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PLAN SUBMITTER'S CHECKLIST

FOR STORMWATER MANAGEMENT PLANS

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

GENERAL

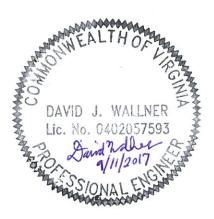
PLANS DATED: 9/08/2017_____

Plan Subm	ission Date						
Site Plan N	Number						
Site Addre	ssN/A						
	Mountain Valley Pipeline, LLC	Phone Number <u>724-873-3465</u>					
Applicant l	Legal Address <u>555 Southpointe Blvd., Suite</u>	200, Canonsburg, PA 15311					
Owner Mc	ountain Valley Pipeline, LLC	Phone Number <u>724-873-3465</u>					
Owner E-n	nail Address						
Principal L	Designer David Wallner, P.E.	Phone Number <u>412-921-8869</u>					
	Designer E-mail Address_ <u>David.Wallner@te</u>	tratech.com					
Total Disti	urbed Area Figure						
X	<u>Professional's seal</u> - The designer's original seal, signature, and date are required on the <i>cove</i> sheet of each Narrative and each set of Plan Sheets. A facsimile is acceptable for subsequent Plan Sheets.						
	Number of plan sets – Attach two sets of	SWM Plans.					
_N/A	<u>Exceptions</u> - Exceptions requested are governed by Section 9VAC25-870-57 of the <i>Virginia Stormwater Management Regulations</i> .						
_N/A	<u>Local Consideration</u> – Provide contact in	formation for the <u>locality's</u> plan review coordinator.					
Name		Phone Number					
_N/A		umentation consistent with the requirements of Section					
	9VAC25-870-48 of the <i>Virginia Stormwo</i>						
_N/A	Offsite Compliance – Attach letter of Section 9VAC25-870-55 of the <i>Virginia</i>	availability from the off-site provider as governed by Stormwater Management Regulations.					
PROJECT	Γ NAME: _MVP Spread 11	SUBMITTAL#:					

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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.



PROJECT NAME:MVP Spread 11	SUBMITTAL#:
PLANS DATED: 9/08/17	

SITE PLANS Please referen

PLANS DATED: 9/08/17

	dress and legal description of the site er(s) of the property or properties affects	e, including the tax reference number(s) and ed.
final site co	onditions, including proposed use of	ite conditions and proposed development and environmental site design techniques and ormation pertaining to long-term maintenance
	I proposed mapping and plans (recommates the following at a minimum:	mended scale of 1" = 50', or greater detail),
X North arrX Legend	ow	
X Vicinity iX Existing aX Property	and proposed topography (minimum of	2-foot contours recommended)
☒ Perennial☒ Mapping specific testthe hydrolog	and intermittent streams of predominant soils from USDA soil bore hole investigations that may have	s surveys as well as the location of any site- e been conducted and information identifying perties of soils used in the installation of
☒ Boundari☒ Locationlakes, pondsbuffers, drin	es of existing predominant vegetation and and boundaries of natural feature proto, aquifers, public drinking water suppliking water well setbacks, septic drainfiention of any on-site or adjacent water be	nd proposed limits of clearing and grading tection and conservation areas (e.g., wetlands, es, etc.) and applicable setbacks (e.g., stream ld setbacks, building setbacks, etc.) toodies included on the Virginia 303(d) list of
	and use and location of existing and pro	posed roads, buildings, parking lots and other
☐ Location ☐ Proposed various uses stormwater r	and description of any planned demolitide land use(s) with a tabulation of the standard but not limited to planner management facilities, and easements	on of existing structures, roads, etc. N/A percentage of surface area to be adapted to d locations of utilities, roads, parking lots,
septic system	of existing and proposed utilities [e.gas), gas, electric, telecommunications, cak specifications	g., water (including wells), sewer (including able TV, etc.] and easements
Show the	ne BMP name, geographic coordina	tes and design of both structural and non- aintenance access and limits of disturbance o any BMP(s) N/A
basins, chan etc.), swales	nels, lateral groundwater movement in , and areas of overland flow, including g	systems, such as storm drains, inlets, catch neterceptors (French drains, agric. tile drains, grades, dimensions, and direction of flow
X Location	inage patterns and flow paths of floodplain/floodway limits and rela nd drainage systems	tionship of site to upstream and downstream
		SUBMITTAL#:

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PLANS D	ATED: 9/08/17
PROJECT	SNAME:MVP Spread 11SUBMITTAL#:
	revegetation
_N/A	Landscaping plans for stormwater control measures and any site reforestation or
_X	Applicable construction and material specifications, including references to applicable material and construction standards (ASTM, etc.)
_X	Representative cross-section and profile drawings and details of stormwater control measures and conveyances which include the following: \[\overline{\text{X}}\] Existing and proposed structural elevations (e.g., inverts of pipes, manholes, etc.) \[\overline{\text{X}}\] Design water surface elevations \[\overline{\text{X}}\] Structural details of BMP designs, outlet structures, embankments, spillways, grade control structures, conveyance channels, etc.
	contributing drainage areas, storage, and outlet configurations, verifying compliance with the water quality and water quantity requirements of the regulations \[\begin{align*} \text{Stage-discharge} \text{ or outlet rating curves and inflow and outflow hydrographs for storage facilities \[\begin{align*} \text{Final analysis of the potential downstream impacts/effects of the project, where necessary \text{Downstream analysis, where detention is proposed N/A} \] \[\begin{align*} \text{Dam safety and breach analysis, where necessary \text{N/A} \]
	volumes, and velocities, showing the methodologies used and supporting calculations ☐ Hydrologic and hydraulic analysis of the stormwater management system for all applicable design storms ☐ Pollution load and load reduction requirements and calculations ☐ Final good engineering and sizing calculations for stormwater control measures, including
	 ☐ Identification and calculation of stormwater site design credits, if any apply N/A ☒ Summary description of the water quantity and water quality compliance strategy. ☒ Time of concentration (and associated flow paths) ☒ Imperviousness of the entire site and each drainage area ☒ NRCS runoff curve numbers or volumetric runoff coefficients ☒ A hydrologic analysis for the existing (pre-development) conditions, including runoff rates volumes, and velocities, showing the methodologies used and supporting calculations ☒ A hydrologic analysis for the proposed (post-development) conditions, including runoff rates
	☒ Site map with locations of design points and drainage areas (size in acres) for runof calculations
	Hydrologic and hydraulic analysis, including the following:
	adjoining parcels ☑ Location and dimensions of proposed channel modifications, such as bridge or culver crossings ☐ Final stabilization and landscaping plans N/A
	☑ Location of all contributing drainage areas and points of stormwater discharge, receiving surface waters or karst features into which stormwater discharges, the pre-development and post development conditions for drainage areas, and the potential impacts of site stormwater or

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PROJECT	Γ NAME:	_MVP Spread	11			SUBMITTA	L#:	
	Other requir	ed permits:						
_X			documents a ood studies, etc.		(e.g.,	infiltration	tests,	geotechnica
_X	Evidence of etc.)	acquisition o	f all necessary le	egal agreeme	ents (e.g.,	easements, c	covenant	ts, land trusts
_N/A	Waiver/exce	eption requests						
_X	Evidence of	acquisition of	all applicable lo	ocal and non-	-local pe	mits In prog	ress	
			l maintenance pagement Program			erned by 9V.	AC25-8	70-112 of the
						V	ersion: F	ebruary 2, 2013

PLANS DATED: <u>9/08/17</u>