



Chesapeake Bay Program Office



Manure Management Manual (MMM) Manure Management Plan (MMP) Guidance (361-0300-002) Revision Process

WRAC

September 23, 2021

Agenda

LAND APPLICATION OF MANURE

A supplement to Manure Management for Environmental Protection

Manure Management Plan Guidance

361-0300-002



- Goal of the MMM Revision
- Progress to date
- Current Contemplated Revisions
- Next steps and proposed timeline

Goal for the MMM Revision

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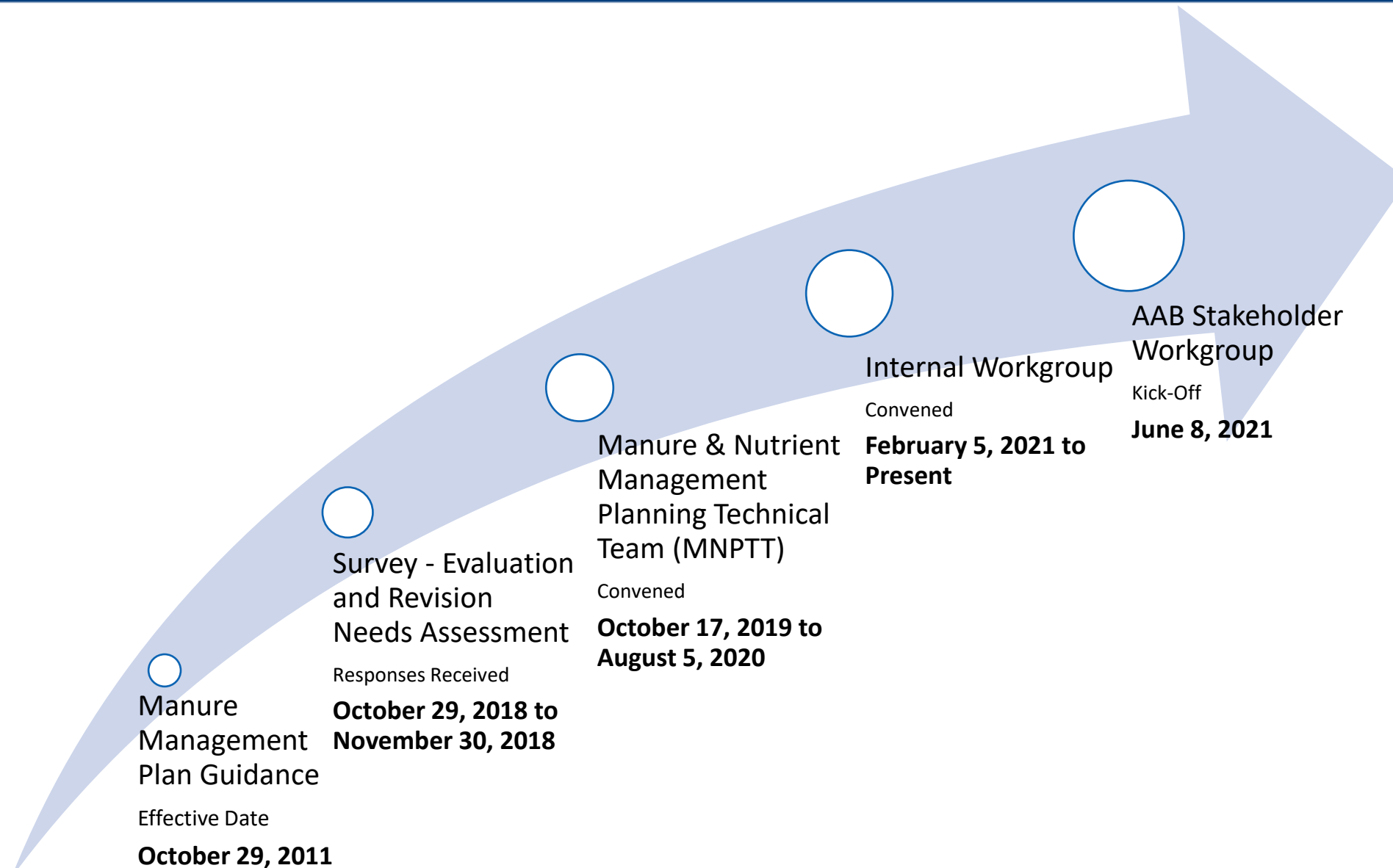
Manure Management Plan Guidance

361-0300-002



Assure the feasibility of planning, verification, and implementation of the new document while maintaining or improving the inherent water quality benefits of the current document.

MMM Revision Process To Date



Manure Management Plan Guidance

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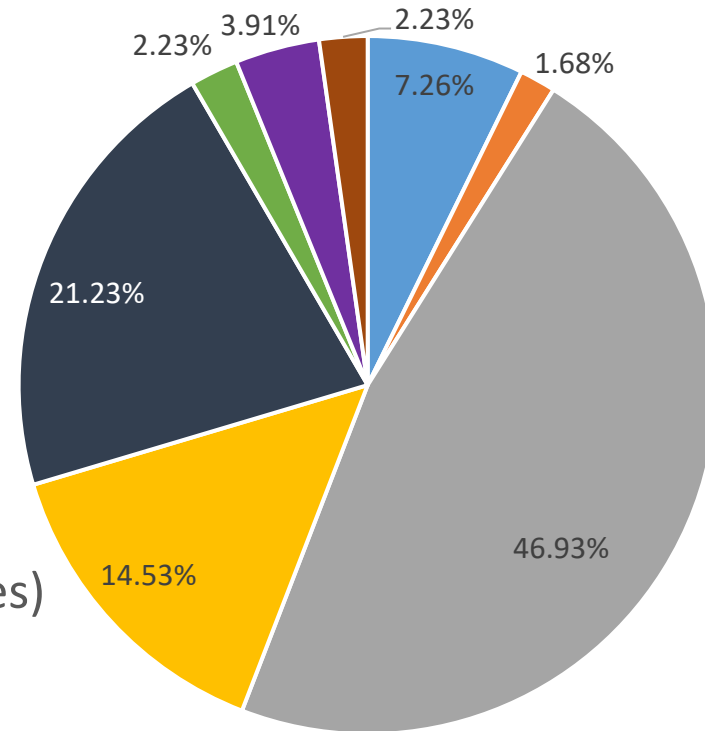
- Effective Date: October 29, 2011
- Meets the planning requirements for land application of manure and agriculture process wastewater under Chapter 91.36(b)
 - Does not apply to CAOs or CAFOs
 - Applicable to all other operations that land apply manure or agricultural process wastewater.

Manure Management Manual (MMM) Evaluation and Revision Needs Assessment

- Responses received: October 29, 2018 to November 30, 2018
- 156 respondents

Respondent's Current Occupation

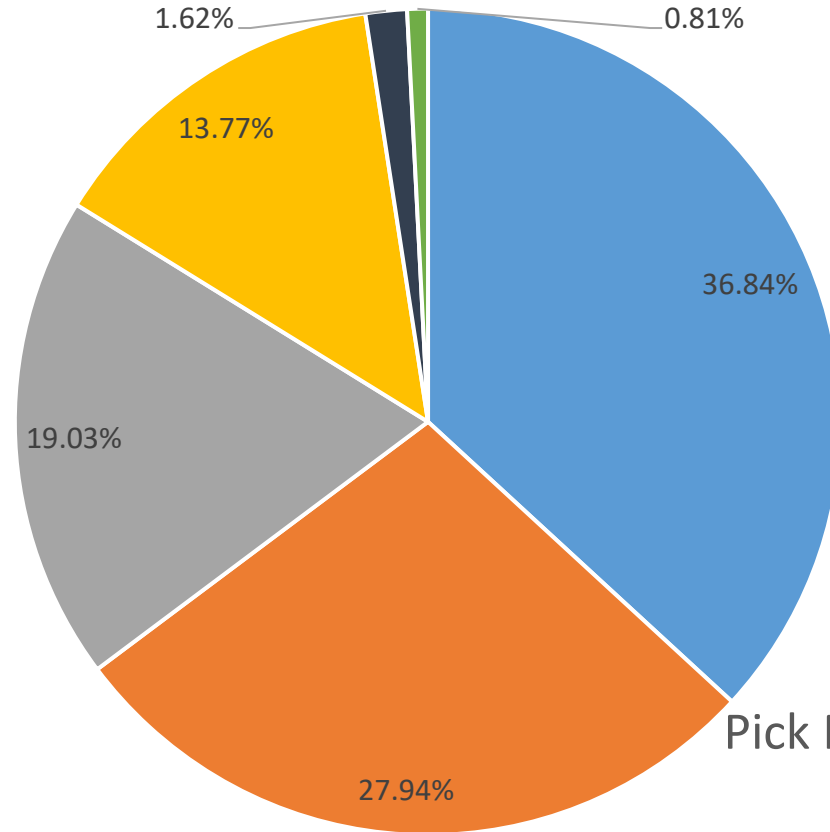
Pick Multiple (179 total responses)



- State Agency
- County Conservation District
- Certified Commercial NM Specialist
- Hauler/Broker

- Federal Agency
- Farmer
- PSU
- Other

Manure Management Manual (MMM) Evaluation and Revision Needs Assessment



Respondent's Professional Interaction with the Manure Management Manual

■ Planner ■ Verifier ■ BMP Designer/Engineer ■ Implementer (Owner/Operator) ■ Hauler/Broker ■ Other

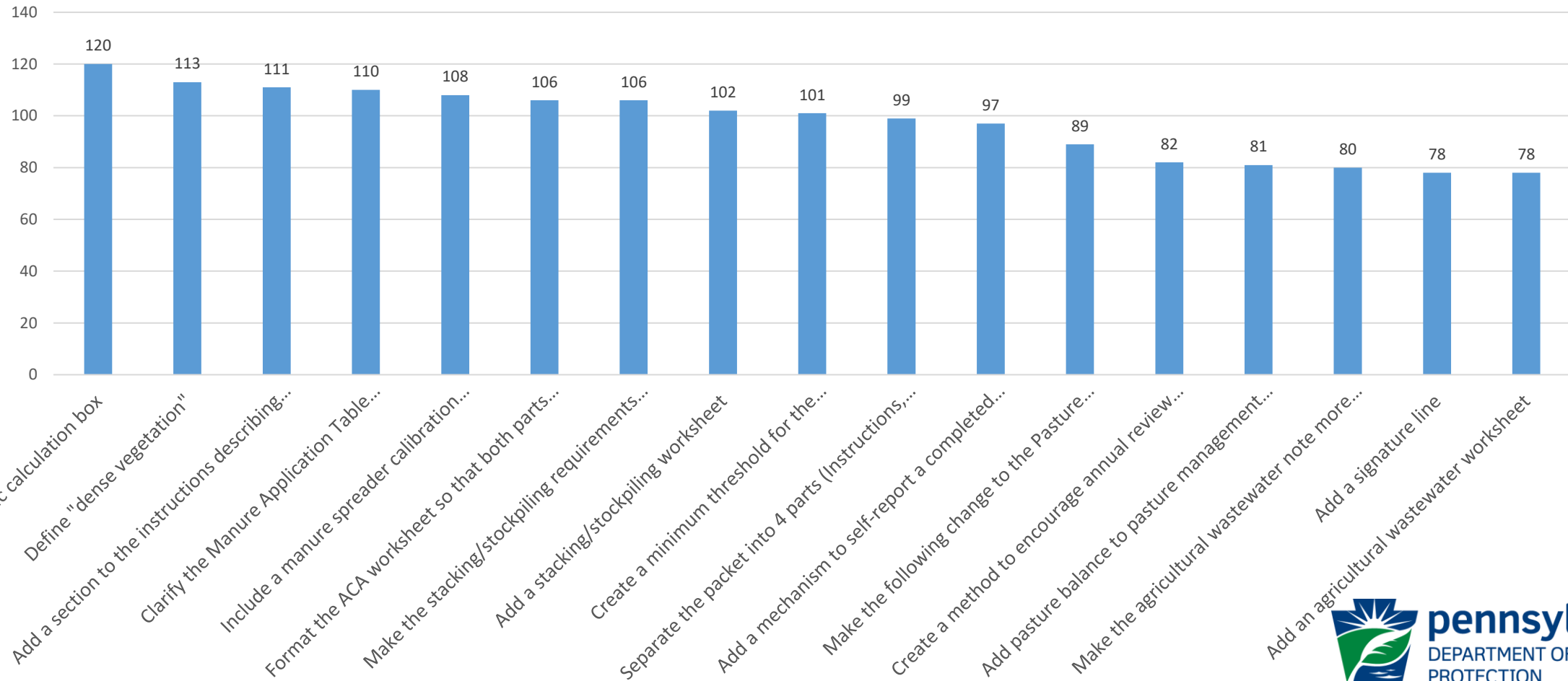
Manure Management Manual (MMM) Evaluation and Revision Needs Assessment

5. Please rate the importance of the following revisions to the MMM:

	Not at all important	Slightly Important	Important	Fairly Important	Very Important
Separate the packet into 4 parts (Instructions, Plan, Record-keeping forms, Charts)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Create a minimum threshold for the requirement to complete the MMP. Example: 8 AEU's and no ACAs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Define "dense vegetation"	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Add a signature line	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Move date of development to a more visible location	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Manure Management Manual (MMM) Evaluation and Revision Needs Assessment

- 136 of 156 respondents believe that revisions to the MMM are needed.
- Of those 136 over half believed that the following is **Important to Very Important**



Manure and Nutrient Planning Technical Team (MNPTT)

- In June and July 2019, the SCC and DEP met with stakeholders to discuss several topics related to NM, MM, and CAFO programs
- Technical team with five subcommittees assembled from October 17, 2019 to August 5, 2020 to discuss potential NM, MM, and CAFO planning standards revisions.
- MNPTT Members
 - Owners/operators,
 - Public and private plan writers,
 - MMP Verifiers / NMP Reviewers
 - State and federal agencies
 - CCDs
 - Penn State
 - Industry

Manure and Nutrient Planning Technical Team (MNPTT)

MMM Revision Subcommittee

- MMM Revision Subcommittee Members
 - MMP Verifiers / NMP Reviewers
 - State and federal agencies
 - Penn State
 - Industry
- Met twice and discussed
 - Trends from the Manure Management Manual (MMM) Evaluation and Revision Needs Assessment
 - Any additional comments from members of the MNPTT and relevant stakeholders
- Made recommendations to the MNPTT for final determinations and next steps.

Manure and Nutrient Planning Technical Team (MNPTT)

MMM Recommendations

- Form a workgroup to solicit feedback and troubleshoot the following:
 - Standard DEP plan for very small operations that meet a set of criteria
 - Manure generation calculation
 - Concentrated Animal Operation (CAO) calculation
 - Manure spreader calibration Worksheet
 - Pasture balance and Best Management Practices (BMPs) on pasture management worksheet
 - Agricultural wastewater Worksheet
 - Summary of soil samples for N-based plans

Internal Workgroup

- Purpose
 - Solicit feedback and troubleshoot working drafts
- Membership
 - CCD
 - DEP
 - SCC
 - Plan writers and verifiers
 - Industry representatives
 - End users
- 10 meetings from February 5 – August 3, 2021

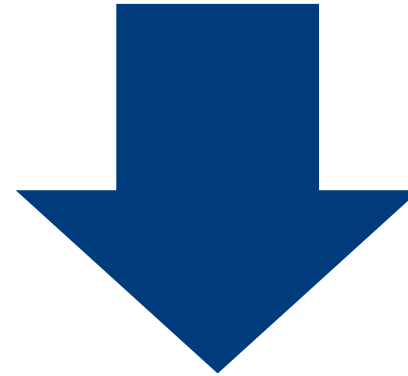
Manure Management Manual – Contemplated Revisions

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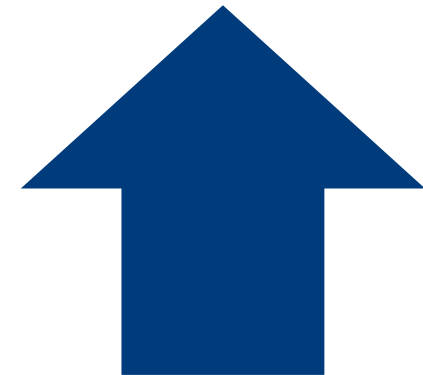
MMM

October 29, 2011



MMM

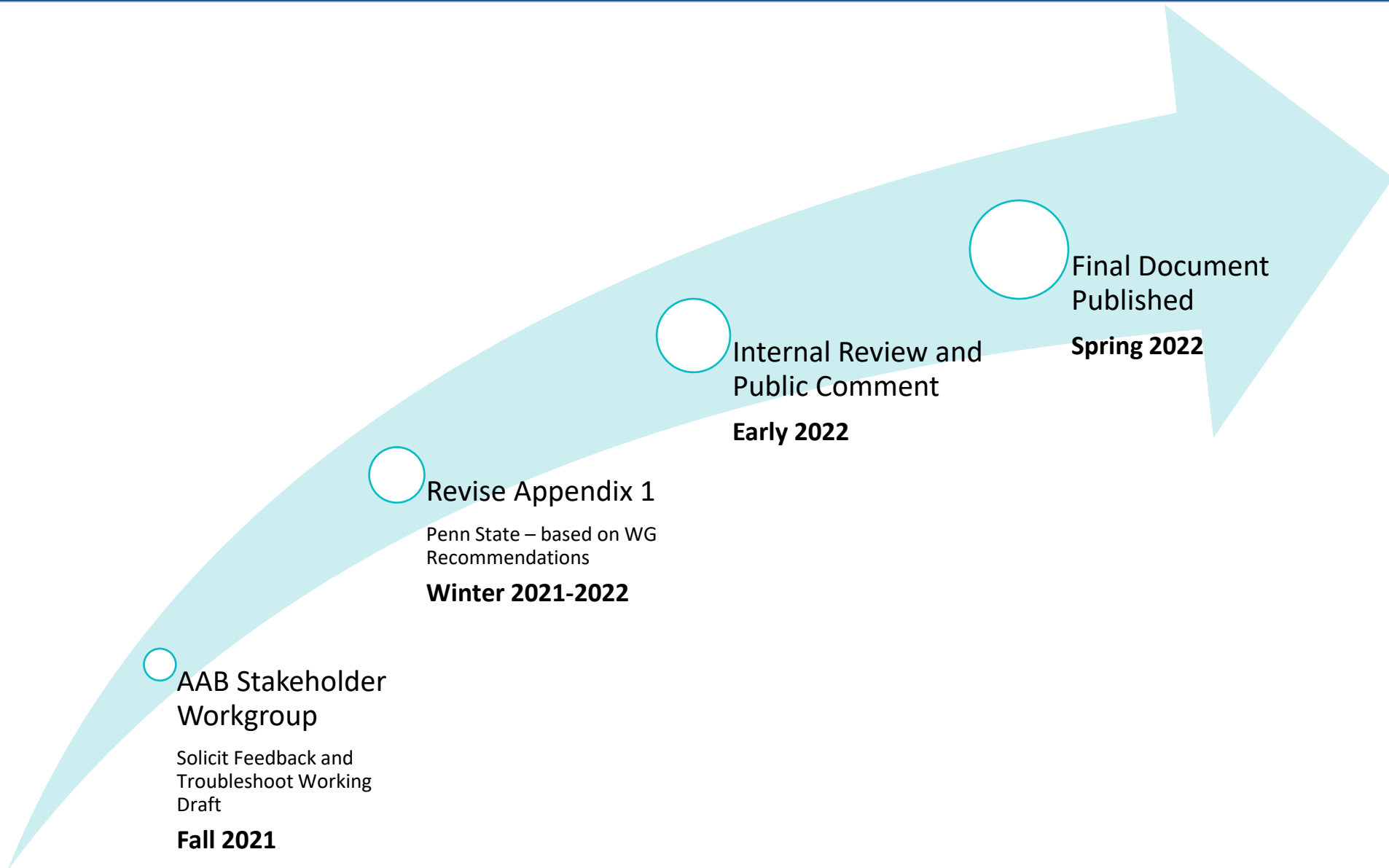
*Contemplated
Revisions*



Manure Management Manual – Contemplated Revisions

- Who does this guidance apply to?
 - No Proposed Changes
 - AUE/Acre animal density calculation
- General Manure Management Requirements
 - MMP Worksheet proposed alternative planning format available for some operations
- DEP Authorized Manure Management Practices
 - Look-up charts simplified to P-Removal only
 - Manure spreader calibration confirmation checkbox
 - Springs added to environmentally sensitive areas list
 - Check box added to verify P levels are less than 200 ppm
 - Added option to treat ACAs (improve and stabilize surface material of the ACA)
 - 2nd option for meeting pasture requirements changed
 - Ag. Process Wastewater management requirements have not changed

MMM Revision Process Next Steps



AAB Stakeholder Workgroup

- Stakeholder Workgroup
 - AAB Membership (and designees) Workgroup
 - Offer feedback and troubleshoot working drafts
 - 3-4 virtual meetings, maximum 1.5 hours per meeting
 - Fall 2021
 - Review and comment on working drafts

Summary

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pennsylvania

DEPARTMENT OF ENVIRONMENTAL
PROTECTION



Chesapeake Bay Program Office

Kate Bresaw
Chesapeake Bay Office
Environmental Group Manager

kbresaw@pa.gov

717-772-5650