

New Jersey Department of Agriculture
Hydrologic Modeling Database – Data Entry Form

Basin Name or Identification: _____

Project Site Details

Chpt. 251 Application Number:

Start Date (if known):

Street Address:

County:

Municipality:

Block:

Lot:

NJDEP Anderson Landuse Code (4 digits):

Landuse description:

Site Centroid Location (NJ State Plane Feet): ¹

 Northing: Easting:

Project Contact Details

Applicant:

Address:

Phone:

Email:

Post Construction Operation & Maintenance:²

Party Name:

Address:

Phone:

Email:

Party type (HOA, government, private, etc): choose one

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Basin Details:³

Basin Centroid (NJ State Plane Feet):⁴

 Northing: Easting:

Basin Type: choose an item : Detention Infiltration Detention+Infiltration
 Wet Pond

Construction: choose an item : Excavated Embankment Subsurface

Status phase:⁵ Design As-built

Dam Height (ft) top width (ft)

Dam Classification: choose an item

Drainage Area(s) to Basin [note- include any bypass areas]⁶

Drainage Area Name	Drainage Area (acres)	Post-Development CN#	Percent Impervious	Time of Concentration (min)

Basin Outlet Structure(s)⁷

ID:

End of Pipe Location:⁸ Northing: Easting:

Discharge Type ⁹ (weir, orifice, etc)	Dimensions (diameter, length)	Elevation (USGS)	Discharge ¹⁰ Coefficient	Equation Used ¹¹

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Basin Outlet Structure(s)

ID:

End of Pipe Location: Northing: Easting:

Discharge Type (weir, orifice, etc)	Dimensions (diameter, length)	Elevation (USGS)	Discharge Coefficient	Equation Used

Basin Stage-Discharge Rating Table¹²

Elevation (USGS Feet)	Storage (Acre-Ft)	Total Outlet Structure Discharge (cfs)

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NJDEP BMP Water Quality Structures¹³

Type (rain garden, green roof, seepage pit etc)	Size	Size Units (cu ft, sq ft etc)	Northing (SPF)	Easting (SPF)
choose an item				
choose an item				
choose an item				
choose an item				
choose an item				

Explanatory Notes-

¹ Approximate location of center of site, coordinates in state plane feet

² Indicate who will be responsible for permanent operation and maintenance

³ Additional Basin Detail Pages can be used for more than one basin in a project.

⁴ Approximate location of center of basin, coordinates in state plane feet

⁵ Indicate "design" for basins not yet constructed

⁶ Drainage areas which are modified by construction, but not directed to the basin should still be listed and described

⁷ "Outlet structure" means the control box, outlet headwall, FES etc. This does not refer to an individual control on the structure such as a weir or orifice. There are two tables for more than one outlet structure

⁸ Approximate location of terminal discharge end of basin outfall, coordinates in state plane feet

⁹ Indicate the type of outlet – weir, orifice, hydro brake, etc.

¹⁰ Discharge Coefficient specific to the type of outlet control i.e., 0.6 for circular orifice

¹¹ List the discharge equation for each outlet (weir, orifice etc) used

¹² For basins with dead storage below the primary outlet, indicate 0 cfs discharge until the lowest outlet is reached. Routing table should begin at the lowest basin elevation.

¹³ Describe NJDEP BMP Manual water quality devices such as seepage pits, rain gardens etc. Size is appropriate for device – cubic feet, square feet or linear feet. Location of device using state plane feet coordinates.