NATIONAL ENVIRONMENTAL INFORMATION EXCHANGE NETWORK

Chesapeake Node
Codes List

Version 2014.4

November, 2014

Change History

Version	Date	Revision Description
0.5	July 12, 2006	Final Modifications resulting from Technical Walkthrough.
0.9	July 31, 2006	Reverted version above to 0.5 Discussion Points and Virginia Review Modifications Discussion Points and PA Additions Modifications made include: - Tables were in sorted order - Entries in tables were in sorted order - All code table references were standardized to plural (they were mixed) - Synchronized Sections 3 and 4 and removed examples of codes from Section 3 that were moved to Section 4 - added Code List Identifiers to tables identified as codes in the DET - highlighted items for discussion
0.91	September 12, 2006	Modifications from Technical Walkthrough: - Removed Binary Object Contents (moved values to Binary Object Types), Binary Object Languages, Land Use Status Codes, NPS BMP Practice Codes, Reach Codes, Subbasin Codes, Waterplan Codes - Added Agency Codes and Binary Object Associations to *Code Tables* Summary in Section 3 and removed City - Modified description for Code and added Codes in Section 4.1 - Added values to Section 4.4 - Removed and/or added values to Section 4.10 - Modified description for all Measure Unit Tables - Added value to Section 4.13 - Added Section 4.16, Horizontal Accuracy Measure Unit Codes - Modified description for Section 4.18 - Modified description and changed code values to NLCD01 Land Use Codes - Added values to 4.26 - Removed values from 4.30 - Removed and added values to 4.34 All modifications were highlighted in yellow. Green items need additional input from Program team.

1.0	Modifications after November 1, 2006 NPS BMP Teams, November 8 PA NPS BMP Development Team, November 15 technical team review	All 11/1 modifications highlighted in blue 11/8 and 11/15 Modifications after review with PA NPS BMP Repository Developers (11/9) and NPS BMP Node Technical Team (11/15)
1.0	Minor Modifications prior to distribution for sign off	- Added Maryland Agency Codes to Section 4.1 *Agency Codes*. Changed Agency *Description* to Agency *Name* - Added Description and URLs to Section 4.7 *Data Source Locations*, and Section 4.8 *Data Source Names.* - Removed code of NRCST (no definition found) from Section 4.7 *Data Source Locations* - Removed a reviewer comment from 4.5 *County Codes* ("Urban BMPs will often be in Cities. Add city to Geographic Location Description?") - Removed all highlighting used for previous editing
1.0	2/27	- Section 4.1 Added MDE Agency code of 24510 - Section 4.23 Added Measure Unit Codes: YEARS TONS TPY TPAY
1.0	3/2/2007	- Section 4.26 Added NPS BMP Type Codes of WET and WLD

1.0	8/30/2007	- Modifications to standardize code values and synchronize with DET and the 8/15/2007 NTG Schema Conformance Report. Reordered renamed codes alphabetically 4.7, 4.8, 4.9, 4.10, 4.11 Prefaced with "BMP" 4.4, 4.5, 4.6 Changed Preface from "NPS BMP" to "BMP" 4.4 Capitalized all codes, added TPR and TPAY 4.11 Capitalized all codes 4.20 Modified per enumerations in shared schema 4.23 Capitalized all codes 4.28 Reference to state postal codes and usps URL - All modified items are highlighted yellow.
1.0	9/27/2007	- Modifications from VA DCR after modifying source applications and creating XML file.
1.0	11/27/07	- Standardize BMP Name Type Codes with BMP Component Name Type Codes.

1.0	3/24/2008	- Removed all previous highlighting.
		- Added link to NRCS Practice Names to BMP Name list, removed names in existing list that were federal BMP names, and noted BMP Name Types in list.
		- Added link to NRCS Practice Names to BMP Component Name list, removed names in existing list that were federal component names, and noted BMP Component Name Types in list .
		- Note that list of Federal Hydrologic Unit Codes is under development while that shared schema is under development.
		- Changed "Name" to "Description" for BMP Funding Source.
		- Changed "Description" to "Name" for all Measure Units, all Reference Datums, Coordinate Data Source, County, Geographic Reference Point, Geometric Type, Verification Method, and Vertical Collection Method.
		- Better defined Data Source Access Method Codes.
		- Combined Data Source Location list with Data Source Names list since there are no Data Source Location Codes, Data Source Location Code Descriptions, Data Source Location Code List Identifiers, or Data Source Name Descriptions in the schemas.
		- Changed the Telephonic Type list to the Telephone Number Type Names list and removed references to Telephone Number Type Code and Telephone Number Type Code List Identifier, which do not exist in the schemas.
		- Changed Verification Method Code and Vertical Collection Method Code to Verification Method Identifier Code and Vertical Collection Method Identifier Code, and Horizontal Accuracy Unit Code to Horizontal Accuracy Measure Unit Code, as per shared schemas.

1.0	3/24/2008	- Removed Binary Object Association table as this element does not occur in schemas. - Corrected table names in Codes Table Summary. - Removed references to required elements (R) for the many elements that are not required but were so listed.
1.0	8/28/2009	- Made all recommended changes of 3/24/08 and 4/17/08 that received no objections. - Divided the previous general Federal Hydrologic Unit Code Table into three, one for each order as now available in the schema.
2.0	8/13/10	- Modifications to the following Codes Tables to account for implementation of the NPS BMP schema and input to Scenario Builder: o 4.3, BMP Component Measure Unit Codes o 4.4, BMP Component Names o 4.6, BMP Event Status Codes o 4.9, BMP Land Use Code o 4.10 BMP Measure Unit Codes o 4.11 BMP Names - Standardized measure names on plural in: o 4.3, BMP Component Measure Unit Codes o 4.10 BMP Measure Unit Codes o 4.25 Horizontal Accuracy Measure Unit Codes o 4.33 Vertical Measure Unit Codes
2.1	09/20/2010	- Correction to 4.9, BMP Land Use Code where codes exceeded field lengths.

2.2	12/23/2010	- Synchronize all the codes used in the first production exchange between state and Bay nodes and the codes specification. Tables include: o 4.1 Agency Codes o 4.4 BMP Component Names o 4.6 BMP Event Status Codes o 4.8 BMP Land Use Class Code o 4.11 BMP Names o 4.15 County Codes
2.3	10/11/2011	- BMP & BMP Component Name tables were combined and now include identifiers that specify whether the practice is: o Valid as a BMP, BMP Component, or both BMP and BMP Component. o TYPE = FED or ST - Obsolete tables for BMP Component Name, Type, and Units were removed. - BMP/Component names were updated with additional practices anticipated for 2011 progress run submission. - Added section 4.32 for Implementation Qualifier Code.
2.4	10/19/2011	- Removed duplicates (porous pavement, cisterns & rain barrels, vegetated roof cover) from table 4.7
2.5	12/29/2011	- Added Implementation Qualifier Codes for Regulated land, implementation within Chesapeake bay Portion of the County
2.6	04/09/2012	- Added Land Classes for Urban - Combined Sewer Systems.
2.7	07/31/2012	- Added new BMP & BMP Components from NY Stormwater DB.

2.8	10/22/2012	Added:

		- units for volume (cubic feet, acre-feet)
		   - verification qualifiers
		   - soil types
		   - Separate BMP name codes for dry detention ponds and hydrodynamic structures.
		   - Missing css land use code

2.9	09/10/2013	Added: additional BMP event status codes: INST – Installed IMSP – Inspected MANT – Maintained
2.10	10/30/2013	Added: Additional land uses: Nurs – nursery Alf – alfalfa
2.11	11/12/2013	Revised existing BMP Name table
2.11	11/22/2013	Added: HUC4 – Four Digit Hydrologic Unit Code HUC6 – Six Digit Hydrologic Unit Code
2.11	11/25/2013	Added: BMP Category Previous BMP

2014.1	08/22/2014	Added Implementation Qualifier Codes:
		IMNF – Implemented on non-Federal Land not entirely within watershed IMNFW – Implemented on non-Federal Land within watershed IMO – Implemented on lands not entirely within watershed
		Removed Implementation Qualifier Codes: IMR ; IMFR; IMRW; IMFRW
		Edited descriptions of IMF, IMW and IMFW
2014.1	08/22/2014	Added Land Use Codes:
		RegUrb; rpd; rid; UnRegUrb; npd; nid; RegUrbWCSS; RegPUWCSS; RegIUWCSS; UnRegUrbWCSS; UnRegPUWCSS; UnRegIUWCSS
2014.2	10/1/2014	Revised BMP and BMP Component Names after cross-referencing list with database.
2014.2	10/1/2014	Added Land Use Code: Septic
2014.2	10/1/2014	Added BMP Component Unit Code: Gallons
2014.2	10/1/2014	Added Previous BMPs for stormwater: E3SWMNew; RcntSWM; SWMEra0210; SWMEra8502; UrbFilterRR; UrbFilterST
2014.2	10/1/2014	Added database table/view references for CBPO IT Staff purposes only.
2014.3	10/6/2014	Adjusted Previous BMPs for Stormwater Table to match database.

2014.4	11/6/2014	Added afo, cafo and afocafo to land use codes.

PURPOSE of this Document

The purpose of this document is to provide an updated list of all the Chesapeake Bay Program Office Non Point Source (NPS) Best Management Practices (BMPs) codes.   It is anticipated that additional codes will be needed and added as the program evolves.

APPROVAL OF THE Non Point Source Codes List:

Signatory - Brian Burch, Data Center Manager, Chesapeake Bay Program Office

Signatory - Jen Gumert, Non Point Source Best Management Practice Technical Chair, PA DEP

Table of Contents

1   Description

This document provides a common reference point for the codes tables used in the Chesapeake Bay Non Point Source Best Management Practices (NPS BMP) XML Exchange. The document is organized as follows:

1. A section of definitions and terminology found within this document.
2. A section that provides summary list of codes for NPS BMPs.
3. A section that provides input section for each code table identified.

Additionally, some of these codes will be identified as defaults when creating NPS BMP records.

2   Definitions and Terminology

Term	Definition
(R)	Required.
Code	The column representing the actual code, which will be used in the source BMP applications. It is at the users discretion on the code values to be used. The user must provide a value. One caveat, codes must be unique within a table.
Identifier Code List	The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.
CBPO	Chesapeake Bay Program Office
BMP	Best Management Practices
NPS	Non Point Source

3   Code Tables Summary

Code Table	Description
Agency Codes	The code that represents a federal, state, or local agency.
Binary Object Types	Included in the Node Document object. Describes the general type of the document object (XML, ASCII, ZIP, etc.). Either the object itself must be provided or the URL. Where the object itself is provided, the file name, type and content elements must be provided.
Coordinate Data Source Codes	The code that represents the party responsible for providing the coordinates of the geographic entity. Derived from EDR latitude/longitude data standard.
County Codes	The FIPS code that represents the city or county.
Data Source Access Method Codes	The code describing the method by which the data set may be accessed.

Code Table	Description
Data Source Names	The name by which the data source is commonly known and the internet address at which the data source is located. Required when the data source access method is "NODE", "FTP", or "DOC." For node based data sources, this data element will provide the location at which the relevant node's web services can be identified as the first step in accessing the data itself.
Electronic Address Type Names	The name that describes the electronic address type.
BMP Event Status Codes	The target or event code representing the current status of a practice milestone.
Federal Hydrologic Eight Digit Unit Codes	A federal standardized code that identifies the Hydrologic Unit at the fourth order.
Federal Hydrologic Ten Digit Unit Codes	A federal standardized code that identifies the Hydrologic Unit at the fifth order.
Federal Hydrologic Twelve Digit Unit Codes	A federal standardized code that identifies the Hydrologic Unit at the sixth order.
Financial Measure Unit Codes	The code that represents the unit for measuring the item. If the Financial Measure Value is entered, the measure unit elements are mandated.
BMP Funding Source Codes	The code that represents the source of funding for the measured item. If the Financial Measure Value is entered, this element is mandated.
Geographic Reference Point Codes	The code that represents the place for which the geographic coordinates were established. If Horizontal Data Collection Method is entered, then the Reference Point Code should be entered.
Geometric Type Codes	The code that represents the geometric feature type used to represent the geometric entities.
Horizontal Accuracy Measure Unit Codes	The code that represents the unit for measuring the item.
Horizontal Reference Datum Codes	The code that represents the reference datum used in the determination of the horizontal coordinate pairs.
BMP Land Use Class Code	Indicates the classification system of the Land Use Codes referenced. CBPO will default to NLCD01 codes only.
BMP Land Use Code	The land use codes of the land use classification system used.
BMP Component Measure Unit Codes	The code that represents the unit for measuring the item. If the NPS BMP Component is entered, the measure unit elements for component are mandated. If no component is entered, the measure unit elements are mandated at the NPS BMP level.
BMP Component Names	Name of the Non Point Source Best Management Practice Component.
BMP Component Name Types	Type of NPS BMP Component Name.

Code Table	Description
BMP Measure Unit Codes	The code that represents the unit for measuring the item. If the NPS BMP is entered, the measure unit elements for the BMP are mandated
BMP Names	Name of the Non Point Source Best Management Practice.
BMP Name Type Codes	Code indicating if the NPS BMP Name type is the State or Federal Name.
BMP Type Codes	Code for the type of Non Point Source Best Management Practice.
NRCS Practice Codes	National Resource Conservation System Practice Code.
State Codes	A postal code designator used to identify a principal administrative subdivision of the United States, Canada or Mexico.
Telephone Number Type Names	The name that describes the telephone number type.
Tribal Codes	A code that represents American Indian Tribes and Alaskan native entities.
Verification Method Identifier Codes	The code that represents the process used to verify the coordinates of the geometric feature.
Vertical Collection Method Identifier Codes	The identification number or code assigned by the method publisher.
Vertical Measure Unit Codes	The code that represents the unit for measuring the item. Required if vertical measure value is provided.
Vertical Reference Datum Codes	The code that represents the reference datum used in the determination of the vertical coordinates.

4   Code Input

4.1   Agency Codes

Description: List of all codes that represents a federal, state, or local agency.

List of column definitions:
1) Code – Unique code to be supplied by the user. Includes State FIPS code and user's unique code (R).
2) Name – The detailed description of the agency (R).
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Name	Code List Identifier
51199	Virginia Department of Conservation and Recreation	
51440	Virginia Department of Environmental Quality	
24510	Maryland Department of Environment	
24998	Maryland Department of Natural Resources	
24999	Maryland Department of Agriculture	

Code	Name	Code List Identifier
42035	Pennsylvania Department of Environmental Protection	
54999	West Virginia Department of Environmental Protection	
10040	Delaware Department of Natural Resources and Environmental Control	
11001	District of Columbia	

4.2   Binary Object Types

Description: Describes the general type of the document object.
List of column definitions:

1) Code – Unique code to be supplied by the user.
2) Description – Description of the code. User may alter this value.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Description	Code List Identifier
ASCII	Flat ASCII File	
DBF	DBASE File	
DGN	MicroStation DGN File	
DOC	WORD Document	
DWG	AutoCad Drawing File	
DXF	CAD Exchange File	
E00	ESRI Export	
EXL	Excel Spreadsheet	
GIF	Image/GIF	
HTML	Hyper Text Markup Language	
JPG	Image/Jpeg	
PDF	Adobe PDF	
SHP	ESRI Shapefile	
SID	MrSid	
TIF	Image/TIF	
TXT	Flat Text	
VSD	Visio Diagram	
WPD	WordPerfect Document	
XML	Extensible Markup Language	
ZIP	Zipped File	
ZIPALT	Zipped File with alternate extension	

4.3 BMP Event Status Codes (REF_STATUS)

Description: Target or event code representing the current status of a practice milestone.   Default value is 'IMP'.

List of column definitions:
1) Code – Unique code to be supplied by the user (R).
2) Description – Description of the Code (R).
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Description	Code List Identifier
EXP	Exceeded or out of life span	
IMP	Implemented	
IMPCC	Implemented with verification by NRCS or Conservation Corps team	
IMPFD	Implemented with verification by Federal agency	
IMPLO	Implement with verification by locality or agency partner	
IMPST	Implemented with verification by State agency	
PLAN	Planned	
RET	Retired or decommissioned	
INST	Installed	
INSP	Inspected	
MANT	Maintained	

4.4 BMP Funding Source Codes (REF_FUNDING_SOURCE_CODES)

Description: Represents the source of funding for the measured item.   These values will initially be an integrated and merged set of values determined by the CBPO, and the three states.

List of column definitions:
1) Code – Unique code to be supplied by the user.
2) Description - Description of the code.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes

Code	Description	Code List Identifier
319	EPA 319	
AGR	Agrilink	
BAY	EPA Bay States	
CCD	Public CCD	

Code	Description	Code List Identifier
319	EPA 319	
CREP	State & USDA FSA Conservation Reserve Enhancement Program	
CRP	USDA FSA Conservation Reserve Program	
EQIP	USDA NRCS Environmental Quality Incentives Program	
LOC	Local Funding	
NONG	Non-Government Funding	
SCCNM	SCCNM G&L	
STATE	State Program Funding	

4.5 BMP Land Use Class Code (REF_LAND_USE_CLASS)

Description: Classification system for land-use or land-cover being used. Required only if a land-use or land-cover code is referenced.

List of column definitions:
1) Class Code – Code defining a standard land use or land cover classification system.
2) Description – Name of the classification system.
3) Code List Identifier – Location of land use or land cover code lists for referenced classification systems.

Class Code	Description	Code List Identifier
ANDER	Anderson	http://www.state.nj.us/dep/gis/digidownload/metadata/lulc95/anderson.html
GAP	USGS Gap Analysis	http://www.consbio.org/pnw_assess/LandStewardship.htm
MARESAC	Mid-Atlantic Regional Earth Science Applications Center	http://www.geog.umd.edu/resac/pdf/goetz_etal_asprs.pdf
NWI	USF&WS National Wetlands Inventory	http://www.fws.gov/nwi/MapCodesLegend.pdf
NLCD92	National Land Cover Dataset 1992	http://landcover.usgs.gov/classes.php
NLCD01	National Land Cover Dataset 2001	http://landcover.usgs.gov/classes.php
NEIENSB	Codes specific to BMP reporting	Codes listed in this document.

4.6 BMP Land Use Code (REF_LAND_USE)

Description: Code defining the land use or land cover. Required only when a land use or land cover classification system is referenced. When Class Code is referenced the Class Code Lists Identifier cites the source of land use code descriptions.

List of column definitions:
1) Code – land use or land cover code of the referenced classification system.
2) Description - Description of the code.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

LU Code	Description	Code List Identifier
11	Open Water	NLCD01
12	Perennial Ice/Snow	NLCD01
21	Low Intensity Residential	NLCD01
22	High Intensity Residential	NLCD01
23	Commercial/Industrial/Transportation	NLCD01
24	Pervious Urban without CSO	NEIENSB
25	Impervious Urban without CSO	NEIENSB
26	Pervious & Impervious with CSO	NEIENSB
31	Bare Rock/Sand/Clay	NLCD01
32	Quarries/Strip Mines/Gravel Pits	NLCD01
33	Transitional	NLCD01
41	Deciduous Forest	NLCD01
42	Evergreen Forest	NLCD01
43	Mixed Forest	NLCD01
51	Shrubland	NLCD01
61	Orchards/Vineyards/Other	NLCD01
71	Grasslands/Herbaceous	NLCD01
81	Pasture/Hay	NLCD01
82	Row Crops	NLCD01
83	Small Grains	NLCD01
84	Fallow	NLCD01
85	Urban/Recreational Grasses	NLCD01
91	Woody Wetlands	NLCD01
92	Emergent Herbaceous Wetlands	NLCD01
Agric	Agricultural	NEIENSB
HayAl	Hay+Alfalfa	NEIENSB
Past	Pasture	NEIENSB
RowHa	Row+Hay	NEIENSB
Urban	Urban	NEIENSB
cid	Impervious in CSO	NEIENSB
cpd	Pervious in CSO	NEIENSB
CSO	Combined Sewer Overflow	NEIENSB
Nurs	Nursery	NEIENSB

LU Code	Description	Code List Identifier
Alf	Alfalfa	NEIENSB
RegUrb	Regulated Urban	NEIENSB
rpd	Regulated Pervious Urban	NEIENSB
rid	Regulated Impervious Urban	NEIENSB
UnRegUrb	Non-Regulated Urban	NEIENSB
npd	Non-Regulated Pervious Urban	NEIENSB
nid	Non-Regulated Impervious Urban	NEIENSB
RegUrbWCSS	Regulated Urban with CSO	NEIENSB
RegPUWCSS	Regulated Pervious Urban with CSO	NEIENSB
RegIUWCSS	Regulated Impervious Urban with CSO	NEIENSB
UnRegUrbWCSS	Non-regulated Urban with CSO	NEIENSB
UnRegPUWCSS	Non-regulated Pervious Urban with CSO	NEIENSB
UnRegIUWCSS	Non-regulated Impervious Urban with CSO	NEIENSB
Septic	Septic	NEIENSB
Afo	Animal Feeding Operations	NEIENSB
Cafo	Confined Animal Feeding Operations	NEIENSB
Afocafo	Animal Operations	NEIENSB

BMP & BMP Component Measure Unit Codes (**REF_BMP_MEASURE_UNIT, REF_BMP_COMP_MEASURE_UNIT**)

4.7

Description: The unit of measure code for the measured NPS BMP value. These values will be inserted into the *Units of Measure* Codes Table

List of column definitions:
1) Code – Unique code to be supplied by the user.
2) Name - Name of the unit represented by the code. User may alter this value.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Name	Code List Identifier
ACRE	Acres	
ACRE-FEET	Acre-Feet	
CENT	Centimeters	
COUNT	Count	
FEET	Feet	
FT^SQ	Square Feet	
FT^CU	Cubic Feet	
GALS	Gallons	
HA	Hectares	
IN	Inches	

Code	Name	Code List Identifier
KM	Kilometers	
LBS	Pounds	
MILES	Miles	
MIN	Minutes	
MONTHS	Months	
MTR	Meters	
NA	Unitless Numeric Value	
SEC	Seconds	
THOUS	Thousand Feet	
TONS	Tons	
TPAY	Tons Per Acre Per Year	
TPY	Tons Per Year	
YEARS	Years	

4.8   BMP and BMP Component Names
(REF_BMP_NAME + REF_BMP_NAME_TYPE, REF_BMP_COMPONENT_NAME + REF_BMP_COMPONENT_NAME_TYPE)
Description: Names used to describe the NPS BMPs and BMP Components

List of column definitions:
1) Name – Name of the NPS BMPs (R).
2) BMP and/or Component – Specifies whether Name is a valid BMP, BMP Component, or may be used for either.
   a. Please note that all BMPs should be submitted with a BMP Type of FED (federally-funded and/or implemented) or ST (state funded and/or implemented).

Code List Identifier – The table below lists practices (NPS BMP Names) that are currently being reported. A full list of valid FEDERAL BMPs can be found at: http://www.nrcs.usda.gov/Technical/Standards/nhcp.html.

Name	BMP and/or Component
Above Ground, Multi-Outlet Pipeline	BMP & BMP Component
Access Control	BMP & BMP Component
Access Road	BMP & BMP Component
Ag Shoreline Management	BMP & BMP Component
Ag Shoreline Non-Vegetated	BMP & BMP Component
Ag Shoreline Vegetated	BMP & BMP Component
Agrichemical Handling Facility	BMP & BMP Component
Agrichemical Mixing Facility	BMP & BMP Component
Agricultural Chemical & Fertilizer Handling Facility	BMP Only
Agricultural Energy Management Plan, Headquarters - Applied	BMP & BMP Component

Agricultural Energy Management Plan, Headquarters - Written	BMP & BMP Component
Agricultural Secondary Containment Facility	BMP & BMP Component
Air Filtration and Scrubbing	BMP & BMP Component
Alley Cropping	BMP & BMP Component
Alternative Crop/Switchgrass RI	BMP & BMP Component
Alternative Crops	BMP & BMP Component
Alternative Water System	BMP & BMP Component
Alum treatment of Poultry Litter	BMP & BMP Component
Amendments for the Treatment of Agricultural Waste	BMP & BMP Component
Anaerobic Digester	BMP & BMP Component
Anaerobic Digester, Controlled Temperature	BMP & BMP Component
Anaerobic Digester, Controlled Temperature	BMP & BMP Component
Anaerobic Digestor	BMP & BMP Component
Anaerobic Digestor, Ambient Temperature	BMP & BMP Component
Animal Compost Structure RI	BMP & BMP Component
Animal Mortality Facility	BMP & BMP Component
Animal Trails and Walkways	BMP & BMP Component
Animal Waste Management Systems (All Types)	BMP & BMP Component
Anionic Polyacrylamide (PAM) Application	BMP & BMP Component
Apply nutrients no more than 30 days prior to planned planting date	BMP & BMP Component
Apply phosphorus fertilizer below soil surface	BMP & BMP Component
Aquaculture Ponds	BMP & BMP Component
Aquatic Organism Passage	BMP & BMP Component
Aquatic Vegetation Planting	BMP & BMP Component
Atmospheric Resource Quality Management	BMP & BMP Component
Barnyard Clean Water Diversion RI	BMP & BMP Component
Barnyard Runoff Controls	BMP & BMP Component
Barnyard Runoff Management	BMP & BMP Component
Basin for Dredged Material	BMP & BMP Component
BaySaver	BMP & BMP Component
Bedding	BMP & BMP Component
Biofiltration	BMP & BMP Component
Biological suppression and other non-chemical techniques to manage brush, weeds and invasive species	BMP & BMP Component
Biological suppression and other non-chemical techniques to manage herbaceous weeds invasive species	BMP & BMP Component
Bio-Reactor Carbon Filter	BMP & BMP Component
Bioretention	BMP & BMP Component
Bioswale	BMP & BMP Component
Bivalve Aquaculture Gear and Biofouling Control	BMP & BMP Component
Brush Management	BMP & BMP Component
Buffer Stripcropping	BMP Only

Buffer Stripcropping/Wildlife Option	BMP Only
Carbon Sequestration/Alternative Crops	BMP & BMP Component
Channel Bank Vegetation	BMP & BMP Component
Channel Bed Stabilization	BMP & BMP Component
Channel Bed Stabilization	BMP & BMP Component
Channel Stabilization	BMP & BMP Component
Chemical Handling Facility	BMP & BMP Component
Cisterns & Rain Barrels	BMP & BMP Component
Clearing and Snagging	BMP & BMP Component
Closure of Waste Impoundments	BMP & BMP Component
Combustion System Improvement	BMP & BMP Component
Commodity Cover Crop- Early	BMP & BMP Component
Commodity Cover Crop- Standard	BMP & BMP Component
Composter Facilities	BMP & BMP Component
Composting Facility	BMP & BMP Component
Comprehensive Air Quality Management Plan - Written	BMP & BMP Component
Comprehensive Nutrient Management Plan	BMP & BMP Component
Comprehensive Nutrient Management Plan - Applied	BMP & BMP Component
Comprehensive Nutrient Management Plan - Written	BMP & BMP Component
Comprehensive Nutrient Mgt Plan	BMP & BMP Component
Concrete pads	BMP & BMP Component
Confined Feeding Operation	BMP & BMP Component
Conifer Crop Tree Release	BMP & BMP Component
Conservation Completion Incentive First Year	BMP & BMP Component
Conservation Completion Incentive Second Year	BMP & BMP Component
Conservation Cover	BMP & BMP Component
Conservation Crop Rotation	BMP & BMP Component
Conservation Plan Supporting Organic Transition - Written	BMP & BMP Component
Conservation Plans	BMP & BMP Component
Conservation Plans/SCQWP	BMP & BMP Component
Conservation Plans/SCWQP	BMP & BMP Component
Conservation Tillage	BMP & BMP Component
Constructed Wetland	BMP & BMP Component
Constructed Wetland Septic	BMP & BMP Component
Constructed Wetland Elevated Mound	BMP & BMP Component
Constructed Wetland Shallow Pressure	BMP & BMP Component
Continuous cover crops	BMP & BMP Component
Continuous no till with high residue	BMP & BMP Component
Continuous No-Till	BMP & BMP Component
Continuous No-Till System	BMP & BMP Component
Contour Buffer Strips	BMP & BMP Component

Contour Farming	BMP & BMP Component
Contour Orchard and Other Fruit Area	BMP & BMP Component
Contour Orchard and Other Perennial Crops	BMP & BMP Component
Controlled traffic system	BMP & BMP Component
Conversion of cropped land to grass-based agriculture	BMP & BMP Component
Conversion of cropped land to grass-based agriculture	BMP & BMP Component
Conversion of cropped land to grass-based agriculture-old	BMP & BMP Component
Conversion to Hayland RI	BMP & BMP Component
Conversion to Pasture RI	BMP & BMP Component
Cover Crop	BMP & BMP Component
Cover Crops	BMP & BMP Component
Cover Crops - Early Planted Rye	BMP & BMP Component
Cover Crops - Early Planting	BMP & BMP Component
Cover Crops - Harvestable	BMP & BMP Component
Cover Crops - Legume	BMP & BMP Component
Cover Crops - Rye	BMP & BMP Component
Cover Crops - Wheat	BMP & BMP Component
Cover Crops- Early Planting	BMP & BMP Component
Creating forest openings to improve hardwood stands	BMP & BMP Component
CREP Buffer Length Recording Practice	BMP Only
CREP Field Wind Breaks	BMP & BMP Component
CREP Grass Buffer	BMP & BMP Component
CREP Riparian 100' Wide and Wider Buffer Bonus	BMP Only
CREP Riparian Forest Buffer	BMP & BMP Component
CREP Riparian Forest Buffer Planting	BMP Only
CREP Shallow Pond	BMP & BMP Component
CREP Wetland Restoration	BMP & BMP Component
CREP Wetland Restoration Bonus	BMP Only
CREP Wildlife Habitat	BMP & BMP Component
CREP Wildlife Habitat Buffer Rent	BMP Only
Critical Area Planting	BMP & BMP Component
Crop Technology Bundle #2	BMP & BMP Component
Crop Technology Bundle #6 (Improves nutrient and pesticide application techniques and widen buffers)	BMP & BMP Component
Cropland Irrigation Management	BMP & BMP Component
Cross Slope Farming	BMP & BMP Component
Cross Wind Ridges	BMP & BMP Component
Cross Wind Trap Strips	BMP & BMP Component
CSO Separation	BMP & BMP Component
D&G Road - E&S Control and Outlets	BMP & BMP Component
D&G Road - Outlets Only	BMP & BMP Component
D&G Road - Surface Aggragate and Rasied Roadbed	BMP & BMP Component

D&G Road - Surface Aggregate and Raised Roadbed	BMP & BMP Component
Dairy Manure Incorporation	BMP & BMP Component
Dam	BMP & BMP Component
Dam, Diversion	BMP & BMP Component
Dead Bird Composting Facility	BMP & BMP Component
Decision Agriculture	BMP & BMP Component
Decision/Precision Agriculture	BMP & BMP Component
Deep Tillage	BMP & BMP Component
Dike	BMP & BMP Component
Disconnection of Illicit Discharges	BMP & BMP Component
Disconnection of Rooftop Runoff	BMP & BMP Component
Diversion	BMP & BMP Component
Drainage Water Management	BMP & BMP Component
Dry Detention Ponds	BMP & BMP Component
Dry Detention Ponds & Hydrodynamic Structures	BMP & BMP Component
Dry Extended Detention Ponds	BMP & BMP Component
Dry Hydrant	BMP & BMP Component
Dry Swale	BMP & BMP Component
Dry Waste Storage Structure RI	BMP & BMP Component
Dry Well	BMP & BMP Component
Dust Control from Animal Activity on Open Lot Surfaces	BMP & BMP Component
Dust Control on Unpaved Roads and Surfaces	BMP & BMP Component
Early Successional Habitat Development/Management	BMP & BMP Component
Education	BMP & BMP Component
Engineering Design and Assistance	BMP & BMP Component
Enhance habitat on expired CRP acres or acres with perennial vegetated cover managed as hayland	BMP & BMP Component
Enhanced Nutrient Management	BMP & BMP Component
Enhancement - Air Resource Management	BMP & BMP Component
Enhancement - Energy Management	BMP & BMP Component
Enhancement - Grazing Management	BMP & BMP Component
Enhancement - Habitat Management	BMP & BMP Component
Enhancement - Nutrient Management	BMP & BMP Component
Enhancement - Pest Management	BMP & BMP Component
Enhancement - Soil Management	BMP & BMP Component
Enhancement - Water Management	BMP & BMP Component
Equitable Relief Payment	BMP & BMP Component
Erosion & Sediment Control	BMP & BMP Component
Erosion and Sediment Control Level 1	BMP & BMP Component
Erosion and Sediment Control Level 2	BMP & BMP Component
Erosion and Sediment Control Level 3	BMP & BMP Component
Establish pollinator and/or beneficial insect habitat	BMP & BMP Component

Establish pollinator habitat	BMP & BMP Component
Establishment of permanent introduced grasses and legumes	BMP & BMP Component
Establishment of permanent native grasses	BMP & BMP Component
Establishment of permanent vegetative cover (contour grass strips), non-easement	BMP & BMP Component
Extend existing filter strips or riparian herbaceous cover for WQ protection and wildlife habitat	BMP & BMP Component
Extended Detention Wetland	BMP & BMP Component
Extending riparian forest buffers for water quality protection and wildlife habitat	BMP & BMP Component
Extension of CREP Watering System	BMP & BMP Component
Farm Road or Heavy animal Travel lane Stabilization	BMP Only
Farmable Wetland Pilot Buffer	BMP & BMP Component
Farmable Wetland Pilot Wetland	BMP & BMP Component
FARMSTEAD ENERGY IMPROVEMENT	BMP & BMP Component
Farmstead Energy Improvement	BMP & BMP Component
Feed Management	BMP & BMP Component
Fence	BMP & BMP Component
Fencing	BMP & BMP Component
Fescue Conversion/Wildlife Option	BMP Only
Field Border	BMP & BMP Component
Field Windbreak	BMP & BMP Component
Field windbreak establishment, non-easement	BMP & BMP Component
Filter Strip	BMP & BMP Component
Filter strips	BMP & BMP Component
Filter Strips/Wildlife Option	BMP & BMP Component
Filtering Practices	BMP & BMP Component
Filtration	BMP & BMP Component
Firebreak	BMP & BMP Component
Fish Passage	BMP & BMP Component
Fish Raceway or Tank	BMP & BMP Component
Fishpond Management	BMP & BMP Component
Floodplain Restoration	BMP & BMP Component
Forage and Biomas Planting	BMP & BMP Component
Forage and Biomas Planting	BMP & BMP Component
Forage and Biomass Planting	BMP & BMP Component
Forage Harvest Management	BMP & BMP Component
Forest Buffer on Watercourse RI	BMP & BMP Component
Forest Buffers	BMP & BMP Component
Forest Bundle #2	BMP & BMP Component
Forest Conservation	BMP & BMP Component
Forest Harvesting Practices	BMP & BMP Component

Forest Management Plan - Applied	BMP & BMP Component
Forest Management Plan - Written	BMP & BMP Component
Forest Management Plan Implementation	BMP & BMP Component
Forest Nutrient Exclusion Area on Watercourse Narrow RI	BMP & BMP Component
Forest Slash Treatment	BMP & BMP Component
Forest Stand Improvement	BMP & BMP Component
Forest stand improvement for habitat and soil quality	BMP & BMP Component
Forest Stand Improvement for Soil Quality	BMP & BMP Component
Forest Stand Improvement for Wildfire Reduction	BMP & BMP Component
Forest Stand Improvement, Prescribed burning	BMP & BMP Component
Forest Trails and Landings	BMP & BMP Component
Forest Wildlife Structures	BMP & BMP Component
Fuel Break	BMP & BMP Component
Fuel Storage Construction	BMP & BMP Component
Fuel Storage Systems	BMP & BMP Component
Fuel Storage Treatment	BMP Only
Fuel Tank Removal	BMP & BMP Component
Fuel use reduction for field operations	BMP & BMP Component
GPS, targeted spray application (SmartSprayer), or other chemical application electronic control tec	BMP & BMP Component
Grade Stabilization Structure	BMP & BMP Component
Grass Buffer on Watercourse RI	BMP & BMP Component
Grass Buffer Strip	BMP & BMP Component
Grass Buffers	BMP & BMP Component
Grass Filter Strip Rent	BMP Only
Grass Filter Strips	BMP & BMP Component
Grass Nutrient Exclusion Area on Watercourse Narrow RI	BMP & BMP Component
Grass waterways, non-easement	BMP & BMP Component
Grassed Waterway	BMP & BMP Component
Grazing Land Mechanical Treatment	BMP & BMP Component
Grazing Land Protection	BMP & BMP Component
Grazing Management Plan - Written	BMP & BMP Component
Grazing management to improve wildlife habitat	BMP & BMP Component
Grazing System	BMP & BMP Component
Green Parking Lot	BMP & BMP Component
Green Roof	BMP & BMP Component
Green Roofs	BMP & BMP Component
Habitat Buffer	BMP & BMP Component
Habitat buffer for upland birds	BMP & BMP Component
Habitat Development for Beneficial Insects for Pest Management	BMP & BMP Component
Hardened Stream Access	BMP & BMP Component
Hardwood Crop Tree Release	BMP & BMP Component

Hardwood tree planting	BMP & BMP Component
Harvest hay in a manner that allows wildlife to flush and escape	BMP & BMP Component
Harvestable Cover Crop	BMP & BMP Component
Harvesting crops using a stripper header	BMP & BMP Component
Heavy Use Area Protection	BMP & BMP Component
Hedgerow Planting	BMP & BMP Component
Herbaceous Weed Control	BMP & BMP Component
Herbaceous Weed Control	BMP & BMP Component
Herbaceous Wind Barriers	BMP & BMP Component
High level Integrated Pest Management to reduce pesticide environmental risk	BMP & BMP Component
High Residue Tillage Management	BMP & BMP Component
Hillside Ditch	BMP & BMP Component
Horse Pasture Management	BMP & BMP Component
Horse Pasture Mangement	BMP & BMP Component
Hydrodynamic Structures	BMP & BMP Component
Idle Land/Wildlife Option	BMP Only
IFAS	BMP & BMP Component
IFAS Elevated Mound	BMP & BMP Component
IFAS Shallow Pressure	BMP & BMP Component
IMF	BMP & BMP Component
IMF Elevated Mound	BMP & BMP Component
IMF Shallow Pressure	BMP & BMP Component
Improve the plant diversity and structure of non-cropped areas for wildlife food and habitat	BMP & BMP Component
Incorporate native grasses and/or legumes into 15% or more of the forage base	BMP & BMP Component
Infiltration Basin	BMP & BMP Component
Infiltration Practices	BMP & BMP Component
Infiltration Trench	BMP & BMP Component
Integrated Pest Management	BMP & BMP Component
Integrated Pest Management (IPM)	BMP & BMP Component
Intensive Management of Rotational Grazing	BMP & BMP Component
Intensive rotational grazing	BMP & BMP Component
Intercropping to improve soil quality and increase biodiversity	BMP & BMP Component
Irrigation Canal or Lateral	BMP & BMP Component
Irrigation Ditch Lining	BMP & BMP Component
Irrigation Field Ditch	BMP & BMP Component
Irrigation Land Leveling	BMP & BMP Component
Irrigation Pipeline	BMP & BMP Component
Irrigation Reservoir	BMP & BMP Component
Irrigation System, Microirrigation	BMP & BMP Component
Irrigation System, Sprinkler	BMP & BMP Component

Irrigation System, Surface and Subsurface	BMP & BMP Component
Irrigation System, Tailwater Recovery	BMP & BMP Component
Irrigation Water Conveyance, Pipeline, Aluminum Tubing	BMP & BMP Component
Irrigation Water Conveyance, Pipeline, Asbestos-Cement	BMP & BMP Component
Irrigation Water Conveyance, Pipeline, High-Pressure, Underground, Plastic	BMP & BMP Component
Irrigation Water Conveyance, Pipeline, High-Pressure, Underground, Plastic	BMP & BMP Component
Irrigation Water Conveyance, Pipeline, Low-Pressure, Underground, Plastic	BMP & BMP Component
Irrigation Water Management	BMP & BMP Component
Irrigation Water Management Plan - Applied	BMP & BMP Component
Irrigation Water Management Plan - Written	BMP & BMP Component
Irrigation Water Recycling	BMP & BMP Component
Karst Sinkhole Treatment	BMP & BMP Component
Land application of only treated manure	BMP & BMP Component
Land Clearing	BMP & BMP Component
Land Grading	BMP & BMP Component
Land Reclamation, Abandoned Mined Land	BMP & BMP Component
Land Reclamation, Currently Mined Land	BMP & BMP Component
Land Reclamation, Landslide Treatment	BMP & BMP Component
Land Reclamation, Toxic Discharge Control	BMP & BMP Component
Land Retirement	BMP & BMP Component
Land Smoothing	BMP & BMP Component
Late Winter Split Application of N on Small Grains	BMP Only
Leave standing grain crops un-harvested to benefit wildlife	BMP & BMP Component
Legume Cover Crop	BMP Only
Lined Waterway or Outlet	BMP & BMP Component
Livestock Exclusion with Riparian Buffer	BMP & BMP Component
Livestock Pipeline	BMP & BMP Component
Livestock Shade Structure	BMP & BMP Component
Livestock Use Area Protection	BMP & BMP Component
Loafing Lot Management System	BMP & BMP Component
Locally grown and marketed farm products	BMP & BMP Component
Maintenance of Stream Exclusion Fencing	BMP Only
Managing Calving to Coincide with Forage Availability	BMP & BMP Component
Managing livestock access to water bodies/courses	BMP & BMP Component
Manure Application to Corn Using Pre-app. Nitrate Test	BMP Only
Manure Export	BMP & BMP Component
Manure Transport	BMP & BMP Component
Marginal pastureland wildlife habitat buffer	BMP & BMP Component
Marginal wetland buffer	BMP & BMP Component
Marsh Grass Planting	BMP & BMP Component
Micropool Extended Detention	BMP & BMP Component

Mine Shaft and Adit Closing	BMP & BMP Component
Mole Drain	BMP & BMP Component
Monitor key grazing areas to improve grazing management	BMP & BMP Component
Monitoring Well	BMP & BMP Component
MS4 Permit-Required Stormwater Retrofit	BMP & BMP Component
Mulching	BMP & BMP Component
Mulching for moisture conservation	BMP & BMP Component
Multiple Pond System	BMP & BMP Component
Multi-species Native Perennials for Biomass/Wildlife Habitat	BMP & BMP Component
Multi-Story Cropping	BMP & BMP Component
Multi-story cropping, sustainable management of nontimber forest plants	BMP & BMP Component
Municipal Landscaping	BMP & BMP Component
Narrow Forest Buffers	BMP & BMP Component
Narrow Grass Buffers	BMP & BMP Component
Nitrification inhibitors or urease inhibitors	BMP & BMP Component
Nitrogen stabilizers for air emissions control	BMP & BMP Component
Non-Chemical Pest Mgmt for Livestock	BMP & BMP Component
No-till	BMP & BMP Component
NSF 40	BMP & BMP Component
NSF 40 Elevated Mound	BMP & BMP Component
NSF 40 Shallow Pressure	BMP & BMP Component
Nursery Runoff Capture & Reuse	BMP & BMP Component
Nutrient Management	BMP & BMP Component
Nutrient Management	BMP & BMP Component
Nutrient Management on Alfalfa	BMP & BMP Component
Nutrient Management on Crop	BMP & BMP Component
Nutrient Management on Hay	BMP & BMP Component
Nutrient Management on Pasture	BMP & BMP Component
Nutrient Management on Specialty Crop	BMP & BMP Component
Nutrient Management on Urban	BMP & BMP Component
Nutrient Management Plan - Written	BMP & BMP Component
Obstruction Removal	BMP & BMP Component
On Farm Composting of Farm Organic Waste	BMP & BMP Component
On Farm Research and Demonstrations	BMP & BMP Component
On-Farm Equipment Efficiency Improvements	BMP & BMP Component
Open Channel	BMP & BMP Component
Organic Filter	BMP & BMP Component
Other Payment	BMP & BMP Component
Outfall Stabilization	BMP & BMP Component
Pasture & Hay Planting	BMP & BMP Component
Pasture and Hay Planting	BMP & BMP Component

Pasture Bundle #4	BMP & BMP Component
Pasture Grazing Bundle # 7 (Improves forage utilization)	BMP & BMP Component
Pasture Grazing Bundle #1	BMP & BMP Component
Patch Harvesting	BMP & BMP Component
Pathogen Management	BMP & BMP Component
Perimeter Sand Filter	BMP & BMP Component
Permanent Vegetative Cover on Critical Areas	BMP & BMP Component
Permanent Vegetative Cover on Cropland	BMP & BMP Component
Permanent Vegetative Cover on Cropland Wildlife Opt	BMP & BMP Component
Permanent wildlife (corridors), non-easement	BMP & BMP Component
Permanent wildlife habitat, non-easement	BMP & BMP Component
Permeable Pavement	BMP & BMP Component
Pest Management	BMP & BMP Component
Pet Waste Management	BMP & BMP Component
Pipeline	BMP & BMP Component
Planned Grazing System	BMP & BMP Component
Plant an annual grass-type cover crop that will scavenge residual nitrogen	BMP & BMP Component
Plant Tissue Testsing and Analysis to Improve Nitrogen Management	BMP & BMP Component
Plasticulture Irrigation Water Recycling System	BMP Only
Pocket Pond	BMP & BMP Component
Pocket Wetland	BMP & BMP Component
Pollinator Habitat	BMP & BMP Component
Pond	BMP & BMP Component
Pond Sealing or Lining, Bentonite Sealant	BMP & BMP Component
Pond Sealing or Lining, Compacted Clay Treatment	BMP & BMP Component
Pond Sealing or Lining, Flexible Membrane	BMP & BMP Component
Pond Sealing or Lining, Soil Dispersant	BMP & BMP Component
Pond/Wetland System	BMP & BMP Component
Porous Pavement	BMP & BMP Component
Poultry Litter Treatment	BMP & BMP Component
Poultry Manure Incorporation	BMP & BMP Component
Poultry Phytase	BMP & BMP Component
Precision application technology to apply nutrients	BMP & BMP Component
Precision Land Forming	BMP & BMP Component
Prescribed Burning	BMP & BMP Component
Prescribed Forestry	BMP & BMP Component
Prescribed Grazing	BMP & BMP Component
Proporietary Ex Situ Elevated Mound	BMP & BMP Component
Proprietary Ex Situ	BMP & BMP Component
Proprietary Ex Situ Shallow Pressure	BMP & BMP Component
Protection of cultural resources sites with conservation cover	BMP & BMP Component

Protective Cover for Specialty Crops	BMP & BMP Component
P-sorbing Materials	BMP & BMP Component
Public Sewer Connection	BMP Only
Public Sewer Connections	BMP & BMP Component
Pumping Plant	BMP & BMP Component
Rain Barrel/Cistern	BMP & BMP Component
Rain Garden	BMP & BMP Component
Range Planting	BMP & BMP Component
Rare and Declining Habitat	BMP & BMP Component
Record Keeping	BMP & BMP Component
Recreation Area Improvement	BMP & BMP Component
Recreation Land Grading and Shaping	BMP & BMP Component
Recycle 100% of farm lubricants	BMP & BMP Component
Reduce the concentration of nutrients imported on farm	BMP & BMP Component
Reduce the concentration of nutrients on livestock farms	BMP & BMP Component
Reduction of Impervious Surface	BMP & BMP Component
Reforestation of Erodible Crop and Pastureland	BMP & BMP Component
Regenerative Stormwater Conveyance	BMP & BMP Component
Relocation of Confined Feeding Operations	BMP Only
Renovation of a windbreak or shelter belt, or hedgerow for wildlife habitat	BMP & BMP Component
Replace burning of prunings and other crop residues with non-burning alternatives	BMP & BMP Component
Residue and Tillage Management, Mulch Till	BMP & BMP Component
Residue and Tillage Management, No-Till	BMP & BMP Component
Residue and Tillage Management, No-Till/Strip Till/Direct Seed	BMP & BMP Component
Residue and Tillage Management, Reduced Till	BMP & BMP Component
Residue and Tillage Management, Ridge Till	BMP & BMP Component
Residue Management -Direct Seed	BMP & BMP Component
Residue Management, Mulch Till	BMP & BMP Component
Residue Management, No-Till/Strip Till	BMP & BMP Component
Residue Management, Ridge Till	BMP & BMP Component
Residue Management, Seasonal	BMP & BMP Component
Resource-Conserving Crop Rotation	BMP & BMP Component
Restoration and Management of Rare and Declining Habitats	BMP & BMP Component
Restoration and Management of Rare or Declining Habitats	BMP & BMP Component
Retirement of Highly Erodible Land	BMP & BMP Component
Retrofit watering facility for wildlife escape	BMP & BMP Component
Retrofit watering facility for wildlife escape and enhanced access for bats and bird species	BMP & BMP Component
Riparian buffer	BMP & BMP Component
Riparian Buffer Rent	BMP Only
Riparian buffer, terrestrial and aquatic wildlife habitat	BMP & BMP Component

Riparian Forest Buffer	BMP & BMP Component
Riparian forest buffer, terrestrial and aquatic wildlife habitat	BMP & BMP Component
Riparian Herbaceous Cover	BMP & BMP Component
Riprap	BMP Component Only
River Bank Stabilization	BMP & BMP Component
RMF	BMP & BMP Component
RMF Elevated Mound	BMP & BMP Component
RMF Shallow Pressure	BMP & BMP Component
Road/Trail/Landing Closure and Treatment	BMP & BMP Component
Roadway Systems	BMP & BMP Component
Rock Barrier	BMP & BMP Component
Rock Weirs	BMP Component Only
Roof runoff management	BMP & BMP Component
Roof Runoff Structure	BMP & BMP Component
Roofs and Covers	BMP & BMP Component
Rotation of supplement and feeding areas	BMP & BMP Component
Rotational Grazing RI	BMP & BMP Component
Row Arrangement	BMP & BMP Component
Runoff Management System	BMP & BMP Component
SAFE - Grass--*	BMP & BMP Component
SAFE - Longleaf Pine	BMP & BMP Component
SAFE - Trees	BMP & BMP Component
Salinity and Sodic Soil Management	BMP & BMP Component
Seasonal High Tunnel System for Crops	BMP & BMP Component
Sediment Basin	BMP & BMP Component
Sediment Control Pond	BMP & BMP Component
Sediment Retention, Erosion or Water Control Structures	BMP Only
Septic Connections	BMP & BMP Component
Septic Denitrification	BMP & BMP Component
Septic Effluent Elevated Mound	BMP & BMP Component
Septic Effluent Shallow Pressure	BMP & BMP Component
Septic Install/Replacement	BMP & BMP Component
Septic Repairs	BMP & BMP Component
Septic Retention Structure	BMP Component Only
Septic Tank Advanced Treatment	BMP & BMP Component
Septic Tank Pumpout	BMP & BMP Component
Septic Tank System Repair	BMP & BMP Component
Septic Tank System Replacement	BMP Only
Shallow water areas for wildlife	BMP & BMP Component
Shallow Water Development and Management	BMP & BMP Component
Shallow water habitat	BMP & BMP Component

Shallow Wetland	BMP & BMP Component
Shellfish Aquaculture Management	BMP & BMP Component
Shelterbelt establishment, non-easement	BMP & BMP Component
Shoreline Erosion Control	BMP & BMP Component
Shoreline Stabilization	BMP Only
Sidedress Application of Nitrogen on Corn	BMP Only
Silvopasture Establishment	BMP & BMP Component
Silvopasture for wildlife habitat	BMP & BMP Component
Sinkhole and Sinkhole Area Treatment	BMP & BMP Component
Small Acreage Grazing System	BMP Only
Small Grain Cover Crop for Nutrient Management	BMP Only
Soil Analysis	BMP Component Only
Soil Decontamination	BMP & BMP Component
Soil Test in Support of Nutrient Management Plan	BMP Only
Solar powered electric fence charging systems	BMP & BMP Component
Solid/Liquid Waste Separation Facility	BMP & BMP Component
Spill Prevention, Control and Countermeasure (SPCC) Plan - Written	BMP & BMP Component
Split nitrogen applications 50% after crop/pasture emergence/green up	BMP & BMP Component
Spoil Spreading	BMP & BMP Component
Spring Development	BMP & BMP Component
Sprinkler System	BMP & BMP Component
Stockpiling Forages to Extend the Grazing Season	BMP & BMP Component
Stormwater Flow Reduction Structures	BMP & BMP Component
Stormwater Planter	BMP & BMP Component
Stormwater Retention Pond	BMP Only
Stormwater Runoff Control	BMP & BMP Component
Stormwater Runoff Control	BMP & BMP Component
Stream Buffer	BMP & BMP Component
Stream Channel Stabilization	BMP & BMP Component
Stream Crossing	BMP & BMP Component
Stream Crossing-old	BMP & BMP Component
Stream Exclusion With Grazing Land Management	BMP & BMP Component
Stream Habitat Improvement and Management	BMP & BMP Component
Stream Improvement for Fish Habitat	BMP & BMP Component
Stream Protection - TMDL	BMP & BMP Component
Stream Restoration	BMP & BMP Component
Stream Restoration Ag	BMP & BMP Component
Stream Restoration Urban	BMP & BMP Component
Streambank and Shoreline Protection	BMP & BMP Component
Streambank Protection (Fencing)	BMP & BMP Component
Streambank Restoration	BMP & BMP Component

Streambank Stabilization	BMP & BMP Component
Street Sweeping	BMP & BMP Component
Stripcropping	BMP & BMP Component
Stripcropping, Field	BMP & BMP Component
Strip-Cropping, Field	BMP & BMP Component
Strip-Cropping, Wind	BMP & BMP Component
Structure for Water Control	BMP & BMP Component
Sub-Soiling	BMP & BMP Component
Subsurface Drain	BMP & BMP Component
Surface Drain, Field Ditch	BMP & BMP Component
Surface Drain, Main or Lateral	BMP & BMP Component
Surface Drainage, Field Ditch	BMP & BMP Component
Surface Drainage, Field Ditch	BMP & BMP Component
Surface Drainage, Main or Lateral	BMP & BMP Component
Surface Drainage, Main or Lateral	BMP & BMP Component
Surface Roughening	BMP & BMP Component
Surface Sand Filter	BMP & BMP Component
Surface Water Runoff Impoundment for Water Quality	BMP Only
Swine Phytase	BMP & BMP Component
SWM to MEP on New Development	BMP & BMP Component
TA Application	BMP & BMP Component
TA Check-Out	BMP & BMP Component
TA Design	BMP & BMP Component
TA Planning	BMP & BMP Component
Tank or Trough	BMP & BMP Component
Terrace	BMP & BMP Component
Trails and Walkways	BMP & BMP Component
Transition to Organic Cropping Systems	BMP & BMP Component
Transition to Organic Grazing Systems	BMP & BMP Component
Transition to Organic Production	BMP & BMP Component
Trash Removal	BMP & BMP Component
Tree Planting	BMP & BMP Component
Tree planting	BMP & BMP Component
Tree/Shrub Establishment	BMP & BMP Component
Tree/Shrub Pruning	BMP & BMP Component
Tree/Shrub Site Preparation	BMP & BMP Component
Underground Infiltration System	BMP & BMP Component
Underground Outlet	BMP & BMP Component
Underground Sand Filter	BMP & BMP Component
Upland Wildlife Habitat Management	BMP & BMP Component
Urban Filter Strip Runoff Reduction	BMP & BMP Component

Urban Filter Strip Storwater Treatment	BMP & BMP Component
Urban Forest Buffer	BMP & BMP Component
Urban Grass Buffer	BMP & BMP Component
Urban Infiltration Practices	BMP & BMP Component
Urban Nutrient Management	BMP & BMP Component
Urban Nutrient Management Plan	BMP & BMP Component
Urban Shoreline Management	BMP & BMP Component
Urban Shoreline Non-Vegetated	BMP & BMP Component
Urban Shoreline Vegetated	BMP & BMP Component
Urban stream restoration	BMP & BMP Component
Use deep rooted crops to breakup soil compaction	BMP & BMP Component
Use drift reducing nozzles, low pressures, lower boom height and adjuvants to reduce pesticide drift	BMP & BMP Component
Use of legume cover crops as a nitrogen source	BMP & BMP Component
Use of non-chemical methods to kill cover crops	BMP & BMP Component
Using N provided by legumes, animal manure and compost to supply 90 to 100% of the N needs	BMP & BMP Component
Vegetated Open Channels	BMP & BMP Component
Vegetated Roof Cover	BMP & BMP Component
Vegetated Roof Cover	BMP & BMP Component
Vegetated Treatment Area	BMP & BMP Component
Vegetative Barrier	BMP & BMP Component
Vegetative Cover	BMP & BMP Component
Vegetative cover, such as trees, that were already established	BMP & BMP Component
Vegetative Environmental Buffer	BMP & BMP Component
Vegetative Environmental Buffer Grass RI	BMP & BMP Component
Vegetative Environmental Buffer Trees RI	BMP & BMP Component
Vegetative Stabilization of Marsh Fringe Areas	BMP & BMP Component
Vegetative Waterway	BMP & BMP Component
Vertical Drain	BMP & BMP Component
Waste Control Facilities	BMP & BMP Component
Waste Control Facility	BMP & BMP Component
Waste Facility Closure	BMP & BMP Component
Waste Facility Cover	BMP & BMP Component
Waste Field Storage Area	BMP & BMP Component
Waste Management System	BMP & BMP Component
Waste Pumping Equipment	BMP & BMP Component
Waste Recycling	BMP & BMP Component
Waste Recycling	BMP & BMP Component
Waste Separation Facility	BMP & BMP Component
Waste Storage Facility	BMP & BMP Component
Waste Storage Pond	BMP & BMP Component

Waste Storage Structure	BMP & BMP Component
Waste Transfer	BMP & BMP Component
Waste Treatment	BMP & BMP Component
Waste Treatment - Beef	BMP & BMP Component
Waste Treatment - Dairy	BMP & BMP Component
Waste Treatment - Horse	BMP & BMP Component
Waste Treatment - Poultry	BMP & BMP Component
Waste Treatment - Swine	BMP & BMP Component
Waste Treatment - Turkey	BMP & BMP Component
Waste Treatment Lagoon	BMP & BMP Component
Waste Utilization	BMP & BMP Component
Wastewater Treatment Strip	BMP & BMP Component
Water and Sediment Control Basin	BMP & BMP Component
Water Control Structure	BMP & BMP Component
Water Control Structure RI	BMP & BMP Component
Water Conveyance Structures	BMP & BMP Component
Water Harvesting Catchment	BMP & BMP Component
Water Impoundment	BMP & BMP Component
Water Quality Inlet	BMP & BMP Component
Water Table Control Structures	BMP & BMP Component
Water Well	BMP & BMP Component
Water Well Decommissioning	BMP & BMP Component
Watercourse Access Control Grass RI	BMP & BMP Component
Watercourse Access Control Narrow Grass RI	BMP & BMP Component
Watercourse Access Control Narrow Trees Fence RI	BMP & BMP Component
Watercourse Access Control Narrow Trees Planted RI	BMP & BMP Component
Watercourse Access Control Trees Fence RI	BMP & BMP Component
Watercourse Access Control Trees Planted RI	BMP & BMP Component
Watering Facility	BMP & BMP Component
Watering Trough RI	BMP & BMP Component
Waterspreading	BMP & BMP Component
Well Decommissioning	BMP & BMP Component
Well Water Testing	BMP & BMP Component
Wet Extended Detention	BMP & BMP Component
Wet Pond	BMP & BMP Component
Wet Ponds & Wetlands	BMP & BMP Component
Wet Swale	BMP & BMP Component
Wetland and Buffer Restoration, Wetland Restoration	BMP & BMP Component
Wetland Buffer	BMP & BMP Component
Wetland Creation	BMP & BMP Component
Wetland Enhancement	BMP & BMP Component

Wetland Functional Gains - Enhanced	BMP & BMP Component
Wetland Functional Gains - Rehabilitated	BMP & BMP Component
Wetland Gains - Established	BMP & BMP Component
Wetland Gains - Reestablished	BMP & BMP Component
Wetland Protection - Long Term	BMP & BMP Component
Wetland Protection - Short Term	BMP & BMP Component
Wetland Restoration	BMP & BMP Component
Wetland Restoration	BMP & BMP Component
Wetland restoration, non-flood plain	BMP & BMP Component
Wetland Wildlife Habitat Management	BMP & BMP Component
Wildlife corridors	BMP & BMP Component
Wildlife food plot	BMP & BMP Component
Wildlife Friendly Fencing	BMP & BMP Component
Wildlife Watering Facility	BMP & BMP Component
Windbreak/Shelterbelt Establishment	BMP & BMP Component
Windbreak/Shelterbelt Renovation	BMP & BMP Component
Wooded Buffers	BMP & BMP Component
Woodland Buffer Filter Area	BMP & BMP Component
Woodland Erosion Stabilization	BMP & BMP Component
Woody Residue Treatment	BMP & BMP Component

4.9 BMP and BMP Component Name Type Codes
(REF_BMP_NAME_TYPE, REF_BMP_COMPONENT_NAME_TYPE)
Description: Code indicating if the NPS BMP's Name type is the State or Federal Name.
List of column definitions:
1) Code – Unique code to be supplied by the user (R).
2) Description – Description of the code (R).
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Description	Code List Identifier
ST	State Name	
FED	Federal Name	

4.10 BMP Type Codes
(REF_BMP_TYPE)
Description: Code for the type of Non Point Source Best management Practice.

List of column definitions:
1) Code – Code to be supplied by the user (R).
2) Description – Description of the code (R).

3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes

Code	Description	Code List Identifier
AGR	Agricultural	
FOR	Forest	
SEP	Septic	
STR	Stream Restoration	
URB	Urban	
WET	Wetlands	
WLD	Wildlife	

4.11 Coordinate Data Source Codes

Description: The code that represents the party responsible for providing the coordinates of the geographic entity. Non-government agencies may be included in these values. This list is not all inclusive, just examples.

List of column definitions:
1) Code – Unique code to be supplied by the user.
2) Name – Name of the party supplying the coordinate data.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Name	Code List Identifier
CCD	County Conservation District	
PADEP	Pennsylvania Dept of Environmental Protection	
MDE	Maryland Department of Environment	
MDA	Maryland Department of Agriculture	
VADEQ	Virginia Dept of Environmental Quality	
VADCR	Virginia Dept of Conservation and Recreation	

4.12 County Codes

Description: County FIPS Codes and Descriptions
List of column definitions:
1) Code – Unique code to be supplied by the user.
2) Name – County name.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Name	Code List Identifier
	Five-Character Federal FIPS Codes	http://www.itl.nist.gov/fipspubs/

4.13 Data Source Access Method Codes
(REF_DATA_SOURCE_ACCESS_METHOD)
Description: The code describing the method by which the data may be accessed. NODE indicates that the data is collected per a node request. Files placed on a node in anticipation of a request are documents. Non-node file transfers are either by FTP or some other (ADHOC) method.

List of column definitions:
1) Code – code indicating the method (R).
2) Description – Description of the data access method (R).
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Description	Code List Identifier
NODE	Node	
DOC	Document	
ADHOC	On Request	
FTP	Non-Node File Transfer	

4.14 Data Source Names
(REF_DATA_SOURCE_NAME)
Description: Describes the names by which the data sources are commonly known. This list is not all inclusive, just examples.

List of column definitions:
1) Name – The names by which the data sources are commonly known (R).
2) Location – The internet address at which the data source is located.

Name	Location
NRCS Toolkit	http://www.itc.nrcs.usda.gov/toolkit/checkin/Default.htm
Virginia NEIEN Node	https://node.deq.virginia.gov/xanode/services/CDXService

4.15 Electronic Address Type Names

Description: The name of the types of electronic addresses, as enumerated in SC_ElectronicAddress_v2.0.xsd

List of column definitions:
   1) Name – Name of the type of electronic address

Name
Email
Internet
Intranet
HTTP
FTP
Telnet

4.16 Federal Hydrologic Unit Four Digit Codes

Description: A standardized code that identifies the Federal Hydrologic Unit at the 4th Order. Due to the size of this table the entire codes set will not be included with this document.
List of column definitions:
   1) Code – Unique federal code to be supplied by the user.
   2) Description – Federal description of the code.
   3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

HUC Four Digit Code	Description	Code List Identifier
0207	Potomac	
0208	Lower Chesapeake	

4.17 Federal Hydrologic Unit Six Digit Codes

Description: A standardized code that identifies the Federal Hydrologic Unit at the 4th Order. Due to the size of this table the entire codes set will not be included with this document.
List of column definitions:
   1) Code – Unique federal code to be supplied by the user.
   2) Description – Federal description of the code.
   3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

HUC Six Digit Code	Description	Code List Identifier
020700	Potomac	
020801	Lower Chesapeake	

4.18 Federal Hydrologic Unit Eight Digit Codes

Description: A standardized code that identifies the Federal Hydrologic Unit at the 4th Order. Examples are represented here. Due to the size of this table the entire codes set will not be included with this document.
List of column definitions:
1) Code – Unique federal code to be supplied by the user.
2) Description – Federal description of the code.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

HUC Eight Digit Code	Description	Code List Identifier
02070011	Lower Potomac	
02080110	Tangier	
02080102	Great Wicomico-Piankatank	

4.19 Federal Hydrologic Unit Ten Digit Codes

Description: A standardized code that identifies the Federal Hydrologic Unit at the 5th Order. Examples are represented here. Due to the size of this table the entire codes set will not be included with this document.
List of column definitions:
1) Code – Unique federal code to be supplied by the user.
2) Description – Federal description of the code.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

HUC Ten Digit Code	Description	Code List Identifier
0207001103	Nanjemoy Creek-Potomac River	
0208011005	Lower Tangier Sound	
0208010204	Mobjack Bay-Lower Chesapeake Bay	

4.20 Federal Hydrologic Unit Twelve Digit Codes

Description: A standardized code that identifies the Federal Hydrologic Unit at the 6th Order. Examples are represented here. Due to the size of this table the entire codes set will not be included with this document.
List of column definitions:

1) Code – Unique federal code to be supplied by the user.
2) Description – Federal description of the code.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

HUC Twelve Digit Code	Description	Code List Identifier
020700110305	Gambo Creek-Potomac River	
020801100503	Lower Tangier Sound Channel	
020801020408	Monday Creek-Mobjack Bay	

4.21 Financial Measure Unit Codes
(REF_FINANCIAL_MEASURE_UNIT)
Description: The unit of measure code for the measured financial value. These values will be included in the *Units of Measure* Codes Table.

List of column definitions:
1) Code – Unique code to be supplied by the user.
2) Name - Description of the code. User may alter this value.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Name	Code List Identifier
CENTS	US Cents	
DOLLAR	US Dollars	

4.22 Geographic Reference Point Codes

Description: Represents the place for which geographic coordinates were established.

List of column definitions:
1) Code – Unique code to be supplied by the user.
2) Name – The name of the reference point represented by the code. User may change this description.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes

Code	Name	Code List Identifier
ADBLD	Administrative Building - a building where business, school, or government business affairs are managed	
AIRMN	Air Monitoring Station - The station where air monitoring occurs	

Code	Name	Code List Identifier
AIRST	Air release stack – The stack where air releases occur	
AIRVT	Air release vent - The vent where air releases occur	
ATETU	Atmospheric Emissions Treatment Unit - The unit where atmospheric emissions are treated	
AGBMP	At actual site of installed agricultural BMP.	
CNTAM	Potential source of contamination to drinking water supply	
CNTAR	Center of Area	
CNTER	Center of the facility	
CORNE	Northeast corner of the land parcel	
CORNW	Northwest corner of the land parcel	
CORSE	Southeast corner of the land parcel	
CORSW	Southwest corner of the land parcel	
CTROD	Centroid for the area where the facility is	
DISPT	Primary discharge point for a body of water whether natural or manmade	
ENTFT	Plant entrance (freight) - The freight entrance to a plant	
ENTGN	Plant entrance (general) - The general entrance to a plant or farm	
ENTPE	Plant entrance (personnel) - The personnel entrance to a plant	
H2OMS	Water monitoring station - The station where water monitoring occurs	
H2OPI	Water release pipe - The pipe where water releases occur	
H2OPR	Northwest corner of the land parcel	
H2OSR	Source water protection area - The drinking water source area where protective management actions occur	
H2OWL	Water well - A shaft or dug hole, whose depth is greater than its diameter, sunk into the ground to a depth that allows the withdrawal of water from a water-yielding geologic unit	
INPIP	Intake Pipe - A pipe where fluid enters an enclosure	
INTC	Interconnection - A point of connection between facilities	
LGOON	Lagoon or settling pond - A body of water at rest, where clarification takes place as sediment is deposited	
LODCT	Loading Area Centroid - The centroid for the loading area	
LODNG	Loading Facility - The facility where loading occurs	
LWTU	Liquid waste treatment unit - The unit where liquid waste is treated	

Code	Name	Code List Identifier
PSBS	Point on streambank or shoreline	
PUCEN	Process unit area centroid - The centroid for the area where the process unit is	
PUNIT	Process unit - The unit where processing occurs	
SPRNG	Spring - A place where ground water flows naturally from a rock or the soil into the land surface or into a body of surface water	
STANK	Storage Tank	
SWSTR	Solid waste storage area - The area where solid wastes are stored	
SWTDU	Solid waste treatment/disposal unit - The unit where sold waste are treated or disposed of	
UNK	Unknown - The information is not known	
UPSB	Upstream point on bank or shoreline	
WAPPS	Water Allocation Permit Primary Source - The water allocation permit location references the primary source point covered under the permit	
WELL	Well - A pit or hole sunk into the earth to reach a supply of water	
WELOG	Oil or gas well	
WELPA	Wellhead protection area - The surface and subsurface area surrounding a water well or well field, supplying a public water system, through which contaminants a	

4.23 Geometric Type Codes

Description: The code that represents the geometric feature type used to represent the geometric entities.
List of column definitions:
1) Code – Unique code to be supplied by the user.
2) Name – The name of the geometric type represented by the code.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Name	Code List Identifier
AREA	The area referenced by geographic coordinates	
LINE	The line referenced by geographic coordinates	
POINT	Point referenced by geographic coordinates	
REGION	A geometric entity described by locational coordinates that include two or more related areas.	
ROUTE	A geometric entity described by locational coordinates that form a contiguous network.	

4.24 Horizontal Accuracy Measure Unit Code

Description: Code that represents the unit of measure of the Horizontal Accuracy Value. Values will be entered into the *Units of Measure Codes* Table.

List of column definitions:
1) Code – Unique code to be supplied by the user.
2) Name – The name of the unit represented by the code. User may alter this value.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes

Code	Name	Code List Identifier
CENT	Centimeters	
FEET	Feet	
INCH	Inches	
METER	Meters	
MIN	Minutes	
SEC	Seconds	
THOU	Thousand Feet	

4.25 Horizontal Reference Datum Codes
(REF_HORIZ_REF_DATUM)
Description: The code that represents the reference datum used in the determination of the horizontal coordinate pairs.

List of column definitions:
1) Code – Unique code to be supplied by the user.
2) Name – The name of the horizontal reference represented by the code. User may alter this value.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes

Code	Name	Code List Identifier
NAD27	North American Datum of 1927	
NAD83	North American Datum of 1983	
OTHER	Unlisted Datum	
WGS84	World Geodetic System of 1984 (Previously GEO84)	
UNK	Unknown	

4.26 NRCS Practice Codes

Description: National Resource Conservation System Practice Code, if applicable.   Examples shown.
List of column definitions:

1) Code – Unique code to be supplied by the user.
2) Name – Practice Name.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Name	Codes List Identifier
431	Above Ground, Multi-Outlet Pipeline	http://www.nrcs.usda.gov/Technical/Standards/nhcp.html
560	Access Road	
316	Animal Mortality Facility	

4.27 State Codes
(REF_STATE)
Description: A two-character postal code designator used to identify a principal administrative subdivision of the United States, Canada or Mexico.
List of column definitions:
1) Code – Unique code to be supplied by the user (R).
2) Name - Name of the State (R).
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Name	Code List Identifier
	Postal State Codes	http://www.usps.com/ncsc/lookups/usps_abbreviations.html

4.28 Telephone Number Type Names

Description: Type of Telephone Number

List of column definitions:
1) Name – The name of the Telephone Number Type

Name
Cell
Main Office
Home Office
Personal

4.29 Tribal Codes

Description: Codes representing American Indian tribes and Alaskan native entities. There are no tribes referenced in the CBPO NPS BMPs, so no values are listed below.

List of column definitions:

1) Code – Unique code to be supplied by the user.
2) Description – Description of the code.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

4.30 Verification Method Identifier Codes

Description: The code that represents the process used to verify the coordinates of the geometric feature.
List of column definitions:

1) Code – Unique code to be supplied by the user.
2) Name – The name of the verification method represented by the code.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Name	Codes List Identifier
001	The coordinates are proximate to the centroid of the county	
002	The coordinates are proximate to alternative coordinates for the facility	
003	The coordinates are proximate to the centroid of another polygon	
004	The coordinates are a point within an undefined polygon	
005	The coordinates are a point within the county	
006	The coordinates are a point within the ZIP Code area	
007	The coordinates are verified relative to map features (1:24K)	
008	The coordinates are verified relative to map features (1:100K or TIGER)	
009	The coordinates are verified relative to other map features	
010	The coordinates are verified by an unknown method	
011	The coordinates were determined by ground truth	

Code	Name	Codes List Identifier
012	The coordinates are proximate to the centroid of the ZIP Code	
013	The coordinates were verified as a point in the ZIP Code bounding box	
014	The coordinates were verified as a point in the county bounding box	

4.31 Vertical Collection Method Identifier Codes

Description: List of vertical reference methods
List of column definitions:

1) Code – Unique code to be supplied by the user.
2) Name – The name of the vertical collection method represented by the code.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Name	Codes List Identifier
ALTIM	A method used to determine vertical components based on altimetry	
GPSDF	Geographic coordinate determination method based on GPS code measurements (pseudo range) differential (DGPS)	
GPSKN	Geographic coordinate determination method based on GPS carrier phase kinematic relative positioning technique	
GPSOF	Geographic coordinate determination method based on GPS code measurements (pseudo range) standard positioning service (SA off)	
GPSON	Geographic coordinate determination method based on GPS code measurements (pseudo range) standard positioning service (SA on)	
GPSPR	Geographic coordinate determination method based on GPS code measurements (pseudo range) precise positioning service	
GPSST	Geographic coordinate determination method based on GPS carrier phase static positioning technique	
LVLBM	Precise leveling from a bench mark	
LVLNB	Leveling between non-benchmark control points	
PHGRM	Photogrammetric	
SRVEY	Geographic coordinate determination based on classical surveying techniques	
TOPO	Topographic map interpolation	

Code	Name	Codes List Identifier
ALTIM	A method used to determine vertical components based on altimetry	
GPSDF	Geographic coordinate determination method based on GPS code measurements (pseudo range) differential (DGPS)	
GPSKN	Geographic coordinate determination method based on GPS carrier phase kinematic relative positioning technique	
GPSOF	Geographic coordinate determination method based on GPS code measurements (pseudo range) standard positioning service (SA off)	
GPSON	Geographic coordinate determination method based on GPS code measurements (pseudo range) standard positioning service (SA on)	
GPSPR	Geographic coordinate determination method based on GPS code measurements (pseudo range) precise positioning service	
TRGLV	Trigonometric leveling	
UNSPF	Other, unspecified	

4.32 Vertical Measure Unit Codes

Description: Units of Measure for the vertical accuracy. These values will be added to the *Units of Measure* Codes Table.

List of column definitions:
1) Code – Unique code to be supplied by the user.
2) Name – The name of the unit represented by the code. User may alter this value.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Name	Code List Identifier
CENT	Centimeters	
FEET	Feet	
IN	Inches	
KM	Kilometers	
MIN	Minutes	
MTR	Meters	
THOUS	Thousand Feet	

4.33 Vertical Reference Datum Codes

Description: The code that represents the reference datum used in the determination of the vertical coordinates.
List of column definitions:

1) Code – Unique code to be supplied by the user.
2) Name – The name of the vertical reference represented by the code.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Name	Code List Identifier
NGV29	National Geodetic Vertical Datum of 1929	
NAV88	North American Vertical Datum of 1988	

4.34 Implementation Qualifier Codes
(REF_IMPLEMENTATION_QUALIFIER)
Description: The code that represents the implementation qualifier for both BMPs and BMP Components.
List of column definitions:

1) Code – Unique code to be supplied by the user.
2) Name – The name of the implementation qualifier represented by the code.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Name	Code List Identifier
IMF	Implemented on Federal Land not entirely within the Chesapeake Bay watershed portion of a county.	
IMW	Implemented entirely within the Chesapeake Bay watershed portion of the county.	
IMFW	Implemented on Federal Land entirely within the Chesapeake Bay watershed portion of a county.	
IMNF	Implemented on non-Federal Land not entirely within the Chesapeake Bay watershed portion of the county.	
IMNFW	Implemented on non-Federal Land entirely within the Chesapeake Bay watershed portion of the county.	

Code	Name	Code List Identifier
IMO	Implemented on lands not entirely within the Chesapeake Bay watershed portion of the county.	

4.35 Verification Qualifier Code
(REF_VERIFICATION_QUALIFIER)
Description: The code that represents the verification qualifier for both BMPs and BMP Components.
List of column definitions:

1) Code – Unique code to be supplied by the user.
2) Description – The description or definition of the verification qualifier.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Description	Code List Identifier
NOMANURE	Manure has not been applied. Applicable to Chesapeake Bay WSM practices whose definitions specify the lack of nutrient application (Cover Crops, Land Retirement to hay without nutrients, etc).	
NOSPREAD	Excess manure from animal waste management system has not been spread on crops.	

4.36 Hydrologic Soils Group Code
(REF_SOIL_HYDROLOGIC_GROUP)
Description: The code that represents the hydrologic soil group for both BMPs and BMP Components.
List of column definitions:

1) Code – Unique code to be supplied by the user.
2) Description – The name of the soil type represented by the code.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Description	Code List Identifier
A	Group A soils typically have less than 10 percent clay and more than 90 percent sand or gravel and have gravel or sand textures. Soils in this group have low runoff potential when thoroughly wet.	
B	Group B soils typically have between 10 percent and 20 percent clay and 50 percent to 90 percent sand and have loamy sand or sandy loam textures. Soils in this group have moderately low runoff potential when thoroughly wet.	
C	Group C soils typically have between 20 percent and 40 percent clay and less than 50 percent sand and have loam, silt loam, sandy clay loam, clay loam, and silty clay loam textures. Soils in this group have moderately high runoff potential when thoroughly wet.	
D	Group D soils typically have greater than 40 percent clay, less than 50 percent sand, and have clayey textures. In some areas, they also have high shrink-swell potential. Soils in this group have high runoff potential when thoroughly wet.	
A/B	Mix of Group A & B soils. Lower runoff potential when thoroughly wet.	
C/D	Mix of Group C & D soils. Higher runoff potential when thoroughly wet.	

4.37 BMP Category
(REF_BMP_CATEGORY)
Description: The code that represents the category of stormwater performance standard BMP. This is submitted in combination with Previous BMP and other information for all stormwater performance standard BMPs.

1) Code – Unique code to be supplied by the user.
2) Description – The name of the stormwater performance standard category.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Description	Code List Identifier
New Development	New Development	
Re-Development	Re-Development	
New Retrofit	New Retrofit	
Converted Retrofit	Converted Retrofit	

Code	Description	Code List Identifier
Enhanced Retrofit	Enhanced Retrofit	
Restored Retrofit	Restored Retrofit	

4.38 Previous BMP
(VewBmpStormWaterClassification)
Description: The code that represents the a previously reported BMP that should be converted to a stormwater performance standard BMP through the BMP Category, "Converted Retrofit." This code is only required if "Converted Retrofit" is supplied.

1) Code – Unique code to be supplied by the user.
2) Description – The name of the previous BMP that is being converted under a retrofit project.
3) Code List Identifier - The name of a list of codes. Can be used to identify the URL of the codes list that defines the list of codes.

Code	Description
ImpSurRed	Impervious Urban Surface Reduction
ReGenSWConv	Dry Channel Regenerative Storm Water Conveyance
WetPondWetland	Wet Ponds and Wetlands
DryPonds	Dry Detention Ponds and Hydrodynamic Structures
ExtDryPonds	Dry Extended Detention Ponds
Infiltration	Urban Infiltration Practices w/o Sand, Veg. - A/B soils, no underdrain
InfiltWithSV	Urban Infiltration Practices w/ Sand, Veg. - A/B soils, no underdrain
Filter	Urban Filtering Practices
RcntSWM	Need Name
RetroSWM	MS4 Permit-Required Stormwater Retrofit
UrbFilterRR	Urban Filter Strip Runoff Reduction
UrbFilterST	Urban Filter Strip Storwater Treatment
BioRetUDAB	Bioretention/raingardens - A/B soils, underdrain
BioSwale	Bioswale
PermPavSVUDAB	Permeable Pavement w/ Sand, Veg. - A/B soils, underdrain
PermPavNoSVUDAB	Permeable Pavement w/o Sand, Veg. - A/B soils, underdrain
VegOpChanNoUDAB	Vegetated Open Channels - A/B soils, no underdrain
E3SWMNew	Need Name
SWMEra8502	Stormwater Management by Era 1985 to 2002 MD
SWMEra0210	Stormwater Management by Era 2002 to 2010 MD
VegOpChanNoUDCD	Vegetated Open Channels - C/D soils, no underdrain
PermPavNoSVNoUDAB	Permeable Pavement w/o Sand, Veg. - A/B soils, no underdrain
PermPavNoSVUDCD	Permeable Pavement w/o Sand, Veg. - C/D soils, underdrain
PermPavSVNoUDAB	Permeable Pavement w/ Sand, Veg. - A/B soils, no underdrain
PermPavSVUDCD	Permeable Pavement w/ Sand, Veg. - C/D soils, underdrain
BioRetNoUDAB	Bioretention/raingardens - A/B soils, no underdrain
BioRetUDCD	Bioretention/raingardens - C/D soils, underdrain