



## Thermal Remediation Solutions

Thermal Remediation Solutions, LLC (TRS) is a storage and treatment facility for non-hazardous contaminated soils. Located on-site at Waste Management's Azusa Land Reclamation facility, TRS provides safe and convenient thermal remediation services for communities, businesses and industries serving Los Angeles metro and Eastern Los Angeles County.

Low Temperature Thermal Desorption (LTTD) makes it possible to quickly and efficiently remove non-hazardous organic and petroleum materials – such as petroleum fuels, hydraulic oils, jet fuels and crude oil – from contaminated material without negatively impacting the environment.

TRS delivers the fast remediation of soils containing heavy or longer chain hydrocarbons that require operating temperatures of  $>800^{\circ}\text{F}$  to be efficiently and safely removed. The permitted desorption process is built around applying measured heat levels to contaminated material, by which the LTTD is able to produce clean, contaminant-free media. Analysis and submittal of a Generator's non-hazardous waste profile must be submitted in advance of scheduling.

This highly efficient and cost-effective solution enables Waste Management customers to:

- Use a green alternative, ensuring that contaminated media is handled in a manner that protects the environment
- Reduce long-term liability concerns associated with direct landfill disposal
- Obtain a Certificate of Destruction verifying treatment to acceptable treatment levels
- Pursue project opportunities that require remediation technologies beyond landfill limits
- Take advantage of enhanced local treatment options for contaminated media
- Reduce emissions associated with remediation
- Minimize the cost of properly handling and treating contaminated media beyond direct landfilling of organics

### THERMAL REMEDIATION SOLUTIONS

1211 West Gladstone  
Azusa, CA 91702  
800 963 4776

### HOURS OF OPERATION

Monday – Friday: 6:00am – 4:30pm  
Saturday upon request

### YEAR OPENED

1994

### FACILITY ACREAGE

3.5 acres

### TONS PROCESSED ANNUALLY

150,000 tons

### OWNERSHIP

Waste Management

### PERMIT TYPE & PERMIT #

AQMD Permits (Facility ID #109914)  
Solid Waste Facility Permit 19-AA-0013  
WDR's Order #R4-2004-0056

### REGULATORY AGENCIES

Cal Recycle, Department of Public Health, Los Angeles Regional Water Quality Control Board, LARWQCB, SCAQMD

### EMPLOYEES

9

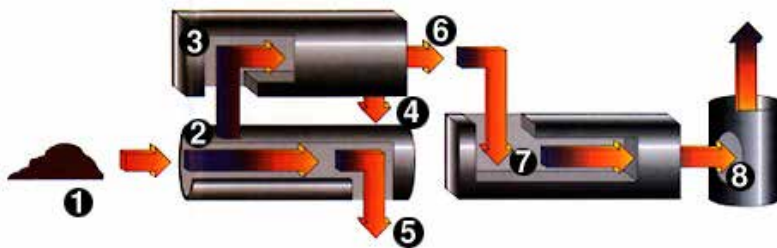
### ACCEPTABLE MATERIAL

Non-hazardous contaminated soils only

## Thermal Remediation Process

This highly-effective remediation process includes the following stages:

- First, the contaminated media is loaded into a feed hopper. (1)
- A variable speed belt at the hopper loads the media at a rate of approximately 25-30 tons/ hour into the lo-nox rotary drum desorber. (2)
- The temperature of the media in the desorber is raised to volatilize the hydrocarbons. The low temperature exhaust gases from the desorber are then transferred to a lo-nox thermal oxidizer (3), where they are superheated up to 2200 °F to completely destroy residual hydrocarbons trapped in any dust particles that may be present.
- The gas stream from the Thermal Oxidizer is then cooled to a temperature of 375 °F (6) before entering the bag house. (7)
- The now clean gas stream is released into the atmosphere through the discharge stack. (8)
- The collected gas particulate that has been recombined with the remediated media drops into the mixer section (4) of the mixer cooler system.
- The media is then routed into a single shafted cooler for final re-hydration and onto a covered discharge conveyor. (5)



**For more information about Thermal Remediation Solutions, contact your Waste Management representative.**

### CONTACT

**Technical Support**  
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### COMMUNITY RELATIONS

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