









Phase 6.0 CBWM Timeline

2017 2019 2021 2023 2025

Phase 6 CBWM 2-Year Milestone Adjustments

TMDL Target Date

Date

New/Revised BMPs New Input Data New CBWM Process CBWM Calibration New/Revised BMPs Revised Input Data New/Revised BMPs Revised Input Data





- Agricultural Data: BMP vs. Model Input
 - Phase 5.3.2 BMPs:
 - Poultry Phytase
 - Broilers only.
 - Limited Model credit based on past research.
 - Difficult for partnership to track, verify, and report higher levels of management.
 - Did not account for change over time of house and litter management., i.e. inhouse windrowing.
 - Reliance on ASABE national as-excreted nutrient data.
 - Swine Phytase
 - Model credit available but never assigned.
 - Difficult for partnership to track, verify, and report management.
 - Did not account for change over time of house and manure management, i.e. waste storage ponds vs. deep pit.
 - Reliance on ASABE national as-excreted nutrient data.





- Phase 6.0 Agricultural Inputs: BMP vs. Model Input
 - Phase 6 Model Input:
 - Broiler Nutrient Generation
 - Previous BMP converted to Model Input
 - Source Poultry Litter Subcommittee/Ag Modeling Subcommittee Report (2015)
 - Demonstrated ability for partnership to track, verify, and report higher levels of management.
 - · Accounts for change over time of house and litter management., i.e. in-house windrowing.
 - · Reliance on Bay regional litter nutrient data.
 - Turkey Nutrient Generation
 - Proposed BMP converted to Model Input
 - Source –VT Nutrient Generation Report (2016)
 - Demonstrated ability for partnership to track, verify, and report higher levels of management.
 - Accounts for change over time of house and litter management., i.e. staged production.
 - Reliance on Bay regional litter nutrient data.





- Phase 6.0 Agricultural Inputs: BMP vs. Model Input
 - Phase 6 Model Input:
 - Swine Nutrient Generation
 - Previous BMP converted to Model Input.
 - Source VT/PSU Nutrient Generation Report (2016)
 - · Demonstrated ability for partnership to track, verify, and report higher levels of management.
 - Accounts for change over time of house and manure management., i.e. storage ponds vs. deep pits.
 - Reliance on Bay regional manure nutrient data.
 - Other Potential BMPs:
 - Potential future BMPs converted to Model Inputs.
 - Example: Broiler in-house composting.
 - Demonstrated ability for partnership to track, verify, and report higher levels of management.
 - · Accounts for change over time of house and manure management., i.e. storage ponds vs. deep pits.
 - · Reliance on Bay regional manure nutrient data.









- Mechanics of Collecting Agricultural Data
 - Partners:
 - Independent Third Party
 - Data collection, analysis and reports.
 - Strong FOIA protection of private data.
 - Trusted by agricultural sector industry and producers.
 - Trusted by public community agencies and environmental NGOs
 - Private Producers
 - Personal on-farm interviews.
 - Review on-farm records.
 - Obtain nutrient analysis records and/or samples.
 - Review and verify management systems i.e. manure storage.





- Mechanics of Collecting Agricultural Data
 - Partners:
 - Agri-business and Associations
 - Industry-wide collaboration
 - Company level data sharing agreements with Third Party
 - Company level interviews.
 - Company level commercial records.
 - State Agricultural Agencies and Laboratories
 - Farm level plan or records i.e. NMP, permit data, etc.
 - Farm level nutrient analysis records over time.
 - Farm level sample analysis for nutrient concentrations.





- Mechanics of Collecting Agricultural Data
 - Data Collection Basics
 - Independent Third Party
 - Ability to collect data from all partners.
 - Implementation of biosecurity protocols.
 - Implementation of ASTM sampling protocols.
 - Strong FOIA protection of private data i.e. Cloud based.
 - Documented Quality Control/Quality Assurance process.
 - Internal data analysis capability.
 - Adherence to CBP Data requirements i.e. sample size and procedures.
 - Aggregation of collected data across multiple sources.
 - Ability to develop and present for partnership review a comprehensive and science-based data collection report.
 - Eligible to access partnership funding resources.
 - Project staff are trained and qualified for the project follow procedures.
 - Project staff are IRB certified (recommended).

