

WMACSA – Construction Wastes – Regulated???



Washington Metro Area Construction Assoc.

AHMP – National Capital Chapter

AHMP – Cyber Chapter



Talk Topic

Construction Waste-Regulated or What?

Talk Theme

You did not know...

What you need to know...

Top 10 things... about Construction Waste...

Introduction

- Susan C. Kenney, CHMM. President
- Bay Associates Environmental, Inc.

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Top 10 things... about Construction Waste...

You did not know...You need to know.

NOTE FINE PRINT: Regulations are condensed. Simplified for entertainment value and time constraints. Always consult actual regulations, Federal and State.

#10. Do I have hazardous waste at my construction site?

Oil-based paint, adhesives, mineral spirits, gasoline, spray cans, degreasers

Complex definition.

- Not necessarily the most toxic stuff.
- Subset of Solid Waste.
(does not have to be solid)
- Characteristic and Listed.



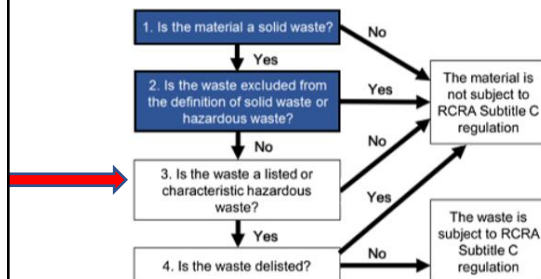
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10# con't



Hazardous Waste definition.

The Hazardous Waste Identification Process



Waste codes are assigned. ... if you cannot assign a code.. (when done properly... It is not a regulated hazardous waste.

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Characteristic

Ignitable – flash point < 140
gasoline, oil paint **D001**

Oxidizers
ammonium nitrate **D001**

Corrosive liquid pH 2 – 12.5
Battery acid, sodium hydroxide **D002**

Reactive – unstable, violently with
H₂O, explosive
metal powders **D003**

Toxicity – specific metals, pesticides,
organics about a specific lab test
(TCLP) **D004-D043**



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Listed

Defined process

Spent solvents, degreasers, acetone, dry cleaning fluid
F001-F005 (most common), K00#

Specifically named in a list.

P### more toxic
 acute wastes, can determine generator size 2.2 lbs

Epinephrine P042
 Nicotine P075
 Sodium azide P105

U### not good, but not as bad
 Benzene **U019**
 Formaldehyde **U122**
 2,4-D **U061 (common pesticide)**



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Question #1 see Bruce...

In which state/district are you *always* a Large/Fully regulated hazardous waste generator if you have onsite a waste oil-based paint that is a 1 x 55 gallon drum weighing at least 221 lbs – (30 x 1 gal (full) containers OR 5 X 5 gal pails)

1. VA
2. MD
3. DC
4. All of the above.

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Question #1 ANSWER –

How much waste you have onsite is important. Determines generator size and things you must do.

In which state/district are you *always* a Large/Fully regulated hazardous waste generator if you have onsite waste oil-based paint (D001) that weighs at least 221 lbs – 30 x 1 gal (full) containers OR 5 X 5 gal pails

1. VA – same as Federal - can accumulate in different months, do not exceed 2,200 lbs
2. **MD**
3. DC - same as Federal - can accumulate in different months, do not exceed 2,200 lbs
4. All of the above.

Need to document accumulation / storage periods in order to convince inspectors.

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Very Small Quantity Generators (VSQG) (Not including acute 2.2 lbs)

- Less than 220 lbs. per month, never more than <2,200 lbs at any time (except MD).
- Identify hazardous wastes
- Ensure delivered to a place authorized to manage it.
 - No EPA ID #
 - No Manifest
 - No plans

Large Quantity Generators (LQGs) (Not including acute 2.2 lbs)

- More than 2,200 lbs. per month
- EPA ID#
- Hazardous Waste manifest
- Plans/training
- Can store only 90 days on-site
- Biennial Report

Small Quantity Generators (SQG).... In between. Only two categories above in MD.

NEW FEDERAL REGULATION!! Episodic generation – “one time event going over current generator size”
States/District must adopt – VA passed, MD no, DC probably no

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#9 Not all Hazardous Materials are Hazardous Wastes.

As recently asked on a Bruce Urban Legend Quiz!!!!

What is the definition of hazardous materials?

When dealing with waste issues, turn to the DOT (Department of Transportation).

- are products or articles or substances that are capable of posing a significant risk to health, safety or property when transported by air, rail, ground, or sea. INCOMING....
- it has a proper shipping Name.
- Look for that on the SDS. If it does.. 80% of the time it is a hazardous waste.



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#9 ~~can't~~ Not all Hazardous Materials are Hazardous Wastes.

Common construction wastes hazardous materials, NOT hazardous wastes.

Asbestos
PCBs state "hazardous waste" in MD,
except PCB lamp ballasts – Universal wastes
Solid corrosives, sodium hydroxide powder.
Batteries... see why later



Common construction wastes NOT hazardous materials, NOT hazardous wastes

Used oil, on the ground, in the dirt
Latex, if dried hard... can put in dumpster
Most concrete/cement wastes..
See upcoming details



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#8 Cement high pH ...burns workers... where can it go...



As a Liquid. Concrete washout..

pH usually under 12.5, certain mixes can be over.

- Too high to sanitary. Check with local sanitary.
- Never to storm, or environmental.
- Can neutralize, citric acid is a solid powder, fairly safe.
- Often contained and left to dry out.
- If must ship offsite,

neutralize and try to ship to nonhaz waste company

As a Solid.. Bags of cement...

pH 12-13 (in water) ,

- Usually not a DOT material. Does not corrode steel/ vehicles fast.
- Not a Hazardous Material or Waste. BUT has the corrosive GHS

symbol...

Concrete debris.

- Can go in regular dumpster.
- In bulk... cheaper to send a load of concrete



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#7 Corrosives, solvents. Make sure pumps compatible. AND seals....



Significant Sodium Hydroxide spill.

Rented transfer pump, seal leaked.

3 Env. Companies responded



SUBTOTAL	\$ 41,886.74
SALES TAX	
SHIPPING & HANDLING	
TOTAL DUE	\$ 41,886.74

FIN #00-0000000

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Questions #2 see Bruce...

QUESTIONS #2

Do you have to pay a regulatory agency to store used oil in MD, VA, or DC?

1. Yes in MD and VA because they are states.
2. Yes in DC because everything costs more in DC and other reasons!
3. None of the above – because that would be too overwhelming to regulate.
4. Both 1 and 2.

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Continued...

#6 Double double Oil in trouble in DC.

(And some other states)

ANSWER

Do you have to pay a regulatory agency to store used oil in MD, VA, or DC?

1. Yes in MD and VA because they are states.
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#6 CONT. Double double Oil in trouble in DC.



Called Used Oil when it is a Waste.

And in DC...

- Need an EPA ID # when stored onsite
- cost between \$100-\$1000 per year
- but NOT a Hazardous Waste
- Needs to be in secondary containment
- Cannot have open drums or containers



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#5 Only clean soil is soil with no analysis.....

Common soil contaminants not Hazardous wastes.

-Petroleum – Oil, Diesel, Gasoline

-may all be able go to nonhaz disposal outlets. \$\$

-Metals – Lead, chromium, arsenic

-clean fill sites May take. \$

-if not usually cheaper if have petroleum \$\$

- Subtitle D landfills \$\$\$

-sometimes use a cover \$\$\$.5



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#4 Most common violations for Hazardous Waste

OR...More reasons why you don't want to have Hazardous Wastes.



- Open containers of waste
- Missing Hazardous Waste Manifests - keep 3 years.
- Improper labeling of hazardous waste
- Failure to perform Hazardous Waste Determinations
 - Identify properties / characteristics of waste.
- Improper management of expired chemicals.. Tough to say not a waste...
- Lack of proper Hazardous Waste Storage Area Inspections
- Lack of a Contingency Plan..written
- Inadequate or lack of Employee training



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QUESTION #3 (refer to Bruce)

QUESTION #3

Which type of battery is OK to toss in the dumpster?

1. Broken, cracked truck/car/equipment (lead acid) battery – it is broken so throw out.
2. Hand-held tool batteries (lithium/NiCd, NiMh) – they are for tools...
3. Alkaline AAA, AA,C, D etc.
4. Take them home and throw them out there....

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#3 Who threw those batteries in the dumpster???

QUESTION #3 Answer

Which type of battery is OK to toss in the dumpster?

1. Broken, cracked truck/car/equipment (lead acid) battery – it is broken so throw out.
➡ A Hazardous Waste, Not broken – not a Universal Waste.
2. Hand-held tool batteries (lithium/NiCd, NiMh) – they are for tools...
➡ Universal Wastes, if not, some would be hazardous wastes.
3. Alkaline AAA, AA, C, D etc.
➡ Not regulated and not easy/cost effective to recycle
4. Take them home and throw them out there...
➡ Nooooo but residents are not regulated can throw out anything. Trashman may reject, not encouraged.

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#2 Who threw those light tubes dumpster???

LEDs yes you can

Fluorescent, HIDs, mercury containing... no you can't.

- Universal Wastes... if you manage properly do not have to handle as hazardous waste.
- Send to a Universal waste facility
- Properly contained in boxes/drums
- LABEL LABEL LABEL
- DATE DATE DATE
- One year to store



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#1 Who threw those spray cans in the dumpster. ??

Currently a hazardous waste in MD DC and VA.

Federal has passed regulation (Feb. 2020) if managed properly handle as a Universal Waste. States/District need to adopt. Pennsylvania has adopted.

Same conditions as Universal lamps in previous slide



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In conclusion – construction sites are busy. They use common materials all the time. There is not always enough thought about throwing out those products.

And stuff simply happens....

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