EARTH SCAPE SURVEY
TECHNOLOGIES

EARTH SCAPE SURVEY

FOR GEOPHYSICAL SURVEY AND GEOLOGICAL EXPLORATIONS

EarthScape Survey provides accurate geophysical and geological data to support projects of any scale. We deliver precise, reliable, and efficient results for every client.









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INTRODUCTION

This document provides a brief overview of our company, its mission, and the services we offer. It highlights our dedication to quality, innovation, and customer satisfaction, aiming to build lasting relationships while delivering exceptional value.

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ABOUT US

We are a trusted and innovative company committed to delivering high quality services with precision and efficiency. With a focus on excellence and reliability, we aim to meet the diverse needs of our clients while building long-term relationships based on trust and performance.

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OUR SERVICES

We offer a wide range of professional services designed to meet the unique needs of our clients. From detailed site investigations and trial pits to project planning and execution, our team ensures accuracy, safety, and efficiency at every step. By combining expertise with modern techniques, we deliver reliable solutions that add value to every project.

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MISSION & VISION

We are committed to delivering high-quality, innovative, and reliable solutions that exceed client expectations. Our goal is to be a trusted industry leader, building lasting relationships through integrity, precision, and consistent performance while embracing modern techniques and sustainable practices.

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TRIAL PITS

Trial pits are an essential part of site investigation, allowing us to assess ground conditions before starting any project. By carefully analyzing soil layers and composition, we ensure accurate planning and safer, more efficient construction processes.

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OUR PROJECT

At EarthScape Technologies, we have successfully delivered a wide range of projects across multiple industries, including construction, infrastructure, utilities, and environmental sectors. From small-scale developments to large, complex assignments, our expertise in laser scanning, GPR, utility mapping, drone surveys, and engineering surveys allows us to provide precise data that supports every stage of a project.

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WHY CHOOSE US

Choosing us means partnering with a team dedicated to quality, innovation, and reliability. With a strong focus on precision and safety, we utilize advanced techniques and modern tools to deliver exceptional results. Our experienced professionals ensure every project is handled with care, transparency, and efficiency, building long-term relationships based on trust and consistent performance.

INTRODUCTION

At EarthScape Technologies, we pride ourselves on being a trusted name in the field of geophysical and geological services, offering accurate and reliable solutions for projects of every scale. With a commitment to precision and excellence, we help businesses, developers, and researchers gain a deeper understanding of the subsurface, enabling smarter, data-driven decisions.

Our highly skilled team of geophysicists and surveyors is equipped with cutting-edge technology and years of expertise, ensuring that every survey and analysis we conduct is both thorough and reliable. Whether it's for environmental assessments, construction planning, or resource exploration, we deliver results that set the foundation for successful outcomes.

At EarthScape Technologies, client satisfaction is at the core of our operations. We understand that no two projects are the same, which is why we take the time to listen, adapt, and provide solutions tailored to each client's specific needs. From initial consultation to final reporting,



ABOUT US

We are a team of passionate geophysicists, engineers, and data analysts, driven by the mission to advance the field of geophysical surveying and subsurface analysis. With a unique blend of technical expertise and innovation, we deliver precise and actionable insights that empower industries to make informed decisions about their projects and investments.



With years of hands-on experience, our team specializes in applying advanced geophysical technologies to a wide range of sectors, including environmental studies, mining, energy, and construction. Our goal is not just to provide data, but to transform that data into clear, reliable solutions that create measurable value for our clients.

At EarthScape Technologies, we believe in combining science, innovation, and collaboration to uncover the hidden potential of the earth. By leveraging modern techniques and a client-first approach, we ensure that our services not only meet but exceed industry standards.

At EarthScape Technologies, we embrace innovation and adaptability. By using the latest geophysical tools and advanced data analysis, we deliver efficient, accurate, and cost-effective solutions tailored to every project.

OUR SERVICES

At EarthScape Technologies, we provide a comprehensive range of geophysical and geological services designed to deliver accurate, reliable, and data-driven insights. By combining advanced technology with expert analysis, we help clients across industries make informed decisions for projects of all sizes.



(GPR) SURVEY

We offer high-precision subsurface imaging, ideal for utility detection, rebar location, concrete scanning, and detailed archaeological investigations.



(RD) SURVEY

Our radio detection surveys accurately map cables, high and low power lines, metallic pipelines, and rebar for safe and efficient operations.



MASW SURVEY

We conduct MASW surveys to analyze soil conditions, assess load-bearing capacity, evaluate seismic hazards, and detect cavities or faults.



ERT SURVEY

Our ERT surveys deliver precise groundwater mapping, flow path tracing, water table analysis, and resistivity profiling for better resource management.



MAGNETIC SURVEY

We provide magnetic surveys to detect buried structures, voids, old foundations, mineralized areas, leakage paths, and hidden anomalies with accuracy.



BOREHOLE SEISMIC

Our borehole seismic services, including crosshole and downhole methods, support site characterization, liquefaction analysis, and soil dynamics evaluation.

UTILITY SURVEYS

At EarthScape Technologies, our utility surveys provide accurate mapping of underground utilities, including cables, pipelines, and rebar, to ensure safe and efficient project planning. Using advanced technologies like Ground Penetrating Radar (GPR) and Radio Detection (RD), we deliver precise data on utility location, depth, and material type. These surveys help minimize risks, prevent costly damages, and support seamless execution for construction, maintenance, and development projects.



ELECTROMAGNETIC LOCATION (EML)

At EarthScape Technologies, our Electromagnetic Location (EML) services provide accurate detection and tracing of metallic utilities such as cables and pipelines.



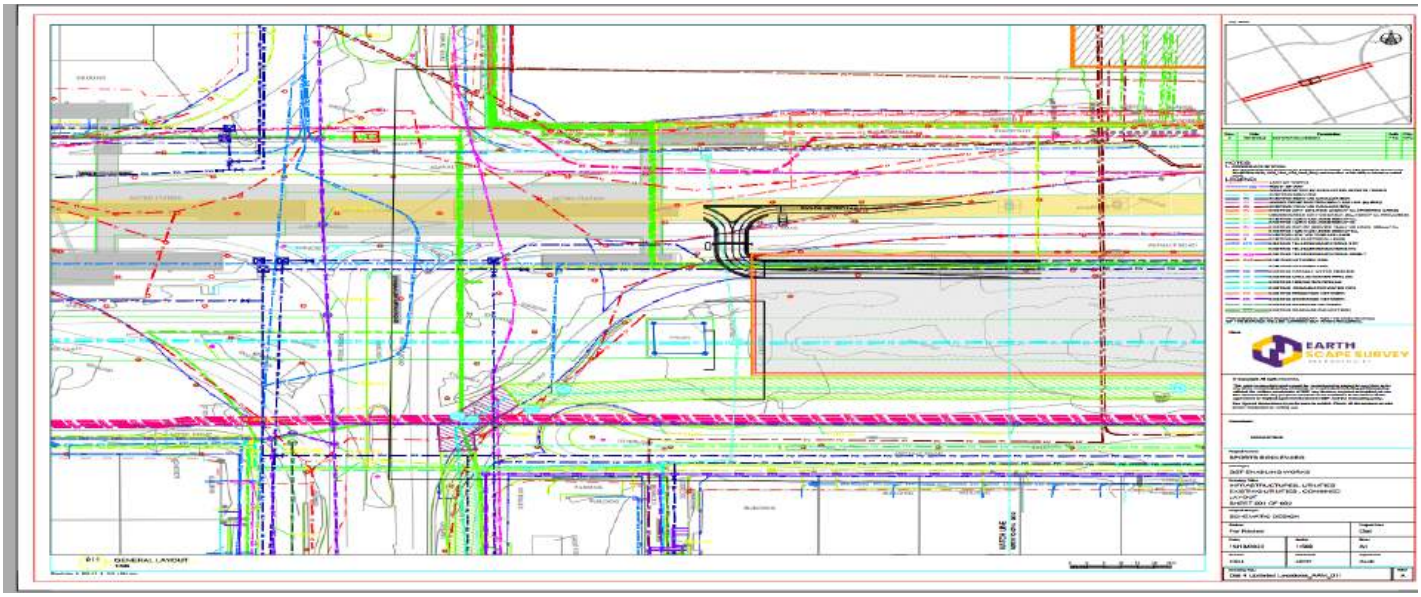
GROUND PENETRATING RADAR (GPR)

Our Ground Penetrating Radar (GPR) technology offers high-resolution imaging of the subsurface to detect both metallic and non-metallic utilities. GPR provides precise data on location, depth, and alignment, making it ideal for utility mapping, concrete scanning, and archaeological investigations while minimizing disruption and maximizing project accuracy.



DELIVERABLES

At EarthScape Technologies, our skilled team brings extensive experience across projects of all sizes, from large scale developments like international airports to smaller sites such as residential areas.



PAS128 UTILITY SURVEYS

Supported by the British Standards Institute (BSI), PAS 128 provides standardized guidelines for underground utility detection, verification, and location. At EarthScape Technologies, we have adhered to PAS 128 specifications developed by the Institution of Civil Engineers (ICE) since its introduction in 2014. This standard ensures best practices across every stage of the process, including project planning and scoping, quality-level classification, desktop utility records searches, detection, verification, accurate location mapping, and the preparation of precise deliverables. By following PAS 128, we guarantee consistency, reliability, and accuracy in every utility survey we deliver.

BENEFITS

- Adhering to the PAS 128 standard provides numerous advantages that enhance the accuracy and safety of underground utility surveys. It enables project teams to make informed decisions using up-to-date and precise data, significantly reducing the risk of conflicts, delays, utility disruptions, redesigns, personal injuries, and even loss of life.

- Accurate utility data also opens the door to innovative applications, such as the future use of remote robotic techniques to maintain underground assets in busy highways, reducing the need for disruptive excavations.



TOPOGRAPHIC SURVEYS

At EarthScape Technologies, we use advanced instruments and streamlined processes to deliver accurate and reliable topographic surveys, even in complex environments. These surveys support every project stage, from planning and design to construction and handover. Using laser scanning, GPS, robotic total stations, and digital level technology, we capture precise data on site levels, structures, roads, surface variations, and boundaries, then map it into high quality 2D or 3D digital formats tailored to client needs.



LASER SCANNING

At EarthScape Technologies, we use laser scanning with Total Stations to capture millions of survey points in minutes. This enables efficient surveys of large projects and restricted areas, reducing on-site time. The high accuracy and detail minimize repeat visits, and the data supports creating plans, elevations, sections, fly throughs, AR views, and detailed models.



BENEFITS

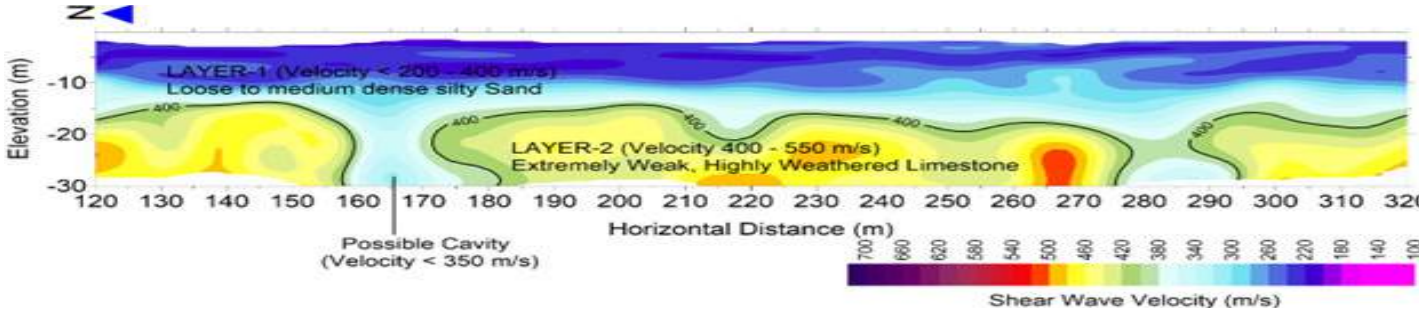
- Reduced time on-site with better access to restricted areas
- Minimized fieldwork, eliminating additional site visits
- No re-surveys needed, as data is stored as a precise point cloud



MULTICHANNEL ANALYSIS OF SURFACE WAVES

Multichannel Analysis of Surface Waves (MASW) is robust and efficient geophysical investigation technique which analyzes the dispersion properties of surface waves to estimate subsurface geological conditions including ground stiffness (shear modulus), stratigraphy (geological layering) and their stiffness, highly weathered rock, cavities, vids, karst, buried channels, very soft to soft clay pockets, loose to very loose sands, clay bulges and possible ground water flow paths.

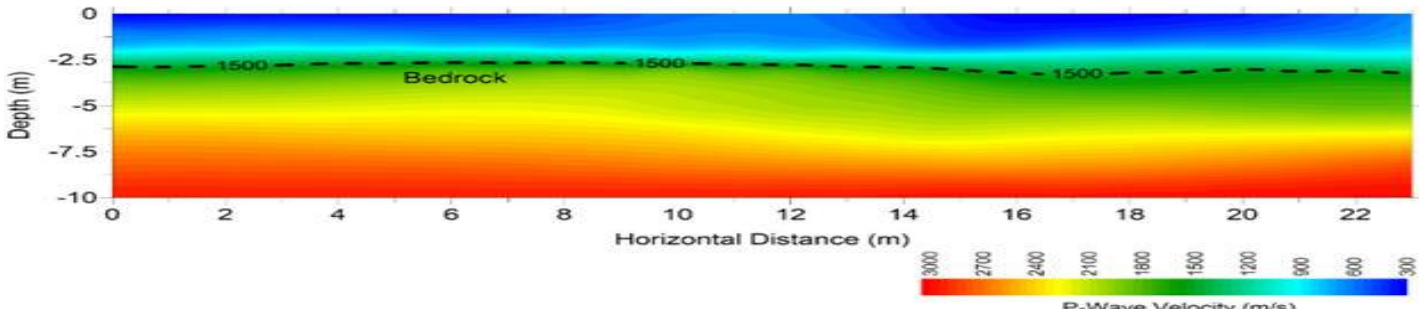
Our data acquisition, processing and interpretation capabilities can deliver robust ground mapping results in terms of above mentioned geological and geotechnical objectives. An example section below highlights ground layers down to 30m depth and indicates the possible cavity/void within the Limestone.



SEISMIC REFRACTION

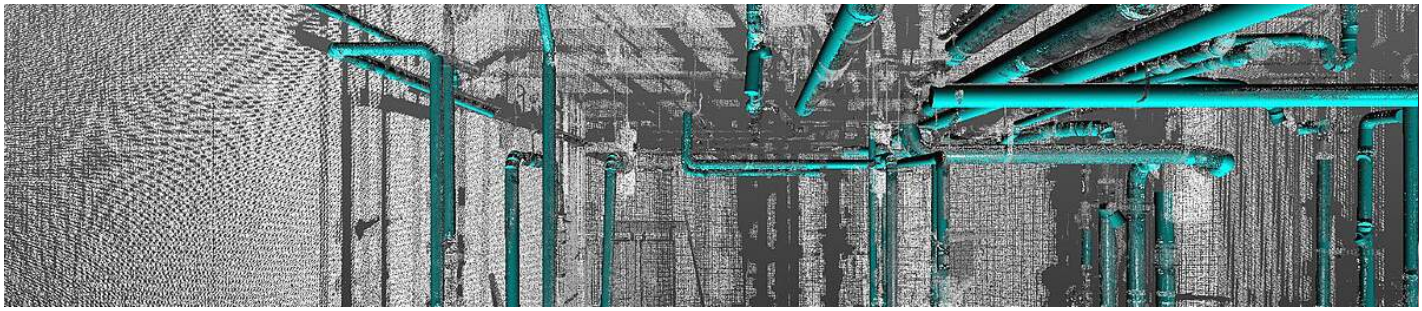
Seismic Refraction testing (SRT) is a geophysical investigation technique which images the subsurface for its rippability characteristics, depth to bedrock and to determine the excavation category. The depth of investigation will be limited to 1/3rd to 1/2 of the total spread length depending on the P-Wave arrivals.

Our data acquisition, processing and interpretation capabilities can deliver robust ground mapping results in terms of above mentioned geological and geotechnical objectives. the example sections below highlights ground layers down to 10m depth and indicates the depth to bedrock and excavation category interpretation.



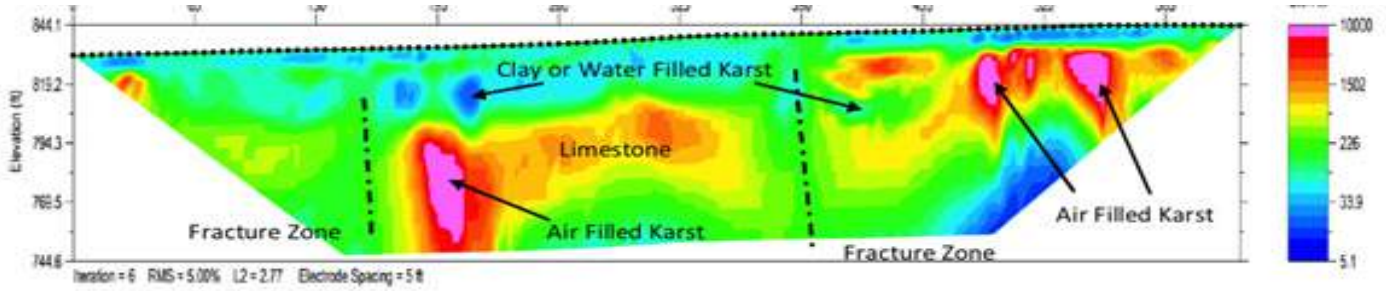
BUILDING INFORMATION MODELLING (BIM)

At EarthScape Technologies, our skilled team brings extensive experience across projects of all sizes, from large-scale developments like international airports to smaller sites such as residential areas. Our utility surveyors and GPR specialists excel in data collection and processing, ensuring results of the highest accuracy and quality. All survey findings are precisely located, mapped, and converted into digital formats for 2D or 3D drawings, providing clients with a clear and comprehensive underground utility representation. Deliverables can be customized to meet specific requirements, including PAS128 compliance, BIM Level 1 or 2 standards, 2D/3D cylindrical models, and CAD layer management tailored to sector or client specifications.



ELECTRICAL RESISTIVITY TOMOGRAPHY (ERT)

At Earthscape Survey, we specialize in providing reliable Electrical Resistivity Tomography (ERT) surveys to help identify what lies beneath the ground. ERT is a simple yet powerful method that uses electrical currents to map the resistivity of underground materials. This information helps us understand the type of soil, water content, and other geological features, making it useful for environmental studies, construction projects, and archaeological work. Our team uses advanced technology and experienced professionals to deliver accurate results quickly and safely. Whether you need to solve underground challenges or gather important subsurface data, Earthscape Survey is your trusted partner for clear and effective ERT solutions.



GPR SURVEYS

Ground Penetrating Radar (GPR) is a non-intrusive method used to locate and map subsurface features. It is commonly applied for utility detection, structural assessments, void detection, geology, archaeology, and environmental studies. GPR works by sending electromagnetic pulses into the ground and analyzing reflections to determine the location and depth of objects. Lower antenna frequencies allow deeper penetration with less detail, while higher frequencies provide clearer results at shallower depths.



HOW EARTHSCAPE USES GPR

At EarthScape Technologies, our expert team uses advanced IDS and GSSI equipment, including a quad-towed antenna for wide-area coverage and a 40-channel vehicle-mounted array for high-traffic zones. By integrating GPR and EML data, we deliver precise, PAS128-compliant utility drawings, ensuring accurate and reliable results for every project.



COMBINING GPR WITH EML

For high-traffic zones, our 40-channel vehicle-mounted array collects extensive data in a single pass, reducing risks without road closures. By combining GPR and EML data, we deliver precise, PAS128-compliant digital models, ensuring safer and more confident construction planning.



STRUCTURAL REBAR MAPPING

Identifying structural beams or columns can be challenging, especially when they are encased within mezzanine floors or stud walls. Without destructive investigation, determining their exact position is nearly impossible. Using non-destructive GPR scanning, our experienced surveyors can quickly locate structural members within walls or floors. The findings can be marked on-site or processed later to produce detailed 2D CAD drawings.



HOW EARTHSCAPE PERFORMS REBAR MAPPING

At EarthScape Technologies, we combine advanced GPR technology with expert analysis to deliver precise and reliable results. Our skilled team ensures that even in complex structures, every reinforcement is accurately identified and mapped. This approach supports efficient planning and reduces the risk of costly errors or safety issues during construction or renovation.



BENEFITS

- Enables safe construction by knowing exact beam or column locations, preventing injuries from load failure.
- Helps Structural Engineers and Architects plan projects accurately around existing reinforcements.
- Ensures beams and columns can be safely supported when removing load-bearing walls.



STRUCTURAL BEAM LOCATION

Locating structural beams or columns can be difficult when they are encased within mezzanine floors or stud walls. While their presence is often indicated in plans, determining their exact position without destructive methods is challenging. Using Ground Penetrating Radar (GPR), experienced surveyors can quickly and accurately identify structural members non-intrusively. The data can be marked on-site or processed later to generate detailed 2D CAD drawings for precise planning.



DETAILED BEAM LOCATION INSIGHTS

Our beam location surveys deliver precise, non destructive detection of hidden structural elements, using advanced GPR technology to ensure accuracy and reliability. This process is invaluable for construction, renovation, or structural assessment projects where safety and precision are critical. By identifying exact positions of beams and columns, we help clients plan effectively, minimize risks, and maintain the structural integrity of their sites throughout the project lifecycle.



BENEFITS

- Ensures construction can proceed safely by identifying exact beam and column locations, preventing load failure risks.
- Assists Structural Engineers and Architects in planning projects around existing reinforcement.
- Allows beams and columns to be safely supported when removing load-bearing walls.



CONSTRUCTION AND ENGINEERING SURVEYS

At EarthScape Technologies, we ensure accurate site setup for safe and efficient project execution. Using advanced robotic Total Stations, we handle everything from layout transfers to setting out gridlines and level datums, keeping projects on schedule with precision.



OUR APPROACH

We work collaboratively with clients to establish reliable control systems that serve as the foundation for all survey tasks. Our team also conducts setting-out checks for other trades and as-built surveys, ensuring every phase of the project meets tolerance and quality standards.



BENEFITS

- Maintain the integrity of the site by using a mix of GPS and Total Station instruments
- Reduce inaccurate data, avoiding delays and ensuring timely project completion



DRONE (UAV) SURVEYS

Unmanned Aerial Vehicle (UAV) or drone surveys significantly reduce project time by collecting accurate data quickly and efficiently. Drones can easily access and hover over specific sites, with adjustable height and camera angles for optimal coverage.



HOW EARTHSCAPE USES DRONE TECHNOLOGY

At EarthScape Technologies, we utilize advanced drone systems to conduct highly accurate aerial surveys. Our drones provide rapid mapping of large or hard-to-reach areas, ensuring minimal disruption on-site. By integrating drone data with other survey methods, we deliver comprehensive visual insights, enabling precise planning, design, and project execution.



BENEFITS

- Efficient surveying of large areas, individual properties, or hard-to-reach locations
- Reduced health and safety risks
- Minimal disruption, requiring only a clear line of sight for navigation
- Environmentally friendly surveying solution



MISSION & VISSION

At EarthScape Technologies, we deliver accurate, reliable, and innovative geophysical and geological solutions to help clients make informed, sustainable decisions. By combining advanced technology with deep expertise, we ensure every project is handled with precision and efficiency.

MISSION

Our mission is to deliver accurate, reliable, and innovative geophysical and geological solutions that empower our clients to make informed, responsible, and sustainable decisions. We strive to combine advanced technology with deep expertise to ensure every project achieves precision, efficiency, and value.

- Precision, innovation, and trust in every project.

VIssion

Our vision is to become a leading name in geophysical and geological services, known for our innovation, integrity, and commitment to quality. We aim to shape the future of subsurface exploration by evolving our methods and fostering long-term partnerships built on trust and excellence.

- To lead the future of geophysical and geological services.



TRIAL PITS

va are controlled excavations carried out to investigate subsurface conditions for geotechnical and geophysical studies. These excavations allow direct access to the soil profile, helping experts understand the composition, layering, and physical characteristics of the ground. They are commonly used during the early stages of project planning to reduce uncertainties and improve the accuracy of design and construction decisions.

At EarthScape Technologies, trial pits are executed with precision and safety, ensuring minimal disturbance to the surrounding environment. By combining this method with advanced survey data, we provide our clients with comprehensive subsurface insights that enhance the quality and reliability of project planning and implementation.

ANALYSIS OF TRIAL PITS



Visual Inspection

During visual inspection, our engineers examine the soil layers, noting color, texture, and consistency for an accurate profile.

This process provides essential insights into soil conditions, helping determine the suitability of the site for construction and identifying potential challenges early in the project.



Utilities Confirmation

After a GPR survey, trial pits are excavated to verify underground utilities. This includes checking the material type, depth, and alignment of pipes or cables.

By confirming these details, we help minimize risks, ensuring that construction or drilling activities proceed safely and efficiently.t



Sampling

Soil samples are carefully collected at various depths and securely preserved for detailed laboratory analysis.

In the lab, tests such as grain size analysis, Atterberg limits, compaction tests, and shear strength tests provide valuable data on soil behavior, ensuring reliable design and engineering solutions.



Contamination Testing

Our lightweight foam concrete solutions provide superior thermal insulation, fire resistance, and structural stability.

This innovative material is widely used in roof insulation, void filling, and lightweight construction, ensuring energy efficiency and long-lasting durability.

Groundwater Monitoring

Trial pits also allow for groundwater observation during excavation. Water levels and conditions are carefully measured and documented.

This data supports hydrogeological analysis, aiding in foundation design, water management planning, and long-term site safety strategies.



WHY CHOOSE US

At EarthScape Technologies, we combine expertise, innovation, and precision to deliver results that exceed client expectations. Our commitment to quality and accuracy ensures every project is handled with the highest standards of professionalism. We use advanced technology and proven methodologies to provide reliable data and actionable insights, helping clients make informed and confident decisions. From small-scale surveys to complex projects, our dedicated team ensures timely execution and exceptional support throughout the process.

EXPERTISE

- Our team of skilled geophysicists, engineers, and analysts brings years of experience and in-depth knowledge, ensuring precise and reliable results for every project.

TECHNOLOGY

- We leverage cutting-edge geophysical tools and advanced data analysis techniques, guaranteeing accuracy and efficiency in all our surveys and solutions.

CUSTOM SOLUTIONS

- Every project is unique, so we deliver tailored solutions that address specific client needs, ensuring the best possible outcomes every time.

SUSTAINABILITY

- We are committed to sustainable practices, ensuring that our methods are safe, environmentally responsible, and aligned with global standards.

PROJECTS
GALLERY





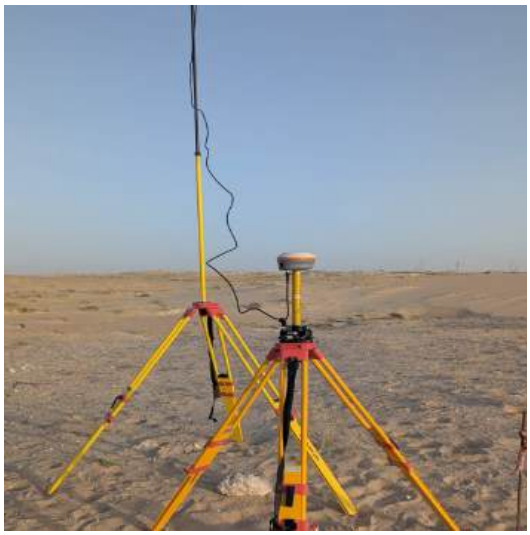


























EARTH SCAPE SURVEY
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GET IN TOUCH

Thank you for considering us. For inquiries, support, or project discussions, feel free to contact our team. We're always ready to assist and provide the right solutions for your needs.

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