March 23, 2022

Post Construction SWPPP Checklist

Project Name: _____

Location: _____

Project Type:

_____ New Development

_____ Redevelopment with decrease in impervious

_____ Redevelopment with no change in impervious

_____ Redevelopment with increase in impervious

Project within TMDL Watershed:_____

Project discharges to a 303d Water Body:_____

SWPPP Prepared By:_____ date: _____

SWPPP Reviewed By:_____ date: _____

A. Conveyance

Location in SWPPP

Types of conveyance:

_____ Sheet flow

Culvert design storm_____material_____

_____ v > 3 fps, < 15 fps

Storm sewer design storm_____material_____

_____v > 3 fps, < 15 fps

Swales design storm_____material_____

_____v < 7 fps for vegetated

_____100-year flood routes

Number of proposed outfalls_____

Outlet protection for concentrated outfalls

_____ROP

_____Level spreader/flow diffuser

B. Practice Selection

Type of Practices Selected for:

Detention_____

Water quality treatment_____

Pre-treatment_____

Runoff reduction_____

Pre-treatment_____

C. Hydrology

Drainage Area:

Number of subareas existing_____ proposed_____

_____Same point of study pre and post

_____Development changes to DA

_____Area properly delineated and calculated

Precipitation:

_____From Extreme Precipitation web

_____24-hour duration

_____Type II/III or local IDF curves

_____1, 2, 10, and 100-year events

Soils: **Location in SWPPP**

_____From Web soil survey _____

HSG's_____ _____

_____Soil restoration in construction sequences and/or notes _____

_____Soil restoration or change for post development _____

Curve Numbers:

_____Representative cover condition (poor, fair good) _____

_____Meadow for active agricultural land _____

_____Proper description and areas _____

Impervious area(s) existing _____ acres proposed _____ acres _____

_____Increase after development _____

Time of Concentration:

_____Tc path starts at roughest flattest starting point most remote from POS _____

_____Path crosses contours at 90 degrees to POS _____

_____No more than 100 feet for sheet flow segment with proper surface n, length and slope _____

_____2-year rain for sheet flow _____

_____SC flow using cover descriptions (not paved/unpaved) with proper length and slope _____

_____Channel flow using Manning's _____

_____Tc decreases after development _____

Runoff:

_____Proper precipitation, Tc, and RCN's used to compute _____

Pre and post runoff volume and rates for:

_____1-year _____

_____10-year _____

_____100-year _____

_____Runoff increase after development _____

_____Summary Table _____

D. Detention

_____Exemption-Justification_____ _____

Practice providing detention_____ _____

_____Flood route to practice _____

Volumes from Uniform Sizing Criteria for:

_____CP_v _____

_____OB_v _____

_____ES_v _____

_____Detention area stage/storage table with elevations for control volumes _____

Outlet structure and overflow devices and sizing for release of:

_____CP_v _____

_____OB_v _____

_____ES_v _____

_____Overflow device _____

Model storms through device:

_____Do resulting release rates and elevations meet the runoff mitigation requirements? _____

_____Model results included in Hydrology Summary Table _____

_____SWPPP hydrology values match the NOI _____

E. WQ_v

_____90% rain _____

_____ 1-year rain (P watersheds) _____

% Impervious _____% _____

F. Ponds

Location in SWPPP

Pond type_____ _____

_____Impermeable soils/liner _____

_____Pre-treatment _____

_____Adequate DA/hydrology _____

_____Adequate head _____

_____Long flow path _____

_____Perm pool > 6 feet deep _____

_____Aquatic bench _____

_____Safety Bench/>1:4 _____

_____1:2 below water _____

_____Pondscaping Plan _____

_____Drain/pump _____

_____Fencing/signage _____

_____Outlet Structure/E spillway _____

_____Maintenance access road _____

G. Filters

Filter Type_____ _____

Filter media material_____ _____

_____Adequate media depth _____

_____Pre-treatment _____

_____Drainage area _____

_____Sizing _____

_____Cover _____

_____Observation ports _____

H. Wetlands

_____Impermeable soils/liner _____

_____Adequate DA/hydrology _____

Wetland design type:

_____Adequate head _____

_____Long flow path _____

_____Mico-topography _____

_____Deep water _____

_____Pre-treatment _____

_____Planting Plan with adequate coverage _____

I. Soil

_____Soil Map/Report _____

HSG's _____ _____

Soil Testing: _____

_____In location of practice _____

Deep Holes: _____

_____Proper number _____

Testing Date:_____ _____

_____Proper depth (minimum 4 feet below practice bottom) _____

_____Impermeable layer _____

_____Season high groundwater (evidence of soil staining) _____

_____Horizons identified _____

Infiltration tests: **Location in SWPPP**

_____Pre-soaking _____
_____Proper number and spacing within practice area (minimum 4) _____
_____2 feet below bottom of practice _____
_____Minimum 3 runs/hole with min I > 1 inch/hour _____

J. Infiltration

Type of I practice_____ _____
_____Adequate soil testing _____
_____Head _____
_____Soil permeability (> 1 inch) _____
_____Pre-treatment _____
_____Sizing _____
_____Cover _____
_____Drain time _____
_____Area protected during construction _____

K. Bio-retention Family

HSG_____ _____
_____Accurate DA _____
_____Filter with underdrain? _____
_____Infiltrating no/elevated underdrain? _____
_____Sandy filter media mix and depth _____
_____Ponding depth < = 6 inch _____
_____K value _____
_____Pre-treatment _____
_____Planting Plan with adequate coverage _____
_____Reinforced flow channel _____
_____Overflow/flow splitter _____
_____Protected during construction _____
_____Observation port _____

L. Buffers/CNA/Filter Strips

Type_____ _____
_____Within watershed _____
_____HSG _____
_____Vegetated _____
_____Slope within limits _____
_____Required size/width _____
_____Tributary DA within limits _____
_____Tributary impervious _____
_____Sheet flow inflow _____
_____Protected during construction _____
_____Permanent legal and physical protection _____

M. Tree Planting

HSG_____ _____
_____Number _____
_____Adequate size _____
_____Planting detail and soil specs _____
_____Root pruned/bare root _____
_____2 growing season guarantee _____

N. Disconnection

Location in SWPPP

HSG_____ _____

_____ Disconnection slope within limits _____

_____ Disconnection area vegetation _____

_____ Disconnect area and width > = tributary roof area _____

_____ Downspouts with flow dissipation _____

_____ Permeant protection _____

O. Green Roof

Type_____ _____

_____ Adequate soil media _____

_____ Appropriate vegetation _____

_____ Drainage layer _____

P. Porous Pavement

Surface material_____ _____

Use_____ _____

_____ Underlying soil tested I rate > 1 inch/hour _____

_____ No or elevated underdrain _____

_____ No additional run-on _____

_____ Extensive Maintenance Plan _____

Q. Cisterns/Rain Barrels

Type_____ _____

_____ Water Use Plan _____

_____ Winter Plan _____

R. Veggie Swale

_____ WQ_v peak design flow used _____

_____ WQ_v flow depth < = 4 inches _____

_____ Bottom width < 6 feet _____

_____ Slope < 4 percent _____

_____ Modified Manning's n _____

_____ WQ_v velocity < 1.0 fps _____

_____ Minimum 10-minute retention time _____

_____ > 4 inch vegetation depth _____

_____ Q 10 freeboard _____

S. Dry Swale

HSG_____ _____

_____ Bottom width < 8 feet _____

_____ Slope < 4 percent _____

_____ Ponding depth < 18 inches _____

_____ Adequate media depth and material _____

_____ Underdrain _____

T. RR_v **Location in SWPPP**

HSG_____ _____

_____Appropriate s value for minimum RR_v _____

Practice(s) providing reduction_____ _____

_____RR_v provided > minimum RR_v _____

_____All of the WQ_v treated and/or reduced _____

_____Calculations match NOI _____

U. Maintenance

_____Maintenance Agreement/Deed Restriction _____

Responsible entity_____ _____

_____Municipal back-up _____

_____Practice specific maintenance/inspection plan/ schedule _____

_____Break-in period _____

_____Security posting _____

_____Annual reporting _____

_____Enforcement/monitoring _____

_____As-builts/certification _____

_____Easements/access _____

V. SWPPP and NOI VALUES MATCH FOR NUMBERS:

_____4 _____

_____6 _____

_____27 _____

_____28 _____

_____29 _____

_____30 _____

_____32 _____

_____33 _____

_____36 _____

_____37 _____

W. Comments: