

PROCEDURE FOR DETERMINING STATUS OF POTENTIALLY CONTAMINATED SITES, AND ASBESTOS CONTAMINATION STATUS

1. None of the Cost associated with the determination of the status of potentially contaminated sites is eligible for Federal-aid funding. Cure of contamination may be extremely expensive, and, for that reason, the Local Public Agency should perform the simple initial site assessment as early as possible during project development. Substantial engineering cost may be saved by adjusting project design as a result of awareness of contaminated sites.

An Initial Site Assessment (ISA) is performed to identify any potentially contaminated sites within the proposed right of way. The "Land Use - Features" Table may be used as a guide to identify potentially contaminated sites. The MDOT Right-of-Way Division or an environmental consultant may be consulted when land use features other than those contained in the Table are of concern to the person performing the ISA. The American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Transaction Screen Process* (ASTM E 1528) should be used in performing the ISA. A copy of ASTM E 1528 may be purchased from the ASTM through its web site: <http://www.astm.org.htm> and selecting Standards from the menu (This document is copyrighted and MDOT is unable to provide a free copy for Local Public Agency Use).

2. Any site identified during the ISA as potentially contaminated should be inspected by an environmental consultant who will make recommendations as to the need for site testing.
3. If site testing is recommended, the environmental consultant may be requested to prepare a proposal and cost estimate for testing the site. A Notice to Proceed should be issued when the proposal has been renewed and approved by the Local Public Agency. The MDOT may be contacted for advice on cost if desired. The environmental consultant should schedule testing with the property owner, and the Local Public Agency should be advised so that a representative may be present if desired.
4. When test results are received by the Local Public Agency, they should be forwarded to the Mississippi Department of Environmental Quality (MDEQ) for their review. MDEQ should be able to advise whether further action may be required, or if additional information is needed in order to make a determination.
5. The "Status of Potentially Contaminated Site" is prepared showing the status of those sites identified during the ISA; or to note that no potentially contaminated sites were identified; or to declare that no right-of-way is required for the project, and an ISA is not required. Also, included is information regarding the disposition of any underground storage tanks (USTs). Removal of USTs may be included as a contract bid item and will normally be eligible for Federal-aid participation.
6. At some point during the right-of-way phase, all buildings within the right-of-way to be purchased must be inspected for asbestos-containing materials (ACMs). Consultants used by the MDOT to perform environmental testing should also be able to provide that service. MDEQ also maintains a list of State certified inspectors.
7. The "Asbestos Contamination Status of Buildings to be Removed by the Contractor" is also prepared as applicable by the Local Public Agency. The results of the asbestos inspection should be included for every building within the right-of-way to be purchased, as well as a date by which all ACMs should be removed. The MDEQ maintains a list of State certified asbestos abatement firms. The ACM status is prepared for all projects, even where there are no buildings within the right-of-way to be purchased. Questions related to ACMs should be addressed to the MDOT Right-of-Way Division.

8. The "Notification of Demolition/Renovation" must be submitted to the MDEQ at least 10 working days prior to the start of asbestos abatement or demolition activities, and should also be provided to any property owners or third parties who purchase buildings within the project right-of-way. Forms may be requested from the MDEQ.
9. Examples of the above reports are included following the Land Use - Features Table.
10. Land Use - Features Table

The following table is used to assist in the identification of potential contamination which may warrant testing, and, if present, what testing would be appropriate. The first column is a listing of the "Land Use" headings. The second column, "Features", lists the category names of features that could be associated with the Land Use. The third column, "Chemicals", lists those chemicals which may be associated with the Features at that given Land Use. The chemicals refer to each of the features listed.

LAND USE-FEATURES TABLE

Land Use	Features	Chemicals
Airports	Surface Tanks	
	Underground Tanks for Fuels	
	Piping	Gasoline Diesel or Jet Fuel
	Drum Storage Areas	
	Waste Oil Tanks	
	Sumps or Pits	
	Surface Staining	PCBs Tot. Petrol. Hydro. Vol. Org. Semi Vol. Org.
	No Features	No Chemical Sampling
	Truck Terminals	Surface Tanks for Fuels
Underground Tanks for Fuels		
Surface Piping for Fuels		
Underground Piping for Fuels		Gasoline Diesel
Waste Oil Tanks		Waste Oil Metals
Sumps or Pits		
Dry Wells		
Drum Storage Areas		
Surface Staining		Vol. Org. Semi Vol. Org. Waste Oil Gasoline Diesel
No Features		If unpaved treat as an open area and sample for all chemicals listed above
Chemical Manufacturer	Base tests on what they manufactured	
Air or Gas Liquification Plant	Surface Staining	PCBs
	Waste Piles	Asbestos in soil
	No Features	No Chemical Sampling
Supplier of Hydraulic Fluids	Drum Storage Areas	
	Surface Staining	
	Surface Tanks	
	Underground Tanks	Tot. Petrol. Hydro. Flammable Oils PCBs
	No Features	No Chemical Sampling
Lighting or Illuminating Gas	Drum Storage Areas	

Land Use	Features	Chemicals
Generation Site	Surface Staining	
	Surface Tanks	
	Surface Piping	
	Odors	Oils PAH PCBs
	No Features	No Chemical Sampling
Refinery	Loading or Unloading Areas	
	Surface Tanks	
	Underground Tanks	
	Surface Piping	Oils
		Gasoline
		Diesel
		Organolead
		Semi Vol. Org.
		Vol. Org.
		Metals
	Cr VI	
	Pb	
	Wastewater Treatment Facility	Oils
		Gasoline
Diesel		
Organolead		
Vol. Org.		
Semi Vol. Org.		
Metals		
Sulfate		
pH		
No Features	No Chemical Sampling	
Iron or Steel Manufacturer	Transformers	
	Drum Storage Areas	
	Surface Staining	
	Surface Tanks	
	Sumps or Pits	Tot. Petrol. Hydro.
		PAH
		PCBs
		pH
	Metals	
	Underground Tanks for Fueling	Gasoline
Diesel		
Waste Piles	Metals	
	Asbestos	
	pH	
No Features	No Chemical Sampling	
Metal Forming Finishing or Manufacturer	Drum Storage Areas	
	Surface Staining	Tot. Petrol. Hydro.
	Underground Tanks for Fuels	
	Piping for Fuels	Gasoline
		Diesel
	Wastewater Treatment Facility	
	Waste Piles	
	Sumps or Pits	
	Dry Wells	
	Surface Tanks	Metals
		Cr VI
		As
		PCBs
Vol. Org.		
Semi Vol. Org.		
Tot. Petrol. Hydro.		
No Features	Treat as an open area and sample for chemicals listed above	

Land Use	Features	Chemicals	
Automotive Business (gas stations, mech. repair shops, auto dealerships)	Underground Tanks for Fuels		
	Piping for Fuels		
	Sumps or Pits	Gasoline Diesel Waste Oil Metals	
	Surface Spills		
	Drum Storage Areas	Waste Oil Vol. Org. Semi Vol. Org.	
	Battery Storage	Pb Zn Cr VI Sulfate pH	
	Service Hoists	PCBs Tot. Petrol. Hydro.	
	No Features	Treat as an open area and sample for Gasoline and Diesel	
	Automotive Paint Shop	Underground Storage Tanks for Fuels	Gasoline Diesel
		Underground Tanks for Paints	
Drum Storage Areas			
Surface Staining			
Sumps or Pits			
Waste Oil Tank		Vol. Org. Semi Vol. Org. Metals Cr VI As Hg	
No Features		Treat as an open area and sample for Gasoline and Diesel	
Radiator Repair Shop	Underground Tanks		
	Surface Spills or Staining		
	Drum Storage Areas		
	Corroded Floor Drains	Vol. Org. Semi Vol. Org. Metals Ethylene Glycol Cr VI	
	Underground Tanks for Fuels	Gasoline Diesel	
	No Features	No Chemical Sampling	
	Battery Breaking Operation	Drum Storage Areas	
Surface Tanks			
Surface Spills or Staining			
Sumps or Pits			
Dry Wells		pH Pb Zn Sulfate	
No Features		Treat as an open area and sample for pH and Sulfate	
Solvent Renting and Recycling Operation		Surface Tanks	
	Underground Tanks		
	Drum Storage Areas		
	Piping		
	Dumpster	Vol. Org.	
	No Features	No Chemical Sampling	

Land Use	Features	Chemicals
Waste Oil Recycling and Treatment Operation	Surface Tanks	
	Underground Tanks	
	Drum Storage Areas	
	Piping	
	Surface Spills or Staining	Vol. Org. Semi Vol. Org. Tot. Petrol. Hydro. PCBs Metals As Cr VI
	No Features	Treat as an open area and sample for Tot. Petrol. Hydro.
Chemical Recycling and Treatment Operation	Underground Storage Tanks for Fuels	Gasoline
		Diesel
	Waste Oil Tanks	
	Surface Staining	Tot. Petrol. Hydro.
	Surface Tanks	
	Waste Piles	Metals Cn As Cr VI Hg pH
	No Features	Treat as an open area and sample for Metals or Vol. Org.
Dry Cleaner or Laundry	Underground Storage Tanks for Fuels	Gasoline
		Diesel
	Underground Tanks	
	Surface Tanks	
	Drum Storage Areas	Diesel Vol. Org.
	No Features	No Chemical Sampling
Hardware Store or Agricultural Supplier	Surface Tanks for Heating Fuels	
	Underground Tanks for Heating Fuels	Diesel
	Surface Tanks	
	Surface Spills	
	Drum Storage Areas with Spillage	Organochlorine Pesticides Organophosphorus Pest. Chlorinated Herbicides Vol. Org. Semi Vol. Org.
	No Features	No Chemical Sampling
Photo Lab	Storage Areas	
	Spills	
	Drums, Containers	
	Wastewater Treatment Facility	
	Corroded Drains	Sulfate Metals pH
	No Features	No Chemical Sampling
Metal Scrap Yard	Underground Tanks for Fuels	Gasoline Diesel Tot. Petrol. Hydro. Semi Vol. Org. Metals PCBs pH Sulfate

Land Use	Features	Chemicals	
Metal Scrap Yard (cont.)	No Features	Treat as a non-point source and sampling for all chemicals listed above	
Electroplating Business	Surface Tanks		
	Underground Tanks		
	Drum Storage Areas		
	Waste Piles		
	Sumps or Pits		
	Dry Wells		
	Surface Staining	Metals Cn pH Cr VI Vol. Org.	
	No Features	Treat as an open area and sample for Vol. Org.	
Furniture Stripping Operation	Surface Tank (Dip Tank)		
	Drum Storage Areas		
	Surface Staining		
	Corroded Drains	Vol. Org.	
	No Features	Treat as an open area and sample for Vol. Org.	
Plastic or Fiberglass Manufacturer or Fabricator	Surface Tanks		
	Drum Storage Areas	Vol. Org.	
	No Features	Treat as an open area and sample for Vol. Org.	
Greenhouse or Nursery	Underground Tanks for Fuels	Diesel	
	Bulk Insulation	Asbestos Survey	
	Waste Piles		
	Drum Storage Areas		
	Sumps or Pits	Organochlorine Pesticides Organophosphorus Pest. Chlorinated Herbicides Diesel	
	No Features	Treat as an open area and sample for all Pesticides	
Tannery Operation	Drum Storage Areas		
	Surface Tanks		
	Surface Staining		
	Waste Disposal Ponds	Semi Vol. Org. pH	
	No Features	Treat as an open area and sample for all chemicals listed above	
Crop Duster Business/Pesticide Applicator	Underground Storage Tanks for Fuels	Gasoline Diesel	
	Drum Storage Areas	Waste Oil Metals	
	Sumps or Pits		
	Dry Wells		
	Surface Staining	Vol. Org. Semi Vol. Org. Waste Oil Gasoline Diesel Metals	
	No Features	If unpaved treat as an open area and sample for all chemicals listed above	
	Pipelines	Transformers for Pump Stations	PCBs
		May depend on what the pipeline was used for	Gasoline Diesel Oils

Land Use	Features	Chemicals
Pipelines (cont.)	No Features	No Chemical Sampling
Bulk Fuel Terminal	Surface Tanks for Fuels	
	Underground Tanks for Fuels	
	Surface Piping for Fuels	
	Underground Piping for Fuels	Gasoline Diesel
	Waste Oil Tank	Waste Oil Metals
	Sumps or Pits	
	Dry Wells	
	Drum Storage Areas	
	Surface Staining	Vol. Org. Semi Vol. Org. Waste Oil Gasoline Diesel
	No Features	Treat as an open area and sample for Gasoline and Diesel
Railroads	Surface Tanks for Fuels	
	Underground Tanks for Fuels	
	Piping for Fuels	Gasoline Diesel Oils
	Sumps or Pits	
	Dry Wells	
	Drum Storage Areas	
	Wastewater Treatment Facility	
	Surface Staining	
	Waste Piles	
	Buried Railcars	Metals Asbestos in soil Cr VI Waste Oil Vol. Org. Semi Vol. Org. pH Gasoline Diesel
No Features	Treat as a open area and sample for Diesel and Metals	
Painting Coatings or Adhesives Manufacturer	Surface Tanks	
	Underground Tanks	
	Drum Storage Areas	
	Wastewater Treatment Facility	Metals Vol. Org. Semi Vol. Org. Cr VI
	No Features	No Chemical Sampling
Electronic or Lighting Industry	Transformers	Tot. Petrol. Hydro. PCBs
	Surface Tanks	
	Underground Tanks	
	Wastewater Treatment Facility	
	Waste Piles	Vol. Org. Semi Vol. Org. Tot. Petrol. Hydro. Metals Hg PCBs
	No Features	No Chemical Sampling
Wood Preserving Industry	Underground Tanks for Fuels	Gasoline Diesel
	Surface Tanks for Dip Tanks	

Land Use	Features	Chemicals	
Wood Preserving Industry (cont.)	Underground Tanks		
	Piping		
	Storage for Drip Pads		
	Surface Spills or Staining		
	Wastewater Ponds	pH Cu As Cr VI Creosote Vol. Org. Semi Vol. Org. Diesel	
	If evidence of fire	Dioxin	
	No Features	Treat as an open area and sample for all chemicals listed above	
	Construction of Heave Equipment Business	Underground Storage Tanks for Fuels	
Surface Tanks for Fuels			
Piping for Fuels		Gasoline Diesel	
Waste Oil Tank		Waste Oil Metals	
If a Maintenance Station exists see Maintenance Stations below			
Maintenance Stations	Surface Tanks		
	Underground Tanks for Fueling		
	Surface Piping		
	Underground Piping	Gasoline Diesel	
	Waste Oil Tank	Waste Oil Tot. Petrol. Hydro.	
	Sumps or Pits		
	Dry Wells		
	Drum Storage Areas		
	Surface Staining	PCBs Vol. Org. Semi Vol. Org. Waste Oil Gasoline Diesel Metals	
	No Features	No Chemical Sampling	
	Transformer Recycling	Spill Areas	
		Waste Piles	
		Surface Staining	Vol. Org. Semi Vol. Org. PCBs Waste Oil
If evidence of fire		Dioxin	
No Features		Treat as an open area and sample for all chemicals listed above	
Printers or Newspaper Business		Surface Tanks	
	Drum Storage Areas (Inks)	Vol. Org. Semi Vol. Org. Metals	
	No Features	No Chemical Sampling	
	Drum and Tank Cleaning or Reconditioning	Drums	
Surface Tanks			
Underground Tanks			
Waste Oil Tank			
Spills			
Staining			

Land Use	Features	Chemicals
Drum and Tank Cleaning or Reconditioning (cont.)	Wash Facility	Vol. Org. Semi Vol. Org. Pb
	No Features	Treat as an open area and sample for all chemicals listed above
Hospitals	Surface Tanks for Heating Fuels	
	Underground Tanks for Heating Fuels	
	Piping for Heating Fuels	Diesel Fuel Oil
	Outside Storage Areas	Biohazards Radioactive Material
	No Features	No Chemical Sampling
Medical Industry (Includes Research, Analysis and Manufacturing)	Drum Storage Areas	
	Surface Staining	
	Corroded Drains	Vol. Org. Semi Vol. Org. Biohazards Metals pH
	If radioactive processes suspected	Radioactive Material
	No Features	?
Military Bases		
A. Hospitals	See Hospitals above	
B. Explosives	Test Burn Pits	
	Waste Piles	Metals Explosives
C. Airports	See Airports above	
D. Transformer Sites		
E. Maintenance Facilities	See Maintenance Stations above	
F. Landfills	See Landfills below	
G. Open Areas	Non-Point Source	Vol. Org. Semi Vol. Org. Waste Oil Metals
Landfills	Underground Tanks	
	Maintenance Facility	Tot. Petrol. Hydro.
	Non-Point Source	Vol. Org. Semi Vol. Org. Metals Asbestos Tot. Petrol. Hydro. PCBs As Cr VI Hg Radioactive Material pH
Mining and Milling	Underground Storage Tanks for Fuels	
	Surface Storage Tanks for Fuels	
	Piping for Fuels	Gasoline Diesel Waste Oil
	Surface Impoundments	
	Tailings or Waste Piles	Metals Cn pH As Hg
If Explosives are suspected	Explosives	
If Radioactive Material is suspected	Radioactive Material	
If Asbestos is suspected in Waste Piles	Asbestos	

Land Use	Features	Chemicals
Mining and Milling (cont.)	No Features	Treat as an open area and sample for Metals, As, Hg, Cn
Pesticide Manufacturer	Storage Areas	
	Surface Tanks	
	Drum Storage Areas	As
		Organochlorine Pesticides
		Organophosphorus Pest.
Chlorinated Herbicides		
No Features	Treat as an open area and sample for all Pesticides	

Example
Status of Potentially Contaminated Sites
With No Right-of-Way Required

Local Public Agency: City of Hattiesburg

Date: January 10, 2002

County: Forrest

Route/Termini: Main St from Glen St to Howard Ave

Project Numbers:

LPA: 250

MDOT: 47-0008-01-057-10 / 100250

There is no right-of-way required for this project. No initial site assessment will be performed. If contamination on existing right-of-way is discovered, it will be handled by the City of Hattiesburg.

**Example
Status of Potentially Contaminated Sites**

Local Public Agency: Benton County

Date: February 22, 1995

County: Benton

Route/Termini: County Route 10 widening from Hickory Flat N 5.0 miles

Project Numbers:

LPA: 10

MDOT: 47-0008-01-057-10 / 100250

This project has been inspected and there was no visible indication of potentially contaminated sites except for the following:

Parcel No. 022-0-00-W

Sandra's Grocery

Station: 526+35/CL

Underground Storage Tanks: 0

Status: This active station was tested and cleared by the MDEQ on 3/23/90. The Underground Storage Tanks were removed by the property owner. No further testing will be required.

Parcel No. 059-0-00-W

King Grocery

Station: 713+00/CL

Underground Storage Tanks: 1 - 1,000 gallon; 1 - 2,000 gallon

Status: This inactive station was tested and cleared by the MDEQ on 4/5/90. The Underground Storage Tanks have been abandoned by the property owner and will be included in the construction contract for removal..

Parcel No. 083-0-00-W

Poff's Grocery

Station: 891+80/L 20 ft

Underground Storage Tanks: 2 - 1,000 gallon

Status: This active station was initially tested and cleared by the MDEQ in March of 1990. The retest in January of 1994 revealed soil and groundwater contamination. The Underground Storage Tanks have been abandon by the property owner. Removal of the Underground Storage Tanks and any associated contaminated soil should be completed by a certified remover, under separate contract to Benton County, no later than May 15, 1995. It is anticipated that removal of the contaminated soil will resolve the groundwater problem.

Parcel No. 098-0-00-W

W & W Fish/Mama Jack Gulf

Station: 1007+50/L 20 ft

Underground Storage Tanks: 1 - 1,000 gallon; 2 - 500 gallon

Status: This inactive station was tested and cleared by the MDEQ on 3/26/90. The Underground Storage Tanks have been abandoned by the property owner and will be included in the construction contract for removal..

Example
Asbestos Contamination Status of Buildings to be Removed by the Contractor
With No Right-of-Way Required

Local Public Agency: City of Hattiesburg

Date: January 23, 1995

County: Forrest

Route/Termini: Main St from Glen St to Howard Ave

Project Numbers:

LPA: 100

MDOT: 47-0008-01-057-10 / 100250

Reference is made to notices to bidders entitled "Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP)" and "Removal of Obstructions".

The following pertinent information is furnished concerning asbestos containing materials (ACMs), if any, found in buildings to be removed by the Contractor.

There is no right-of-way required for this project. There are no buildings to be removed by the contractor.

Example
Asbestos Contamination Status of Buildings to be Removed by the Contractor
With Right-of-Way Required but No Buildings

Local Public Agency: City of Picayune

Date: January 23, 1995

County: Pearl River

Route/Termini: Main St from Hill St to Glen Dr

Project Numbers:

LPA: 20

MDOT: 47-2000-01-057-10 / 100900

Reference is made to notices to bidders entitled "Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP)" and "Removal of Obstructions".

The following pertinent information is furnished concerning asbestos containing materials (ACMs), if any, found in buildings to be removed by the Contractor.

There are no buildings required to be removed in the contract.

Example
Asbestos Contamination Status of Buildings to be Removed by the Contractor

Local Public Agency: City of Monticillo
County: Lawrence
Route/Termini: Main St from MS 27 to Green St
Project Numbers:
LPA: 10
MDOT: 6-0054-01-037-10 / 100250

Date: January 23, 1995

Reference is made to notices to bidders entitled "Asbestos National Emission Standards for Hazardous Air Pollutants (NESHAP)" and "Removal of Obstructions".

The following pertinent information is furnished concerning asbestos containing materials (ACMs), if any, found in buildings to be removed by the Contractor.

Parcel No. 016-0-00-W
Station: 1753+75/CL
Results: This parcel includes a two-story frame barn.

The barn was inspected by the City and no suspect ACMs were identified. Demolition may be performed without the use of asbestos control measures. Proper notification forms must be submitted to the MDEQ prior to demolition.

Parcel No. 028-0-00-W
Station: 261+00/R 60 ft
Results: This parcel includes a one-story brick residence.

The residence was inspected by the City and found to contain approximately 800 sq ft of unregulated ACMs in the vinyl floor tile. Removal of all unregulated ACMs should be completed by licensed asbestos personnel, under separate contract to the City, no later than March 31, 1995. Proper notification forms must be submitted to the MDEQ prior to demolition.

Parcel No. 030-0-00-W
Station: 256+90/R 90 ft
Results: This parcel includes a one-story frame residence.

The residence was inspected by the City and found to contain regulated and unregulated ACMs. The regulated materials are approximately 1,100 sq ft of exterior siding materials. The unregulated materials are approximately 410 sq ft of linoleum. Removal of all identified ACMs should be completed by licensed asbestos personnel, under separate contract to the City, no later than March 31, 1995. Demolition may then be conducted without the use of asbestos control measures. Proper notification forms must be submitted to the MDEQ prior to demolition.