

#### Biosolids Regulatory Amendments: VPA and VPDES

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#### **Existing Permit Requirements**

- VPA & VPDES Permits remain in effect as written until modified
- VDH-BUR Permits follow the amended regulations immediately
- For land included in a VPA Permit and a BUR – the VPA Permit must be followed.

#### Amendments: Biosolids Regulations Effective Immediately: VPA, VPDES, BUR

- Extended Setbacks:
  - A doctor's note is required for DEQ to grant an extended setback to a citizen
  - If permittee makes a voluntary agreement with citizen, provide a copy of agreement to DEQ

#### Amendments: Biosolids Regulations Effective Immediately: VPA, VPDES, BUR

- Extended Setbacks cont.:
  - Use DEQ form letter
  - DEQ must receive at least 48 hrs before land application commences on that field.
  - DEQ will notify permittee at least 24 hrs before land application commences on that field.

#### Amendments: Biosolids Regulations Effective Immediately: VPA, VPDES, BUR

- Use new Permit Application Forms
- Landowner Agreements
  - Must use Form D Part D-VI Rev 9/14/12
    - Permit application new or reissuance
    - Modification to add land
    - Change of land ownership

- Certified Land Applier will maintain a log book
  - Location
  - Arrival & Departure Times
  - Name of Any Visitor to Site
  - Complaints Received
  - Unusual Conditions

- Certified Land Applicators
  - Must be on site at all times.
  - Amendments clarified: If while onsite it becomes necessary to leave the site, the certified land applicator must be able to return within 30 minutes.

- Financial Assurance
  - Increased to \$2 mil
  - New Forms
  - For BUR: Submit demonstration of financial responsibility by November 30, 2013

- Sources of Biosolids
  - Only "Approved Sources" may be Land Applied
  - Sources will be identified in the Biosolids Management Plan

- NMP
  - Must be on site
  - Submit to DCR (<u>Central Office</u>), Farmer & Locality within 30 days after commencing land application
  - DEQ may receive a copy upon request
  - For sites where soil P levels are high, NMP must be approved by DCR prior to application

#### 9VAC25-32-410 Table 1: Soil Phosphorus Levels Requiring NMP Approval

	SOIL TEST P (ppm)	
	(Mehlich I - VPI & SU	
REGION	Test)*	
Eastern Shore and Lower	135	
Coastal Plain	133	
Middle and Upper Coastal	136	
Plain and Piedmont		
Ridge and Valley	162	

<sup>\*</sup>If results are from another laboratory, DCR approved conversion factors must be used.

- Odor Control Plans:
  - How will Land Applier address malodor
  - How will Generators address malodor
  - Submit within 90 days

#### What is Malodor?

Malodor is an unusually strong or offensive odor associated with biosolids or sewage sludge as distinguished from odors commonly associated with biosolids or sewage sludge.

#### Land Applier Odor Control Plan

- Methods used to identify and abate malodorous biosolids in the field prior to land application; and
- Methods used to abate malodorous biosolids if land applied.
- Procedures for informing the generator of odor issues and complaints;

#### Generator Odor Control Plan

- Methods used to minimize odor in producing biosolids;
- Methods used to identify malodorous biosolids before delivery to the land applier;
- Methods used to identify and abate malodorous biosolids if delivered to the field, prior to land app.;
- Methods used to abate malodor from biosolids if land applied; and
- Generator's contact information for reporting odor issues and complaints

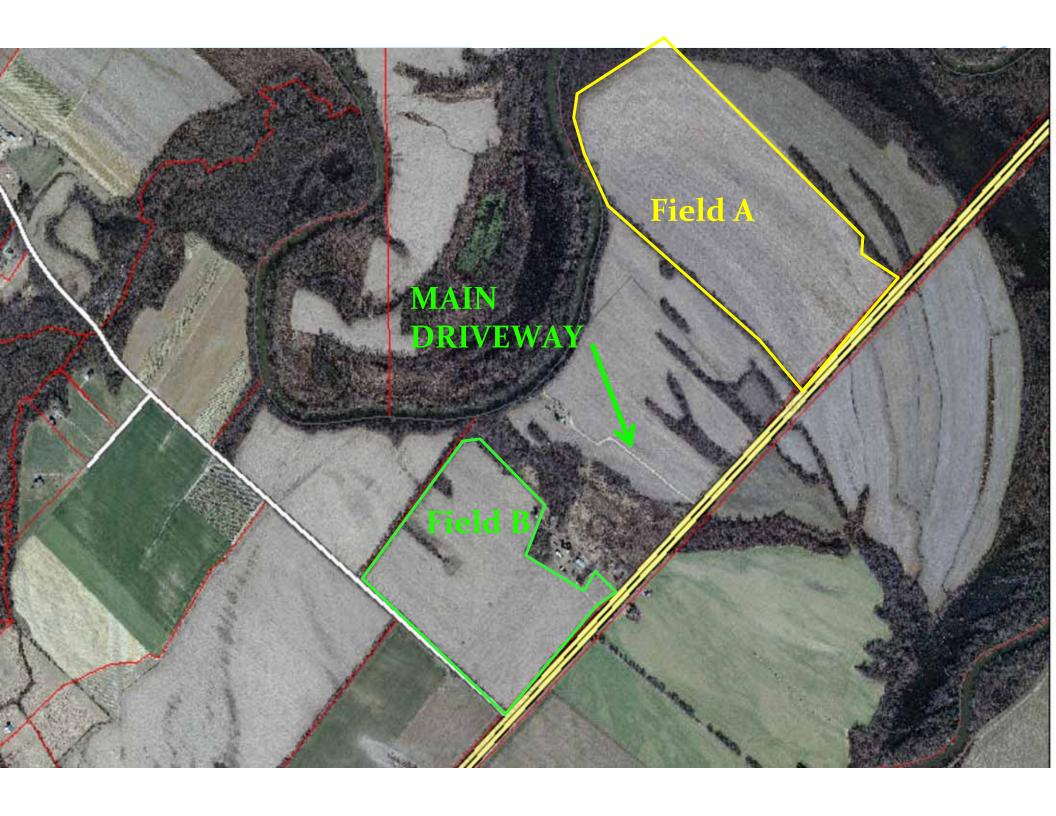
- Sign Posting
  - 5 business days prior to delivery to the site.
  - Maintain for 5 days after land application is complete
  - Do Not remove for 30 days after land application

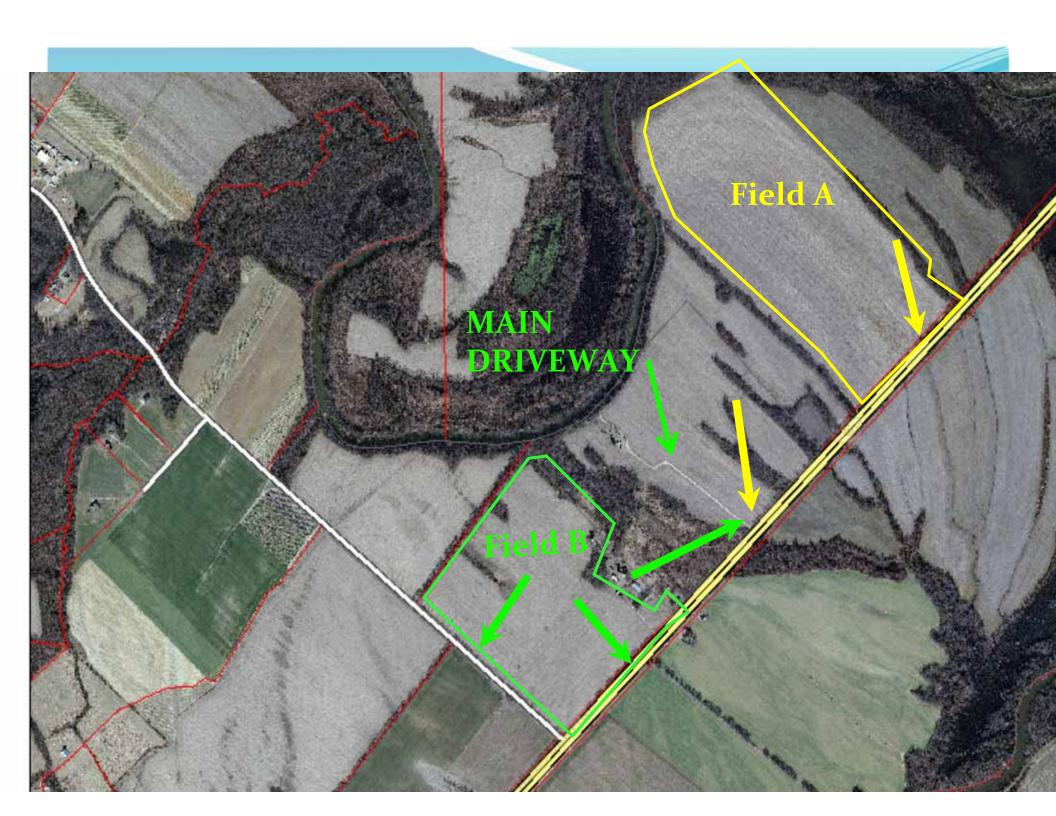
- Sign Posting cont.
  - All signs must be visible & legible from right-of-way in both directions of travel
    - Double sided or 2 signs in most situations
    - Perpendicular to the travel path

- Sign Posting cont.
  - At intersection of public right-of-way and main site access road or driveway – on the main road
  - On each road bedside the field to be land applied

- •Sign must include:
  - Biosolids are being land applied
  - Permittee name
  - Phone number of designated individual to respond to inquiries and complaints
  - DEQ Regional Office phone number

- Notification of sign posting:
   Written notification to DEQ and the local
   government not more than 24 hours of posting
   sign, must include:
  - Permittee, representative and phone number
  - Contact name/title & phone number if different
  - Location tax map no. & DEQ Control No.
  - Proposed Begin & End Dates
  - Generator contact info.





- 24 Hour Notification
  - Not more than 24 hrs prior to land application activity, including delivery & staging
  - Written notification to DEQ & Local Government
    - ❖ E-mail
    - Fax

#### What is Staging?

Staging is the placement of biosolids on a permitted land application field, within the land application area, in preparation for commencing land application or during an ongoing application, at the field or an adjacent permitted field. Staging is not considered storage and shall not take the place of storage.

- Submit a Staging Plan **Prior** to Overnight Staging
- Land apply within 7 days\*
  - The day 1<sup>st</sup> delivery occurs is day 1 of the count

- \* Exceptions to overnight staging:
  - All biosolids delivered must be land applied by the end of the business day when at a site:
- In area of Karst topography
- In frequently flooded areas (USDA)
- With on-site storage

- Stage
  - No more than can be applied to the field
  - Within the application area not in setback
  - To prevent run-off to surface waters

- Overnight Staging
  - At least 400' from occupied dwelling
  - At least 200' from property line
  - Daily inspection by certified land applier
  - Correct erosion, slumping, movement of pile
  - Address odor or ponding

- Staged biosolids not spread by Day 7:
  - Notify DEQ within 24 hours of determining they will not be spread, but no later than C.O.B. of Day 7
  - Cover biosolids
  - Spread or remove from field as soon as conditions allow access to field

#### What is On-Site Storage?

**On-site storage** is the short-term storage of biosolids on a constructed surface within a site approved for land application at a location preapproved by the department. These stored biosolids shall be applied only to sites under the operational control of the same owner or operator of the site where the on-site storage is located. Requirements for on-site storage include the following

- On-Site Storage
  - All biosolids land applied by end of day 45
     The day 1<sup>st</sup> delivery occurs is day 1 of the count
  - Constructed surface
  - Pre-approved by DEQ

- On-Site Storage cont.
  - For use only on fields under control of owner/operator of site where on-site storage is located
  - No more than can be applied to the sites under control of owner/ operator of onsite storage

- On-Site Storage cont.
  - <u>Certified Land Applier</u> to notify DEQ within same working day when on-site storage is implemented
  - Malodors verified by DEQ; corrected within 48 hours or biosolids removed
  - BMPs to prevent contact with storm water run on and runoff

- On-Site Storage cont.
  - Certified Land Applier to inspect:
    - At least every 7 days
    - ◆After each precipitation event ≥ 0.1"
    - Document inspections
    - \*Correct erosion, slumping, movement of pile with 24 hrs
    - Eliminate ponding

#### **VDH Variances:**

- Storage pads in use under variances must comply with construction requirements of amended regulation by September 1, 2014, or be closed out.
  - Submit Plans and Specs
  - Closure Plan

- If soil pH is < 5.5 S.U., must add lime at agronomic rate recommended in NMP prior to or concurrently with biosolids, or use lime stabilized biosolids
- If soil potassium is <38 ppm must add potash at agronomic rate recommended in NMP prior to or concurrently with biosolids

- Pasture and hay, grazed or clipped to approximately 6" before application
- •Application on slope > 15%:
  - Identified in Biosolids Management
     Plan
  - Approved by DEQ

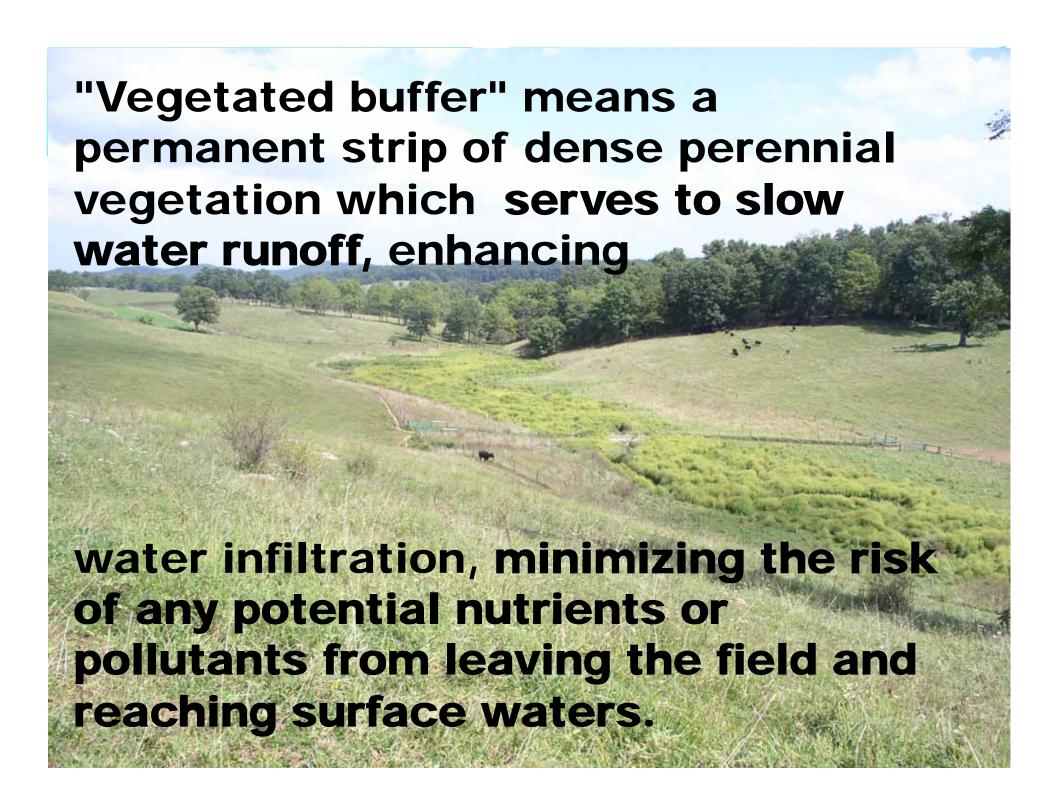
- Notice to landowner or operator
  - If molybdenum ≥ 40 mg/kg, notice of potential copper deficiency in grazing animals

#### What is an Odor Sensitive Receptor?

"Odor sensitive receptor" means, in the context of land application of biosolids, any health care facility, such as hospitals, convalescent homes, etc. or a building or outdoor facility regularly used to host or serve large groups of people such as schools, dormitories, or athletic and other recreational facilities.

#### What is a Publicly Accessible Site?

- Publicly accessible sites:
  - open to the general public and routinely accommodate pedestrians
  - include, but not limited to, schools, churches, hospitals, parks, nature trails, businesses open to the public and sidewalks
  - Temporary structures, public roads or similar thoroughfares are not considered publicly accessible



#### MINIMUM SETBACK DISTANCE REQUIREMENTS

Adjacent Feature	Setback
	Distance
Occupied dwelling	200
Odor sensitive receptors	400
(without injection or same day	
incorporation)	
Odor sensitive receptors	200
(with injection or same day	
incorporation)	
Property lines	100
Property lines of publicly accessible	200
sites	

#### MINIMUM SETBACK DISTANCE REQUIREMENTS (1) Setback Adjacent Feature Distance Water supply wells or springs 100 Public water supply reservoirs 400 All segments of streams and 100 tributaries designated as a Public Water Supply under the Board's Water Quality Standards Surface waters without a vegetated 100 buffer Surface waters with a 35-foot 35 vegetated buffer

#### MINIMUM SETBACK DISTANCE REQUIREMENTS (1)

Adjacent Feature	Setback
	Distance
Agricultural drainage ditches	10
All improved roadways	10
Rock outcrops	25
Open sinkholes	100
Limestone rock outcrops and closed	50
sinkholes	

- Setback from occupied dwelling may be reduced or waived upon written consent of <u>landowner</u> and <u>occupant</u>
- Setback from property line may be reduced or waived upon written consent of landowner

- Landowner Agreements
  - Must use Form D Part D-VI Rev 9/14/12
    - Permit application new or reissuance
    - Modification to add land
    - Change of landownership
  - If LOA on file is on any other form, permittee must notify landowner within 60 days to submit new signed form.

#### QUESTIONS?