

Attachment D – Major Development Stormwater Summary

General Information			
1. Project Name: Edge Road- Alpha			
2. Municipality: Borough of Alpha	County: Warren	Block(s): 100.01	Lot(s): 10
3. Site Location (State Plane Coordinates – NAD83):		E: 314,587	N: 666,272
4. Date of Final Approval for Construction by Municipality: N/A Date of Certificate of Occupancy: N/A			
5. Project Type (check all that apply): Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Other (please specify) _____			
6. Soil Conservation District Project Number: Upper Delaware Soil Conservation District Project #22057			
7. Did project require an NJDEP Land Use Permit? Yes <input type="radio"/> No <input checked="" type="radio"/> Land Use Permit #: _____			
8. Did project require the use of any mitigation measures? Yes <input type="radio"/> No <input checked="" type="radio"/> If yes, which standard was mitigated? _____			

Site Design Specifications	
1. Area of Disturbance (acres): 31.87	Area of Proposed Impervious (acres): 20.20
2. List all Hydrologic Soil Groups: B	
3. Please Identify the Amount of Each Best Management Practices (BMPs) Utilized in Design Below: Bioretention Systems <u>7</u> Constructed Wetlands <u>1</u> Dry Wells _____ Extended Detention Basins _____ Infiltration Basins _____ Combination Infiltration/Detention Basins _____ Manufactured Treatment Devices _____ Pervious Paving Systems _____ Sand Filters _____ Vegetative Filter Strips _____ Wet Ponds _____ Grass Swales _____ Subsurface Gravel Wetlands _____ Other _____	

Storm Event Information			
Storm Event - Rainfall (inches and duration):	2 yr.: <u>3.34 in, 24 hrs</u>	10 yr.: <u>4.89 in, 24 hrs</u>	
	100 yr.: <u>7.82 in, 24 hrs</u>	WQDS: <u>1.25 in, 2 hrs</u>	
Runoff Computation Method: NRCS: Dimensionless Unit Hydrograph <input checked="" type="checkbox"/> NRCS: Delmarva Unit Hydrograph <input type="checkbox"/> Rational <input type="checkbox"/> Modified Rational <input type="checkbox"/> Other: _____			

Basin Specifications (answer all that apply)	
If more than one basin, attach multiple sheets	
1. Type of Basin: Bioretention Basin 1	Surface/Subsurface (select one): Surface <input checked="" type="radio"/> Subsurface <input type="radio"/>
2. Owner (select one): <input type="radio"/> Public <input checked="" type="radio"/> Private: If so, Name: Evergreen Pastures, LLC Phone number: _____	
3. Basin Construction Completion Date: N/A	
4. Drain Down Time (hr.): <u>2.7</u>	
5. Design Soil Permeability (in./hr.): <u>0</u>	
6. Seasonal High Water Table Depth from Bottom of Basin (ft.): N/E Date Obtained: _____	
7. Groundwater Recharge Methodology (select one): 2 Year Difference <input type="radio"/> NJGRS <input type="radio"/> Other <input type="radio"/> NA <input checked="" type="radio"/>	
8. Groundwater Mounding Analysis (select one): Yes <input type="radio"/> No <input checked="" type="radio"/> If, Yes Methodology Used: _____	
9. Maintenance Plan Submitted: Yes <input type="radio"/> No <input checked="" type="radio"/> Is the Basin Deed Restricted: Yes <input type="radio"/> No <input checked="" type="radio"/>	

Comments:

Name of Person Filling Out This Form: _____

Signature: _____

Title: _____

Date: _____

2/2/2018

Basin Specifications (answer all that apply)	
If more than one basin, attach multiple sheets	
1. Type of Basin: Bioretention Basin 2	Surface/Subsurface (select one): Surface <input checked="" type="radio"/> Subsurface <input type="radio"/>
2. Owner (select one): <input type="radio"/> Public <input checked="" type="radio"/> Private: If so, Name: Evergreen Pastures, LLC Phone number:	
3. Basin Construction Completion Date: N/A	
4. Drain Down Time (hr.): 1.9	
5. Design Soil Permeability (in./hr.): 0	
6. Seasonal High Water Table Depth from Bottom of Basin (ft.): N/E	Date Obtained:
7. Groundwater Recharge Methodology (select one): 2 Year Difference <input type="radio"/> NJGRS <input type="radio"/> Other <input type="radio"/> NA <input checked="" type="radio"/>	
8. Groundwater Mounding Analysis (select one): Yes <input type="radio"/> No <input checked="" type="radio"/> If, Yes Methodology Used:	
9. Maintenance Plan Submitted: Yes <input type="radio"/> No <input checked="" type="radio"/> Is the Basin Deed Restricted: Yes <input type="radio"/> No <input checked="" type="radio"/>	

Basin Specifications (answer all that apply)	
If more than one basin, attach multiple sheets	
1. Type of Basin: Bioretention Basin 3	Surface/Subsurface (select one): Surface <input type="radio"/> Subsurface <input type="radio"/>
2. Owner (select one): <input type="radio"/> Public <input checked="" type="radio"/> Private: If so, Name: Evergreen Pastures, LLC Phone number:	
3. Basin Construction Completion Date: N/A	
4. Drain Down Time (hr.): 4.2	
5. Design Soil Permeability (in./hr.): 0	
6. Seasonal High Water Table Depth from Bottom of Basin (ft.): N/E	Date Obtained:
7. Groundwater Recharge Methodology (select one): 2 Year Difference <input type="radio"/> NJGRS <input type="radio"/> Other <input type="radio"/> NA <input checked="" type="radio"/>	
8. Groundwater Mounding Analysis (select one): Yes <input type="radio"/> No <input checked="" type="radio"/> If, Yes Methodology Used:	
9. Maintenance Plan Submitted: Yes <input type="radio"/> No <input checked="" type="radio"/> Is the Basin Deed Restricted: Yes <input type="radio"/> No <input checked="" type="radio"/>	

Basin Specifications (answer all that apply)	
If more than one basin, attach multiple sheets	
1. Type of Basin: Bioretention Basin 4	Surface/Subsurface (select one): Surface <input checked="" type="radio"/> Subsurface <input type="radio"/>
2. Owner (select one): <input type="radio"/> Public <input checked="" type="radio"/> Private: If so, Name: Evergreen Pastures, LLC Phone number:	
3. Basin Construction Completion Date: N/A	
4. Drain Down Time (hr.): 1.5	
5. Design Soil Permeability (in./hr.): 0	
6. Seasonal High Water Table Depth from Bottom of Basin (ft.): N/E	Date Obtained:
7. Groundwater Recharge Methodology (select one): 2 Year Difference <input type="radio"/> NJGRS <input type="radio"/> Other <input type="radio"/> NA <input checked="" type="radio"/>	
8. Groundwater Mounding Analysis (select one): Yes <input type="radio"/> No <input checked="" type="radio"/> If, Yes Methodology Used:	
9. Maintenance Plan Submitted: Yes <input type="radio"/> No <input checked="" type="radio"/> Is the Basin Deed Restricted: Yes <input type="radio"/> No <input checked="" type="radio"/>	

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Date: _____

Basin Specifications (answer all that apply)	
If more than one basin, attach multiple sheets	
1. Type of Basin: Bioretention Basin 5	Surface/Subsurface (select one): Surface <input checked="" type="radio"/> Subsurface <input type="radio"/>
2. Owner (select one): <input type="radio"/> Public <input checked="" type="radio"/> Private: If so, Name: Evergreen Pastures, LLC Phone number:	
3. Basin Construction Completion Date: N/A	
4. Drain Down Time (hr.): 3.6	
5. Design Soil Permeability (in./hr.): 0	
6. Seasonal High Water Table Depth from Bottom of Basin (ft.): N/E	Date Obtained:
7. Groundwater Recharge Methodology (select one): 2 Year Difference <input type="radio"/> NJGRS <input type="radio"/> Other <input type="radio"/> NA <input checked="" type="radio"/>	
8. Groundwater Mounding Analysis (select one): Yes <input type="radio"/> No <input checked="" type="radio"/> If, Yes Methodology Used:	
9. Maintenance Plan Submitted: Yes <input type="radio"/> No <input checked="" type="radio"/> Is the Basin Deed Restricted: Yes <input type="radio"/> No <input checked="" type="radio"/>	

Basin Specifications (answer all that apply)	
If more than one basin, attach multiple sheets	
1. Type of Basin: Bioretention Basin 6	Surface/Subsurface (select one): Surface <input type="radio"/> Subsurface <input type="radio"/>
2. Owner (select one): <input type="radio"/> Public <input checked="" type="radio"/> Private: If so, Name: Evergreen Pastures, LLC Phone number:	
3. Basin Construction Completion Date: N/A	
4. Drain Down Time (hr.): 3.0	
5. Design Soil Permeability (in./hr.): 0	
6. Seasonal High Water Table Depth from Bottom of Basin (ft.): N/E	Date Obtained:
7. Groundwater Recharge Methodology (select one): 2 Year Difference <input type="radio"/> NJGRS <input type="radio"/> Other <input type="radio"/> NA <input checked="" type="radio"/>	
8. Groundwater Mounding Analysis (select one): Yes <input type="radio"/> No <input checked="" type="radio"/> If, Yes Methodology Used:	
9. Maintenance Plan Submitted: Yes <input type="radio"/> No <input checked="" type="radio"/> Is the Basin Deed Restricted: Yes <input type="radio"/> No <input checked="" type="radio"/>	

Basin Specifications (answer all that apply)	
If more than one basin, attach multiple sheets	
1. Type of Basin: Bioretention Basin 7	Surface/Subsurface (select one): Surface <input checked="" type="radio"/> Subsurface <input type="radio"/>
2. Owner (select one): <input type="radio"/> Public <input checked="" type="radio"/> Private: If so, Name: Evergreen Pastures, LLC Phone number:	
3. Basin Construction Completion Date: N/A	
4. Drain Down Time (hr.): 1.3	
5. Design Soil Permeability (in./hr.): 0	
6. Seasonal High Water Table Depth from Bottom of Basin (ft.): N/E	Date Obtained:
7. Groundwater Recharge Methodology (select one): 2 Year Difference <input type="radio"/> NJGRS <input type="radio"/> Other <input type="radio"/> NA <input checked="" type="radio"/>	
8. Groundwater Mounding Analysis (select one): Yes <input type="radio"/> No <input checked="" type="radio"/> If, Yes Methodology Used:	
9. Maintenance Plan Submitted: Yes <input type="radio"/> No <input checked="" type="radio"/> Is the Basin Deed Restricted: Yes <input type="radio"/> No <input checked="" type="radio"/>	

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Basin Specifications (answer all that apply)	
If more than one basin, attach multiple sheets	
1. Type of Basin: Constructed Wetlands	Surface/Subsurface (select one): Surface <input checked="" type="radio"/> Subsurface <input type="radio"/>
2. Owner (select one): <input type="radio"/> Public <input checked="" type="radio"/> Private: If so, Name: Evergreen Pastures, LLC	Phone number:
3. Basin Construction Completion Date: N/A	
4. Drain Down Time (hr.): N/A	
5. Design Soil Permeability (in./hr.): 0	
6. Seasonal High Water Table Depth from Bottom of Basin (ft.): N/E	Date Obtained:
7. Groundwater Recharge Methodology (select one):	2 Year Difference <input type="radio"/> NJGRS <input type="radio"/> Other <input type="radio"/> NA <input checked="" type="radio"/>
8. Groundwater Mounding Analysis (select one): Yes <input type="radio"/> No <input checked="" type="radio"/>	If, Yes Methodology Used:
9. Maintenance Plan Submitted: Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Basin Deed Restricted: Yes <input type="radio"/> No <input checked="" type="radio"/>

Basin Specifications (answer all that apply)	
If more than one basin, attach multiple sheets	
1. Type of Basin:	Surface/Subsurface (select one): Surface <input type="radio"/> Subsurface <input type="radio"/>
2. Owner (select one): <input type="radio"/> Public <input checked="" type="radio"/> Private: If so, Name:	Phone number:
3. Basin Construction Completion Date:	
4. Drain Down Time (hr.):	
5. Design Soil Permeability (in./hr.):	
6. Seasonal High Water Table Depth from Bottom of Basin (ft.):	Date Obtained:
7. Groundwater Recharge Methodology (select one):	2 Year Difference <input type="radio"/> NJGRS <input type="radio"/> Other <input type="radio"/> NA <input type="radio"/>
8. Groundwater Mounding Analysis (select one): Yes <input type="radio"/> No <input type="radio"/>	If, Yes Methodology Used:
9. Maintenance Plan Submitted: Yes <input type="radio"/> No <input type="radio"/>	Is the Basin Deed Restricted: Yes <input type="radio"/> No <input type="radio"/>

Basin Specifications (answer all that apply)	
If more than one basin, attach multiple sheets	
1. Type of Basin:	Surface/Subsurface (select one): Surface <input type="radio"/> Subsurface <input type="radio"/>
2. Owner (select one): <input type="radio"/> Public <input checked="" type="radio"/> Private: If so, Name:	Phone number:
3. Basin Construction Completion Date:	
4. Drain Down Time (hr.):	
5. Design Soil Permeability (in./hr.):	
6. Seasonal High Water Table Depth from Bottom of Basin (ft.):	Date Obtained:
7. Groundwater Recharge Methodology (select one):	2 Year Difference <input type="radio"/> NJGRS <input type="radio"/> Other <input type="radio"/> NA <input type="radio"/>
8. Groundwater Mounding Analysis (select one): Yes <input type="radio"/> No <input type="radio"/>	If, Yes Methodology Used:
9. Maintenance Plan Submitted: Yes <input type="radio"/> No <input type="radio"/>	Is the Basin Deed Restricted: Yes <input type="radio"/> No <input type="radio"/>

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