# Workshop P: New to EHS? Meet the New RCRA Waste Management



**Regulations Most Likely to Affect Your Daily Job** 



2023

# **Your Presenters**

#### **MEET OUR TEAM**





#### Anita Decina

VP of Operational Safety & Environmental Excellence Heritage-Crystal Clean, LLC

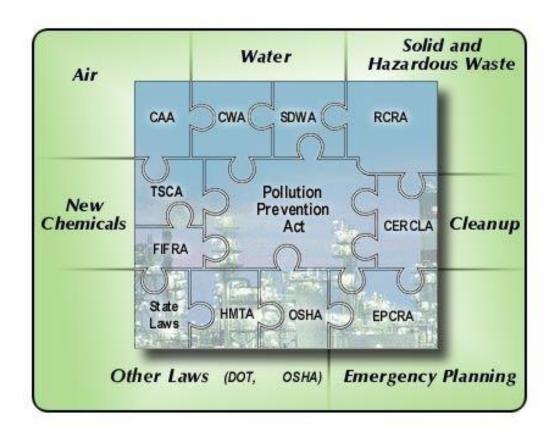


#### Rajib Sinha, PE

Senior Engineer/Regional Initiatives Manager Trihydro Corporation Cincinnati, Ohio

## **Course Objectives**

- Overview of the Clean Water Act
- Overview of Major Hazardous Waste Regulations (RCRA)
- What's new?







#### **Major Environmental Statutes** Laws Behind the Regulations

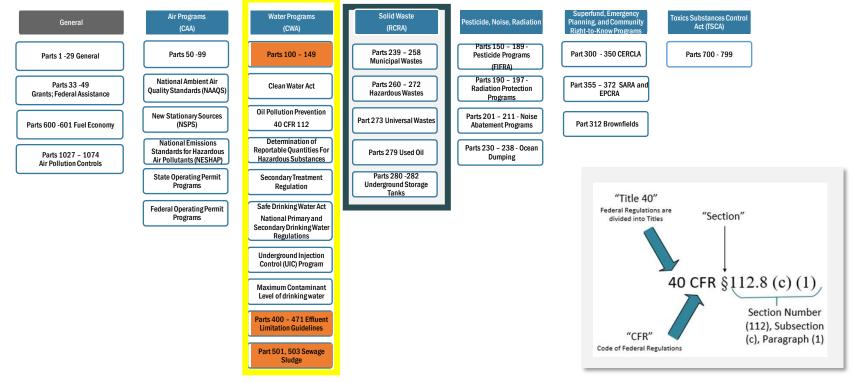
- Clean Air Act (CAA)
- Clean Water Act (CWA)
- Resource Conservation and Recovery Act (RCRA)
- Safe Drinking Water Act (SDWA)
- Emergency Planning, and Community Right-to-Know Act (EPCRA)
- Superfund Amendments and Reauthorization Act (SARA)
- Toxic Substances Control Act (TSCA)
- Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)
- Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)





## Code of Federal Regulations (CFR) – Title 40

SUBCHAPTER I - SOLID WASTES (PARTS 239 - 282) BASED ON THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA)





## **Clean Water Act**

Enacted in 1972 with the goal:

- **Pollution Control** prevent, reduce, and eliminate pollution in rivers, lakes, streams, wetlands, and coastal areas.
- National Pollutant Discharge Elimination System (NPDES): Requires permits for the discharge of pollutants into navigable waters.
- Water Quality Standards: States establish water quality standards for their waters, including designated uses (e.g., drinking water, swimming, fishing) and water quality criteria (e.g., acceptable pollutant levels). Water quality standards serve as a basis for water quality management and regulation.
- Total Maximum Daily Load (TMDL): TMDLs are developed for water bodies that are not meeting water quality standards.
- Section 404 Permit Program: Regulates wetlands. It requires permits for activities such as land development, mining, and construction that may impact wetlands or other water bodies.
- Stormwater Management: Regulates stormwater runoff. Permits for stormwater discharges from municipal separate storm sewer systems (MS4s) and industrial facilities.
- Oil Pollution Prevention: Implement Spill Prevention, Control, and Countermeasure (SPCC) plans.
- Nonpoint Source Pollution Control: Addresses nonpoint source pollution (e.g., agricultural runoff, atmospheric deposition).
- Public Participation: The CWA encourages public participation.



## **Primary Permit Programs Likely to Affect You**

- NPDES Permits:
  - Two types: Individual and General
    - Individual site-specific conditions; may require 6+ months to obtain
    - General multiple dischargers under a sector; coverage is quickly granted
  - Applies to any "point" source
  - Permit Term 5 years
  - Public review and comment on draft permits
  - EPA may review draft permits.



## **Industrial Stormwater Permits**

- Generally coverage under the Multi-Sector General Permit
- MSGP is a general permit regulating stormwater discharges from industrial facilities.
- Current Permits:
  - Ohio OHR000007 Issued: May 18, 2022
  - Kentucky KYR00 Issued: August 1, 2023
  - Indiana Rule 6 (327 IAC 15-6)

Expires: July 31, 2028

May 31, 2027

Expires:

- Evaluate your facility for exposure stormwater for industrial activities and submit:
  - Notice of Intent (NOI), or
  - No Exposure Certification (NEC)
- Requires the facility to prepare a Storm Water Pollution Prevention Plan (SWP3).
- May require monitoring samples (visual or analytical) depending on industry sector.
- Requires an annual Discharge Monitoring Report

#### Industries Covered by the MSGP and SIC Codes

SIC Code	Inc	lustrial Activity Sector
24xx	A:	Timber Products
26xx	B:	Paper Products
28xx, 3952	C:	Chemical Products
29xx	D:	Asphalt/Roofing
32xx	E:	Glass, Clay, Cement
33xx	F:	Primary Metals
10xx	G:	Metal Mining
12xx	H:	Coal Mines
13xx	1:	Oil and Gas
14xx		Mineral Mining
HZ	K:	
LF		Landfills
5015	M:	Auto Salvage Yards
5093	N:	
SE		Steam Electric Facilities
40xx, 41xx,	P:	Land Transportation
42xx, 4311, 5171		
44xx		Water Transportation
37xx	R:	Ship/Boat Building,
	-	Repair
45xx	S:	
TW	T:	Treatment Works
		(WWTPs)
20xx, 21xx	U:	
22xx, 23xx, 31xx	V:	Textile Mills
2434, 25xx		Furniture and Fixtures
27xx	X:	
30xx, 39xx	<u>Y</u> :	
3111	Z:	Leather Tanning/
2499 2099	۸۸.	Finishing Fabricated Matal
34xx, 39xx	AA:	
2Evy 27vy	AB:	Products Transportation Equip
35xx, 37xx 357x, 38xx, 36xx		
337X, 38XX, 38XX	AU:	Electronic, photo goods

### Pretreatment Programs

- Requires industrial dischargers discharging to Publicly Owned Treatment Works (POTWs) to comply with pretreatment standards to ensure the goals of the CWA are met.
- All users are subject to local POTW regulations.
- 58 industrial categories are subject to categorical standards (40 CFR Parts 400-471)



## **Oil Pollution Prevention Act**

- Requires preparation of a Spill Prevention Control and Countermeasures Plan (SPCC).
- If storing over 1,000,000 gallons of oil, evaluate the potential for a spill to reach "navigable waters". Must document the "Planning Distance" calculations.
- If a spill can impact a "sensitive" area, prepare a Facility Response Plan (FRP).



## **Army Corps Permits**

Permits Required	Activities Covered	
Section 10, Rivers and Harbors Act of 1899	Building of any structure in the channel or along the banks of navigable waters of the U.S.	
Section 404, Federal Clean Water Act Letters of Permission	Minor or routine work with minimum impacts	
Nationwide Permit 3	Repair, rehabilitation, or replacement of structures destroyed by storms or floods in past 2 years	
Nationwide Permit 13	Bank stabilization less than 500 feet in length solely for erosion protection	
Nationwide Permit 26	Filling of up to 1 acre of a non-tidal wetland or less than 500 linear feet of a non-tidal stream that is either isolated from other surface waters or upstream of the point in a drainage network where the average annual flow is less than 5 cfs	
Nationwide Permit 27	Restoration of natural wetland hydrology, vegetation, and function to altered and degraded non-tidal wetlands, and restoration of natural functions of riparian areas on private lands, provided a wetland restoration or creation agreement has been developed	
Regional Permits	Small projects with insignificant environmental impacts	
Individual Permits	Proposed filling or excavation that causes severe impacts but for which no practical alternative exists; may require an environmental assessment under NEPA	

## **Hazardous Waste Regulations**

Resource Conservation Recovery Act

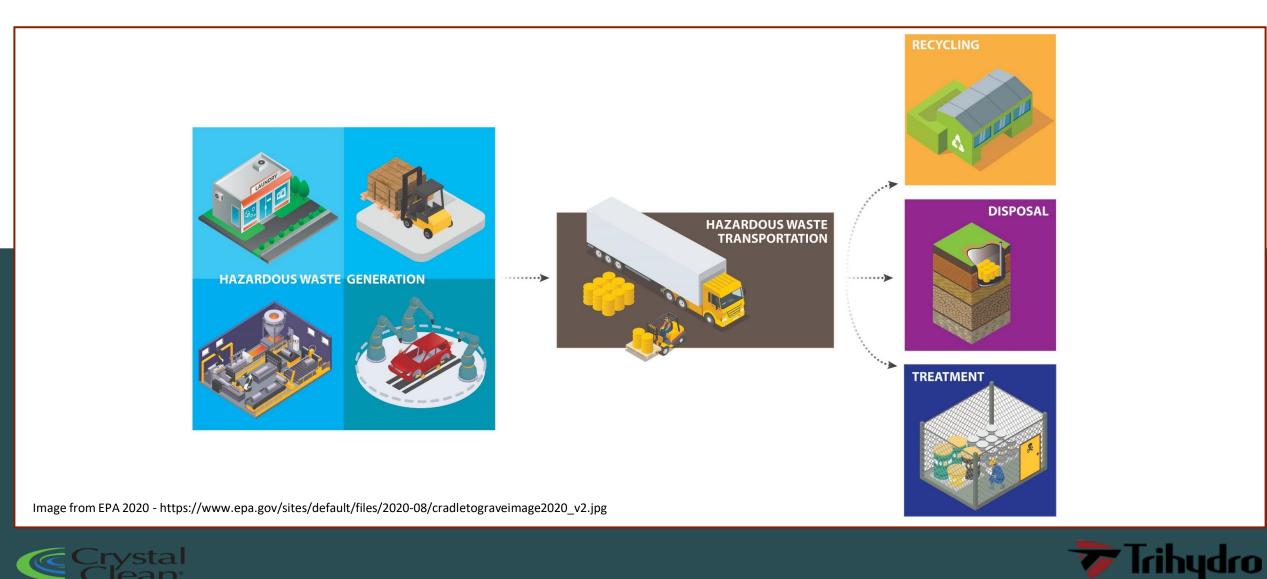
- Generation
- Treatment
- Storage
- Disposal
- Transportation
- Recycling
- Reclamation
- Import/Export





**PERMIT** 

#### "Cradle to Grave"





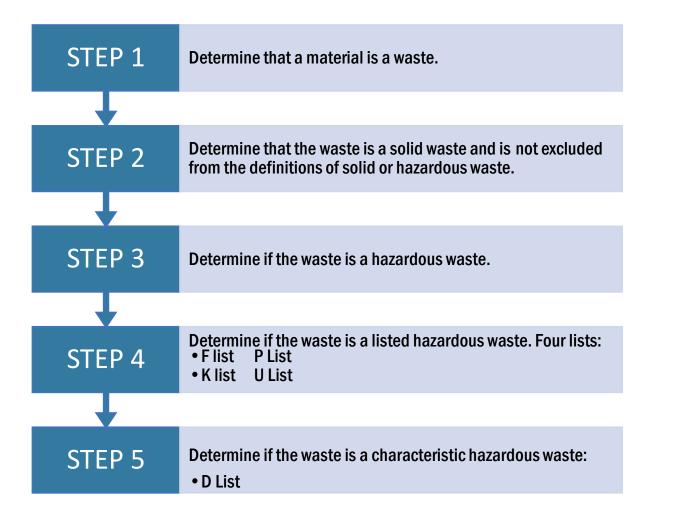
#### Complying with Hazardous Waste Regulations

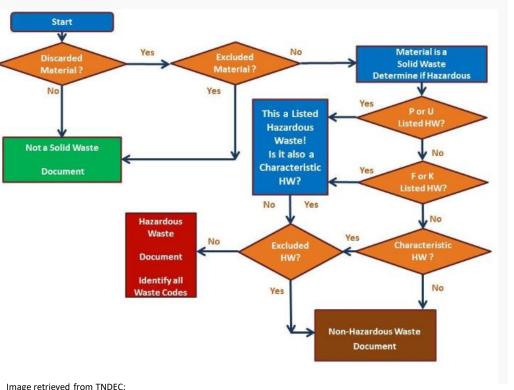






# Complying with HAZARDOUS WASTE REGULATIONS





https://www.tn.gov/environment/program-areas/solid-waste/hazardouswaste-management/hw-determination-matrix/access-flow-chart.html



# Complying with HAZARDOUS WASTE REGULATIONS



Irihydro

# What is Solid Waste?

"Solid Waste" means any garbage or refuse, sludge from a wastewater treatment plant, water supply treatment plant, or air pollution control facility and other discarded material, resulting from industrial, commercial, mining, and agricultural operations, and from community activities.

- Garbage (e.g., milk cartons and coffee grounds)
- Refuse (e.g., metal scrap, wall board, and empty containers)
- Sludges from waste treatment plants, water supply treatment plants, or pollution control facilities (e.g., scrubber slags)
- Industrial wastes (e.g., manufacturing process wastewaters and nonwastewater sludges and solids)
- Other discarded materials, including solid, semisolid, liquid, or contained gaseous materials resulting from industrial, commercial, mining, agricultural, and community activities (e.g., boiler slags).



## Waste That Are Not Solid Wastes

• 25 Categories excluded

#### [40 CFR 261.4(a)(1) - (27)]

- Examples:
  - Domestic Sewage
  - Nuclear Waste
  - Pulping Liquors
  - Spend Sulfuric Acid
  - Excluded Scrap Metal
  - Used Cathode Ray Tubes
  - Solvent-contaminated Rags
  - Material that is remanufactured

Domestic Sewage and Mixtures of Domestic Sewageffff				
Point Source Discharge				
Irrigation Return Flow				
Radioactive Waste				
In-Situ Mining				
Pulping Liquors				
Spent Sulfuric Acid				
Reclamation in Enclosed Tanks				
Spent Wood Preservatives				
Coke By-Product Wastes				
Splash Condenser Dross Residue				
Hazardous Secondary Materials From the Petroleum Refining Industry				
Excluded Scrap Metal				
Shredded Circuit Boards				
Pulping Condensates Derived from Kraft Mill Steam Strippers				
Spent materials generated within the primary mineral processing industry from which minerals, acids, cyanide, water, or other values are recovered by mineral processing or by beneficiation				
Petrochemical recovered oil from an associated organic chemical manufacturing facility				
Spent caustic solutions from petroleum refining liquid treating processes used as a feedstock to produce cresylic or naphthenic acid				
Hazardous secondary materials used to make zinc fertilizers				
Zinc fertilizers made from hazardous wastes, or excluded hazardous secondary materials				
Used cathode ray tubes (CRTs)				
Hazardous secondary material generated and legitimately reclaimed within the United States or its territories and under the control of the generator				
Hazardous secondary material that is generated and then transferred for the purpose of reclamation is not a solid waste				



Hazardous secondary material that is generated and then transferred to another person for the purpose of remanufacturing is not a solid waste

Solvent-contaminated wipes that are sent for cleaning and reuse are not solid wastes from the point of generation



#### Solid Wastes Excluded from Hazardous Waste Regulations

# 17 Categories excluded [40 CFR 261.4(b)(1) - (17)]

- Examples:
  - Household hazardous wastes
  - Agricultural wastes
  - Cement Kiln Dust
  - Used Oil Filters
  - Landfill Leachate



Solid Wastes Which Are Not Hazardous Wastes			
Household Hazardous Waste			
Agricultural Waste			
Mining Overburden			
Fossil Fuel Combustion Waste (Bevill)			
Oil, Gas, and Geothermal Wastes (Bentsen Amendment)			
Trivalent Chromium Wastes			
Mining and Mineral Processing Wastes (Bevill)			
Cement Kiln Dust (Bevill)			
Arsenical-Treated Wood			
Petroleum Contaminated Media & Debris from Underground Storage Tanks			
Injected Groundwater			
Spent Chloroflurocarbon Refrigerants			
Used Oil Filters			
Used Oil Distillation Bottoms			
Landfill Leachate or Gas Condensate Derived from Certain Listed Wastes			
Project XL Pilot Project Exclusions			





#### **Hazardous Waste Generation**

- First link in the hazardous waste management system.
- Generators must determine if their waste is hazardous.
- Must oversee the ultimate fate of the waste.
- Ensure and fully document that the hazardous waste that they produce is properly identified, managed, and treated prior to recycling or disposal.
- Degree of regulation depends on the amount of waste that a generator produces.





#### **Classifying Hazardous Waste**

- Step 1 Determine that a material is a waste.
- Step 2 Determine that the waste is a solid waste and is not excluded from the definitions of solid or hazardous waste.
- Step 3 Determine if the waste is a hazardous waste.
- Step 4 Determine if the waste is a listed hazardous waste.

Four lists:



The F listThe P listThe K listThe U list



#### **The F and K Lists** Non-specific and Specific Sources

• <u>The F list</u> - wastes from certain common industrial and manufacturing processes. [40 CFR §261.31].

*E.g., - Spent solvent wastes (waste codes F001 through F005)* 

• <u>The K list</u> - wastes from 13 different industrial or manufacturing categories on the list. [40 CFR §261.32].

*E.g., wood preservation, organics chemicals manufacturing, inorganic pigment manufacturing, etc.* 







## The P and U Lists

**Discarded Commercial Chemical Products** 

- P acute (205 chemicals)
- U Toxic (411 chemicals)

#### [40 CFR 261.33]

- Commercial Products Pure/Technical Grade
- Formulations Sole Active Ingredient
- "Unused" Not Manufactured Article

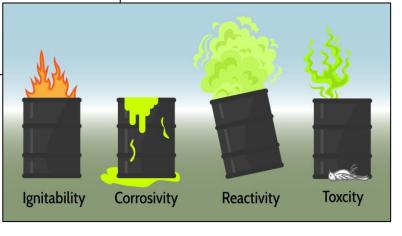
#### **Characteristic Hazardous Wastes** (4 Properties)

#### Ignitable (D001)

- Liquid with Flash Point < 140°F
- Oxidizer
- Ignitable Compressed Gas
- Non-liquid that Causes Fires Through:
  - Friction
  - Moisture Absorption
  - Spontaneous Chemical Changes

#### **Corrosive (D002)**

- Aqueous and has a pH of ≤
  2.0 or ≥ 12.5
- Liquid and Corrodes Steel
  - $\geq \frac{1}{4}$  Inch/Year





#### **Characteristic Hazardous Wastes** (4 Properties) – Cont'd

#### Reactive (D003)

- Normally Unstable
  - Explosives/Shock Sensitive
- Reacts Violently with Water
- Forms Potentially Explosive Mixtures with Water
- Generates Toxic Gases When Mixed with Water
- Reactive Cyanides + Sulfides
- Capable of Detonation if:
  - Subject to Strong Initiating Source
  - Heated Under Confinement
- Defined as Explosive





## Characteristic Hazardous Wastes (Toxic D004 – D043)

- 39 Specific Chemicals
  - Solvent/Organic Chemicals
  - Heavy Metals
  - Pesticides
- Failed TCLP Concentrations Test
  - Simulates Migration of Chemicals in a Landfill that Could Impact Groundwater



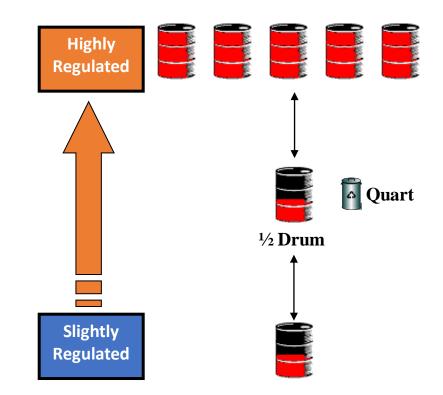




## Hazardous Waste – Generator Types

- Large Quantity Generator (LQG)
  - >2,200 lbs./Month
  - >2.2 lbs./Month Acute Hazardous
- Small Quantity Generator (SQG)
  - 220 lbs. > per Month < 2,200 lbs.
  - 13,200 lbs. Maximum on Site
- Conditionally Exempt SQG (CESQG)
  - < 220 lbs. per Month
  - < 2.2 lbs. Acute Hazardous (P) Waste
  - 2,200 lbs. Maximum on Site

**Episodic Generator (Multiple Status Different Months)** 







#### **Hazardous Waste Generator Requirements**

	LQG	SQG	VSQG
Waste Determination			
DOT Shipping Requirements			
On Site Storage	90 Days	180/270 Days < 13,200 Lbs Max	< 2,200 Lbs
Container/Tank Marking & Labeling			Not Required
Weekly Accumulation Area Inspections			Not Required
EPA ID Number			Optional
Formal Written Training Program		Not Required (Awareness)	Not Required
<b>Contingency Plan</b>		Not Required	Not Required
<b>Bi-Annual Waste Report</b>		Not Required	Not Required





## **Universal Wastes - Regulations**

- Typically Hazardous Wastes
- Relaxed Regulations if Recycled
  - Fluorescent Lamps

#### (Crushing = Treatment H.W.)

- Lead-Acid/Ni-Cad Batteries
- Mercury-Containing Equipment
- Recalled Pesticides
- Dated + Marked
  - "Universal Waste" or "Used" or "Waste" + Type
- Managed Prevent Leaks = Closed Box
- 1 Year Storage
- Training = Handling + Spill Response





## **Universal Oil - Regulations**

#### • Used Oil (Lubrication)

- Refined from Crude/Synthetic
- Used or Contaminated from Use
- < 1,000 ppm Halogens
- No Hazardous Waste Mixtures
- Mark Containers/Tanks "Used Oil"
- Managed In Drums/Tanks
  - No Severe Rust/Structural Defects
  - No Visible Leaks (Lids Closed)
  - No Exposure to Rainwater

#### **Must be Recycled**

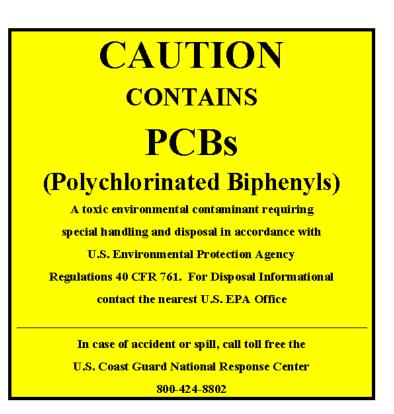






#### Toxic Substances Polychlorinated Biphenyl's (PCBs)

- Manufacture, Processing, Distribution Prohibited
- Marking & Labeling PCB Classes
  - > 500 PPM (PCB)
  - 50 PPM 500 PPM (PCB Contaminated)
  - < 50 PPM (Non-PCB)
- Release Reporting (> 1 Pound)
- Annual Equipment Inventory (> 500 PPM)
- On Site Storage Limit
  - 30 Day Maximum + Label Date of Removal
  - 1 Year 2nd Containment
- Manifest + COD+ EPA ID for Disposal





#### **RCRA State Differences**

#### • Ohio

- LQG Any Month >>>> Must file biennial report
- File report every other year (due in even years)
- Kentucky
  - LQG + SQG + File Annual Generator Report
  - Annual Generator Registration
  - Fee for Waste Streams
- Indiana
  - SQG File Annual Manifest Report
  - LGQ Biennial HW Report and Annual Manifest Report





- Hazardous Waste Generator Improvements Rule
- Universal Wastes Changes
- E-Manifests
- Waste Pharmaceuticals
- PFAS / TENORM





#### **RCRA Hazardous Waste Generator Improvements Rule**

- November 28, 2016, EPA published the long-waited final rule overhauling the hazardous waste generator rules.
- Affected regulations: 40 CFR 257-258, 260-268, 270-271, 273, 279
  - > 60 changes to the regulations
  - Plus ~ 30 technical corrections
- Affected entities:
  - All hazardous waste generators, TSDFs, transporters
- Effective Date May 30, 2017
  - Not effective in authorized states until adopted
  - States must adopt more stringent requirements by July 2018 or 2019





#### **Major Provisions of the Final Rule**

- Reorganization
- Consolidation of CESQG (VSQG) Waste at LQGs
- Episodic Generation
- Ignitable and Reactive Waste Waiver
- Emergency Preparedness and Prevention
- Waste Determination Expectations
- Labeling

- Notifications and Reporting
- Satellite Accumulation Provisions
- Closure Requirements
- Additional Clarifications







Provision	Existing Citation	New Citation
Generator category determination	§ 261.5(c)-(e)	§ 262.13
VSQG provisions	§ 261.5(a), (b), (f)-(g)	§ 262.14
Satellite accumulation area provisions	§ 262.34(c)	§ 262.15
SQG provisions	§ 262.34(d)-(f)	§ 262.16
LQG provisions	§ 262.34(a), (b), (g)-(i), (m)	§ 262.17





# **VSQG Consolidation Option**

- Benefits companies with multiple locations
  - At least one location is LQG
  - At least one location is VSQG
- Allows company to consolidate VSQG wastes at their own LQG facility
  - LQG does not need to be a permitted TSDF
  - Must be under control of the same "person," as defined under RCRA
  - "Control" is the power to direct policies at the facility
- NOT applicable to SQGs
- LQG must notify EPA, keep records of each shipment, manage waste as LQG waste, and include in Biennial Report
- Potential issues when shipping wastes through multiple states





# **Episodic Generation**

- Benefits facilities with occasional temporary surge in hazardous waste generation
- Allows generator to retain existing (VSQG, SQG) category during episodic generation, provided they comply with a streamlined set of requirements
  - Allows one planned episodic event per year
    - But can petition for second (unplanned) event
  - Must notify EPA at least 30 days in advance (or within 72 hours for unplanned episode)
  - Must complete the episodic event within 60 days (all waste shipped offsite)





# **Episodic Generation – contd.**

- <u>VSQG</u> streamlined requirements: comply with SQG waste management provisions and maintain records
  - Obtain EPA ID Number
  - Use hazardous waste manifest and transporter to ship to RCRA TSDF or recycler
  - Manage in a way that minimizes potential for accident or release
  - Label episodic waste containers
    - "Episodic Hazardous Waste"
    - Identify hazards of contents
  - Identify an emergency coordinator at the generator facility
  - Maintain records of episodic event





# **Episodic Generation – contd.**

- <u>SQG</u> requirements:
  - Comply with existing SQG regulations
  - Use hazardous waste manifest and transporter to ship to RCRA TSDF or recycler
  - Label episodic waste containers
    - "Episodic Hazardous Waste"
    - Identify hazards of contents
  - Maintain records of episodic event
- All conditions must be met to retain the episodic generation conditional management benefit





# **Ignitable and Reactive Wastes**

- 50-Foot Waiver
  - Currently ignitable and reactive wastes are prohibited from storage within 50 feet of the property line
  - New allowance: can request site-specific waiver from the local fire authority if unable to meet the 50 foot restriction
    - Written waiver required
    - EPA delegates responsibility for waiver to local fire "authority having jurisdiction" (AHJ)
    - Work with AHJ to determine appropriate site-specific conditions





# **Emergency Preparedness**

- LQG Contingency Plans must have a "<u>quick reference guide</u>" with most critical information
- Contents of "quick reference guide"
  - Types and amounts of hazardous waste
  - Maps of site and surrounding area
  - Location of water supply
  - Identification of notification system (phones, PA, etc.)
  - Emergency contact(s)
- Who must submit
  - Any new LQG with their first Contingency Plan
  - Any existing LQG, at the first revision of the Contingency Plan following effective date of the regulation





# **Emergency Preparedness - contd**

- LQG Contingency Plan Emergency Coordinator information
  - No longer required to include certain personal contact information
  - Where 24/7 Emergency Coordinator is available on-site, may list the position(s) rather than employee names
- Clarifies where and what emergency equipment is required
  - Must address all areas where hazardous waste is generated and/or managed
- May use CBT/electronic training for personnel training
- Document that emergency arrangements have been attempted with local authorities
  - Not required to have something back from local authorities, just document that you attempted to make arrangements
  - Waiver option for facilities with on-site response capabilities





# Waste Determinations

- Must accurately document hazardous waste determinations
  - Applies to SQGs and LQGs
  - Rule now clarifies applies at the point of generation
  - Does not specifically apply to non-hazardous wastes (although recommended as a BMP)
- Using knowledge to determine waste characteristics
  - Lists types of knowledge previously accepted by EPA
  - Specifically allows alternative test as knowledge





# Labeling Requirements

#### Applies to all SQGs, LQGs, Transporters

#### Label must indicate

- The words "Hazardous Waste"
- Identification of hazards NEW
  - Can use any of several established methods to indicate hazards (DOT, OSHA, NFPA, pictogram, RCRA characteristic...)
- All waste codes (prior to shipment) NEW
  - May use recognized electronic option (e.g., bar codes)
  - Exception for lab packs
- Accumulation start date

## For vessels that can't be labeled (some tanks, drip pads, containment buildings, ...)

Info can be in records or logs kept near to location of the vessel



#### SQG required to re-notify every 4 years

- Electronic option available
- First report not due until September 1, 2021

# LQG Biennial Report rules updated to be consistent with current guidance

- LQGs must report all hazardous waste generated in a calendar year, even when it is managed the next year
- LQGs must report for all months in the year, even if SQG for some of those months
- LQGs must report hazardous waste recycled on-site
- Recycling facilities must report wastes that are not stored prior to recycling

# Notification/ Recordkeeping

# **Satellite Accumulation Provisions**

- New section: 40 CFR Specific clarification that hazardous wastes in satellite accumulation cannot be mixed or placed in a container with other incompatible hazardous wastes
- Containers in Satellite Accumulation Areas (SAA) are allowed to remain open under limited circumstances
  - When necessary for safe operations (limited exception)
- Clarifies that the three-day requirement to move containers from satellite accumulation to container accumulation means three calendar days
- For acute hazardous waste, can consider max weight or volume
- Marking and labeling consistent with central accumulation areas





## Closure

Closure of generator accumulation units must meet closure performance standards (i.e. "clean close")

- Existing requirement <u>extended to container accumulation</u> <u>units</u>
- Can defer (with appropriate notice) until full facility closure

#### Closure requirements for LQG Container Accumulation Areas that cannot clean close

- Must close as landfill
- Place notice in operating record within 30 days after closing a unit within a facility that cannot meet closure performance standards (OR meet closure performance standards and then notify EPA)
- Notify EPA or authorized state no later than 30 days prior to closing a facility
- Notify EPA within 90 days after closure of a facility that cannot clean close



#### **Clarification of generator categories**

- Only one generator category can apply in any given month
- Clarification on generator categories for mixtures of acute and non-acute hazardous wastes
- Clarification of generator categories for mixtures of hazardous/non-hazardous wastes

Clarification of tank emptying/turnover within 90 or 180 days

Generator rules now include the long-standing prohibition on landfilling of liquids

Generator status is a monthly determination – not an average

# Other Changes / Clarifications

# Final Rule published in the Federal Register on November 28, 2016

- Effective date 6 months after final rule: <u>May 30, 2017</u> only for states (IA & AK) and territories without RCRA authorization
- Authorized states and territories must adopt all provisions more stringent than current state regulations
  - 1-year implementation schedule (July 1, 2018), or
  - 2-year implementation if statutory change required (July 1,2019)

#### State Implementation

- Ohio Effective October 5, 2020
- Indiana Incorporated (effective 12/26/19)
- Kentucky Incorporated (effective 12/7/17)

# Status and Implementation

### Implications of the Final Rule

So many changes = numerous points of compliance risk

#### Easy enforcement targets

- SQG quadrennial re-notifications
- Waste determination documentation
- LQG Contingency Plans Quick Response Guide

## Expect increasing disparity between state programs

- Generators be aware of state-specific requirements
- For interstate transport, be aware of state-to-state differences



# **Summary of Impacts by Generator Category**

New Provision	VSQG	SQG	LQG
LQG/VSQG consolidation of wastes	X		Х
Episodic generation	X	X	
50-foot waiver			Х
Marking and labeling		X	Х
Marking RCRA waste codes		X	Х
SQG re-notification		X	
Contingency Plan Quick Reference Guide			X
<b>Closure Notification</b>			Х
Closure as landfill if can't clean close			Х





Update training • VSQG vs. CESQG materials or • Regulatory citations plans if needed: • Ensure waste labels include the hazards of the WHAT DO material Labeling Ensure waste labels include all RCRA waste codes prior to sending offsite **YOU NEED** • Include Quick Reference Guide when plan is **TO DO?** updated Hazardous Waste • Ensure you have documentation proving you **Contingency Plan** attempted to make arrangements with local authorities · Review hazardous waste generator notification, SGQ notification update if needed and re-notify every 4 years





# **E-Manifests**

EPA launched e-Manifest system on June 30, 2018

National electronic manifest tracking system

Receiving charged fees to cover cost to develop/operate

- \$25 Mailed in paper manifest
- \$20 Scanned image upload
- \$14 Manifest data plus image upload
- \$8 Electronic manifest (fully electronic & hybrid)

Generators need to register for e-Manifest if they wish to sign manifests electronically, view records or submit corrections





# **Top Waste Violations**

- 1. Waste Identification
- 2. Inspections
- 3. Emergency Preparedness and Contingency Planning
- 4. Permitting
- 5. Container Management incompatibles and open container
- 6. Container Marking, Labeling, and Dating
- 7. Personnel Training
- 8. Universal Waste Management
- 9. Transporter Requirements



# Questions???





#### Anita Decina

VP of Operational Safety & Environmental Excellence Heritage-Crystal Clean, LLC

#### Rajib Sinha, PE

Senior Engineer/Regional Initiatives Manager Trihydro Corporation Cincinnati, Ohio



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Trihydro adopted the "Code of the West" in 2005 as our corporate code of conduct, and we use it to guide our business each day.

- 1. Live Each Day With Courage
- 2. Take Pride in Your Work
- 3. Always Finish What You Start
- 4. Do What Has To Be Done
- 5. Be Tough, But Fair

- 6. When You Make A Promise, Keep It
- 7. Ride For The Brand
- 8. Talk Less And Say More
- 9. Remember That Some Things Aren't For Sale

Trihydro

- 10. Know Where To Draw The Line
- 11. Leave It Better Than You Found It\*