

# O.H. MATERIALS

**Innovative  
programs for  
underground  
storage tank  
management**



**O H M**

THE ENVIRONMENTAL SERVICES COMPANY



## Recent federal and state regulations have zeroed in on underground storage tanks

To perform the initial risk assessment of your entire underground tank inventory, as well as to prevent, detect, and mitigate leaks from underground tanks and pipes, OHM offers the OHM MUST PROGRAM<sup>SM</sup> (Management of Underground Storage Tanks).

MUST services have been performed on thousands of tanks for companies of all sizes. Services can be tailored to the specific needs of industrial and fleet facilities, utilities, service stations, hospitals, convenience stores or any facility which stores products in underground tanks.

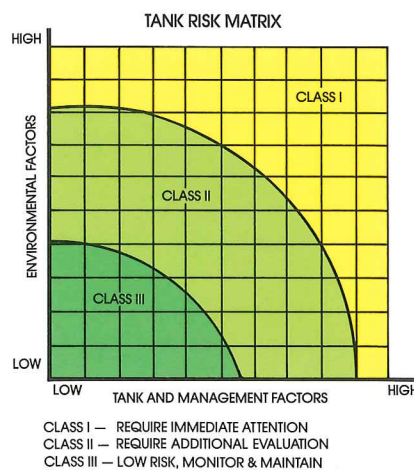
Complete MUST services are offered from OHM response centers located coast-to-coast. Implementing the OHM MUST PROGRAM can help you:

- Initiate a risk management program to evaluate your entire tank inventory
- Achieve compliance with federal, state, and local guidelines and regulations
- Detect and correct potentially costly underground leaks
- Prevent or minimize ground water contamination
- Obtain an accurate environmental assessment of facilities prior to purchase, sale or closure
- Maintain fuel quality and efficient operation of power generating systems

## Turnkey tank management programs

The major focus of OHM's MUST PROGRAM is to assess potential:

- Environmental liabilities from actual tank leakage or system failure
- Safety liabilities from equipment/systems which do not meet codes
- Operational liabilities from systems not performing as designed



Data such as tank age, and location and materials of construction, products stored, existence of cathodic protection, maintenance history,

specific state and/or local regulations, and other pertinent factors are all considered. Once the data is collected, a computerized tank risk matrix is established to identify those tanks which require immediate attention, those which require further evaluation, and those where action may be deferred. Based on the results of this detailed evaluation, an individualized program specifically tailored to the client's needs is developed, implemented and maintained.

Program continuity can be provided to companies with facilities across the country by providing services to outlying facilities from over a dozen local/regional OHM response centers.

In addition, many companies find the OHM MUST PROGRAM an invaluable tool for facility assessments in order to reduce liability prior to property purchase, sale, or closure. Through one contractor — OHM — a company can accurately and quickly assess the integrity of the entire tank system as well as general environmental conditions at the site.



Certified OHM technicians use the proven PETRO TITE<sup>®</sup> system to perform precision leak testing of underground tanks.



## Tank testing

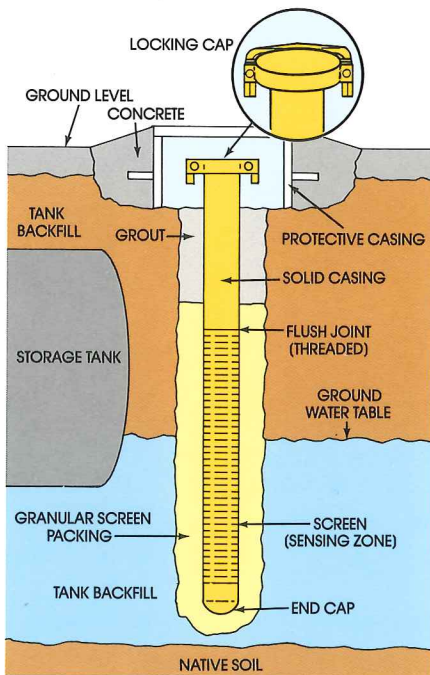
To determine if a tank system is tight, OHM uses the proven PETRO TITE® test method. The test meets the Precision Test criteria of the National Fire Protection Association (NFPA) and is recognized as the most conclusive method of determining tank system integrity.

Tanks containing motor and heating fuels, anti-freeze, naphtha, toluene, xylene, styrene, and other chemicals can be tested by trained and certified OHM MUST PROGRAM technicians.

## On-going tank monitoring

Effective long-term underground tank management requires accurate on-going monitoring programs. Properly installed monitoring wells are indispensable tools in reaching this objective.

At the time of installation, monitoring wells provide positive indication of past leaks, overfills, or spills.



Monitoring wells, installed in a tank's backfill, provide cost-effective monitoring of soil and ground water conditions as well as early leak detection.

Also, monitoring wells allow you to pinpoint the level of ground water surrounding the tank — an essential step in performing an accurate tank test.

As permanent, cost-effective inspection ports, monitoring wells permit periodic or continuous monitoring of tank backfill and ground water conditions, thereby providing early leak detection.

OHM can design and install monitoring wells and develop an on-going inspection program especially for your facility. Wells can be periodically inspected for visual signs of leakage. Ground water and soil samples can also be obtained and analyzed for product components at one of OHM's environmental laboratories.

For added protection, and/or to meet certain regulatory requirements, OHM can install specialized electronic pollution detection devices.

## On-going fuel management programs

Many firms (such as telephone companies) maintain standby diesel generators in case of AC power failure. To assure fuel quality and efficient performance of these back up power generating systems, OHM provides on-going fuel management programs.

## Fuel sampling

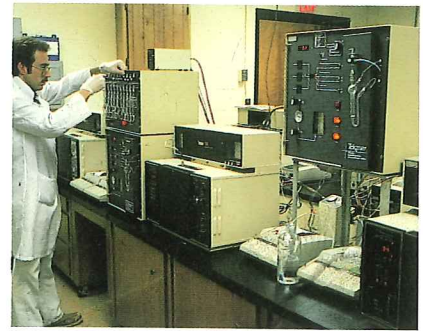
During tank inspection, OHM technicians determine the level of water and sludge in the tank. Potentially harmful amounts of water and sludge are removed. A representative fuel sample is obtained and returned to one of OHM's analytical laboratories.

Samples are analyzed for:

- Cetane
- Suspended solids
- Percent water
- Ash content

- Flash and cloud point
- Viscosity
- Carbon residue
- Volatility
- Others, as necessary

Based on the analysis, fuels that do not meet intended usage specifications are removed, transferred or treated.



Soil and ground water samples, as well as product stored in tanks, are analyzed in OHM's laboratories using approved methods.

## Fuel maintenance

OHM can treat many poor-quality fuels by removing particulate matter which accumulates over time as a result of physical, biological, and chemical action.

Fuel filtration is one method used. Fuel is circulated from the tank through a filtering mechanism which contains a series of 5-micron filters. Field measurements can provide real-time documentation of particulate removal. Results are confirmed at one of OHM's laboratories. Where appropriate, fuel additives are recommended and added.



Fuel filtration is one method that can be used to treat stored fuel by removing particulate matter which has accumulated over time.



## Fuel inventory control

For firms with large standby fuel inventories, OHM provides assistance with fuel inventory control. Minimum volume requirements are determined in conjunction with the client. Periodic measurements are taken. Fuel inventory is maintained by computer control and by fuel movement from tanks with low demand to tanks needing fuel. Problems are identified in regular reports to the client.

On-going sampling and analysis of both existing and delivered fuel also assures consistent fuel quality.

## Remedial action

If problems or potential problems are identified, OHM offers the experience of thousands of successfully completed environmental projects throughout the United States and Canada.

From this extensive experience, we have developed a wide range of action-oriented services to help clients solve soil and ground water contamination problems. These services include:



OHM performs tank removal for replacement or facility closure purposes.

- Hydrogeological investigations
- Evaluation of remedial action alternatives
- Product recovery
- On-site treatment

OHM's assessment and evaluation services are provided by our extensive staff of degreed professionals which includes:

- Hydrogeologists
- Geotechnical engineers
- Civil/mechanical engineers
- Chemists/Microbiologists

In keeping with our philosophy of on-site treatment, OHM has designed and fabricated a wide range of mobile treatment equipment. This specialized equipment can be operated in virtually any location to concentrate, neutralize, immobilize, detoxify, destroy, or reduce in volume contaminants in any known matrix.

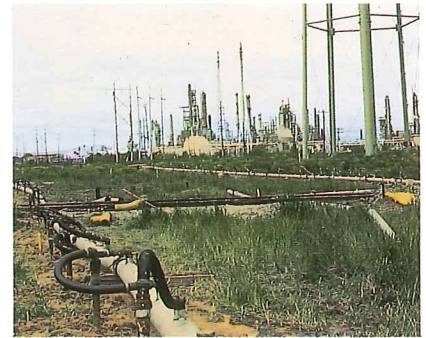
### O.H. Materials Co.

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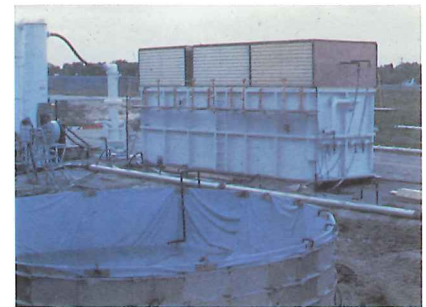
Mailing address:  
P.O. Box 551  
Findlay, OH 45839-0551

### Response Centers

- Sacramento, California
- Orlando, Florida
- Princeton, New Jersey
- Findlay, Ohio
- Worcester, Massachusetts
- Grand Rapids, Michigan
- Joliet, Illinois
- St. Louis, Missouri
- Minneapolis, Minnesota
- Richmond, Virginia
- Atlanta, Georgia
- Houston, Texas
- Baton Rouge, Louisiana
- Mobile, Alabama



If leaking tanks have caused soil and ground water contamination, OHM has the experience to treat the problem on site. Here an underground recovery system is collecting contaminated ground water (above) which is treated in a closed loop system using multiple treatment technologies (below).



## OHM is your total-scope environmental services company

In addition to tank management, our scope of services includes:

- Ground Water Recovery and Treatment
- On-site Treatment Equipment
- Hazardous Waste Site Cleanup
- Facilities Decontamination
- Biological Treatment
- Technical Advisory Services
- Laboratory Services
- Emergency Response
- Surface Impoundment Restoration
- Explosives/Reactives Handling

 **OHM**  
**A Subsidiary of ETTC**

Environmental Treatment and Technologies Corporation