By virtue of this seal and signature, all supporting documents included in this package are accurate and support the design presented herein.

DAVID J. WALLNER Lic. No. 0402057593

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PLAN SUBMITTER'S CHECKLIST

FOR EROSION AND SEDIMENT CONTROL PLANS

Please fill in all blanks and reference the plan sheets/pages where the information may be found, where appropriate, or write N/A by items that are not applicable.

GENERAL

PLANS DATED: 1/26/18_____

Plan Sub	omission Date _1/26/18			
Project N	Name Mountain Valley Pipeline Spread 8			
VSMP P	SMP Permit Number			
Site Plan	Number			
Site Addı	ress_N/A			
Annlican	t Mountain Valley Pineline LLC	Phone Number 724 072 2465		
Applican	t Legal Address <u>555 Southpointe Blvd, Suite 200, Cano</u> Mountain Valley Pipeline, LLC	nsburg, PA 15311		
Owner 1	Mountain Valley Pipeline, LLC	Phone Number <u>724 873-3465</u>		
Principal	Designer Dave Wallner, P.E.	Phone Number <u>412 921-8869</u>		
General (Contractor To Be Selected	Phone Number		
	Complete set of plans - Include all sheets pertaining to to activities impacting erosion and sediment control and X Existing conditions Demolition Site grading	,		
	 ☐ Site grading ☐ Erosion and sediment control ☐ Storm sewer systems ☐ Stormwater management facilities ☐ Utility layout ☐ Landscaping ☐ On-site and off-site borrow and disposal areas th 	at do not have separate approved ESC Plans		
Y	<u>Professional's seal</u> - The designer's original seal, s sheet of each Narrative and each set of Plan Sheets. Sheets.			
	Number of plan sets - Two sets of ESC Plans should submitted plans.	be submitted. The DEQ office will retain all		
<u>Y</u>	<u>Variances</u> - Variances requested at the time of plan 840-50 of the <i>Virginia Erosion and Sediment Control</i>			
_X	Certified Responsible Land Disturber (RLD) - A construction, from the initial land disturbance throughout RLD must be provided before any land	igh final site stabilization. The name of the		
PROJECT	NAME:MVP Spread 8	SUBMITTAL#:		

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timely manner if the RLD changes during the course of the project. N/A<u>Local Consideration</u> – Plans have been provided to the applicable jurisdictions. ☐ Dulles Airport (MWAA) ☐ Fairfax County ☐ Loudoun County ☐ Town of Herndon ☐ Dulles Greenway (Trip II) ☐ VDOT CHECKLIST PREPARER I certify that I am a professional in adherence to all minimum standards and requirements pertaining to the practice of that profession in accordance with Chapter 4 (§ 54.1-400 et seq.) of Title 54.1 of the Code of Virginia and attendant regulations. By signing this checklist I am certifying that this document and all attachments are, to the best of my knowledge and belief, true, accurate, and complete. SIGNATURE PRINTED NAME Professional QUALIFICATIONS DAVID J. WALLNER Lic. No. 040205759 PROJECT NAME: __MVP Spread 8_______SUBMITTAL#: PLANS DATED: _1/26/18_____

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PLANS DATED: 1/26/18_____

NARRATI Please refe	IVE rence plan sheet numbers where the information may be found.
<u>Y</u>	<u>Project description</u> - Briefly describe the nature and purpose of the land-disturbing activit Provide the area (acres) to be disturbed.
<u>Y</u>	Existing site conditions - A description of the existing topography (% slopes), ground cover, as drainage (on-site and receiving channels).
<u>Y</u>	<u>Adjacent areas</u> - A description of all neighboring areas such as residential developmen agricultural areas, streams, lakes, roads, etc., that might be affected by the land disturbance.
<u>Y</u>	Off-site areas - Describe any off-site land-disturbing activities that may occur (borrow site disposal areas, easements, etc.). Identify the Owner of the off-site area and the entity responsit for plan review. Include a statement that any off-site land-disturbing activity associated with t project must have an approved ESC Plan. Submit documentation of the approved ESC Plan feach of these sites.
<u>Y</u>	<u>Soils</u> - Provide a description of the soils on the site, giving such information as soil name mapping unit, erodibility, permeability, surface runoff, and a <i>brief</i> description of depth, texture and soil structure. Show the site location on the Soil Survey, if it is available. Include a placehowing the boundaries of each soil type on the development site.
<u>Y</u>	<u>Critical areas</u> - A description of areas on the site that have potentially serious erosion problems that are sensitive to sediment impacts (e.g., steep slopes, watercourses, wet weather / undergrous springs, etc.).
_Y	<u>Erosion and sediment control measures</u> - A description of the structural and vegetative metho that will be used to control erosion and sedimentation on the site. Controls should satis applicable minimum standards and specifications in Chapter 3 of the 1992 <i>Virginia Erosion at Sediment Control Handbook</i> (VESCH) or more stringent local requirements.
_Y	<u>Management strategies / Sequence of construction</u> - Address management strategies, the sequen of construction, and any phasing of installation of ESC measures. Strategies are included in the construction sequence contained on the General Details Plan Set
<u>Y</u>	<u>Permanent stabilization</u> - A brief description, including specifications, of how the site will stabilized after construction is completed.
<u>Y</u>	<u>Maintenance of ESC measures</u> - A schedule of regular inspections, maintenance, and repair erosion and sediment control structures should be set forth.
<u>Y</u>	<u>Calculations for temporary erosion and sediment control measures</u> - For each temporary ES measure, provide the calculations required by the standards and specifications.
<u>Y</u>	<u>Stormwater management considerations</u> - Will the development of the site cause an increase peak runoff rates? Will the increase in runoff cause flooding or channel degradation downstrear Describe the strategy to control stormwater runoff, including during construction.
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_Y	Specifications / Detail Drawings for erosion and sediment sediment control measure employed in the plan, include standard and specification in the VESCH or more string approved variances or revisions to the standards and specifications for stormwater and stormwater management stormwater and stormwater management structures, i.e., prestructures.	le, at a minimum, the detail from the algent local requirements. Include any fications. at structures - Provide specifications for
	structures.	
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SITE PLAN Please refer	AN Serence plan sheet numbers where the information may be found.		
<u>Y</u>	<u>Vicinity map</u> - A small map locating the site in relation to th landmarks that might assist in locating the site.	e surrounding area.	Include any
<u>Y</u>	<u>Indicate north</u> - The direction of north in relation to the site.		
N/A	Off-site areas - Include any off-site land-disturbing activities (etc.) not covered by a separate approved ESC Plan.	e.g., borrow sites, d	isposal areas,
<u>Y</u>	<u>Legend</u> - Provide a complete listing of all ESC measures used code symbol and the standard and specification number. Includentify pertinent features in the plan. Some non-VESCH STD symbols are included and defined in the plan lege	ude any other items	
	<u>Property lines and easements</u> - Show all property and easement list the deed book and page number and the property owner's name		cent property,
<u>Y</u>	Existing vegetation – Show the existing tree lines, grassed areas,	or unique vegetation	1.
Y	<u>Limits of clearing and grading</u> – Delineate all areas that are to be	cleared and graded.	
_Y	<u>Protection of areas not being cleared</u> - Fencing or other measures to protect areas that are not to be disturbed on the site.		
_Y	Critical areas – Note all critical areas on the plan.		
<u>Y</u>	Existing contours – Show the existing contours of the site.		
_N/A	<u>Final contours and elevations</u> – Show changes to the existing opatterns.	contours, including f	inal drainage
_Y	<u>Site development</u> – Show all improvements such as buildings, construction, etc. Show all physical items that could affect or and drainage.		
<u>Y</u>	<u>Location of practices</u> - The locations of erosion and sediment conpractices used on the site. Use the standard symbols and all VESCH.		_
<u>Y</u>	Adequate Conveyances – Ensure that stormwater conveyance adequate erosion resistance have been for provided all on-site Off-site channels that receive runoff from the site, includi stormwater management facilities, must be adequate. Increased diverted to a stable outlet, adequate channel, pipe or pipe systefacility.	concentrated storm ng those receiving d volumes of sheet f	water runoff. runoff from lows must be
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_X		storm drains except roof drains. If the type of pipe on the profiles, then the most conservative pipe nust be used in the adequacy calculations.
_X	<u>Direction of Flow for Conveyances</u> - Indicate (storm drains, stormwater conveyance channel	the direction of flow for all stormwater conveyances s).
	 ▼ Peak runoff calculations □ Stormwater conveyance channel design cal □ Storm drain and storm sewer system design □ Hydraulic Grade Line if any pipe in the sys ▼ Culvert design calculations □ Drop inlet backwater calculations n/a □ Curb inlet length calculations n/a 	
	 ▼ Drainage area map with time of concentrat ▼ T_C calculation/nomograph □ Locality IDF curve n/a ▼ Composite runoff coefficient or RCN calculation 	, , , ,
<u>Y</u>	Calculations for permanent stormwater conveyance or structure, provide the following	onveyances - For each permanent stormwater design calculations, as applicable:
	each of the site drainage areas that discharg x Provide calculations for pre- and post-deve x Ensure that Minimum Standard 19 is sati those that receive runoff from stormwater r x Provide calculations for the design of each	sfied for each off-site receiving channel, including nanagement facilities. permanent stormwater management facility. ows are diverted to a stable outlet, to an adequate vater management facility.

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MINIMUM STANDARDS Plan Sheet

Minimum Standards - All Minimum Standards must be addressed.

Yes	No	NA	A	
	[] [] [] [] [] []	() () () () () () ()	MS-1	Have temporary and permanent stabilization been addressed in the narrative? Are practices shown on the plan? Temporary and permanent seed specifications? Lime and fertilizer? Mulching? Blankets/Matting? Pavement/Construction Road Stabilization?
£]		[]	MS-2	Has stabilization of soil stockpiles, borrow areas, and disposal areas been addressed in the narrative and on the plan? Have sediment trapping measures been provided?
£			MS-3	Has the establishment and maintenance of permanent vegetative stabilization been addressed?
N	[]	[]	MS-4	Does the plan specifically state that sediment-trapping facilities shall be constructed as a first step in land-disturbing activities?
¥]	[]	[]	MS-5	Does the plan specifically state that stabilization of earthen structures is required immediately after installation? Is this noted for each measure on the plan?
[]	N		MS-6	Are sediment traps and sediment basins specified where needed and designed to the standard and specification?
区	[]	[]	MS-7	Have the design and temporary/permanent stabilization of cut and fill slopes been adequately addressed? Is Surface Roughening provided for slopes steeper than 3:1?
权	[]	[]	MS-8	Have adequate temporary or permanent conveyances (paved flumes, channels, slopedrains) been provided for concentrated stormwater runoff on cut and fill slopes?
[3]	[]	[]	MS-9	Has water seeping from a slope face been addressed (e.g., subsurface drains)?
		X	MS-10	Is adequate inlet protection provided for all operational storm drain and culvert inlets?
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Yes	No	NA		
[]				Are adequate outlet protection and/or channel linings provided for all stormwater conveyance channels and receiving channels? Is there a schedule indicating:
[]	[X] [X]	[]		Dimensions of the outlet protection? Lining? Size of riprap? Cross section and slope of the channels? Type of lining? Size of riprap, if used?
	[]	[] M	1 S-12	Are in-stream protection measures required so that channel impacts are minimized?
<u>[</u> k]		[] M	1S-13	Are temporary stream crossings of non-erodible material required where applicable?
	[]	[] M		Are all applicable federal, state and local regulations pertaining to working in or crossing live watercourses being followed?
k	[]	[] N	1 S-15	Has immediate restabilization of areas subject to in-stream construction (bed and banks) been adequately addressed?
[<u>]</u>		[] M		Have disturbances from underground utility line installations been addressed? No more than 500 linear feet of trench open at one time?
[x]				Effluent from dewatering filtered or passed through a sediment-trapping device? Proper backfill, compaction, and restabilization?
<u>[</u> k]	[]	[] M		Is the transport of soil and mud onto public roadways properly controlled? (i.e., Construction Entrances, wash racks, transport of sediment to a trapping facility, cleaning of roadways at the end of each day, no washing before sweeping and shoveling)
K]	[]	[] M		Has the removal of temporary practices been addressed? Have the removal of accumulated sediment and the final stabilization of the resulting disturbed areas been addressed?
[]	[]	[] M	IS-19	Are properties and waterways downstream from development adequately protected from sediment deposition, erosion, and damage due to increases in volume, velocity and peak flow rate of stormwater runoff? Have adequate channels been provided on-site?
			-	
PRC	JE	CT N	AME	: _MVP Spread 8SUBMITTAL#:

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