



Desktop BMP Analysis with Non-Intrusive Field Verification

BMP Analysis utilizing aerial imagery, GIS, and digitized reporting forms for completion of non-intrusive field verification within partnership counties.



Joshua E. Glace, PWS, CPESC

Project Goals



Non-intrusive BMP verification was prioritized by our partnership counties to collect and verify as many practices as possible without intruding on properties and to respect landowner privacy.

In order to complete BMP Verification without obtaining a release of records, we created a process that used aerial desktop review to identify Resource Improvement BMP's and followed that process with ground truthing to ensure the BMP was properly identified and to collect further practice information.

Desktop BMP analysis with non-intrusive field verification is completed in four specific steps.



Our Process

01

Aerial Desktop Review

Identification of BMP land signatures on aerial photography.

02

Non-Intrusive Field Verification

Field verification of BMP land signatures from public roadways.

03

BMP Form Collection

BMP data collection through the developed Survey123 Form.

04

Practice Keeper Reporting

Data Transfer into Practice Keeper database.

What This Process Provides



Can:

- Account for some Resource Improvement Practices
- Increase amount of BMPs being identified and verified
- Increase life of BMPs if aerial imagery is dated
- Aid data collection and information organization

Cannot:

- Account for BMPs that require visual inspection or associated plans

Resource Improvement Practices



- **RI 7&8 – Grass Nutrient Exclusion Area or Buffer on Watercourse**
- **RI 9&10 – Forest Nutrient Exclusion Area or Buffer on Watercourse**
- **RI 16 Barnyard Clean Water Diversion**
- **RI 17 Water Control Structure**

Project Summary



Non-intrusive methods are a main priority by our partnership counties when completing BMP verification. Each county aims to identify as many practices as possible while respecting landowner privacy.

In order to complete BMP Verification while keeping privacy in mind, we created a catered process per each county's needs that used a combination of aerial desktop review and field verification.

This process allows for various BMP types to be collected while serving the requests of their local citizens for increased privacy throughout project completion.

Thank You

Joshua E. Glace, PWS, CPESC
LARSON DESIGN GROUP

