

Evaluating NMP Implementation in the Field

Scheduling & Conducting Inspections Outcomes Lessons Learned



Raise Your Hand if...

• You're interested in successful NMP Implementation...

Your agency conducts field evaluations of NMPs...

• You've been part of those evaluations...

Scheduling Inspections

Announced & Unannounced Inspections

 Before, During, & After Manure Application

Site Selection or Complaint Response

Office Prep

Pro Tip

Farm/Agency Contact Info

A ALALA AL

Battery pack

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Conducting Inspections

- Alone or Accompanied
- Documenting Observations
- Weather Considerations
- Wrap up Discussion



Report Form

State of Wisconsin

Department of Natural Resources PO Box 7921, Madison WI 53707-792 dnr.wi.gov	1	Inspectio Form 3400-21		Page 1 of 2
Inspection purpose: O Complain O Other:	t O Audit (Announced) O Au	udit (Unannounced) 🔵 Spil	ll / Runoff	
Inspection Date:	Application Date:	Permittee Name:		
Field Location:	Field ID:	Applicator Name:		
Application Rate:	Previous/current crop:	DNR Inspector Name(s):		
Weather conditions:		Soil conditions:		•
Equipment Used: Tracto Any manure runoff (left field bounda If yes, check resource(s) impacted Notes:	aries)? O Yes O No	tor/Hose Other:	l Groundwate	er 🗌 None
 100 feet from private wells (1000 100 feet from other groundwater of 25 feet from wetlands 25 feet to surface waters/conduits 100 feet setback to surface waters No manure spread in grassed waters No excessive ponding or runoff we Depth to groundwater greater that 	to surface waters (incorporated or i s/conduits to surface waters (surface terways (non-conduits to surface wa ithin field boundaries n 24 inches (if checked, need to dig inches (if checked, need to dig hole	ble) Yes Yes Yes injected) Yes e applied) Yes tters) Yes Yes hole) Yes Yes Yes Yes Yes Yes	Requireme No	 N/A N/A N/A N/A N/A N/A N/A N/A N/A Not Verified Not Verified Not Verified
Notes:				

DNR CAFO Land Application Site

Pro Tips

Clip board

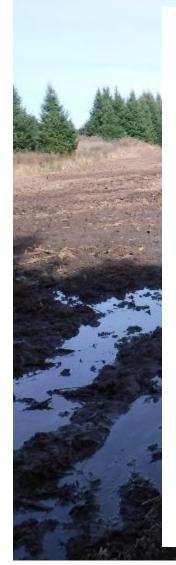
Business cards

ALAL ALA

Agency ID or credentials

Scheduling email copy

Wear Hi-Vis safety vest

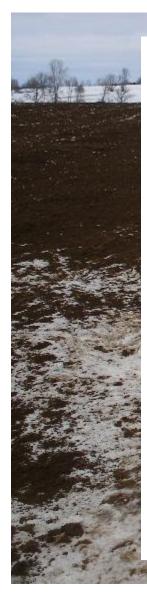


- 84 total audits
 - 37 announced
 - 8 (22%) resulted in enforcement
 - 23 complaint
 - 8 (35%) resulted in enforcement
 - 4 spill response
 - 4 (100%) resulted in enforcement
 - 20 unannounced
 - 3 (15%) resulted in enforcement
- Complaints had the highest enforcement



- 19 of 84 resulted in a NON (23%)
- 4 of 84 resulted in a NOV (5%)
- Enforcement Cases:
 - 9 of 23 had manure leave field boundary
 - 20 of 23 had setback issues
 - 1 of 23 had manure discharge via tile
 - 6 of 23 had tillage or erosion issues





- Setbacks
 - 100 feet to Private Well
 - Observed 47 times
 - Violated 4 times (9%)
 - 100 feet to GW Conduits
 - Observed 13 times
 - Violated 2 times (15%)
 - 25 feet to wetlands
 - Observed 29 times
 - Violated 6 times (21%)
 - 25 feet to SW (inc./inj.)
 - Observed 32 times
 - Violated 7 times (22%)





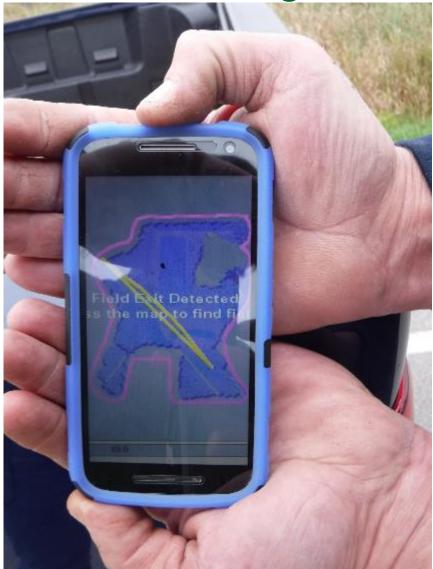
- Setbacks
 - 100 feet to SW (surface)
 - Observed 22 times
 - Violated 7 times (32%)
 - Manure in Waterway
 - Observed 32 times
 - Violated 7 times (22%)
 - Ponding/Runoff in field
 - Observed 78 times
 - Violated 17 times (22%)
 - Depth to GW
 - Observed 16 times
 - Violated 3 times (19%)



- Setbacks
 - Depth to bedrock
 - Observed 4 times
 - Violated 0 times (0%)
 - Features on maps
 - Observed 68 times
 - Violated 18 times (26%)

2017 Outcome Summary

- Application rate was a factor in compliance
 - Non-compliance and rate had a direct relationship
- Application method was a factor in compliance
 - More than half of dragline or hose applications had setback violations
 - Dragline Equip had issues w/ turnaround areas
- Low disturbance equip couldn't manage normal application rates



Comments & Questions?

And an and an

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WISCONSIN DEPT. OF NATURAL RESOURCES



Bonus!

 Why is it harder to meet manure application restrictions with dragline equipment?



