

# Diesel Fuel Restoration

## Iowa - October 2014

Several trucks experienced problems after purchasing contaminated diesel fuel from a Private Client. The Client was unaware that the fuel was dirty. As a result of the contamination, the Client had to pay for repairs for the damage that had been done to the vehicles.

To resolve the situation, Seneca Waste Solutions was initially asked to do a fuel sweep on the tank. The fuel sweep utilizes a vacuum truck to remove water from a tank. Upon consultation with Seneca's team, it was determined that a better course of action would be to perform fuel restoration on the tank. Unlike other tank cleaning services, our market-leading technology removes only liquid waste from tanks - not fuel.

Seneca's team arrived on site with its Leighton O'Brien patented truck. Initial tank samples showed a significant amount of water, debris and bacteria build up in the tank. Seneca's team completed fuel restoration services in just a day, allowing the Client to again sell clean fuel with minimal downtime.



**ABOVE:** The samples pictured above contain tank samples from before (left) and after (right) the fuel restoration process took place.



**ABOVE:** Fuel restoration truck on site.

## What is Fuel Restoration?

Fuel restoration, also called "fuel polishing", is a tank cleaning service that:

1. Removes free water, sediment and rust by traversing tank cleaning equipment along the entire tank floor.
2. Collects waste and fuel in a 500-gallon tank for settlement
3. Repeats this stage until all free water, sediment and rust have been removed from the tank floor by viewing samples from all accessible points
4. Circulates fuel through a coalescer, a fuel conditioner and filters to remove the free emulsified water as particulate matter
5. Finishes all tank cleans with a 5-2 micron filter (depending on application) - with the tank cleaning equipment covering 100% of the tank floor
6. Repeats sampling from the tank floor by view samples from all accessible points.

**Upon completion of Step 6, customers will have a clean tank and restored fuel.**

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