



CASE STUDY

From legacy system challenges to streamlined multi-facility laboratory operations: A LIMS success story

Introduction

For a leading engineering and project management firm (the Client), laboratory quality control is essential in their process for developing and supporting complex technical programs. The Client's laboratory data includes testing and categorizing all materials throughout their processes, requiring meticulous tracking from receipt to final disposition.

Their legacy laboratory information management system (LIMS) had served them well for many years, but when they lost their primary technical support resource for this system, the Client recognized an urgent need to identify a sustainable solution.

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“Every time and anytime I've reached out [to Wavefront] it has been very quick and responsive.”

- Client's LIMS and Database Administrator

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The Journey to Wavefront

The Client's technical team began by carefully evaluating their options. Given their internal programming expertise, developing an in-house system seemed initially attractive. However, this prospect raised familiar concerns about long-term sustainability and support – the very challenges they were currently facing with their legacy system.

Exploring further options, the team looked to their network of affiliate companies, many of which had implemented their own LIMS solutions. While these affiliate-developed systems offered the advantage of shared resources across sites, they still presented similar support sustainability concerns. The team also investigated various commercial solutions, but many proved prohibitively expensive, prompting further market research.



During this exploration, the Client discovered that Wavefront LIMS was already successfully deployed at several of their affiliate facilities. This discovery led to a deeper investigation of the platform, ultimately revealing strong alignment with their laboratory management requirements.

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“One of the things that I liked about Wavefront LIMS was that it gave the capability for support to work with you and develop [the system].”

- Client's LIMS and Database Administrator

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Benefits Realized

The transition to Wavefront LIMS delivered several significant advantages for the Client. Perhaps most notably, the system dramatically simplified data exchange with affiliate facilities. Wavefront's existing experience with their corporate network streamlined the integration process, significantly reducing the manual effort previously required for daily data transfers.

The implementation introduced valuable visual management tools, including intuitive color coding, alongside robust user security roles. These features transformed daily operations, providing laboratory staff with instant status updates and peace of mind regarding data security. Tasks that once required extensive manual data extraction and analysis could now be completed with a quick glance at color-coded dashboards.

The proven support relationship between Wavefront and their affiliate companies proved to be another crucial advantage. The Client required a long-term solution, and Wavefront's established presence, responsive support team, and willingness to address customization requests provided the stability they sought.

Wavefront's highly configurable platform adapted readily to the laboratory's specific needs. In cases where requirements extended beyond standard functionality, Wavefront's team collaborated closely with the Client to develop and implement custom solutions, ensuring the system precisely matched their operational requirements.



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“The aspect of user roles and responsibilities gives me a piece of mind that the system is protected from inadvertent entries or issues.”

- Client's LIMS and Database Administrator

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Summary

This migration represents more than just a system upgrade – it exemplifies how thoughtful evaluation and selection of a laboratory management solution can enhance operational efficiency while ensuring long-term sustainability. Through their partnership with Wavefront, the Client has established a robust foundation for their laboratory operations, supported by reliable technology and a responsive support network.

Many laboratories face similar challenges in today's rapidly evolving technological landscape, from managing aging systems to streamlining multi-facility operations. The Client's successful transformation demonstrates how a modern, well-supported LIMS solution can address these common industry challenges while providing a platform for future growth and innovation.

To learn more about how Wavefront LIMS can support your laboratory's unique requirements, contact Wavefront Software to schedule a demonstration of our solution here: [Schedule a Demo](#).

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