

## **Wastewater Treatment Plant Project Experience**

***Description: Digester Cleaning***

***Site: Municipal Treatment Plant***

***Location: Indiana***

IES performed the cleaning of twin digesters ninety feet in diameter. IES set up hydraulic pumping equipment and transferred all digester sludge to containers. The containers were then transported to drying beds. All work was performed under safety guidelines for confined space entry and fall protection. Upon removal of all digester sludge IES work crews set up scaffolding and pressure-washed the interior so a structural inspection could be done. This project was completed on schedule and within budget.

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***Description: Clarifier Cleaning (Primary and Secondary)***

***Site: Municipal Wastewater Treatment Plant***

***Location: Indiana***

A total of 24 primary and secondary clarifiers were cleaned. IES work crews set up submersible pumps to remove all water. All water was pumped a distance of 350 feet and put back into the system. Once the tanks were pumped down IES work crews vacuumed out all sludge and rinsed down the tanks so repairs could be conducted. Project was completed on schedule and at budget.

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***Description: Emergency Cleaning of Aerator Tanks***

***Site: Municipal Wastewater Treatment Tank***

***Location: Northwest Indiana***

Project included a total of six (6) aerator tanks that had an average of six feet of sand and sludge. Each aerator had three tanks measuring 40 feet wide by 300 feet in length. Equipment accessibility was limited. Because of the excessive material in these tanks, a shutdown of the treatment process was eminent. IES work crews set up industrial pumps to remove water from each tank. A large crane was used to lower skid steer loaders inside the tanks. All sand and sludge was moved to an accessible point in the tank. A long front excavator was used to remove this material. Because of IES's innovation a shutdown of the treatment system was averted.

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## **Wastewater Treatment Plant Project Experience**

**Description:** *Filtration System Maintenance*

**Site:** *Major Bottling Company*

**Location:** *Indiana and Illinois*

IES performs routine maintenance procedures on water filtration systems at three locations for a major bottling company. Work includes pumping out the system, removal and disposal of aggregate, cleaning, and restoring the system to operation.

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**Description:** *Storm Water Retention Pond Cleaning*

**Site:** *Rail Yard*

**Location:** *Northwest Chicago, Suburb*

IES performs yearly cleaning of a 2-acre storm water retention pond at a large rail yard. IES work crews pump out all water, excavate and stabilize all sludge, load and transport solidified sludge for disposal.

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**Description:** *Detritus Tank Cleaning*

**Site:** *Municipal Waste Water Treatment Plant*

**Location:** *Indiana*

IES performs routine cleaning of two detritus tanks. Work includes setting up pumps, confined space entry, vacuuming out solids, and rinse down. Because of IES's efficiency all work is concluded on schedule and within budget.

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**Description:** *Sand Filter Maintenance*

**Site:** *Municipal Waste Water Treatment Plant*

**Location:** *Indiana*

IES performs routine cleaning of final filtration sand filters. Sand filters measure 20 feet wide by 60 feet in length. Work includes removal of filter media, pressure washing, and restoration.

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