3800-PM-BCW0406a Rev. 12/2019 E&S Module 1

## COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF CLEAN WATER



## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES EROSION AND SEDIMENT CONTROL (E&S) MODULE 1

Applicant: Maiden Creek Associates, L.P.		Project Site Name: Proposed Warehouse Facility							
Sur	face Water	Name(s): Peters Creek	Surface Water I	Jse(s):	EV & MF				
	E&S PLAN INFORMATION								
1.	Describe	the existing topographic features of the project s	site and the imm	nediate su	ırrounding area.				
	The existing site is currently used for farming/agriculture. There are no steep slopes located on the property. No								
	residential uses abut the development.								
2.	Complete	the following table for soils present at the project	ct site.						
	Map Unit Symbol	Map Unit Name	Acres	HSG	% of Disturbed Area	Depth (ft)	Hydric		
	DbA	Duffield Silt Loam, 0 to 3 percent slop	oes 5.40	В	6.45	6.5			
	DbB	Duffield Silt Loams, 3 to 8 percent slo	pes 73.94	В	88.34	6.5			
	DfC	Duffield-Ryder Silt Loams, 8 to 15 percentage slopes	cent 4.36	В	5.21	6.5			
	Discuss a	ny soil limitations and how the E&S Plan was de	esigned to addr	ess those	limitations.			_	
	If Hydric s	oils are present, is a wetland determination atta	ched to this mo	dule?	☐ Yes 🖂 N	lo 🗌 N/	'A		
		e known to be contaminated, 1) identify the pol							
		the extent of soil contamination on an E&S Plat will be used to avoid or minimize disturbance						he	
3.	Describe	the characteristics of the earth disturbance acti	vity including t	he nast i	present and propos	ed land u	ses and the	he	
J.		alteration to the project site.	vity, inloidating t	no past, į	oresent and propos	ca lana a	oco ana u		
	In the past 5 years the site has been used for farming/agriculture. In the past 50 years, the site has been used for farming/agriculture. Earth disturbance activity is related to clearing the site and the moving of earthwork/soils.								
	iariiiig/a	igniculture. Earth disturbance activity is relat	ed to clearing	the Site a	and the moving of	earthwor	K/SUIIS.		
4.	Describe	the volume and rate of runoff from the project sit	te and its upstre	eam wate	rshed area.				
	The post development condition of the site maintains the same points of interests and relative drainage patterns as the pre-development condititons. To meet Township and DEP rate requirments three (3) MRC Dry Extended Detention Basins are proposed. The MRC basins also help handle the required water volume & quality requirements in the post-development condition.								

5. Check boxes to indicate all BMPs that will be installed or implemented, identify plan numbers for the BMPs, and describe any deviations from the E&S Manual.							
E&S BMPs	Plan No(s). Identified	Plan No(s). for O&M	Deviation(s) from E&S Manual				
Rock Construction Entrance							
Rock Construction Entrance with Wash Rack	C-612, C-622	C-628					
☐ Rumble Pad							
☐ Wheel Wash							
☐ Temporary and Permanent Access Roads							
☐ Waterbar							
☐ Broad-based Dip							
☐ Open-top Culvert							
☐ Water Deflector							
☐ Roadside Ditch							
☐ Ditch Relief Culvert							
☐ Turnout							
☐ Compost Sock Sediment Trap							
☐ Temporary Stream Crossing							
☐ Temporary Wetland Crossing							
☐ Turbidity Barrier (Silt Curtain)							
☐ Dewatering Work Areas							
☑ Pumped Water Filter Bag	C610- 615,626-630	C-628					
☐ Sump Pit							
☐ Waste Management							
	C-622	C-628					
	C610- 615,626-630	C-628					
☐ Compost Filter Berm							
☐ Weighted Sediment Filter Tube							
Rock Filter Outlet							
Silt Fence (Filter Fabric Fence)							
Reinforced Silt Fence							
☐ Super Silt Fence (Super Filter Fabric Fence)							

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	E&S BMPs	Plan No(s). Identified	Plan No(s). for O&M	Deviation(s) from E&S Manual
	Sediment Filter Log (Fiber Log)			
	Wood Chip Filter Berm			
	Straw Bale Barrier			
	Rock Filter			
	Vegetative Filter Strip			
	Inlet Filter Bag	C626-C630	C-628	
	Stone Inlet Protection			
	Runoff Conveyance (Channel)	C613, C615, C623, C625	C-649	
	Bench			
	Top-of-Slope Berm			
	Temporary Slope Pipe			
	Sediment Basin	C614, C615	C-648	
	Sediment Trap			
	Riprap Apron	C626-C630	C-649	
	Flow Transition Mat			
	Stilling Basin (Plunge Pool)			
	Stilling Well			
	Energy Dissipater			
	Drop Structure			
	Earthen Level Spreader	C625	C647	
	Structural Level Spreader	C644,C645	C647	
	Surface Roughening			
	Vegetative Stabilization			
$\boxtimes$	Erosion Control Blanket	C610- 615,626-630	C-628	
	Soil Binders			
	Sodding			
	Cellular Confinement Systems			
	Alternative:			
	Alternative:			

Table 1 – For PAG-01 applicants, complete the requested information for each selected E&S BMP, where applicable.

Site Access BMPs											
BMP Name	No.	Length (ft)	Width (ft)	% Slope	Spacing (ft)	ι	ength of Jpslope ainage (ft)	Culvert Diameter (in)	Soil Ty	pe in Ditch	E&S Manual Figure/Detail No.
Rock Construction Entrance (RCE)											
RCE with Wash Rack											
Temporary and Permanent Access Roads – Crowned Roadway											
Temporary and Permanent Access Roads – Insloped Roadway											
Waterbar											
Broad-based Dip											
Open-top Culvert											
Water Deflector											
Roadside Ditch											
Ditch Relief Culvert											
Sediment Barriers / Filters						•					
BMP Name	DA (a	c) Diam	neter (in)	Storage Capacity (cf)	Trap Heig	ght	% Slope	Slope L Above Ba		Barrier Height (in)	E&S Manual Figure/Detail No.
Compost Sock Sediment Trap											
Compost Filter Sock											
Compost Filter Berm											
Silt Fence (Filter Fabric Fence)											
Super Silt Fence											
Sediment Filter Log											
Weighted Sediment Filter Tube											
Straw Bale Barrier											
Wood Chip Filter Berm											
Toe-of-Slope Berm											

Table 1 – For PAG-01 applicants, complete the requested information for each selected E&S BMP, where applicable.

Runoff Conveyand	e BMPs														
BMP Name	Temporary	, Desig Storn		ac) Multip	lier	Qr (cfs)	Q (cfs)		ning's n	Va (fp:	V (fps)	D (ft	d (ft)	Flov Dept Ratio	h Figure/Detail
Vegetated Channel															
Sodded Channel															
Riprap Channel															
Energy Reduction	BMPs														
BMP Name	Downstrea to Drainage			nstream % Slope	ı	DA (ac)	Disch (cf			hole th (ft)	Inflow Diamet			et Pipe eter (in)	E&S Manual Figure/Detail No.
Level Spreader															
Drop Structure															
Stilling Basins / W	'ells														
BMP Name	Pipe Diameter (in	Discha	rge (cfs)	Well Diam (in)	neter		of Well nvert (ft)	Basi	n Depth	(ft)	dian Rip Size (in)		Distand Dischar to Basir (f	ge Pipe Center	E&S Manual Figure/Detail No.
Stilling Basin															
Stilling Well															
Other BMPs															
BMP Name	DA (ac)	Pipe Diameter (in)	Berm Height (in)	Length (ft)	% Slope	Verti Spac (ft	ing   C	hannel epth (ft)		orap ize	Riprap hickness (in)		Initial idth (ft)	Termin Width (	
Temporary Slope Pipe															
Bench															
Rock Filter															
Riprap Apron										•				_	

	selected BMPs not identified in be used for design and implemen		the BMP and the Figure or Detail No.	from the E&S Manual that					
	BMP Name	E&S Manual Figure/Detail No.	BMP Name	E&S Manual Figure/Detail No.					
6.		Worksheets from Appendix	B of the E&S Manual have been com	pleted and are attached.					
7.	○ Other worksheets or calculate	tions equivalent to Appendix	B of the E&S Manual have been com	pleted and are attached.					
8.			ne sequence of BMP installation and and after earth disturbance activities						
	C-626								
9.	☐ Supporting E&S calculations	have been completed and a	are available upon request (PAG-01 c	only).					
10.	Supporting E&S calculations	are attached to the NOI/app	olication.						
11.	☐ Plan drawings consist of star	ndard Figures/Construction I	Details in E&S Manual (PAG-01 only)	•					
12.	☑ Plan drawings have been de	eveloped for the project and	are attached to the NOI/application.						
13.		weekly basis and after mea	surable storm events (i.e., at least 0.2	25 inch).					
14.	Identify the following information relating to temporary stabilization measures on an E&S Plan Drawing and identify the Drawing No. below: 1) vegetative species, 2) % pure live seed, 3) seed application rate, 4) fertilizer type, 5) fertilizer application rate, 6) mulch type, 7) mulching rate, and 8) liming rate.								
	E&S Plan Drawing No(s).: C-627								
15.	. Identify the following information relating to permanent stabilization measures on an E&S Plan Drawing and identify the Drawing No. below: 1) vegetative species, 2) % pure live seed, 3) seed application rate, 4) fertilizer type, 5) fertilizer application rate, 6) mulch type, 7) mulching rate, 8) liming rate, 9) anchor material, 10) anchoring method, 11) rate of anchor material application, 12) topsoil placement depth, and 13) seeding season dates.								
	E&S Plan Drawing No(s).: C-627								
16.	Describe the procedures that will be taken to ensure that recycling or disposal of materials associated with or from the project site will be conducted properly.								
	The operator will remove, recycle, or dispose of all building material and wastes in accordance with the departments solid waste management regulations at 25 PA Code 260.1 ET Seq. 271.1 ET Seq. The contractor will not illegally bury, dump, or discharge any building material or waste at this site								
17.	. Identify the presence of any naturally occurring geologic formations or soil conditions that may have the potential to cause pollution during earth disturbance activities. If such formations or conditions exist, identify BMPs that will be implemented to avoid or minimize potential pollution.								
	There are no geological formations or soil conditions that may have the potential to cause pollution during earth disturbance activities.								
18.	Identify whether the potential exists for thermal impacts to surface waters from the earth disturbance activity. If such potential exists, identify BMPs that will be implemented to avoid, minimize, or mitigate potential thermal impacts.								
	and the construction sequence	ce specifies immediate st	lized to filter runoff prior to disch abilization upon completion of dis inimizing the potential for thermal	sturbance or as soon as					

19. 🗵 The E&S Plan has been planned, designed, and will be implemented to be consistent with the PCSM Plan.									
	20. If applicable, identify existing and proposed riparian forest buffers on E&S and PCSM Plan Drawings and identify the Drawing No(s) below (select N/A if not applicable).								
E&S Plan Dra	awing No(s):	] N/A							
PCSM Plan D	Prawing No(s):								
	E&S PLAN DEVELOPER								
☑ I am trained a	nd experienced in E&S control methods.		nsed professional.						
Name:	Cornelius Brown, P.E.	Title:	Principal, Regional Manager						
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<u>Co</u>	ineline Brown		06/30/2023						
E&S	Plan Developer Signature		Date						