

APPENDIX H

**City of Radford Annual BMP Operation & Maintenance Inspection Form for
Detention, Retention and Extended Detention Basins and Wet Ponds**

MS4 SMF Tracking Database

FACILITY ID: _____	DATE: _____	ASSESSED BY: _____
NAME: _____		HANDHELD/ GPS ID:
ADDRESS: _____		
PHOTO IDS: _____		

SECTION 1- BACKGROUND INFORMATION (GIS)

BMP TYPE : <input type="checkbox"/> Dry Detention Pond <input type="checkbox"/> Dry Swale <input type="checkbox"/> Wetland <input type="checkbox"/> Extended Detention Pond <input type="checkbox"/> Wet Swale <input type="checkbox"/> Level Spreader <input type="checkbox"/> Wet Pond <input type="checkbox"/> Grass Channel <input type="checkbox"/> WQ Inlet <input type="checkbox"/> Filter (specify: _____) <input type="checkbox"/> Dry Well <input type="checkbox"/> Proprietary Device <input type="checkbox"/> Infiltration (specify: _____) <input type="checkbox"/> Permeable Pavement <input type="checkbox"/> Other <input type="checkbox"/> Check if structure is underground <input type="checkbox"/> Bioretention	YEAR CONSTRUCTED: _____ OWNERSHIP <input type="checkbox"/> Public <input type="checkbox"/> Private <input type="checkbox"/> Unknown
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SITE CHARACTERIZATION

DRAINAGE AREA: _____ (acres) IMPERVIOUS COVER: _____ (acres) Discerned from: <input type="checkbox"/> Plan <input type="checkbox"/> County Data <input type="checkbox"/> GIS <input type="checkbox"/> Field	
CONTRIBUTING DRAINAGE AREA (% land use): <i>Note – All percentages should sum up to 100%.</i> _____ Industrial _____ Commercial _____ Urban/Residential _____ Suburban/Res _____ Forested _____ Institutional _____ Golf course _____ Park _____ Crop _____ Pasture _____ Other: _____	WATER QUALITY VOL (FROM DESIGN PLAN): _____ (ft ³)

SECTION 2- FIELD VISIT

Rain in last 48 hrs? <input type="checkbox"/> Yes <input type="checkbox"/> No	Evidence of high water table (e.g., excessive soil saturation)? <input type="checkbox"/> Yes <input type="checkbox"/> No
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DESIGN ELEMENTS

FACILITY SIZE: Length: _____ (ft) Width: _____ (ft) Surface Area: _____ (ft ²) Depth of WQ storage _____ (ft)	OBSERVED WQ STORAGE VOL: _____ (ft ³)	HYDRAULIC CONFIGURATION <input type="checkbox"/> On-line Facility <input type="checkbox"/> Off-line Facility	DESIGN STORM(S): <input type="checkbox"/> Water Quality <input type="checkbox"/> Flood Control <input type="checkbox"/> Channel Protection <input type="checkbox"/> Unknown
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BMP SIGNAGE: (check all that apply)

<input type="checkbox"/> None	<input type="checkbox"/> Flood Warning	<input type="checkbox"/> Stormwater Education	<input type="checkbox"/> No Trespassing	<input type="checkbox"/> Wildlife Habitat
<input type="checkbox"/> Public Property	<input type="checkbox"/> Do Not Mow	<input type="checkbox"/> Other: _____		

OUTLET CHARACTERISTICS

PRIMARY OUTLET STRUCTURE:	<input type="checkbox"/> N/A – infiltration w/ no outlet <input type="checkbox"/> Pipe <input type="checkbox"/> Riser <input type="checkbox"/> Weir <input type="checkbox"/> Large Storm Overflow <input type="checkbox"/> Open channel <input type="checkbox"/> Large Storm By-pass <input type="checkbox"/> Other: _____
OUTLET FEATURES:	<input type="checkbox"/> N/A <input type="checkbox"/> Trash Rack <input type="checkbox"/> Pond Drain <input type="checkbox"/> Inverted outlet pipe <input type="checkbox"/> Hooded outlet <input type="checkbox"/> Anti-vortex device <input type="checkbox"/> Perforated pipe <input type="checkbox"/> Gravel Diaphragm <input type="checkbox"/> Micropool outlet <input type="checkbox"/> Multiple outlet levels <i>Outlet includes restrictor?</i> <input type="checkbox"/> Yes <input type="checkbox"/> No
OUTLET STRUCTURE CONDITIONS:	Erosion at Outlet: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Outlet Clogging: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Structural Problems: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe
CONDITIONS AT OUTFALL:	<input type="checkbox"/> Stream <input type="checkbox"/> Closed storm sewer <input type="checkbox"/> Surface channel <input type="checkbox"/> Road ditch <input type="checkbox"/> Other: _____ <input type="checkbox"/> Unknown
Active Erosion:	<input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Odor: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe
Trash:	<input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Algae: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe
Sedimentation:	<input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe Other WQ Problems: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe

VEGETATION

GENERAL OBSERVATIONS: <input type="checkbox"/> Landscaped <input type="checkbox"/> Aquatic Bench <input type="checkbox"/> Invasive Species <input type="checkbox"/> Plant Diversity	TYPE OF GROUND COVER (% of Surface Area in Plan View up to low Outlet): <i>Note – All percentages should sum up to 100 %.</i> _____ Trees _____ Grasses/Perennials _____ Pondered water _____ Other: _____ _____ Managed Turf _____ Bare Soil _____ Shrubs _____ N/A _____ Gravel/stone _____ Mulch _____ Emergent wetland
Depth of mulch, if present: <input type="checkbox"/> Hardwood _____ (in) <input type="checkbox"/> Pine Straw _____ (in) <input type="checkbox"/> Other _____ (in)	
Rate degree of shading of BMP Surface Area by trees: <input type="checkbox"/> Well Shaded <input type="checkbox"/> Some Shading <input type="checkbox"/> No Shading <input type="checkbox"/> N/A	

City of Radford MS4
SMF Tracking Database

Facility ID	Owner	Latitude	Longitude	Type of Facility	Total Acres Treated	Pervious Acres	Impervious Acres	Date Facility Brought Online	Date of Last Inspection	# Inspections Completed During 2016-2017 Reporting Year	Hydrologic Unit Code (HUC12)	VAHU6	Maintenance Agreement Status
(1) INDUSTRIAL PARK	City of Radford	37° 5'38.99"N	80°34'28.60"W	Detention	31.800	17.550	14.250	12/31/1990	6/1/2017	2	50500011801	NE57	N/A City Owned
(2) ROCK ROAD WEST & WEST MAIN ST. INTERSECTION "VDOT Rock Road Improvements"	City of Radford	37° 6'13.98"N	80°34'48.22"W	Detention	12.460	0.000	12.460	3/10/2003	6/1/2017	2	50500011801	NE57	N/A City Owned
(3) NORTH SIDE OF ROCK ROAD WEST BETWEEN FOREST AVE. AND STAPLES ST. "Sundell Drive -Staples Drainage Improvements 1979"	City of Radford	37° 6'50.61"N	80°34'10.25"W	Detention	18.992	1.260	17.732	8/1/1977	6/1/2017	2	50500011801	NE57	N/A City Owned
(4) SECOND AVE./PARK ROAD IMPROVEMENT PROJECT	City of Radford	37° 7'48.85"N	80°33'47.48"W	Detention Extended	8.190	0.190	8.000	7/21/2015	6/2/2017	2	50500011801	NE57	N/A City Owned
(5) EAST MAIN ST. BEHIND ALLEN BUILDING "Jefferson Street Improvements"	City of Radford	37° 8'21.36"N	80°32'50.47"W	Detention	6.330	0.000	6.330	2/1/1997	6/2/2017	2	50500011801	NE57	N/A City Owned
(6) SUNSET PARK* "Sunset Park & Fairgrounds Basins Drainage Improvements Project"	City of Radford	37° 7'20.48"N	80°34'40.63"W	Detention	9.690	1.010	8.680	8/6/2004	6/2/2017	2	50500011801	NE57	N/A City Owned
(25) SEVENTH STREET* "Sunset Park & Fairgrounds Basins Drainage Improvements Project"	City of Radford	37° 7'29.05"N	80°34'34.44"W	Detention	10.810	8.600	2.210	8/6/2004	6/7/2017	2	50500011801	NE57	N/A City Owned
(26) SUMMIT RIDGE (PRIVATE)*	Seventh Street Subdivision	37° 6'51.99"N	80°34'47.77"W	Detention	3.520	2.750	0.770	3/4/2011	6/7/2017	2	50500011801	NE57	Not Applicable**
(27) HEATHER GLEN (PRIVATE)*	Heather Glen, LP	37° 7'7.02"N	80°33'48.07"W	Detention	4.293	1.937	2.356	12/9/2003	6/7/2017	2	50500011801	NE57	Not Applicable**
(28) WEST SIDE CROSSING (PRIVATE)*	Westside 1205 LLC	37° 8'8.40"N	80°33'24.62"W	Detention Extended	9.043	5.183	3.860	3/3/2014	6/8/2017	2	50500011801	NE57	Not Applicable**
(29) FAMILY DOLLAR (PRIVATE) ¹	LFD Radford VA LLC	37° 7'44.36"N	80°34'57.10"W	Detention	1.020	0.685	0.335	1/19/2016	6/8/2017	3	50500011801	NE57	Not Applicable**
(30) TALL OAKS (PRIVATE)*	Summit Development Co LLC	37° 7'10.35"N	80°31'53.53"W	Detention	16.960	16.960	0.000	N/A	11/2/2017	0	50500011801	NE57	Not Applicable**

*INADVERTANTLY LEFT OFF OF MS4 SUBMITTAL MAP

¹ New Private Facility 1/19/2016

(#) Refers to Number on Storm Water Management Facility Map

**Private facilities where approved prior to the city being granted coverage under the MS4 General Permit Number VAR040135 August 19, 2014