

CASE STUDY

Small Lift Station Upgrade with E/One - Rumford, Maine

Overview: In Rumford, ME, a small lift station servicing four homes required significant upgrades due to the corrosion of its original duplex submersible sewage pump station. The corrosion had severely impacted the system's efficiency and reliability, which led the team to consider an alternative solution. By leveraging the innovative capabilities of E/One's products and services, the team was able to transform the existing station into a highly durable and efficient E/One duplex lift station, demonstrating how E/One can serve as a versatile and effective solution in unique situations.

Challenge: The original sewage lift station in Rumford, ME, was operating with an aging and heavily corroded duplex submersible pump station. This corrosion posed a significant risk to the system's ability to function reliably, and repairs or replacements were needed to avoid future breakdowns. With the goal of improving the station's durability and operational efficiency, the challenge was to identify a solution that would prevent further corrosion while maintaining the long-term reliability required for the community.

Solution: E/One's engineering and service team, in partnership with the product leaders, recognized an opportunity to utilize E/One's versatile products for this small but critical lift station. By replacing the outdated and corroded components with E/One solutions, the team was able to provide a comprehensive upgrade.

Key upgrades included:

- **Stainless Steel Bulkhead Fitting:** This durable and corrosion-resistant fitting was installed to ensure the system's long-lasting performance, preventing the common wear and tear caused by rust and environmental factors.
- **Schedule 80 PVC Piping:** PVC piping was chosen for its superior resistance to corrosion, ensuring that the system would maintain its integrity even in harsh conditions.
- **Duplex Protect Plus Panel:** This advanced control panel ensures that the pumps operate efficiently and safely, providing added protection against electrical surges and faults, and extending the system's lifespan.

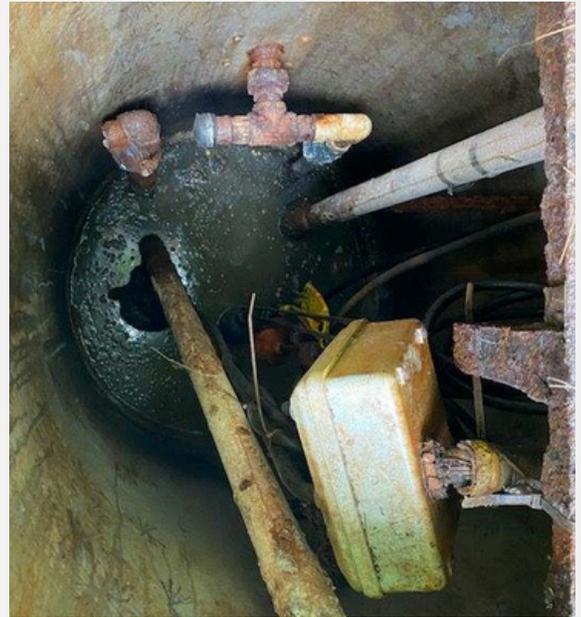


- **Two WH Series E/One Pumps:** The E/One pumps were selected for their durability, performance, and efficiency, offering a reliable solution for sewage pumping needs. The WH series pumps are designed to handle a wide range of applications, ensuring consistent and reliable operation.

Results & Impact: The upgrade of the lift station in Rumford, ME, with E/One products has significantly improved the system's reliability, durability, and overall performance. The corrosion-resistant materials and high-quality components have provided a long-term solution that will support continuous operation for years to come.

- **Increased Durability:** The stainless steel bulkhead fitting and Schedule 80 PVC piping have ensured that the system can withstand environmental challenges and prevent the corrosion issues that plagued the original station.
- **Improved Reliability:** The installation of the Duplex Protect Plus panel and WH series pumps has enhanced the system's overall efficiency, ensuring that the station operates reliably without frequent maintenance or repair.
- **Cost-Effectiveness:** By choosing E/One's durable and efficient products, the municipality has reduced the need for frequent replacements, ultimately lowering long-term operational and maintenance costs.

Conclusion: This project highlights how E/One's products can be utilized in a variety of settings, even in smaller-scale applications like lift stations for a few homes. The upgrade in Rumford, ME, is a prime example of how E/One's versatile solutions can meet the unique needs of municipalities and engineers, offering high-performance systems that can do many jobs well. This case demonstrates the power of E/One in providing long-term, cost-effective solutions to complex problems, encouraging other municipalities and engineers to consider E/One when faced with similar challenges.



For more information or to schedule a free consultation / design, please contact me today!

Daryl Coppola

dcoppola@frmahony.com | 781-820-5808 (cell)