New Jersey Department of Agriculture

Hydrologic Modeling Database – Data Entry Form

Project Site Details

Chpt. 251 Application Number:

Start Date (if known):

Street Address:681 Bridgeton Pike

County: Gloucester County

Municipality: Township of Elk

Block: 10

Lot: 12.03

NJDEP Anderson Landuse Code (4 digits): 1200

Landuse description: Commercial and Services

Site Centroid Location (NJ State Plane Feet): [1]

Northing: 309519.03 Easting: 293362.16

Project Contact Details

Applicant: Mullica Hill DG, LLC

Address: 361 Summit Boulevard, Suite 110, Birmingham, Alabama 35243

Phone: 201-281-5053

Email:

Post Construction Operation & Maintenance:[2]

Party Name: TBD

Address:

Phone:

Email:

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

New Jersey Department of Agriculture

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Basin Details:[3]

Basin Centroid (NJ State Plane Feet):[4]

Northing: 309520.80 Easting: 293424.03

Basin Type: infiltration

Construction: choose an item

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)
P-1A	1.38	72	49.8	10
P-1B	0.68	58	0	6

Basin Outlet Structure(s)[7]

ID: OS-1

End of Pipe Location:[8] Northing: 309497.84 Easting: 293476.69

Discharge Type[9] (weir, orifice, etc)	Dimensions (diameter, length)	Elevation (USGS)	Discharge [10]Coefficient	Equation Used[11]
Culvert	15" dia	129.00	.6	Manning's
Orifice	3"	129.80	.9	Manning's

New Jersey Department of Agriculture

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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 Table[12]

Elevation (USGS Feet)	Storage (Acre-Ft)	Total Outlet Structure Discharge (cfs)
128.60	0.000	0.00
128.61	0.001	1.19
128.64	0.006	1.40
128.73	0.020	1.44
128.91	0.047	1.52
129.08	0.074	1.59
129.21	0.092	1.64
129.28	0.104	1.68
129.34	0.114	1.70

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NJDEP BMP Water Quality Structures[13]

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 instate 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.