

### Lifting station (BANHA)

## Background

The sewage lifting station in Qalyubia Governorate (Banha City) is located in a residential area and adjacent to Benha University. The lifting process releases a wide range of volatile organic odors including mercaptans, amines, ammonia, hydrogen sulphide. These emissions were the cause of constant complaint and in the wet season, complaints were received from up to (3km) from all the neighbors, and there are many complaints from passers-by also next to the station. The station lifts about 30 thousand cubic meters per day. contact was made with Valens Company to find a solution. A visit was made by Valens Company To collect data and study the case. The smells were very bad as a result of the fumes rising from the openings of 6 covers located on the surface of the collection basin



## Objectives

The main objective of the study was to verify the Valens company's solution in removing bad odors that cause inconvenience to the station's workers and neighboring residents.

## Solution

### Solution strategy

The solution was designed on the basis of the treatment method using fog spraying, and a special device was designed for that (all the tank covers were closed and the air in the tank was drawn through one hole and exposed to the treatment room, where fog spraying takes place). The air after treatment is drawn pure through a high chimney.

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## Implementation program

### Low Volume Misting procedure

Product can be applied via a high pressure low volume atomized mist into an odorous airstream or into a volume of air. (Examples: exhaust stacks, industrial stacks, restaurant extractor exhausts, *enclosed spaces*, entry foggers, waste transfer and sorting stations.).

## Result

The smells were completely fade after less than five minuts . The station manager commented that this was amazing. The opinion of passers-by and residents surrounding the station was taken they said that the smells had completely disappeared

## Conclusion

The application of Valens company's solution to the lifting station in Qalyubia Governorate (Banha City) proved to be highly effective. Significant reduction in odor was observed quickly resulting in fewer complaints from nearby residents.

## Contact

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