



Introduction To Storage Tank Regulations

Michigan Environmental Compliance Conference
(MECC)

Pam Howd

Compliance Assistance Specialist

DEQ Divisions With Authority

Waste and Hazardous Materials Division

- Plan review, certification, registration, inspection of aboveground storage tanks (ASTs) and underground storage tanks (USTs)

Remediation and Redevelopment Division

- Cleanup and redevelopment of facilities contaminated by AST and UST systems

Due Diligence

A potential owner or operator is obligated to make all appropriate inquiry (due diligence) as to whether environmental contamination is present on a property.



Due Diligence Check List

Hire a Environmental Consulting Firm to do a Phase I Environmental Site Assessment (ESA), Phase II ESA, and possible Baseline Environmental Assessment

Be proactive and:

- Speak to local government officials, the building inspector, registrar of deeds, the county health department – environmental health division
- Speak to locals
- Go to the library: Look in phone books, the Polk directory, local history books
- Look in the DEQ online databases: contaminated sites, chemical storage, the waste data system

Look at DEQ Online Databases

www.michigan.gov/deqrrd

Contaminated Sites List

- General sites (Part 201)
- Leaking Underground Storage Tanks (Part 213)
- State funded
- Brownfields

Address: http://www.michigan.gov/deq/0,1607,7-135-3306_28608---,00.html

DEQ Department of Environmental Quality

Michigan.gov Home | DEQ Home | Online Services | Permits | Programs | Site Map | Contact DEQ

inside DEQ

Contact DEQ
Financial and Business Services
Air Quality Division
Environmental Advisory Council
Environmental Science and Services Division
Information for DEQ Employees
Land and Water Management Division
Agriculture and Rural Communities Roundtable
Office of Civil Enforcement Coordination
Office of Criminal Investigations
Office of Internal Audit
Office of Geological Survey
Office of Great Lakes
Office of Human Resources
Remediation and Redevelopment Division
Waste and Hazardous Materials Division
Water Bureau

Remediation and Redevelopment Division

Agency: Environmental Quality

Who We Are
The Remediation and Redevelopment Division administers programs that facilitate the cleanup and redevelopment of contaminated sites statewide, providing for a cleaner, healthier and more productive environment for you! Please feel free to contact us by writing: Michigan Department of Environmental Quality, Remediation and Redevelopment Division, P.O. Box 30426, Lansing, MI 48909-7926, or calling 517-373-9837.

What We Do

Cleanup/Redevelopment Programs
[BEAs and Due Care](#)
[Environmental Remediation](#) (Part 201)
[Leaking Underground Storage Tank Program](#) (Part 213)
[Part 201 Discussion Group](#)
[Refined Petroleum Fund](#)
[Site Assessment Model](#)
[State Owned Sites Cleanup Program](#)
[Superfund Program \(CERCLA\)](#)
[Temporary Reimbursement Program](#)

Contaminated Sites Lists
[Michigan Environmental Mapper](#)
[Part 201 Sites List](#)
[Part 213 Sites](#)
[State Funded and Managed Cleanup Projects \(CMI & CRF\)](#)
[State Owned Sites](#)
[Superfund Sites](#)
Sites of Interest ([Wayne Co./Detroit Area Historical Smelter Project](#), [Ford/Kingsford Site](#), [Gelman Sciences](#), [Tittabawassee](#), [Wickes Manufacturing TCE Plume](#), [more](#))

Environmental Quality
Laws and Rules [search](#)
Forms [search](#)
Publications [search](#)
DEQ [Calendar](#)
DEQ [Who Does What](#)

RRD Links
Mission Statement
[Organizational Charts](#)
[Division Guide](#)
[District Offices](#)
Staff Directory
[By Alpha](#)
[By Section](#)

Laws & Rules
[Part 195](#), [Part 196](#), [Part 201](#), [Part 211](#), [Part 213](#), [Part 215](#), [Act 207](#), [Part 31](#), [Act 381](#), [Part 201 Rules](#)
[RRD Guide](#)
[Part 201 Citizen's Guide](#)

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Storage Tank Regulations

Look at DEQ Online Databases

Click Online Services under the DEQ title and select “Storage Tank Information Center”

The screenshot shows the Michigan Department of Environmental Quality (DEQ) website. The browser address bar displays 'http://www.michigan.gov/deq'. The website header features the DEQ logo and the text 'Department of Environmental Quality'. A red circle highlights the 'Online_Services' link in the top navigation menu. Below the navigation, there are sections for 'Environmental Spotlight' featuring 'Community Sharps Collections' and 'Announcements'.

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Storage Tank Regulations

Look at the Storage Tank Information Center

4 Information Tabs:

- Underground Storage Tanks (UST)
- Leaking UST
- Qualified Consultants (Environmental Firms)
- Form and Publications

http://www.deq.state.mi.us/sid-web/

Department of Environmental Quality

Michigan.gov

Home | Underground Storage Tanks | Leaking Underground Storage Tanks | Download Excel Files | Qualified Consultants | Forms & Documents

Storage Tank Information Center

These pages provide searchable storage tank databases as well as documents and forms used in the storage tank programs in the Department of Environmental Quality (DEQ). The searchable data, from the DEQ's Storage Tank Information Database (SID), is updated daily. The explanations of the tabs are:

Underground Storage Tanks (UST) : This provides a search engine for Underground Storage Tanks regulated under Part 211. The results provide basic information on the UST facilities.

Leaking Underground Storage Tanks (LUST) : This provides a search engine for Leaking Underground Storage Tank sites. The results provide basic information on the status of the releases at each site.

Download Excel Files : This provides downloadable MS Excel Files of active and closed UST facilities, and open and closed LUST sites, either for a whole DEQ district or for individual counties within a district. A complete list of active and closed UST facilities, and open and closed LUST sites is also downloadable.

Qualified Consultants: This provides a search engine for consultants that are currently certified by the MDEQ as Qualified Underground Storage Tank Consultants, under Part 215

Forms and Documents: This page provides the informational memos, forms, guidance documents, and operational memos.

WEBFORMS: The following forms, in addition to being available as hard copy, can be filled in on the web and submitted electronically.

[Form for Reporting Release](#) : Complete this web form to report a release from an Underground Storage Tank regulated under Part 211.

Look at DEQ Waste Data System

www.deq.state.mi.us/wdsp

Can search the database to see if a facility has manifested waste. If a waste is stored, a waste can spill.

http://www.deq.state.mi.us/wdsp/

Michigan.gov DEQ Home | WDS Home | Online Services | Programs | Site Map | Contact DEQ Search

WDS Quick Search Go! What's this? Advanced Search Result List

MDEQ-WHMD WDS Web Inquiry System (WDS Home)

The Waste Data System (WDS) tracks activities at facilities regulated by the Solid Waste, Scrap Tire, Hazardous Waste, and Liquid Industrial Waste programs. WDS can provide information on ownership and operation of the facility; the status of any required permits, licenses, registrations, or certifications; compliance status; authorized transporters; shipments of hazardous or liquid industrial waste (manifest); and user fees.

- This site is best viewed using Microsoft Internet Explorer.
- To begin searching, [Click Here](#)
- To send an e-mail for additional program information, [Click Here](#)
- NOTE: Web site data is updated each weekend from the WDS production database.
- This is version 2.5 of the application, released 10/26/2005

HOW TO SUBMIT A SITE IDENTIFICATION FORM (EQP5150)

Site Identification Numbers are assigned to the property and do not move to a new location if the business changes locations. Subsequently, you need to use the "Advance Search" in the WDS to determine if the physical location already exists in the data system. A complete search will require entering different combinations of search criteria so you can account for variations in how the data may be stored, such as searching on:

- Street number and city
- Street number and county
- Street name and city
- Part of street number, street name, and city

To start entering in search criteria (advance search) [click here](#)

If you find a site already exists in the WDS at the same location where you are applying for a Site Id number, you can call the local district office ([click here](#) for office location and phone numbers) and obtain a pre-populated Site Id form or you can fill out a blank form and enter the Site Id number in Box II. The blank Site Id form is on the following web page then click on EQP5150 - Michigan Site Identification Form (directions not included) - revised 10/2007 - [click here](#)

If you do not find a site already existing in the WDS for the same location where you are applying for a Site Id number, you will need to fill out a blank form. The blank Site Id form is on the following web page then click on

Abandoned Tanks

Abandoned tanks represent an unknown danger, seen or unseen



Potentially Contaminated Property

Phase I Environmental Site Assessment (ESA) identifies the type, and possible locations of potential contamination at a brownfields site.

Phase II ESA involves sampling soil, groundwater, and air to determine the locations of contamination.



Baseline Environmental Assessment

Gives a new owner/operator of a contaminated site, the ability to purchase contaminated property without being liable for pre-existing contamination



BEA Cleanup Liability Exception

Treatment, Storage,
Disposable (TSD) Facility or
Part 111 hazardous waste
sites are never free from
CLEANUP liability. BEA
covers Part 201 liability

BEA and Due Care

After the date of purchase, occupancy or foreclosure of property, the BEA

☞ Must be conducted within 45 days

☞ Must be completed and dated within 60 days

☞ Must be submitted within 8 months

Owner/Operator Due Care Obligations

- ☑ **Prevent** exacerbation of pre-existing environmental contamination
- ☑ **Mitigate** immediate environmental threats
- ☑ **Prevent** human exposure to existing contamination



Rules and Regulations

- The Michigan Fire Prevention Code, Act 207
- Michigan Underground Storage Tank (MUST) Rules
- Storage and Handling of Flammable and Combustible Liquids – ASTs and USTs
- Liquefied Petroleum Gas Rules (LPG)
continued.....

Rules and Regulations

NEW
2008

- Gaseous & Liquid Hydrogen Rules
- Compressed Natural Gas Rules (CNG)
- UST's, Part 211, NREPA, PA 451
- Leaking Underground Storage Tanks, Part 213, NREPA, PA 451

Storage Tanks - AST / UST

Existing and New Facilities

- Plan reviewed (new facility)
- Fees
- Registered
- Financial Responsibility for UST systems
- Inspections

Storage Tanks - AST Fees

Storage Tanks	Substance	Size (Gallons)	Plan Review* Required For New AST	Registration Fee
AST – FI & CI	Liquids with a Flash point < 200 F ⁰	> 1,100	Yes, \$203	Yes, \$61.50 per AST per year
AST – Farm or Residential	Motor Fuel for non-commercial purpose	> 1,100	Yes, \$203	Yes, \$61.50 per AST per year
AST – Hydrogen	Gaseous H ₂	Each 26,000 scf storage capacity, any dispensing	Yes, \$203	Yes, \$61.50 per AST per year
AST – Hydrogen	Liquefied H ₂	Any size	Yes, \$203	Yes, \$61.50 per AST per year
AST – Heating Oil	Consumptive use, Flash point < 200F ⁰	> 1,100	Yes, \$203	Yes, \$61.50 per AST per year
AST – CNG	CNG	Any dispensing	Yes, \$203	Yes, \$61.50 per AST per year**
AST – LPG	LPG	<ul style="list-style-type: none"> ☞ Any dispensing ☞ Individual AST greater > 2,000 gallons or two or more AST with an aggregate capacity of > 4,000 gallons 	Yes, \$203	Yes, \$61.50 per AST per year

***The Plan review fee includes the first year registration cost**

****Fees are based upon the capacity of the storage container**

Storage Tanks - UST Fees

Storage Tanks	Substance	Size (Gallons)	Plan Review Required For a New UST, Fee*	Registration, Fee
UST – Business - Commercial	Hazardous chemicals – petroleum products	> 110	Yes	Yes, \$100 per UST per year
UST – Farm or Residential	Motor fuel for non-commercial purpose	> 1,100	Yes	Yes, \$100 per UST per year
UST – Flammable & Combustible	Liquids with a Flash point < 200 F ⁰	> 1,100	Yes	Yes, \$100 per UST per year
UST – Heating Oil	Consumptive use	Any size	No	No
UST – Hydrogen	Gaseous H ₂	Each 26,000 scf storage capacity, any dispensing	Yes	Yes, \$100 per UST per year
UST – Hydrogen	Liquefied H ₂	Any size	Yes	Yes, \$100 per UST per year
UST – LPG	LPG	Any dispensing	Yes	Yes, \$100 per UST per year

MECC June 2008 DEQ
Storage Tank Regulations

* Plan review fees for USTs are included in the annual fee

AST / UST Tank Related Forms & Publications at <http://www.deq.state.mi.us/sid-web>

Address: <http://www.deq.state.mi.us/sid-web/Default.aspx>

DEQ Department of Environmental Quality Michigan.gov

Home | **Underground Storage Tank** | Leaking Underground Storage Tank | Download Excel Files | Qualified Consultant | **Forms & Documents**

Storage Tank Information Center

SID-DEQ

These pages provide searchable storage tank databases as well as documents and forms used in the storage tank programs in the Department of Environmental Quality (DEQ). The searchable data, from the DEQ's Storage Tank Information Database (SID), is updated daily. The explanations of the tabs are:

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- Download Excel Files** : This provides downloadable MS Excel Files of active and closed UST facilities, and open and closed LUST sites, either for a whole DEQ district or for individual counties within a district. A complete list of active and closed UST facilities and open and closed LUST sites is also downloadable.
- Qualified Consultants**: This provides a search engine for consultants that are currently certified by the DEQ as Qualified Underground Storage Tank Consultants, under Part 215
- Forms and Documents**: This page provides the informational memos, forms, guidance documents, and operational memos.

WEBFORMS: The following forms, in addition to being available as hard copy, can be filled in on the web and submitted electronically.

- Form for Reporting Release** : Complete this web form to report a release from an Underground Storage Tank regulated under Part 211.
- Free Product Transmittal** : Complete this form to notify the Remediation and Redevelopment Division (RRD) within 24 hours of the discovery of free product as required under Part 213.

Address: http://www.deq.state.mi.us/sid-web/Forms_Docs.aspx?strId=FORMS

MECC June 2008 DEQ
Storage Tank Regulations

AST / UST Forms (down loadable)

Available from Storage Tank Information Center: Proposed Installation, Registration, Reports and more

Back Forward Stop Home Search Favorites Refresh Mail Print Word Links DEQ Intranet Windows Marketplace

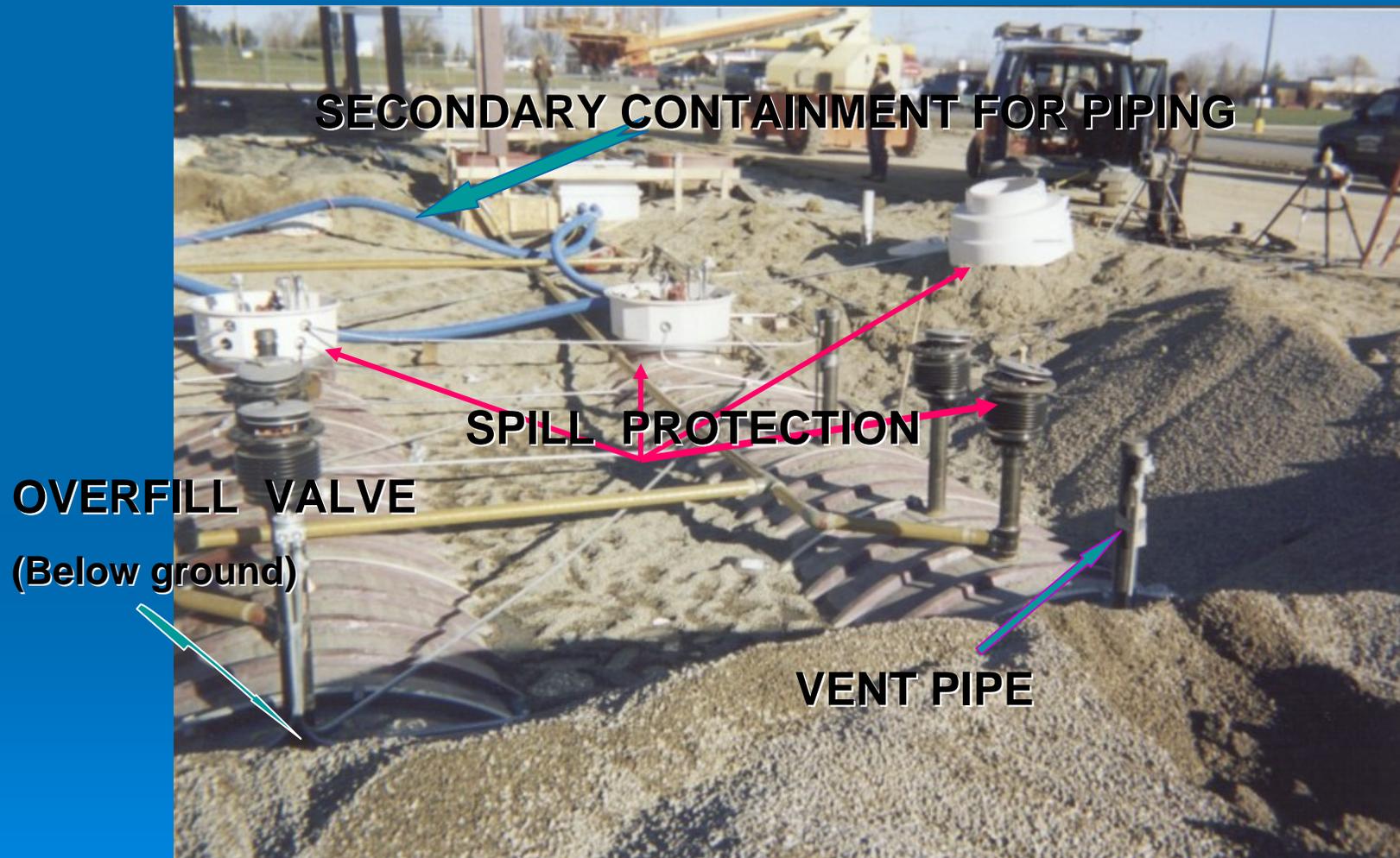
Address http://www.deq.state.mi.us/sid-web/Forms_Docs.aspx?strId=FORMS Go

[Forms](#) | [Informational Memoranda](#) | [Operational Memoranda](#) | [Publications](#)

Forms

Number	Title Name	PDF Format	MS Word Format	Online Forms
EQP3800	Free Product Transmittal	deg-std-EQP3800.PDF	deg-std-EQP3800.DOC	EQP3800.asp
EQP3801	Notice of On-Site Work Activity Fax Transmittal	deg-std-EQP3801.PDF	deg-std-EQP3801.DOC	EQP3801.asp
EQP3820	Notice of Proposed Installation of Underground Storage Tanks	deg-std-EQP3820.PDF	deg-std-EQP3820.DOC	
EQP3821	Tank registration	deg-std-EQP3821.PDF	deg-std-EQP3821.DOC	
EQP3824	Intent of Removal, Closure or Change-in-Service of Underground Storage Tanks	deg-std-EQP3824.PDF	deg-std-EQP3824.DOC	EQP3824.asp
EQP3826	Release Report: Suspected/Confirmed	deg-std-EQP3826.PDF		EQP3826.asp
EQP3834	Marine Service Station Checklist	deg-std-EQP3834.PDF		
EQP3835	Underground Storage Tank Installation Checklist	deg-std-EQP3835.PDF	deg-std-EQP3835.doc	
EQP3836	Automotive Service Station Checklist	deg-std-EQP3836.PDF		
EQP3841	Leaking Underground Storage Tank Initial Assessment Report	deg-std-EQP3841.PDF	deg-std-EQP3841.DOC	
EQP3842	Leaking Underground Storage Tank Final Assessment Report	deg-std-EQP3842.PDF	deg-std-EQP3842.DOC	
EQP3843	Leaking Underground Storage Tank Closure Report	deg-std-EQP3843.PDF	deg-std-EQP3843.DOC	
EQP3849	Leaking Underground Storage Tank Supplemental Report Cover Sheet	deg-std-EQP3849.PDF	deg-std-EQP3849.DOC	
EQP3850	Free Product Recovery Status Report	deg-std-EQP3850.pdf	deg-std-EQP3850.DOC	
EQP3852	Notice to Impacted Parties of Corrective Action	deg-std-EQP3852.PDF	deg-std-EQP3852.DOC	
EQP3853	Corrective Actions Notice to Register of Deeds	deg-std-EQP3853.PDF	deg-std-EQP3853.DOC	
EQP3854	Restrictive Covenant	deg-std-EQP3854.PDF	deg-std-EQP3854.DOC	
EQP3855	Consent to Enter Private Property	deg-std-EQP3855.PDF	deg-std-EQP3855.DOC	
EQP3857	UST Closure Inspection Checklist	deg-std-EQP3857.PDF	deg-std-EQP3857.DOC	
EQP3858	Change of Information Form Aboveground Tanks Only	deg-std-EQP3858.pdf	deg-std-EQP3858.DOC	
EQP3859	Application for Installation of Aboveground Storage Tanks	deg-std-EQP3859.pdf	deg-std-EQP3859.DOC	
EQP3860	Application for Installation of Compressed Natural Gas Fueling Facilities	deg-std-EQP3860.pdf	deg-std-EQP3860.DOC	
EQP3861	Application For Installation of Liquefied Petroleum Gas Facilities	deg-std-EQP3861.pdf	deg-std-EQP3861.DOC	

Spill & Overfill Protection Required for all UST



Secondary Containment

- Required for any AST
 - ❖ For ASTs 660 gallons or less, a class 2 liquid (FP between 100 – 140 F) does not require secondary containment
- Strongly encouraged for any size tanks
- Pressurized piping on regulated USTs, is required to have secondary containment

** New legislation - a secondary containment requirement is pending for USTs ***

Secondary Containment Being Installed



SECONDARY CONTAINMENT FOR PIPING

MECC June 2008 DEQ
Storage Tank Regulations

Miscellaneous Requirements for ASTs and USTs

Requirements	AST	UST
Corrosion protection	Yes	Yes, may be inherent in some products
Spill, Overfill	Yes	Yes
Pollution Liability Insurance	Not required for ASTs but is strongly recommended	Yes
Record Keeping (daily inventory, repairs, testing, etc.)	Yes	Yes
Site Assessment is required if there is evidence of a release	Yes	Yes

Tanks Temporary Out-of-Use or Closure

Requirement	AST	UST
Emptied of liquid	Yes	Yes
Cleaned to a vapor free condition	Yes	Yes
Tank system piping removed	No, must be disconnected from the tank	Yes*
Tank removed	No, tank must be safeguarded	Yes*
Site assessment sampling, tank system	No, assessment is strongly encouraged	Yes
Forms completed and submitted to DEQ	Yes	Yes

Note: Removed product and tanks must be disposed of properly per DEQ requirements

Temporary Out-of-Use AST System

- Must be safeguarded from trespass and vandalism
- Must be tested prior to reuse
- Must be upgraded to meet new requirements and be put back in service within 12 months or be removed

Temporary Out-of-Use UST System

- Temporarily closed if **empty** for 30 days with the intention of being brought back into service within 12 months
- Must maintain cathodic protection and leak detection, if product is in the tank
- Must file an amended registration and maintain fees
- A temporarily closed UST system must meet new requirements and be put back in service within 12 months or be removed
- Tightness test required prior to reactivation

Note: the only time it is required to be removed is if it is a noncompliant and/or the fees are not current

Reporting a Confirmed Release for an AST

 Phone: The local RRD district office
(see Appendix B)

 Report emergency spills or releases
to the Pollution Emergency Alerting
System to 800-292-4706. If outside
Michigan call 517-335-7211

Reporting a Confirmed Release for a UST

 Phone: 517-335-7279

 Fax a release report: 517-335-2245

 Online form EQP3826.asp, available at
<http://www.deq.state.mi.us/sid-web/>

 Report emergency spills or releases to
the Pollution Emergency Alerting System
to 800-292-4706. If outside Michigan call
517-373-7660

Information to Report for Releases

- ☛ Name & phone of person reporting the release
- ☛ Facility ID
- ☛ Facility name, and address
- ☛ Time and date of the release
- ☛ Ownership of the tanks
- ☛ Address of owner
- ☛ What product was released, amount
- ☛ Source of the release (piping, pumps, etc.)
- ☛ Any immediate impact of the release (threat to human health, environment)

Leaking Tanks and Other Contamination

Contamination is required to be remediated per DEQ requirements

Information On-Line

-  **Baseline Environmental Assessment:**
http://www.michigan.gov/deq/0,1607,7-135-3311_4109_4212---,00.html
-  **DEQ –** <http://www.michigan.gov/deq>
-  **DEQ Storage Tanks -**
http://www.michigan.gov/deq/0,1607,7-135-3311_4115---,00.html
-  **DEQ Remediation & Redevelopment -**
http://www.michigan.gov/deq/0,1607,7-135-3306_28608---,00.html
-  **National Fire Protection Association -**
<http://www.nfpa.org>

How To Contact DEQ Storage Tank Personnel

 The Environmental Assistance Center:
800-662-9278

 The Storage Tank Unit: 517-335-4035

 Email: deq-ead-env-assist@michigan.gov

Need Help with DEQ programs? Contact the Environmental Assistance Center

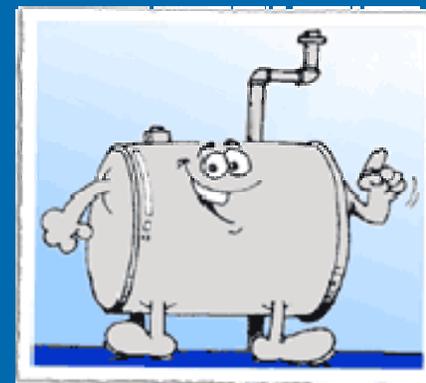
- 👍 **Technical Assistance**
- 👍 **Workshops and Conferences**
- 👍 **Publications**



Call 800-662-9278 or email deq-ead-env-assist@michigan.gov



Questions?



Pam Howd
DEQ Environmental Science & Services
Division
517-335-3492
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Storage Tank Regulations

