

Chemical Industry Safety and Compliance Workshops



SD Department of Agriculture & Natural Resources
“Waste Management Program” Overview

Waste Management Program

Areas of Emphasis

- **Hazardous Waste**
 - Tony Wagner, 605-773-3153
- **Solid Waste**
 - Steven Kropp and Nick Burke, 605-773-3153
- **Asbestos**
 - Aurora Krom, 605-910-4512
- **Recycling**
 - Nick Emme, 605-773-3153
- **Container Recycling & Waste Pesticide Collection**
 - Charles “Spike” King, 605-773-5356 or 605-280-4964

SDDANR

Division of Agriculture & Environmental Services Waste Management Program – Hazardous Waste Section

- Regulates the generation, treatment, storage, and disposal of hazardous wastes: *Cradle-to-Grave responsibility*
- Entities subject to hazardous waste regulations:
 - Commercial businesses;
 - Hazardous waste transporters;
 - Facilities that treat, store or dispose of hazardous waste generated themselves or by other businesses (permitted TSDFs).
 - Household (residential) hazardous waste is exempt from regulation.



SDDANR Waste Management Program

Hazardous Waste Section

- State Regulations: Administrative Rules of South Dakota (ARSD) Chapter 74:28 <https://sdlegislature.gov/Rules/Administrative/27552>
 - SD adopts the federal hazardous waste regulations by reference (40 CFR Parts 260 through 279)
 - 40 CFR 260 through 265:
https://www.ecfr.gov/cgi-bin/text-idx?SID=941ed272f177590131de87ab4b36ae02&pitd=20180701&tpl=/ecfrbrowse/Title40/40cfrv28_02.tpl#0
 - 40 CFR 266 through 279:
https://www.ecfr.gov/cgi-bin/text-idx?SID=941ed272f177590131de87ab4b36ae02&pitd=20180701&tpl=/ecfrbrowse/Title40/40cfrv29_02.tpl#0
- What is a Hazardous Waste?
 - Material intended for disposal (a “solid waste”).
 - HW Exemptions, Listings, & Characteristic Criteria: ARSD 74:28:22:01 / 40 CFR 261
- Common Hazardous Wastes Generated in South Dakota:
 - Characteristic Wastes – ignitable, corrosive, reactive, toxic.
 - Toxic wastes include many containing heavy metals – lead, mercury, arsenic, cadmium, silver, etc.
 - Listed Wastes:
 - F listed- Wastes which meet the criteria in 40 CFR 261.31 from non-specific sources – xylene, acetone, ethyl acetate, MEK, toluene, etc.
 - U listed – Commercial chemical products, chemical intermediates, off-spec products – acetic acid, acetone, butanol, 2,4-D, Methanol etc.
 - P listed - Commercial chemical products, chemical intermediates, off-spec products, considered acute hazardous waste – nicotine, warfarin, sodium azide, etc.

SDDANR Waste Management Program

Hazardous Waste Section

Three hazardous waste generator categories:

- Very Small Quantity Generators (VSQGs) generate less than 220 lbs. of toxic HW *and* less than 2.2 lbs. acute HW/calendar month. (*~1740 in SD*)
- Small Quantity Generators (SQGs) generate between 220 lbs. and 2200 lbs. of toxic *and* less than 2.2 lbs. of acute HW/calendar month. (*~175 in SD*)
- Large Quantity Generators (LQGs) generate more than 2200 lbs. toxic *and/or* more than 2.2 lbs. acute HW/calendar month. (*~39 in SD*)
- Episodic Generation – allows generators to generate hazardous waste in excess of their generator category without triggering increased regulations as long as certain conditions are met.
 - One planned event per calendar year – clean out of excess, damaged, or expired products.
 - One unplanned event per calendar year – Seen most often during spill clean-up, fires, or transportation accidents.

SDDANR Waste Management Program

Hazardous Waste Section

- Specific HW Rules:
 - HW Identification (ARSD 74:28:22:01)
 - HW Generator Requirements (ARSD 74:28:23:01)
 - Permitted TSDFs (ARSD 74:28:25:01)
 - Subpart P Healthcare Facilities – Pharmaceutical Wastes (ARSD 74:28:27:01)
 - Used Oil generation, transportation, marketing, burning (ARSD 74:28:27:01)
- HW Section Website: <https://danr.sd.gov/Environment/WasteManagement/HazardousWaste/default.aspx>
 - HW Notification Form: https://www.epa.gov/sites/production/files/2021-04/documents/excerpt_site_id_rcra_subtitlec_forms_and_instructions_expires_4_30_2024.pdf

- HW Section Contacts:

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Solid Waste (SW) Section

- Specific SW Rules:
 - Administrative Rules of South Dakota (ARSD) 74:27
 - South Dakota Codified Law (SDCL) 34A-6
- SW Section Website: <https://danr.sd.gov/Environment/WasteManagement/SolidWaste/default.aspx>
- SW Section permits and inspects approximately 240 solid waste facilities across the state.
- SW Section Contacts:

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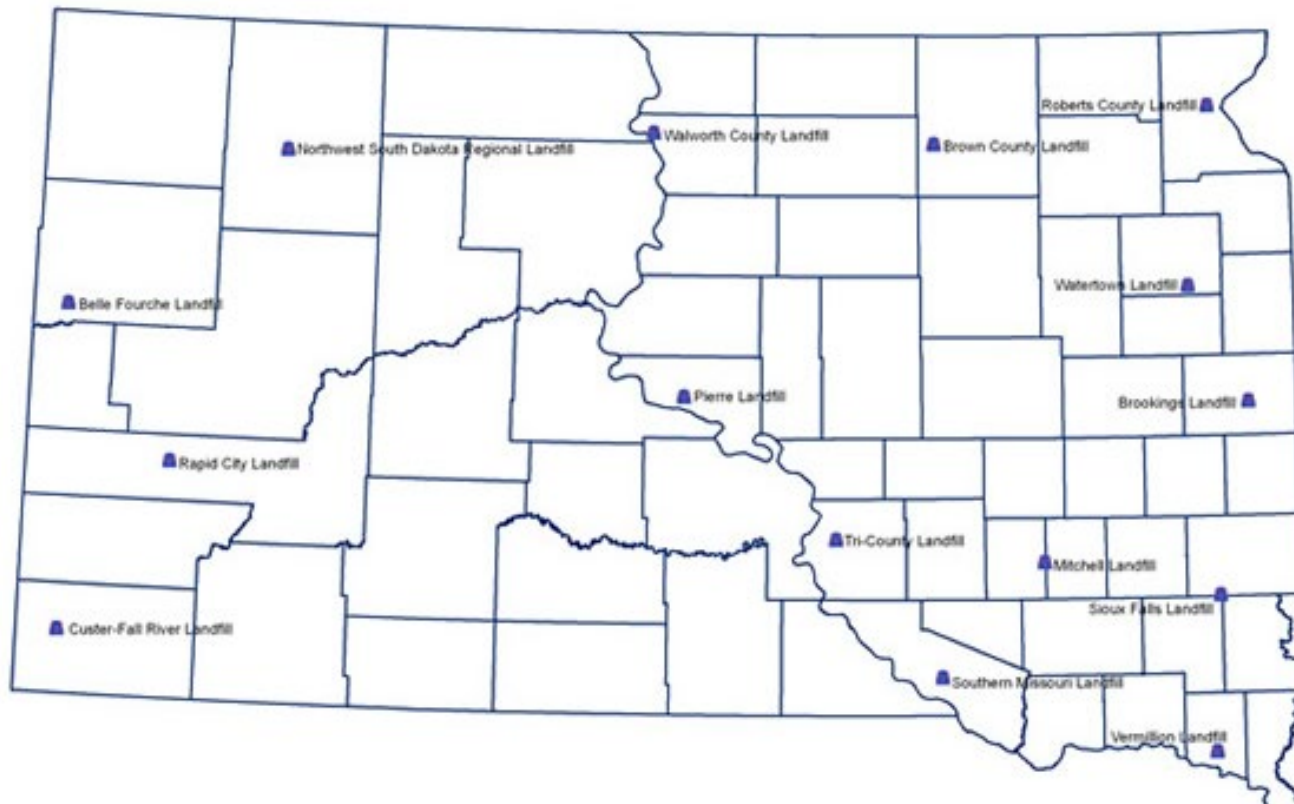
Solid Waste – What is it?

Broad definition in state law: SDCL 34A-6-1.3

"Solid waste," any garbage, refuse, sludge from a waste treatment plant, water supply treatment plant, or air pollution control facility and other discarded materials, including solid, liquid, semisolid, or contained gaseous material resulting from industrial, commercial, and agricultural operations, and from community activities, but does not include mining waste in connection with a mine permitted under Title 45, hazardous waste as defined under chapter 34A-11, solid or dissolved materials in domestic sewage or dissolved materials in irrigation return flows or industrial discharges which are point sources subject to permits under section 402 of the Federal Water Pollution Control Act, as amended to January 1, 2011, or source, special nuclear or by-product material as defined by the Atomic Energy Act of 1954, as amended to January 1, 2011;

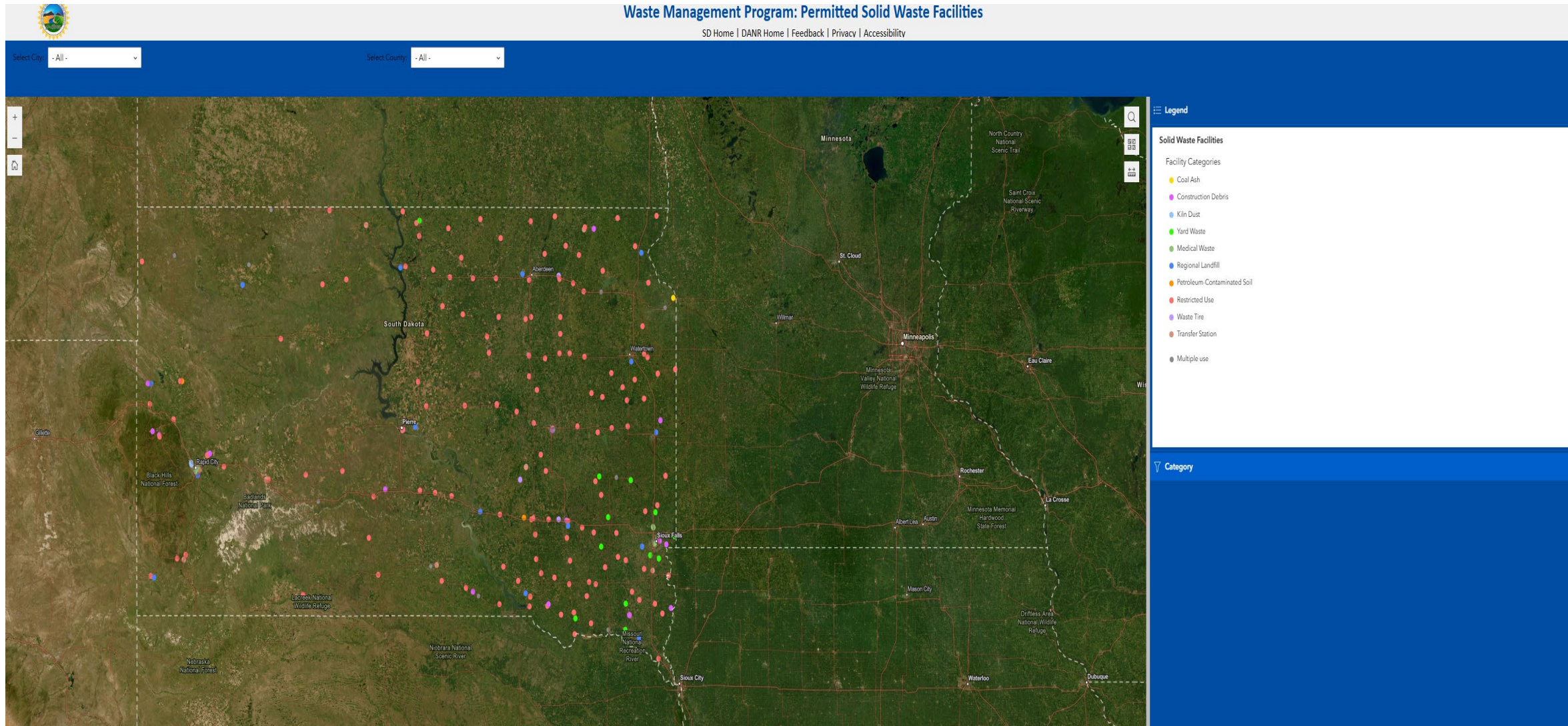
Solid Waste – Regional Landfills

<https://danr.sd.gov/Environment/WasteManagement/SolidWaste/Landfills.aspx>



All Permitted Facilities -

<https://experience.arcgis.com/experience/bd93e05a265c449d99a571e1d19c82d4>



Solid Waste – Land Application of Solid Waste

<https://danr.sd.gov/Environment/WasteManagement/SolidWaste/Permitting.aspx>

GENERAL PERMIT TO STORE AND/OR LAND APPLY SOLID WASTE (GPLA 23-03)

Applicability of General Permit

This general permit is potentially applicable to any operator in the State of South Dakota proposing to store and/or land apply solid waste that has nutrient value, provided the operator meets the requirements of this general permit. This general permit is only applicable to the temporary storage and/or land application of less than 25,000 tons of solid waste per year.

This general permit is not intended for the handling or disposal of wastes for which other practicable alternatives are available. Wastes land applied under this general permit must have nutrient value for soil or plant growth and shall not have a detrimental effect on soil.

SDDANR

Division of Agriculture & Environmental Services Waste Management Program – Asbestos Section

<https://danr.sd.gov/Environment/WasteManagement/Asbestos/default.aspx>

Asbestos Rules

- ARSD 74:36:08:02
 - Adopts by reference NESAHP 40 Code of Federal Regulation, Part 61, Subpart M
- Standards for Asbestos Emissions from Demolition & Renovation Projects & For Asbestos Waste Handling and Disposal

Asbestos Certifications

- State ARSD Article 74:31; SDCL Chapter 34-44
- Requires Asbestos Certification for Contractors
 - Inspectors, Management Planners, Designers, and Abatement Workers
- Requirements for Asbestos Training Courses

Asbestos – Where is it found?

- Pipe insulation
- Duct Insulation
- Duct joint wrap
- Boiler insulation
- Fireproofing materials
- Ceiling tiles
- Linoleum paper backing
- Popcorn ceilings
- Acoustical texture
- Transite boards
- Joint compound
- Plaster
- Asphalt roofing
- Asbestos-cement pipe
- Caulk and putty
- Roofing felts, tar, flashings
- Electric wire insulation
- Gaskets, packings
- Commercial/Specialty paper
- Paint
- Floor tiles & mastic
- Fire doors
- Fire Blankets
- Filters for industry
- Brake pads/clutch facings

Requirements for Renovation & Demolition Projects

Inspection

- Thoroughly inspect all areas affected by renovation/demolition

Notification

- Demo Projects
- Renovations >160LF/260SQFT RACM

Emission Control Waste Disposal



Asbestos Inspections

- Asbestos inspections must be performed by a DANR certified asbestos inspector.
- Samples of materials must also be collected by a certified asbestos inspector.
- Institutional, commercial, public, and industrial structures, installations, and buildings are regulated.
- Residential buildings, including condominiums or individual dwelling units operated as residential cooperatives, with more than four dwelling units are regulated.
- Typically, single family residential structures are exempt.



NOTIFICATION OF DEMOLITION AND RENOVATION					
South Dakota					
Department of Agriculture and Natural Resources					
Type of Project		<input type="checkbox"/> Demolition		<input type="checkbox"/> Renovation	
				<input type="checkbox"/> Both	
Type of Notification		<input type="checkbox"/> Original		<input type="checkbox"/> Revised	
		<input type="checkbox"/> Courtesy		<input type="checkbox"/> Annual	
				<input type="checkbox"/> Cancellation Notice	
Facility Owner	Owner Name:		Building Name:		
	Address:		Address:		
	City: State: Zip:		City: State: County: Age:		
	Contact: Phone Number:		Building Size: Num. of Floors: Present Use: Prior Use:		
Asbestos Contractor	Contractor Name:		Contractor Name:		
	Address:		Address:		
	City: State: Zip:		City: State: Zip:		
	Contact: Phone Number:		Contact: Phone Number:		
Asbestos Transporter	Transporter Name:		Disposal Site:		
	Address:		Address:		
	City: State: Zip:		City: State: Zip:		
	Contact: Phone Number:		Contact: Phone Number:		
Asbestos Disposal Site	Landfill Name:		Description of Work Practices to be Used: Include engineering controls to be used to prevent visible emissions.		
	Address:				
	City: State: Zip:				
	Contact: Phone Number:				
Scheduled Dates of Asbestos Removal: MM/DD/YY			Scheduled Dates of Demolition: MM/DD/YY		
Start: End:			Start: End:		
Regulated Asbestos-Containing Material to be Removed:			NonFriable Asbestos-Containing Material:		
Linear Feet: Square Feet:			To Be Removed:		To be Left in Place:
Cubic Feet:			Linear Feet:		Linear Feet:
Inspected By:			Square Feet:		Square Feet:
			Category I <input type="checkbox"/> or		Category I <input type="checkbox"/> or
			Category II <input type="checkbox"/> ?		Category II <input type="checkbox"/> ?
Procedure(s) for Unexpected ACM:					
IN THE EVENT THAT A BUILDING IS ORDERED DEMOLISHED BY A GOVERNMENT AGENCY, OR EMERGENCY RENOVATIONS ARE NECESSARY, CONTACT THE ASBESTOS COORDINATOR AT 1-605-773-3153.					
BY SIGNING THIS NOTIFICATION I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISIONS OF THIS REGULATION (40 CFR, PART 61, SUBPART M) WILL BE ON-SITE DURING ANY ASBESTOS ABATEMENT ACTIVITIES.					
I CERTIFY THAT THE ABOVE INFORMATION IS CORRECT, AND I AM A BONA FIDE REPRESENTATIVE OF THE ABATEMENT CONTRACTOR OR BUILDING OWNER AND HAVE AUTHORITY TO ENTER INTO AGREEMENTS FOR MY EMPLOYER:					
PRINTED NAME OF OWNER/OPERATOR		SIGNATURE OF OWNER/OPERATOR		DATE	
For DANR use only:					
ID #:		Approval Signature:		Date:	

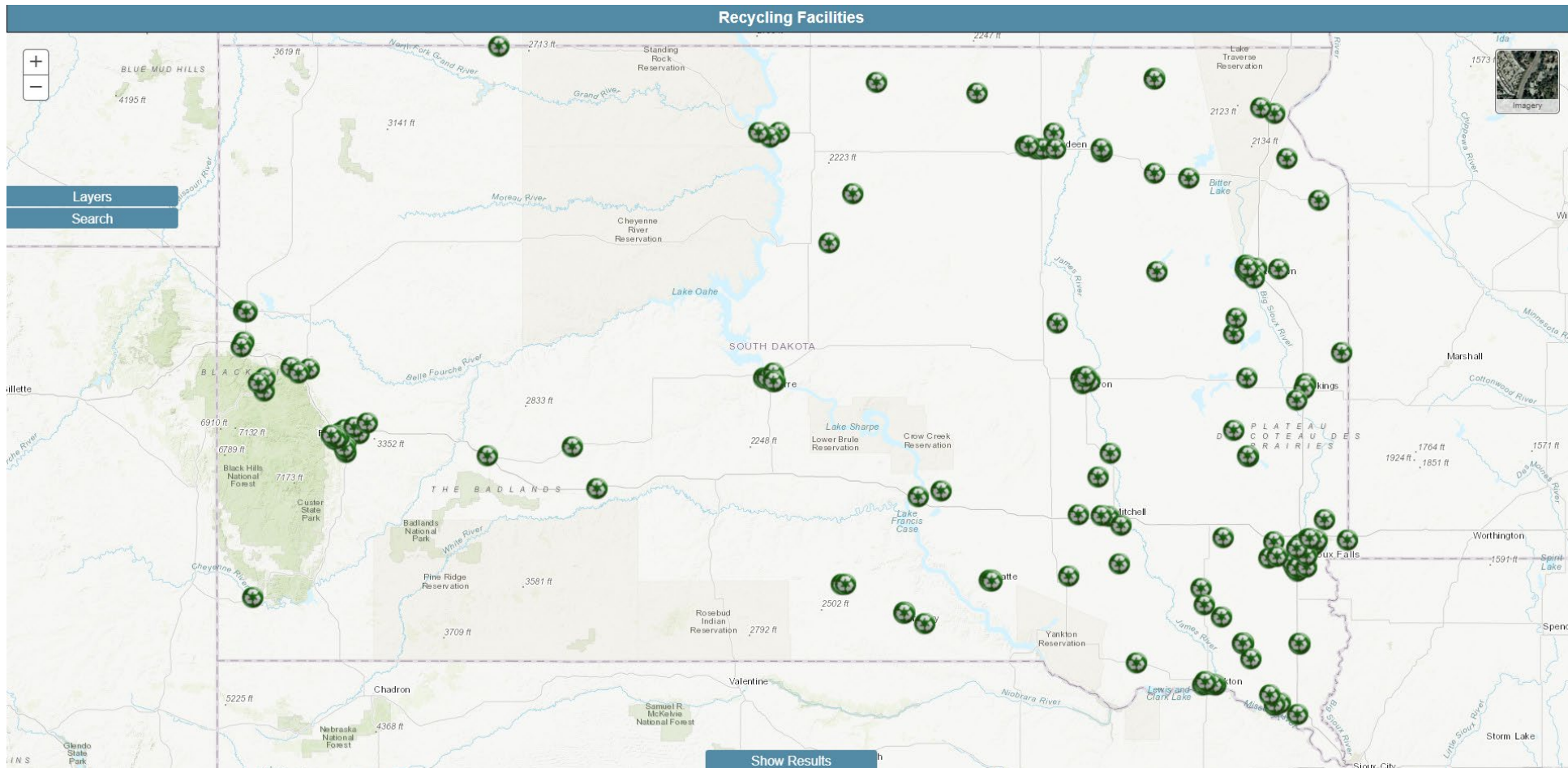
ACM Removal/Renovation

- All asbestos-containing material (ACM) that would be disturbed as part of a renovation or demolition must be properly removed before impacting the material.
 - Nonfriable ACM may remain in place during demolition provided the materials are not in poor condition and the probability is low they will become crumbled, pulverized, or reduced to powder.
- The individuals removing regulated asbestos-containing material (RACM) must be certified and licensed through DANR.



Recycling - Recycling Facility Map

<https://apps.sd.gov/nr57recycling/>



Container Recycling and Waste Pesticide Collection Section

- ▶ Pesticide containers accepted for recycling must meet certain requirements:
 - ▶ Be triple-rinsed or equivalent
 - ▶ Consist of high-density polyethylene (HDPE) plastic - 55 gallons or less
 - ▶ Contain no visible pesticide residue inside or outside the containers
 - ▶ Contain no more than 0.5 fluid ounces of clear water
 - ▶ Be delivered with no lids and paper labels removed
- ▶ 2025 Collection Schedule:
- ▶ <https://danr.sd.gov/Environment/WasteManagement/WastePesticide/docs/2025collections.pdf>
- ▶ Eligible containers can also be brought to:

*DANR Bait Station/Recycling Facility	*Missouri Valley Recycling Center
4075 Airport Road	840 North Crawford Road
Pierre, SD 57501	Vermillion, SD 57069

***MUST CALL AHEAD!**

Container Recycling and Waste Pesticide Collection Section

- ▶ Waste pesticides are accepted by DANR for disposal
- ▶ Any pesticide formulation can be considered waste if
 - ▶ The label uses have been canceled
 - ▶ The product is no longer in usable condition such as dry products that have caked or liquids that have settled and can't be remixed
 - ▶ The product is unidentifiable, or the label is missing which makes proper use impossible
- ▶ Waste Pesticide Registration Form:
<https://danr.sd.gov/Environment/WasteManagement/WastePesticide/docs/PreRegistrationForm-Waste%20Pesticide%20Disposal%20program.pdf>



Thanks for participating!!
Questions?

