



## CLARIFIER REBUILDS & RETROFITS



### Rebuild and Replace for Long Term Performance

If you plan to rebuild or retrofit a water or wastewater treatment clarifier, call **Monroe Environmental**®. We specialize in the repair, retrofit, replacement and general upgrading of clarifiers. We recognize that up-time is critical; we've replaced whole systems in as little as 3 days — from empty tank to new internals installed and operating.

#### Clarifier Rebuild Services

- Site visit and clarifier evaluation
- Exact replacement or modified designs to improve performance
- Variety of construction materials and coatings available
- Demolition and installation
- Bypass services to keep plant online during replacement

### Why Rebuild or Retrofit Existing Clarifiers?

Rebuilding and replacing the internals of a concrete or steel tank clarifier is a quick, cost-effective solution versus constructing an entirely new system. The clarifier tanks often maintain a suitable operating condition while the skimmer arm, center well, drive assembly, and sludge rakes corrode and wear beyond an acceptable level.

#### The benefits of a Monroe Environmental Clarifier Rebuild are straightforward and simple:

- Faster installations with minimal clarifier downtime
- Reduces total cost
- Improves performance
- Reduces future maintenance costs

These benefits are realized because we are often able to fully assemble clarifier equipment before it ships to the job site. In such a case, we inspect and test every bolt, weld, and panel to make sure that each component fits together

perfectly before it is shipped to site and installed. This key step can be the difference between a few days of simple installation or weeks of fitting, engineering, and re-working equipment in the field. By reducing installation time, projects can often be completed ahead of schedule with minimal labor cost.



# CLARIFIER REBUILDS: CASE STUDIES

## Circular Clarifier: Chemical Manufacturing Plant

### *Exact Replacement of Clarifier Internals*

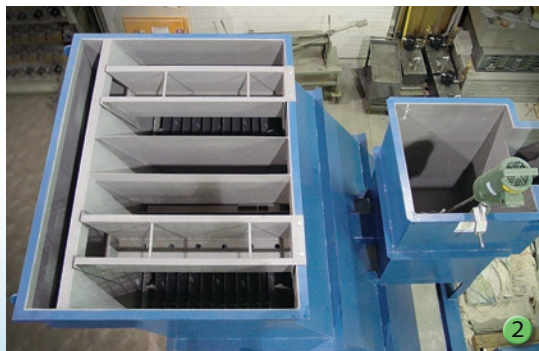
**Before (Photo 1):** Existing 55 ft. diameter Scrapper Clarifier at chemical manufacturing plant. **Photo 2:** New Clarifier internals completely assembled in Monroe shop. **After (Photo 3):** Installation of new internals as well as drive, bridge, and walkway.



## Primary Clarifier: Municipal Wastewater Treatment

### *Conversion to Spiral Scrapers*

**Before (Photos 1 & 2):** Upgrade of four 250 ft. Primary Clarifiers. The project included converting the sludge rakes to higher efficiency spiral scrapers and rehabilitating existing drive units, as well as replacing influent wells, column supports, weirs, baffles, and launders with a combination of mild, coated steel and non-corrosive stainless steel members. **After (Photo 3):** One of the Primary Clarifiers ready to return to operation.



## Vertical Clarifier: Plating Company

### *Refurbished Plate Clarifier Tank and Internals*

**Before (Photo 1):** Existing Vertical Clarifier at a plating company. **After (Photo 2):** Refurbished Vertical Clarifier in Monroe shop.



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