Record Keeping and Inspections

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Goals

- ✓ Reduce inspection anxiety
- Provide opportunity and tools to be prepared for an inspection
- ✓ Highlight inspector constraints
- ✓ Share examples of good and bad inspection observations





Waste Regulations

Act 451, Michigan Natural Resources & Environmental Protection Act:

Part 111, Hazardous Part 121, Liquid Industrial By-Products Part 115, Solid Waste Part 169, Scrap Tires Act 368, Michigan Public Health Code: Part 138, Medical Waste Regulatory Act Part 2, Ionizing Radiation Rules Federal Toxic Substance Control Act (TSCA)





Required Paperwork

- ✓ Notification of Hazardous Waste Activity
- ✓ Waste Characterizations
- ✓ Land Disposal Restriction Forms (LDR's)
- Manifests and Shipping Documents e-Manifests NEW
- ✓ Training Records
- ✓ Contingency Plans
- ✓ Waste Area Inspection Documents
- ✓ Annual Liquid Industrial By-Product Reports NEW
- ✓ Biennial Hazardous Waste Reports





Notification of Waste Activity

Hazardous waste generators must notify of their regulated waste activity

The Waste Management and Radiological Protection **Division (WMRPD) issues IDENTIFICATION NUMBERS** to facilities per site

Liquid Industrial By-Product Generators are No Longer required to have a Site ID Number as of March 2016!

Required under authority of the Natural Resources and Environmental Protection Aut, 1054		VRIMENT OF ENVIRON and Hazardous Materiak		DEQ
PA 451, as amended. Failure to submit this information may result in cultor oriminal penalties.	SITE	IDENTIFICA	TION	
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Notification of Regulated

Waste Activ

Notification of Waste Activity

Site notification using the EQP 5150 form is also required for:

- Hazardous waste and liquid industrial by-product transporters
- Liquid industrial by-product treatment, storage, and disposal facilities (designated facilities)
- Hazardous waste treatment, storage, and disposal facilities
- Large quantity universal waste handlers





Waste Characterization

Waste characterization records are required for each waste stream

See recorded webinar on Waste Characterization and Generator Status at www.michigan.gov/deqwaste

See Waste Characterization Steps/Questions and Optional Form





Waste Characterization

Solvent wipes guide includes a form for documenting the exclusion

If wipes go to intermediary before disposal (e.g. a hazardous waste TSDF) the records must identify the intermediary and destination facility

DEQ must be able to follow the wipes to an ultimate disposal option that meets the exemption (MSW or HW incineration or landfill)





LQGs and SQGs must determine if the waste requires treatment before land disposal

LQGs and SQGs must provide notice of LDR information for the initial waste shipment to each off-site TSD

Notification required even for shipment to nonland based TSDs (e.g. incinerator)





Applies to listed & characteristic hazardous wastes from SQGs & LQGs

Notice sent to each TSD for each waste stating waste meets or does not meet LDR standards

Requires treatment before land disposal for most wastes





Land disposal includes any disposal on land (landfill, land treatment, injection well, salt caverns, etc.)

New LDR notice must be sent when there is a waste or facility change

LAND DISPOSAL RESTRICTION NOTIFICATION AND CERTIFICATION FORM

LDR Continuation Page? No Yes

Generator Name:

st Number:

Applicable Certification/Notification Statement (found on reverse side) : /

01 - F005 SPENT SOLVENTS

CONSTITUENT	VWI	NWW	CONSTITUENT	VAN	NWW
Acetone – F003			Methylene chloride – F002		
Benzene – F005 (D018)			Methyl ethyl ketone - F005 (D035)		
n-Butyl alcohol - F003			Methyl isobutyl ketone – F003		
Carbon disulfide - F005			Nitrobenzene - F004 (D036)		
Carbon tetrachiloride - F001 (D019)			2-Nitropropane - F005		
Chlorobenzene – F002 (D021)			Pyridine - F005 (D038)		
m- & p-Cresol - F004 (D024 & D025)			Tetrachloroethylene - F001 (D039)		
o-Cresol - F004 (D023)			Tetrachloroethylene - F002 (D039)		
Cyclohexanone – F003			Toluene – F005		
1.2-Dichlorobenzene - F002			1,1,1-Trichloroethane - F001		
2-Ethoxyethanol – F005			1,1,1-Trichlorcethane - F002		
Ethyl acetate - F003			1.1.2-Trichloroethane - F002		
Ethyl benzene - F003			1,1,2-Trichloro-1,2,2-bifuoro-ethane - F002		
Ethyl ether - F003			Trichlaroethylene - F001 (D040)		
Isobutanol – F005			Trichloroethylene - F002 (D040)		
Methanol – F003	-		Trichlorofluoromethane - F002		
Methylene chloride - F001			Plylene - F003		

Shaded areas Indicate waste that can carry D waste numbers also. D waste numbers shown in parenthesis are for reference only

THER	RES'	TRIC	TED	WAS	TES	

Hazardous Waste No.	w	NWW	Subcategory of Waste	EPA Hazardous Weste No.	ww	NWW	Subcategory of Waste
D001	_		High TOC-Ignitable Liquid (±10%)	<u> </u>			
D001			Ignitable Waste in non-CWA/SDWA				
D002			Corrosive Weste in non-CN/A/SDN/A				
D003			Reactive Cyanides				
D003			Readive Sulfides				
D003			Water Reactive				
D003			Other Reactive				
D009			High Mercury - Inorganic (2260 mg/kg)				
D009			High Mercury - Organic (±200 mg/kg)				
D009			Low Mercury (<250 mg/kg)				
			N				
			n	├ ──	-		-



To determine if treatment is required, review if waste codes for each waste stream meet the standards in 40 CFR 268.40, 268.45(debris), or 268.49(soil)

Notification required even for shipment to non-land based TSDs (e.g. incinerator)





LDR Notice must include:

- Manifest document number
- EPA hazardous waste numbers
- Treatment standards

There is no standard EPA notification form for the LDR notice!





LDR Generator Recordkeeping

Generators treating prohibited waste to meet the standards in 40 CFR 268.48 must have a written waste analysis plan describing the activities they perform to meet the treatment standards

All generator LDR records are required to be maintained for 3 years from the last date of shipment or on-site treatment and/or disposal, whichever is later





LDR Generator Recordkeeping

Keep LDRs & related documents for at least 3 years after waste last sent to TSDF

LDR's must have complete information such as categories of waste and underlying hazardous constituents

Information on LDR must be consistent with the waste characterization





Uniform manifest <u>must</u> be used when hiring permitted & registered transporter to ship hazardous waste from a small or large quantity generator except when:

 SQG is shipping waste off-site for reclamation and regenerated material is brought back to generator when specific conditions are met (tolling agreement)





Shipment of non-hazardous liquid industrial by-products no longer requires use of uniform manifest as of March 2016

Generators may use the uniform manifest to meet the shipping document requirements

<u>Consolidated</u> shipping document may be used for non-hazardous liquid industrial by-products, including CESQG liquids





Generators must track manifests and shipping documents

Manifest copies signed by the disposal facility must be sent back to the hazardous waste generator after date of shipment by:

<u>SQG</u> - 60 days

LOG - 45 days





- 2013 rule changes, no longer required to mail manifest to DEQ
- July 1, 2018 e-Manifest system deployment NEW!!!
- Use of the e-manifest will be optional
- Paper manifests cost \$20, e-manifests cost \$4
- Still must create and carry <u>paper</u> copy for US DOT transport safety





No more DEQ manifest fees

All manifests go directly to EPA after 6/30/18

Can use e-manifest for non-hazardous shipping document but not recommended

Learn more at www.epa.gov/e-manifest

Register to for DEQ e-Manifest webinar on 5/16/18 at www.michigan.gov/deqevents





E-Manifest System

June 30, 2018 U.S. EPA deploys the NEW e-Manifest System

View recorded webinar on e-Manifests at www.michigan.gov/deqwaste under "Announcements" to learn more

See the DEQ Uniform Manifest Information Web Page for access to DEQ and U.S EPA resources on the new system

Discuss manifest/shipping document changes with your receiving facilities





2016 STATUTE CHANGE!!

No longer required to use uniform manifest to document shipment/disposal of liquid industrial by-product

"Shipping document" may be any of the following in written or electronic form:

- log
- invoice
- bill of lading
- any record that includes required information





The shipping document must include:

- Name and address of the generator
- Name of the transporter
- Type and volume of the liquid industrial byproduct in the shipment
- Date the it was shipped from the generator
- Name, address, and Site ID number of the designated facility





At the time of shipment, generator must certify

- The liquid industrial by-product is accurately described on the shipping document
- Shipment is in proper condition for transport
- The information on the shipping document is factual





Generator provides copy of shipping document to transporter to accompany shipment to the designated facility

Generator must receive confirmation of acceptance of the liquid industrial by-product from the designated facility

Generator must maintain records for 3 years





Liquid Industrial By-Product Designated Facility

Liquid Industrial by-product designated facility is a facility that receives liquid industrial by-product from another site, this could include:

- Receiving unwanted liquid waste from other locations owned and operated by the same company
- Receiving unwanted liquids from other companies





2016 Statutory Change!!!

Second report was due 4/30/18

Report was to identify liquid industrial by-product received from 1/1/17 to 12/31/17

Completed EQP 1602 forms are to be submitted to DEQ-Part-121-Reporting@michigan.gov

See recorded Liquid Industrial By-products Handling & Reporting webinar at www.michigan.gov/deqwaste to learn more





No report required if designated facility received only by-product from only 1 generator owned, operated or legally controlled by the receiving facility

Required reporting includes:

- Name and address of the designated facility
- Calendar year covered by the report
- Types and quantities of by-product received
- Description of the manner in which the by-product was processed or managed





Waste Reporting Types

- Antifreeze
- Brine Car Wash Sludges
- Conditional Exempt Small Quantity Generator Hazardous Waste
- Coolants and Water Soluble Oils
- Crankcase Oil
- Grease Trap Wastes
- Hazardous Secondary Materials

- Mixed Solvents
- Other Oil
- Other Wastes
- PCB
- Pharmaceutical
- Sanitary Sewer Cleanouts
- Storm Sewer Cleanouts
- Water Based Cleaning Solutions
- X-Ray/Photo Solutions
- Universal Waste





Waste Treatment Types

- Authorized Discharge to Municipal Sanitary Sewer System
- Beneficial Reuse
- Blending with Hazardous
 Waste for Fuel
- Deep Well Injection
- Elementary Neutralization
- Filtration
- Incineration
- Non-hazardous Waste Fuels

- Other Processing (specify)
- Recycling (such as antifreeze or non-hazardous solvent recycling)
- Recoverable Petroleum Products (RPP) Re-refining
- Solidification/Landfilling
- Storage Only
- Used Oil Fuel
- Used Oil Recovery/Recycling
- Used Oil Re-refining
- Wastewater Treatment (precipitation)



Form and instructions are available at www.michigan.gov/deqwaste, select

- "Hazardous Waste"

- "Hazardous Waste and Liquid Industrial By-Products" and
- Part 121 Liquid Industrial By-Product Reporting"





Liquid Industrial By-Product Resources

Also available on this page include:

- ✓ Example Shipping Document
- ✓ FAQ
- ✓ Liquid Industrial By-product Generator Guidance
- ✓ Recorded Webinar





Hazardous Waste Biennial Report

Details hazardous waste activity in the previous odd numbered year

Required of LQGs and TSDs

Submit to WMRPD by March 1 of even-numbered year

Report includes both MI & EPA hazardous wastes

Keep copy at least 3 years from due date

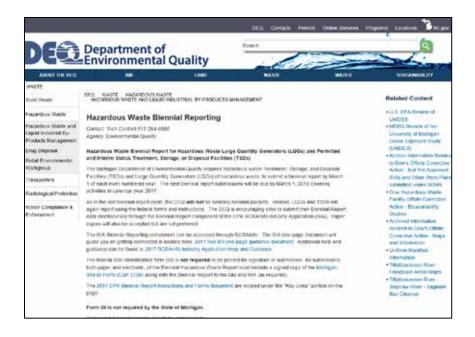




Hazardous Waste Biennial Report

2014 biennial reports required to be submitted electronically

2018 biennial reporting information found on Biennial Reporting Web page







Hazardous Waste Area Inspection Documents

SQG & LQG must perform:

✓ weekly container accumulation area inspections

 \checkmark daily for tank inspections

LQGs must <u>document</u> hazardous waste container accumulation area and tank inspections

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Emergency Planning & Training Requirements

CESQG

No specific requirements

SQG

- Informal training
- Training records not required
- No stipulated review period



ARDOUS WASTE EMERGENCY INFORMATIO

- Must post CURRENT emergency info by phone near operations
- Must send facility diagram to responders or discuss facility layout, access roads, evacuation routes, etc.,
- Must ensure emergency coordinator is identified and on premises or on-call





Emergency Planning & Training Requirements

LQG employee training documents:

- Must have written hazardous waste training program
- Must conduct annual training for employees
- Must keep written training records for 3 years
- Must have description of the *type of training given*
- Must be conducted by someone who is qualified to conduct training





Emergency Planning & Training Requirements

SQGs and LQGs must:

- Have CURRENT & complete written contingency plan on-site
- Make contact/arrangements with local fire department, police, hospitals, emergency response contractors, and local emergency response teams

LQGs must document that they made this contact





Pre-Transport Requirements

SQG & LQG offering 1,000 lbs. for shipment must have U.S. DOT placards for their type of waste available for transporters at pick-up



1993



Tank Inspection Documents

All tank inspections must be documented and all records must be kept for at least 3 years







Tank Certification

Must obtain a written assessment that is reviewed and certified by a qualified professional engineer that includes:

- Design standards
- Hazard characteristics of the waste
- Determination performed by corrosion expert if the external shell of a metal tank is in contact with soil or water
- Design considerations if tank affected by vehicles





Tank Certification

Requires professional engineer certification

Written certification must be on file at facility









Inspection Day!!





Inspection Day!!

When and why does an inspector visit?

- Routine compliance inspection
- Complaint received
- Manifest discrepancies
- Inspection requested by another agency





How to Survive an Inspection





Relax

Don't be adversarial





How to Survive an Inspection

Have your records in order!







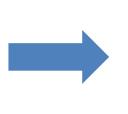
How to Survive an Inspection

Don't try to hide anything



If asked to "fix" something, consider doing it then, if possible











What Do Inspectors Look At?

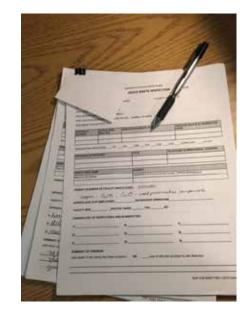
Waste Related Records:

- Waste characterizations
- ✓ Manifests
- ✓ LDR's
- ✓ Storage area logs
- ✓ Biennial report
- Emergency Preparedness
- Personnel training records
- Contingency plans
- Spill control equipment

Waste Handling and Accumulation Areas:

- Containers and tanks
- ✓ Labeling
- Secondary
 - containment







Gallery of Violations









Hazardous Waste Manifest Common Violations

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- Using wrong ID number

 Using wrong or incorrect waste codes

Failing to send copy to state (when required)

Failing to keep signed manifests for three years

Failing to have records of used oil shipped on consolidated manifest

ME



LDR Common Violations

Failing to keep LDRs & related documents for at least 3 years after waste last sent to TSDF

Missing LDR notification and waste analysis documents

Missing or incomplete information such as categories, underlying hazardous constituents, and manifest numbers

Listing LDR information that is inconsistent with waste characterization





Other Common Violations

Failing to have waste characterizations on site for all wastes

Failing to have copy of last Biennial Report on-site (LQG)

Failing to have updated contingency plan on-site (LQG)

Failing to have annual personnel training records on-site (LQG)





Failing to have adequate space or aisle width to properly inspect containers and for emergency personnel

Failing to have labels visible for inspections







Don't stack more than 2 drums high!







MICHIGAN ENVIRONMENTAL Compliance confe<u>rence</u>

Exceeding the allowable on-site accumulation time limit for hazardous waste without requesting an extension or obtaining a storage permit





Notice leaking drum and stains





Using Containers in **Poor** Condition



Some bad containers are obvious!

Leaking bucket & tank











Others require looking all around the container to see a problem

Look for staining as a sign









Leaving containers exposed to weather or vandals





Failing to keep the containers closed, except when waste is added or removed







Leaving funnels in place that are not screwed into the bung and funnel not capable of being kept closed would be considered open





Notice splashing on wall

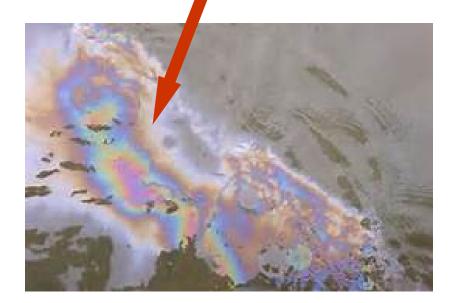
Valve must be closed except when adding waste





Other leaks require noticing signs on the ground or puddles, etc.

















Compliant Storage Options







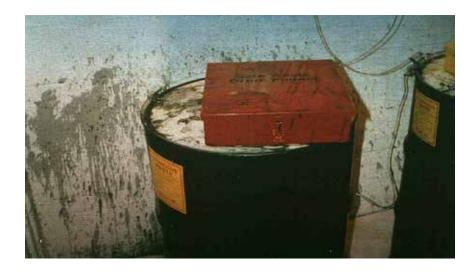
Compliant Storage Options







Compliant Closure Options



Use lockable options



Notice the valve, it automatically closes when handle is released







Container Labeling Violations

Listing incorrect or incomplete information on hazardous waste labels



Missing accumulation date

Missing words "Hazardous Waste"

Missing hazardous waste number(s)





Compliant Storage Labeling







Shipping Label





Compliant Storage Labeling









Compliant Storage Labeling Liquid Industrial By-products

2016 Statutory Change!!







Common Used Oil Violations

ILLEGAL *DISPOSAL* OF USED OIL









Common Used Oil Storage Violations









Compliant Used Oil Storage Options









Common Secondary Containment Violations





Lacking or inadequate secondary containment for LQG, SQG with over 2200 lbs. & any facility storing acutely hazardous wastes





Common Secondary Containment Violations

Failing to elevate containers or have case of containment sloped to drain when required

Lacking or inadequate squirt protection

<image>

Notice the staining

Sill is not high enough





Common Secondary Containment Violations





Lacking or inadequate chemical resistant coating & having cracked surfaces







Common Secondary Containment Violations



Failing to remove precipitation in a timely manner from containment areas

How can drums be checked for leaks if buried in snow?





Compliant Secondary Containment Options



Sloping ramp saves backs and reduces spills when moving materials in & out of containment area

Spill pallets OK for solids but does NOT provide squirt protection for liquids



This type does provide squirt protection







Sorbents



Sorbents used to clean up hazardous waste by SQG or LQG *must* be handled as hazardous waste

Can be landfilled IF: don't contain free liquids, <u>AND</u> not a hazardous waste, OR were generated by CESQG







What Kind of Inspection Follow-up Is Necessary?



Respond according to the letter sent by the WMRPD

Accompany inspector if there is a follow-up second inspection

Have a question about the inspection? Call the inspector who visited your facility or Christine Grossman of Environmental Support Office at 517-284-6860





QUESTIONS?



