



MSGP – Point Team

Two feature classes suggested for points

1. Basins

- constructed and natural

2. Stormwater Structures

- constructed devices
- centroids

BASINS

CODE	VALUE
Lake	Lake
Wetland	Wetland
Wet Pond	Wet Pond
Dry Pond	Dry Pond
Constructed Wetland	Constructed Wetland
Infiltration Trench	Infiltration Trench
Infiltration Basin	Infiltration Basin
Rain Garden	Rain Garden
Culvert (centroid)	Culvert
Other	Other
Unknown	Unknown

- Desire to coordinate with polygons to align attributes on shared features
- What else should be included on the list? (creeks, infiltration cell, filtration basin, infiltration bench, etc.)

BASINS

Data Type	Feature Group	Element Group	Elem #	Element Name	Data Field Name	Description
Point	Basins	Identification Element	1.1	Unique Identifier	BASN_ID	A numeric or alphanumeric unique identifier. If this number is something other than DNR Lake ID or PWI Number, see support document for suggested convention.
			1.2	Local Parcel ID	BASN_PID	If the basin exists within a single parcel, enter the local parcel unique identification number
			1.3	DNR Lake ID	BASN_DNRID	A unique 8-digit identifier for each lake polygon. The value of this field is the DNR Division of Waters lake identification number if one has been assigned. Otherwise, the Lake ID is a unique sequential number
			1.4	PWI Number	BASN_PWI	A unique ID for public waters that have been mapped under Statute 103G.201
			1.5	Constructed or Natural	BASN_ORIG	Indication of weather the basin naturally occurring or constucted?
			1.6	Name	BASN_NAME	Common name of basin

BASINS

Data Type	Feature Group	Element Group	Elem #	Element Name	Data Field Name	Description
Point	Basins	Basin Elements	2.1	Basin Type	BASN_TYPE	Type of basin
			2.2	Height or Depth	BASN_DEPTH	mean depth of basin, in units of feet
			2.3	Area	BASN_AREA	surface area of basin in units of acres
			2.4	Volume	BASN_VOL	The natural or design volumn (or capacity) of the basin in units of acre feet
			2.5	Contributing Drainage Area	BASN_CAREA	area of land surface that discharges to constructed basin, in units of acres
			2.6	Infiltration Rate	BASN_INFIL	Design rate of infiltration through the bottom of a basin, in units of inches per hour
			2.7	Link to Public Asbuilts	BASN_ASBLT	Hyperlink to publicly available digital asbuilts

BASINS

Data Type	Feature Group	Element Group	Elem #	Element Name	Data Field Name	Description
Point	Basins	Management Elements	3.1	303(d) Status	BASN_303d	Indicate if a water body (lakes, stream/river segment) is currently listed on the state's impaired and threatened waters list.
			3.2	Ownership Type	BASN_OWTyp	Type of entity that owns the feature
			3.3	Ownership Name	BASN_OWNAM	Name of entity that owns the feature
			3.4	Maintenance Authority Type	BASN_MAINT	Type of entity that maintains the feature
			3.5	Maintenance Authority Name	BASN_MAINN	Name of entity that maintains the feature
			3.6	Data Producer/Source Type	BASN_DATAT	Type of entity that maintains/provides the digital data
			3.7	Data Producer/Source Name	BASN_DATAN	Name of entity that maintains/provides the digital data
			3.8	Last Modified	BASN_MODIF	Date of last modification to digital feature
		Comments	3.9	Comments	BASN_COMNT	Clairifying comments and fill-in for "other" in BASN_TYPE

STORMWATER STRUCTURE

Category

CODE	VALUE
Manhole	Manhole
End Structure (inlets/outlets)	End Structure (inlets/outlets)
Control Structure	Control Structure
Treatment Device	Treatment Device
Other	Other
Unknown	Unknown

STORMWATER STRUCTURE

DEVICE TYPE

apron outfall	flap gate	pipe outfall	weir w/ orifice
baffle	flow restrictor	regulator	other
catch basin	gate valve	seepage pipe	unknown
culvert	grate	separator	
dam	grit chamber	settling device	
debris barrier	infiltration basin	skimmer	
detention tank	inlet	sluice gate	
detention vault	leaky well	splitter	
discharge point	lift station	stormwater inlet trap	
discharge point (artificial)	manhole	sump	
dissipater	manhole/control manhole	swirl separator	
ditch outfall	monitoring device	trap manhole	
drop inlet	oil separator (device)	trough overflow	
dry well	oil/grease separator	vault	
filter	outfall	wet vault	
filtering device	overflow	weir	

**51 values too many
or not enough?**

STORMWATER STRUCTURE

Point	Stormwater Structures	Identification Element	4.1	ID	STRC_ID	Unique identifier
			4.1	Category	STRC_CAT	Manhole, End Structure (inlets/outlets), Control Structure, or Treatment Device
			4.2	Type	STRC_TYPE	Type of structure

STORMWATER STRUCTURE

Data Type	Feature Group	Element Group	Elem #	Element Name	Data Field Name	Description
Point	Stormwater Structures	Device Elements	5.1	Length	STRC_LGTH	length of structure, in units of feet
			5.2	Width	STRC_WID	width of structure, in unit of feet
			5.3	Height or Mean Depth	STRC_HT	height of structure, in units of feet
			5.4	Invert Elevation of Outlet	STRC_IELEV	the elevation of the bottom of the inside portion of the outlet, in units of feet above mean sea level
			5.5	Rim Elevation	STRC_RIMELEV	Rim elevation (mostly for manholes). Center of the manhole lid measured at the top.
			5.6	Treatment	STRC_TRTMT	Indication of whether the structure treats water
			5.7	Bottom Elevation of Structure	STRC_BELEV	The elevation of the bottom of the structure, in units of feet above mean sea level
			5.8	Contributing Drainage Area	STRC_CAREA	Applies only to water treatment devices - land surface area that discharges to the structure, in units of acres
			5.9	Holds Water	STRC_WAT	A determination of whether the bottom elevation of the device is below the invert elevation, in which case the device would be considered to hold water
			5.10	Design Infiltration Rate	STRC_INFIL	Rate of infiltration through the bottom of an infiltration device, in units of inches per hour
			5.11	Structure Rotation	STRC_ROTAT	Field used to adjust symbol rotation for proper mapping display
			5.12	Horizontal Position Accuracy	STRC_HACR	Spatial accuracy of the method used to locate the x/y value of the structure, in units of meters
			5.13	Vertical	STRC_VACR	Spatial accuracy of the method used to locate thez value of the structure, in units of meters
			5.14	Structure Status	STRC_STAT	The active/inactive status of a structure
			5.15	Date Built	STRC_DATE	Date structure was built
			5.16	Year Built	STRC_YR	Year structure was built
			5.7	Link to Public Asbuilts	STRC_ASBLT	Link to publicly available asbuilts

STORMWATER STRUCTURE

Data Type	Feature Group	Element Group	Elem #	Element Name	Data Field Name	Description
Point	Stormwater Structures	Management Elements	6.1	Ownership Type	STRC_OWTyp	Type of entity that owns the device
			6.2	Ownership Name	STRC_OWNAM	Name of entity that owns the device
			6.3	Maintenance Authority Type	STRC_MAINT	Type of entity that maintains the device
			6.4	Maintenance Authority Name	STRC_MAINN	Name of entity that maintains the device
			6.5	Data Producer/Source Type	STRC_DATAT	Type of entity that maintains/provides the digital data
			6.7	Data Producer/Source Name	STRC_DATAN	Name of entity that maintains/provides the digital data
			6.8	Last Modified	STRC_MODIF	Date of last modification to digital feature
		Comments	7.2	Comments	STRC_COMNT	Clairifying comments and fill-in for "other" in STRC_TYPE

THINGS TO CONSIDER

- Desire to align attributes with Polygons and Lines where overlap exists
- What is more ideal for surface water features – point or polygon?
 - is size relevant?
 - what about detention ponds?
- BMP's are varied and complex – would components exist in multiple features?

THINGS TO CONSIDER

- Authoritative Source – importance to others and how would it be used?
- Are we defining a standard datum and projection?
- Does this make sense when view as tabular data only?
- Unique ID – are we going to suggest how to construct these or leave it up to the source?

THINGS TO CONSIDER

- Accuracy – how do people feel about describing it as Low, Medium or High
- A notes/comments field – should it stay or should it go?

A close-up photograph of a beaver standing on a dark, wet rock. The beaver's fur is thick and brown, and it is looking towards the right. The background is a body of water with a light blue-green tint. The text "THANK YOU" is overlaid in the center of the image.

THANK YOU