

“DIP” – Direct Inline Pumping

Recently, **Veolia™** gained a large number of new contracts in the South of France for upgrading 10 municipal lift stations. A new station is being installed in Gonfaron. This success is thanks to the know-how of the Frejus factory service. With 4 years of DIP System® experience, they are experts in using a technology combining innovation and reliability with the DIP System. The process is simple, efficient, and cost effective. It is simply an in-line pumping process. In a traditional, submersible pump lift station, in order to avoid the pumps running dry during low flow periods, raw sewage is stored in a collection tank or “wet well.” Wet wells have two negative impacts: (1) The depth and cost of the excavation, typically 20’ or more deep and (2) The retention and the stagnation of the held wastewater.

Retained sewage produces hydrogen sulfide gas, an odor nuisance, infrastructure corrosion and equipment erosion. The DIP system® avoids all those problems by allowing a continuous, or as needed, in-line pumping.

A performance gain

How does it work? A level sensor measures the inflow continuously and regulates the speed of the pump motors. This automatically adjusts the electrical power required eliminating energy waste. The DIP System® has been designed to fit specifically and perfectly for this kind of operation. It is made of non-corroding stainless steel for sustainability. The system design easily manages high levels of flow fluctuations. If inflow is below minimum pumping level, pumping is done intermittently. In case of no flow, the machine will stop totally. Solid and fibrous bodies, such as cans, plastic bottles, wipes or bandages can as well go through without blocking the pumps. Finally, the proportion of gas transported can reach up to 10% of fluid flow without running the risk of cavitation. This great reliability is an undeniable asset of the system. And there are many others... Simplification of civil engineering; Installations require a minimum of 3’ less in excavation depth and less concrete poured than a traditional lift station. It costs then less to build. It takes up less space as well. Its maintenance is easy; the absence of the wet well ends the cleaning and allows easy and safe access to the facility. DIP System® allows many savings on energy as well as on replacement parts that are less subject to wear. On installation it is important that the setting of this high-tech device has been optimized from the beginning. This is one of the great strengths of **Veolia™** in general and of its team from the South of France in particular. Being one the first users of this system, the company developed an outstanding expertise allowing it to make the most of the device. In the territory, it even increased its competitiveness by coupling it with an outside prefabricated structure designed by the company EPCO. This specialist of EDF power transformers designed a 20 ton shelter, easy and quick to install, superbly finished and outstanding in its landscaping integration. Just another good reason to move forward to DIP System®.

The lift station of the Future has a name: DIP System®. Safe, efficient, economic and ecological, this new technology has already been adopted by numerous communities in the south of France. **Veolia™** has made the DIP System® its choice.



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