DID YOU KNOW? *Newsletter No. 114 - June 2025*

GRLWEAP14 offers single user or Network licenses in 'Professional' or 'Offshore Wave with Professional' versions.

Secure, Real-Time Data Access and Management with ATLAS™

by Matthew Lacek, P.E. and Yuvraj Subedi

Pile Dynamics, Inc. (PDI) released ATLAS™ Secure Cloud Data Management Services in late Q1 2025. ATLAS, a centralized, all-in-one platform designed specifically for the deep foundations industry, simplifies project data and device management, providing tools for sorting, storing, viewing, and sharing QC testing data securely in a single platform.

ATLAS makes project management both intuitive and customizable. Administrators can easily add or remove users, assign roles, and control access levels such as read-only permissions, ensuring that only authorized users can access company data such as analysis reports, field logs, and installation details, protected by advanced authentication and encryption protocols.

PDI offers ATLAS Secure Cloud Data Management Services for Thermal Integrity Profiler (TIP) and SAXIMETER-Q (SAX-Q) projects. It has built-in viewers for documents (PDFs, images, CSVs, etc.) and visualization tools for industry-specific data from Thermal Wire® cable readings and SAXIMETER-Q drive logs providing collaborative access to sort and share data directly within the platform.

TIP Data Summary Screen from ATLAS

Thermal Integrity Profiler (TIP)

ATLAS enhances the TIP system with intelligent pile setup using smart algorithms to identify and group matching Thermal Wire® cables. Shaft validation tools and live temperature charts (Temp vs. Depth, Temp vs. Time) give users immediate feedback on curing progress.

A notable case in Texas illustrated the resilience and practical benefits of the ATLAS platform. During a large highway expansion project in a metropolitan area, contractor field technicians conducted Thermal Integrity Profiling (TIP) on drilled shafts across a site with multiple bridges. Unfortunately, the hardcopy field sheets documenting cable serial numbers, shaft length, shaft diameter, and placed concrete volume were held for 2 to 3 months or misplaced completely during project engineer turnover. With traditional workflows, this delay or loss would have slowed down analysis and reporting by weeks and required duplicate testing or extensive forensic review of incomplete notes.

Thanks to ATLAS' real-time data management and secure cloud infrastructure, project engineers were able to retrieve most pertinent TIP data directly from the device interface. Since the ATLAS platform automatically synced readings and project files during logging, authorized users could simply log into the project dashboard and access TIP cable information without relying on the lost paperwork. What could have been a critical delay was resolved in minutes.

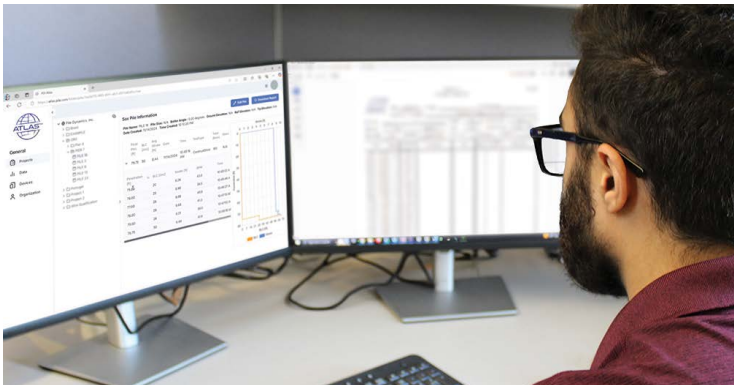
This incident highlighted one of ATLAS' most valuable features: the assurance that field data is never dependent on local documentation alone. By ensuring that data captured on devices like the TAG and TAP Edge is uploaded in real time and archived securely, ATLAS provided the Texas team with immediate access to validated test results. This not only averted costly delays but also reinforced confidence in digital workflows and platform-integrated QA/QC processes within the broader project consortium.

SAXIMETER-Q (SAX-Q)

With SAX-Q, ATLAS eliminates the need for manual device entry by allowing pre-configuration of piles and hammer settings using the integrated GRLWEAP hammer database. ATLAS visualizes drive logs with Stroke per Depth and Blow Count per Depth charts and merges multiple drive sequences into a unified view. Users can apply Inspector's Charts across multiple piles and instantly identify whether drive criteria have been met.

The Indiana approach bridges portion of the Ohio River Crossing (ORX) Project have demonstrated how the ATLAS platform can benefit a large-scale pile driving operation. Pile projects, particularly with challenging driving conditions, may require meetings and discussions to review and evaluate pile driving results. On the ORX project, the Saximeter-Q was used to log the blow count and hammer stroke height for hundreds of piles, which were uploaded daily into ATLAS. This allowed for real-time data sharing, enhanced collaboration and transparency in pile driving data management.

ATLAS data sorting and sharing capabilities meant multiple team members could log into the platform simultaneously during meetings to view real-time data. The electronic records eliminated the need to interpret handwritten notes, reducing potential user error. Additionally, the key information for each driving sequence was summarized and it generated digital

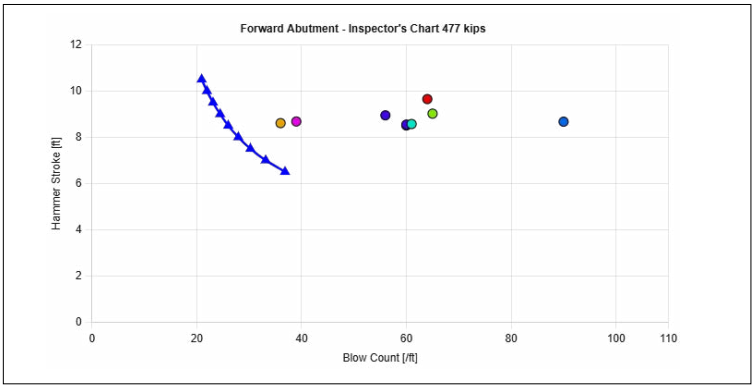


SAX-Q Data Summary Screen from ATLAS

reports in a fraction of the time it would take to sort and review manually.

"The ability for all project members to be logged in at the same time and viewing a summary of data helps us remediate problems quicker, ultimately saving time and money," states Travis Coleman, P.E. GRL Engineers, Inc. ***"ATLAS is night and day from the traditional deciphering of information via handwritten drive logs."***

The ATLAS platform presented graphical summaries of the final penetration, blow count and hammer stroke heights, which allowed for quickly identifying any outlier results.



SAX-Q Inspector's Chart

"Utilizing the Sax-Q with the ATLAS system has been a lifesaver on a project that has multiple piers with 20-25 piles per pier. We no longer have a lag in data review. With the ATLAS system, everything is at the user's fingertips with uploads to the cloud for all users to view daily," said Cassy Wade, Senior Engineer, Parsons.

Many projects are on the ATLAS platform globally. As new features are added, users can expect even greater insight, efficiency, and collaboration in their workflows.

To learn more, visit our website. If you are a current TIP or SAX-Q user and would like to utilize the ATLAS Secure Cloud Data Management platform, contact atlassupport@pile.com.

Upcoming Events

Jun 18-20 SuperPile 25, Cleveland, OH; Booth #303.
Hal Hunt Lecturer: Mohamad Hussein; Presenters: Ben White, Van Komurka, and Travis Coleman

See us at the Rock Hall Reception

Jun 20-22	ADSC Summer Meeting, Kohala Coast, HI
Sep 1-4	SEFE 11; Sao Paulo, Brazil
Sep 8-10	DFI India; Surat Gujarat
Sep 9-10	DICEP; Orlando, FL
Sep 14-18	SEI Electrical Transmission and Substation Structures Conference, ***Presenter: George Piscsalko***
Sep 15-18	Southeastern Transportation and Geotechnical Engineering Conference, Williamsburg, VA
Sep 21-24	GeoManitoba, Winnipeg, Canada
Sep 30-Oct 1	GeoCarolinas, Charlotte, NC
Oct 14-15	OTEC, Columbus, OH
Oct 20-23	DFI Annual 50, Nashville, TN

A complete list of PDI and GRL events can be found on pile.com or grlengineers.com

GRL Engineers' Florida Office Expands Team

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