and complementary technology to identify, locate and mark underground services such as metallic water mains, electrical and communications infrastructure.

Ground Penetrating Radar

GPR is a geophysical, non-intrusive method of surveying that uses radar pulses to image the subsurface to investigate subsurface anomalies.

It's predominately used in Utility Investigation for identifying non-conductive material such as poly or Nylon gas lines, brute and uPVC water mains, empty conduits and Drainage infrastructure.

The team can also provide reports on other subsurface features/anomalies, including:

- Underground Storage Tanks (UST)
- Subsurface Voiding
- Concrete Substructures
- Grave Investigation

Utility Survey & Mapping

Beveridge Williams offers Utility Surveys with Comprehensive Utility Deliverables in line with AS – 5488 2019 which cater to all requirements, including:

- Georeferenced Aerial Survey plans (if required)
- 12d/DWG CAD models
- BIM Modelling
- Field reports including Pothole/Trench, Pit and Drainage Interactive PDFs
- SUI Data Spreadsheets
- NSW

The latest technology for quality outcomes

Our surveyors and drafters are skilled in using the latest CAD software, including 12d for survey reduction and design, AutoCAD, Revit, Trimble Business Centre and Cyclone for drafting/modelling, plus CompNet for complex survey control networks.

All surveyors are equipped with the latest technology including:

- MALA Locator Core GPR
- RadioDetection RD 8200 EM Locators
- Trimble and Leica Robotic Total Stations
- Trimble and Leica 3D Laser Scanners
- RTK and Static GNSS solutions
- Digital Levels
- UAV Drone – capable of producing high resolution video
- and orthorectified images



Non Destructive Excavation

Non-destructive excavation uses high pressure water and vacuum to safely expose and pothole underground utilities, without damaging utilities or their coatings.

With essential utilities increasingly being built underground instead of above ground, Non-Destructive Excavation is key to safely identifying and then obtaining the highest possible Quality Level (QL-A) per AS 5488-2019.

It's a safe, clean way to expose the underground infrastructure, allowing for a faster, more environmentally-friendly method of excavation.

All investigations comply to the Australian Standard AS-5488.1:2019 classification of subsurface utility Information.

Beveridge Williams also provides highly-detailed field reporting of the work undertaken and consults directly with the client and stakeholders, ensuring all best practices are understood and limiting damage to critical infrastructure.

CCTV and Drainage Investigations

The team utilises proven technologies and methods, including Push Rod and Tractor Cameras, to efficiently assess the condition of stormwater drainage, sewerage systems and other pipe infrastructure.

CCTV inspection is a critical service for councils and pipe asset managers as it is the only way to ascertain the true condition of the multitude of underground drainage infrastructures.

The team can also undertake full Drainage Investigations, Modelling and Reporting in pipe sizes ranging from standard 150mm to 300mm pipes, extending to pipes 2m in diameter.



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Subservice Utility Investigation

Service Rates 2022-23

SERVICES	NORMAL TIME HIRE RATE (\$/hr)	OVERTIME HIRE RATE (\$/hr)	NORMAL TIME CALL-OUT FEE	OVERTIME HOURS MINIMUM
SUBSURFACE UTILITY LOCATING: 1 man DBYD, Optus and Telstra accredited technician. EM Locator, Ground Penetrating Radar, Traceable Sondes and Rodder, Pit Lifting Equipment. Detailed onsite Field Report.	\$150.00	\$200.00	\$150.00	5 hours
FIELD SURVEYOR: 1 man Industry Qualified Surveyor, DBYD, Optus and Telstra Accredited Technician. Comprehensive Survey Deliverables in line with AS 5488 - 2019.	\$180.00	\$230.00	180.00	5 hours
FIELD SURVEYOR IN OFFICE Field Surveyor in office reducing collected field data.	\$150.00	N/A	N/A	N/A
DRAFTING Compilation of field data represented in PDF plan & CAD model formats.	\$120.00	N/A	N/A	N/A
NON-DESTRUCTIVE EVACUATION Includes VOC Operator W /fully serviced / stocked truck and plant	\$180.00	\$240.00	N/A	6 hours
TRACTOR & PUSH ROD CCTV PIPELINE INSPECTION: 1 man	\$180.00	\$240.00	\$180.00	5 hours
SLAB SCANNING (GROUND PENETRATING RADAR): 1 man Includes trained technician & equipment W/detailed onsite reporting.	\$150.00	\$200.00	\$150.00	5 hours
CONFINED SPACE ENTRY: 3 man Each member trained in entry, atmosphere test, resuscitation, and operation of breathing apparatus.	\$440.00	\$590.00	N/A	5 hours
PROJECT MANAGER Project Managers with extensive experience within the subsurface utility industry and AS 5488 - 2019.	\$180.00	\$240.00	N/A	N/A
CAD and BIM MODELLING Experienced Modeller in AutoCAD, 12D, Revit.	\$140.00	N/A	N/A	N/A



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Additional Item Rates 2022-23

ADDITIONAL ITEMS	QUANTITY	UNIT	RATE (\$/UNIT)
POTHOLE WASTE DISPOSAL: Sydney Non-contaminated	N/A	Ton	\$180.00
POTHOLE WASTE DISPOSAL: Sydney Contaminated	N/A	Ton	Cost + 20%
POTHOLE WASTE DISPOSAL: Central Coast / Newcastle Non-contaminated	N/A	Ton	\$368.00
POTHOLE WASTE DISPOSAL: Central Coast / Newcastle Contaminated	N/A	Ton	Cost + 20%
CONFINED SPACE EQUIPMENT INCLUDING BREATHING APPERATUS	Rate Only	Per Shift	\$520.00
CONFINED SPACE EQUIPMENT WITHOUT BREATHING APPERATUS	Rate Only	Per Shift	\$350.00

Important Information:

- All trucks are charged depot to depot from dispatched location
- Ordinary working hours are for the first eight hours between 6am and 6pm. After hours rates apply outside of these times.
- Rates are valid from 1 July 2022 to 30 June 2023.
- Other charges may be applicable to any of the above services and dependent on the project or job requirements. These will be discussed and agreed upon prior to work being undertaken.

