



PHASE II STORMWATER
MANAGEMENT PERMIT APPLICATION FORM

Permit Number _____

Project Number _____

(No.'s to be provided by C.O.K.)

LEVEL SPREADER, FILTER STRIP AND RESTORED RIPARIAN BUFFER SUPPLEMENT

This form must be completely filled out, printed and submitted.

I. PROJECT INFORMATION

Project name	_____
Drainage structure ID	_____
Design Engineer	_____
Date	_____

II. DESIGN INFORMATION

For Level Spreaders Receiving Flow From a BMP

Type of BMP	_____
Drawdown flow from the BMP	_____ cfs

For Level Spreaders Receiving Flow from the Drainage Area

Drainage area	_____	ft ²
Impervious surface area	_____	ft ²
Percent impervious	_____	%
Rational C coefficient	_____	
Peak flow from the 1 in/hr storm	_____	cfs
Time of concentration	_____	min
Rainfall intensity, 10-yr storm	_____	in/hr
Peak flow from the 10-yr storm	_____	cfs

Where Does the Level Spreader *Discharge*?

To a grassed bioretention cell?	_____	(Y or N)
To a mulched bioretention cell?	_____	(Y or N)
To a wetland?	_____	(Y or N)
To a filter strip or riparian buffer?	_____	(Y or N)
Other (specify)	_____	

Filter Strip or Riparian Buffer Characterization (if applicable)

Width of grass	_____	ft
Width of dense ground cover	_____	ft
Width of wooded vegetation	_____	ft
Total width	_____	ft
Elevation at downslope base of level lip	_____	ft
Elevation at top of bank of the receiving water	_____	ft
Slope (from level lip to top of bank)	_____	%
Are any draws present?	_____	(Y or N)

II. DESIGN INFORMATION

Level Spreader Design

Forebay surface area sq ft
Feet of level lip needed per cfs ft/cfs
Answer "Y" to one of the following:
Length based on the 1 in/hr storm? (Y or N)
Length based on the 10-yr storm? (Y or N)
Length based on the BMP discharge rate? (Y or N)
Design flow cfs
Is a bypass device provided? (Y or N)
Length of the level lip ft
Are level spreaders in series? (Y or N)

Bypass Channel Design (if applicable)

Does the bypass discharge through a wetland? (Y or N)
Does the channel enter the stream at an angle? (Y or N)
Provide the following channel dimensions and a detail:
Horizontal component of side slope, M ft
Bottom width, B ft
Top width, W ft
Depth, y ft
Peak velocity in the channel during the 10-yr storm cfs
Channel lining material

III. REQUIRED ITEMS CHECKLIST

Please indicate the page or plan sheet numbers where the supporting documentation can be found. **An incomplete submittal package will result in a request for additional information. This will delay final review and approval of the project.** The Engineer shall initial in the space provided to indicate the following design requirements have been met. **If a requirement has not been met, attach justification.**

Initials	Page/ Plan Sheet No.	
_____	_____	1. Plans of the entire site showing: <ul style="list-style-type: none"> - Design at ultimate build-out, - Off-site drainage (if applicable), - Delineated drainage basins (include Rational C coefficient per basin), - Forebay (if applicable), - High flow bypass system, - Maintenance access, - Proposed drainage easement and public right of way (ROW), and - Boundaries of drainage easement.
_____	_____	2. Plan details for the level spreader showing: <ul style="list-style-type: none"> - Forebay (if applicable), - High flow bypass system, - One foot topo lines between the level lip and top of stream bank, - Proposed drainage easement, and - Design at ultimate build-out.
_____	_____	3. Section view of the level spreader showing: <ul style="list-style-type: none"> - Underdrain system (if applicable), - Level lip, - Upslope channel, and - Downslope filter fabric.
_____	_____	4. A date-stamped photograph of the filter strip that clearly shows the type of vegetation that is present.
_____	_____	5. A construction sequence that shows how the level spreader will be protected from sediment until the entire drainage area is stabilized.
_____	_____	6. The supporting calculations.
_____	_____	7. A copy of the operation and maintenance (O&M) agreement.
_____	_____	8. A copy of the deed restrictions (if required).

Revision History:

R1 04/17/2009 Changed elevation units from fmsl to ft; added comment box; ajusted O&E text & legend