



WELCOME TO REACHING

new heights.

AERIAL DRONE SERVICES



UNMANNED aerial systems.

Impact Environmental is bringing our expertise in environmental consulting and services to new heights.

Unmanned Aerial Systems

Unlock the value of your projects with our cutting-edge drone mapping services, designed to elevate your capabilities and redefine industry standards. At Impact Environmental, we harness the power of advanced drone technology to deliver precision, efficiency, and unparalleled insights for your construction and environmental needs, particularly in urban areas where access can be challenging.

With multiple drone platforms, sensors, and pilots, Impact Environmental has provided drone mapping for nearly ten years in several states complying with various local and federal regulations.

We offer these services to our clients to elevate operations, prioritize cost-effective and safe monitoring, enhance decision-making, and embrace the future.

Impact has the capability to deploy various applications and provide deliverables that can be customized to specific projects and client needs. Each deliverable will provide flight mission details and accuracy check with quality assurance protocols. You will always know the quality of the data you receive. Integrating our team of UAS pilots and geospatial analysts direct into mission planning ensures precise and accurate data that meet the project goals to enhance decision making.

Capabilities

- **Orthomosaic Maps / Aerial Imagery**
- **Site Planning Maps / Alphanumeric Grid**
- **Volumetric Assessment**
- **Elevation / Topographic Maps**
- **Cut and Fill Assessment**
- **Slope and Aspect Data**
- **Routine Progress Monitoring**
- **As-built Captures / Inspections**
- **3D Site Models / Structures Rendering**
- **SWPPP Inspections / Drainage Mapping**
- **Surface Hazards Mapping**
- **On-demand Deliverables**
- **Site Showcase / Marketing**
- **Data Capture for Client Processing**
- **Agricultural Quality and Irrigation Maps**
- **Photovoltaic Maintenance & Monitoring**
- **Horizontal Accuracy up to 10mm and Vertical Accuracy up to 25mm**

URBAN CHALLENGES

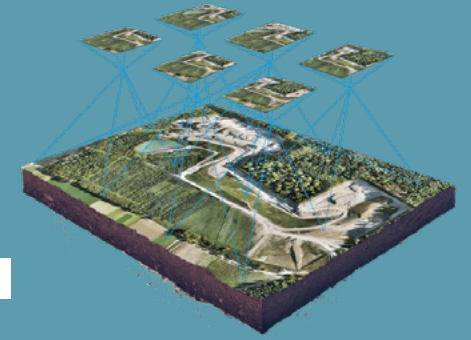
Urban landscapes offer unique challenges for drone maps, including complicated infrastructure, obstacle avoidance, tightly regulated airspace, building shadows and satellite positioning. But with the right expertise, technology, and planning, these challenges become opportunities for innovation. No matter the complex environment, we ensure the mission is accomplished.

NUMBER OF
Acres Mapped | 31,202



**CERTIFIED
DRONE PILOTS**

A WHOLE new perspective.



Innovative Drone Deliverables for Smarter Management



Orthomosaic Maps & Aerial Imagery

Visualization/Map

Capture detailed, high-resolution aerial views of your site for planning, monitoring, and marketing purposes. Our orthomosaic maps provide accurate representations of your project area, stitched together seamlessly for comprehensive analysis.



Site Planning Maps - Alphanumeric Grid

Visualization/Map

Enhance your site planning with precise maps featuring alphanumeric grids and designated areas. This allows for easy navigation, location referencing, and efficient communication among your team members.



Volumetric Assessment

Analytical Report

Accurately measure stockpile volumes, earthworks, and excavations with our volumetric analysis services. Save time and reduce errors with precise, quick calculations.



Elevation & Topographic Maps

Visualization and Analytical Report

Gain insights on surface elevations and landforms to inform your planning and engineering decisions. High level accuracy means you don't need field crews taking days to perform conventional assessment work.



Cut and Fill Assessments

Visualization and Analytical Report

Optimize construction efforts by accurately determining material requirements for site grading. Visualize your activities in real time to your intended surface design elevations.



Routine Construction Progress Monitoring

Analytical Report

Keep stakeholders updated with regular aerial data that track the progress of your projects. Identify potential issues early and ensure your project stays on schedule.

INTEGRATED SOLUTIONS

Our reports integrate seamlessly with industry-standard software platforms, including GIS, CAD, and cloud-based collaboration tools like Procore and Autodesk, ensuring you can easily incorporate our data into your workflows. Most of all, our deliverables feature clickable content to see your site within an online interactive viewer.

NUMBER OF
Years Experience

>10

FOCUS ON precision

redefined.

Experience the next level of drone technology with Impact Environmental – where quality and accuracy are at the heart of everything we do.

Unmatched Quality

At Impact Environmental, we are committed to delivering excellence through our cutting-edge drone mapping services. Our advanced drone technology ensures precision and accuracy in every mission, providing our clients with the data they need to make informed decisions.

Uncompromising Accuracy

Using state-of-the-art GPS and high-resolution sensors, our drones capture intricate details with pinpoint precision. Whether it's a large-scale construction site, an environmental remediation project, or sensitive land management work, our aerial data captures even the smallest of changes, offering real-time insights that enhance decision-making.

Industry-Leading Quality Control

We adhere to stringent quality control protocols at every stage of

the process, from data collection to analysis. Every image, point cloud, and 3D model is rigorously checked for consistency, ensuring that our outputs are not just visually stunning but also technically flawless. Our certified drone pilots employ cross-validation techniques and multiple data checkpoints to guarantee accuracy you can trust.

Proven Accuracy Standards

By leveraging the latest advancements in drone photogrammetry, LiDAR, and thermal imaging technology, we can achieve results with sub-centimeter accuracy. This precision helps you minimize risks, reduce costly errors, and streamline your project timelines with confidence.

Tailored to Your Needs

Our services are fully customizable to fit your project requirements, whether you need accurate

topographical maps, volumetric calculations, or environmental assessments. Each project is delivered with detailed reports, interactive maps, and 3D models, giving you actionable data at your fingertips.

Why Choose Us?

- **State-of-the-art Drone Fleet** – Equipped with the latest technologies.
- **Certified Experts** – Our team of skilled pilots and GIS specialists ensures every project meets the highest industry standards.
- **Fast Turnaround** – Efficient data collection and delivery means faster results for your project.
- **Comprehensive Solutions** – From data capture to analysis, we provide end-to-end drone services designed for accuracy.

A DECADE OF EXPERIENCE

Nearly ten years ago, Impact Environmental began using advanced drone mapping techniques to support remediation activities with integration of ArcGIS to create sophisticated outputs to end users (USEPA).

NUMBER OF
Square Feet
Revitalized

48.85
million

MEASURING VALUE OF

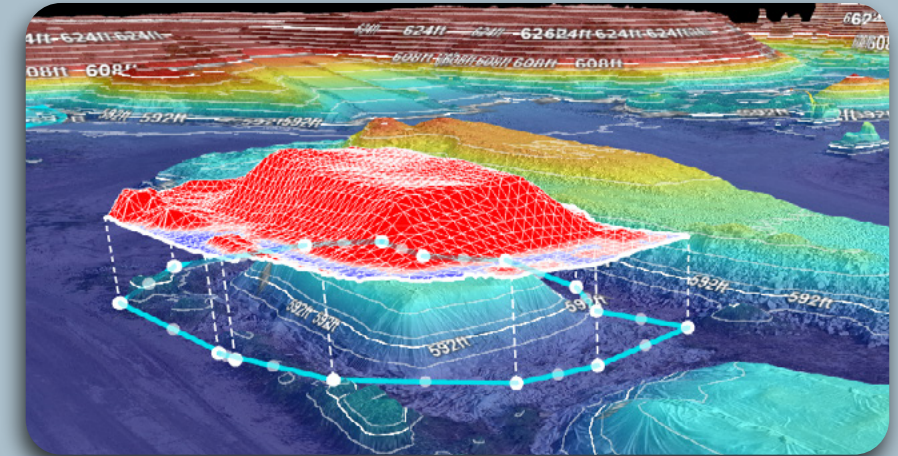
stockpile

volumetrics.

Take Control of your Material Inventory

Our drone-based volumetric assessments offer an advanced, cost-effective solution for accurately measuring stockpile volumes, empowering you to make data-driven financial decisions. Whether you're in construction, environmental remediation, agriculture, or industrial operations, our drones help you streamline processes, reduce waste, and improve your bottom line.

Accurate material tracking is crucial to controlling costs in various sectors. In environmental remediation or construction projects, managing material stockpiles such as contaminated soil, fill, C&D debris, or vegetation is a key expense. Traditional stockpile measurement methods are labor-intensive, time-consuming, and often inaccurate, leading to potential material shortages, overstocking, and financial waste. Our drones, equipped with high-resolution sensors, generate detailed 3D models of stockpiles—calculating exact volumes with sub-centimeter accuracy. With precise inventory data, you can avoid over-ordering materials, minimize wastage, and ensure efficient resource allocation.



The ability to conduct frequent, automated drone imaging allows you to monitor material usage in real time, eliminating the costly guesswork associated with manual stockpile assessments. This not only saves on labor and equipment costs but also prevents project delays caused by inventory mismanagement.

Highly Accurate Volume Calculations

Optimize transportation and disposal costs, ensuring that only the exact amounts

of material are moved. This level of precision reduces the risk of overspending on logistics and waste management, keeping your project under budget while maintaining regulatory compliance.

With drone technology, you can schedule frequent stockpile audits, ensuring real-time inventory tracking without halting operations, enabling better supply chain management and providing reliable data for financial forecasting.

CUMULATIVE VALUE

Switching to drone-based volumetric analysis creates a powerful cumulative effect overtime by delivering cost savings in various ways. This leads to significant reductions in labor costs, improved material management, and minimized errors. The result is a scalable, long-term solution that enhances efficiency and delivers growing financial benefits with each use.

NUMBER OF
Stockpile Material
Analyzed

>5.5M
cubic yards

AREA: 5400.23 sqft

CUT: 198.96 cu.yd

VOL: 198.96 cu.yd

FILL: 144.04 cu.yd

VALUE: \$30,273.79

EXPERIENCE
defining an industry for over

three decades.

Since 1989, our integrity, our dedication to detail and ethical business practices have earned Impact Environmental the respect of both developers and governmental regulators throughout the region.

We understand the exhaustive criteria of governmental agencies looking at your project, and we have the professional know-how to serve the best interests of all parties concerned. We work to achieve a workable, viable balance. Our bottom line is... "total client satisfaction."

We're involved in major capital improvement projects in the Northeast, often partnering with local governments as well as developers and financial institutions. For example, we led the project team that won the Phoenix Award for the

remediation of the former Rheingold Brewery, a site that now features low-cost housing for 125 residences.

Find a way or make a way

Not only are we one of the most established and qualified leaders in this industry; we are also one of the most innovative. Our continued challenge is to find the right solution for a specific need. As creative problem solvers, we are relentless in developing efficient strategies for complex environmental problems.

You're covered because we are.

We carry comprehensive insurance that includes Professional Errors and Omissions and Contractors Pollution Liability policies that have been specifically customized for our clients' needs.

Key policy riders and endorsements:

- 1st Party Transport Coverage
- 3rd Party Transport Coverage
- Disposal Site Coverage
- Blanket Additional Insured Coverage
- Waiver of Subrogation Coverage
- Disposal Site Selection Coverage
- Project Management Coverage
- Terrorism Coverage
- Designated Unmanned Aircraft Coverage

DEFINITION OF IMPACT

Impact Environmental has been providing waste management and environmental engineering services to clients, big and small, for over three decades. We are focused on creating value in our business.

Since environmental services are often conditioned, we have found ways to be driven by the clients' needs and not ours. Offering options from dead-end positions is what has and always will separate us.

It is our mission to introduce this difference of corporate culture and conduct onto the marketplace. Welcome to solid ground.



Welcome to Solid Ground™

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