

Chesapeake Bay Program Best Management Practice Verification Program Design Matrix

Program Component	Program Elements	Element Options		Increased Spot-checking May Be Required Without This Minimum Level of Review
BMP Site Review (BMP Verification)	1. What was the driver for BMP Installation?	Regulation, Cost-share, Non-cost-share/Voluntary		Regulation or Cost-share
	2. How many BMPs will be inspected?	All, percentage, subsample, those targeted		Adequate statistical sample
	3. How is the frequency and location of inspections determined?	Statistics, targeting, law, available funding		Adequate statistics or targeting process
	4. How often are BMPs/groups of BMPs inspected?	0-< 1 yr, benchmark in BMP implementation timeline, 1yr, 1-3 yr, >5 yrs		Appropriate benchmark in BMP Implementation timeline
	5. What is the method of inspection?	Water quality monitoring, field visual, aerial, paperwork review, phone/paper survey		Field visual
	6. Who will conduct the BMP inspection and are they certified/trained?	Third party (certified), regulatory agency, non-regulatory agency, self-reported		Regulatory agency
	7. What needs to be recorded for each BMP inspection?	Water quality monitoring data, meets specs/standards, visual functioning, location		Visual functioning
	8. Is execution of the inspection process documented in and checked against an updated QAPP?	QAPP in place and program checked and amended to ensure compliance, QAPP in place but not actually applied, No QAPP		QAPP with checks and amendment to ensure compliance
	9. Into what type of system is collected data entered?	Database, spreadsheet, written files		A system consistent with approved CBP guidance
	10. At what resolution are results reported out to EPA and/or the public?	Site-level, by sub-watershed, by County, by state		Site-level
Data/Program Evaluation (Data Validation)	11. What is the QA/QC process to prevent double-counting or counting of BMPs no longer in place?	BASIC: Database/paper check of adequate statistical sample	ADVANCED: Visual field check of adequate statistical sample	CBP guidance to further describe the "feedback loop" between intensity of site review and required validation.
	12. What is the method used to validate states' ability to collect and report correct data?	BASIC: Database/paper check of adequate statistical sample	ADVANCED: Visual field check of adequate statistical sample	
	13. If data is provided by third party or industry, what method is used to provide adequate quality assurance for acceptance into the Bay Program?	BASIC: Database/paper check of adequate statistical sample	ADVANCED: Analytical comparison to a known database and review of data collection procedures.	
	14. Who conducts data validation?	BASIC: Non-regulatory agency	ADVANCED: Regulatory Agency, University, Third party	
Performance (Outcomes)	15. What is the process to collect data to assess BMP performance and confirm consistency with BMP efficiencies in Chesapeake Bay models?	BASIC: Visual field assessment of statistical sample (check for signs of failure)	ADVANCED: Analytical measurement of performance for a statistical sample (water quality monitoring, soils test, manure sample, etc)	BMP Expert Panel (or other appropriate body) to set BMP-specific minimum criteria that drive the need for BASIC or ADVANCED performance assessment.
	16. Who collects BMP effectiveness data?	BASIC: Non-regulatory agency	ADVANCED: Regulatory Agency, University, Third party	