	Mountain Valley	Wetland Bio	ological C	onditions EA	Repor	t	
Pi	roject Name H-600 Pipelir	ne Spread F	AFE 12430013	Spread H	l-600 Pipeline	000 Pipeline Spread F	
	Contractor Price Gregory	у	·	Report #	1		
Enviror	nmental Auditor Jessica Yeag	ger	Date/Time 10/10/2023 11				
Wetla	and ID W-K7	Crossing Start D	ate 10/11/2023	Crossing Completi	on Date 11/	6/2023	
Milepost 154.80		Pre-Con Assessment D	Pre-Con Assessment Date 10/10/2023 Post-Con Assessment I			6/2023	
Station 8173+44		Cowardin Classification PEM Wetland Impact Area(acres)0.32				206	
	State WV						
С	County Greenbrier						
	Wara aguipment mats or	Resource Post-Cr r other suitable methods utili			zo soil		
1	compaction and disturba		zed under neavy	equipment to minimiz	ZG 2011	Yes	
2	Was the existing vegetat	ion removed prior to initiatin	g land disturban	ce within the resource	?	Yes	
3	Was the top 1-foot (12-in	nches) of wetland soil segreg	ated and stockp	iled separate from tre	nch spoils?	Yes	
4	Was excess material not	needed for backfill removed	d and disposed o	of in an upland area?		N/A	
5	Was the top 12-inches of	f backfill made with clean na	tive wetland tops	soil?		Yes	
6	Were standard decompaction practices (disking, plowing, cultivating, tilling, or incorporation of organic matter into the topsoil horizon) implemented prior to applying seed?					Yes	
7	Was wetland topsoil replaced and temporarily seeded?					Yes	
8	Was permanent seed applied to unsaturated wetlands?					Yes	
9	Was equipment/timber matting removed from the wetland area properly by vertically lifting, and not pulling through the impact area?					Yes	
10	Were impervious trench breakers/plugs properly installed within 25-feet of the resource to prevent subsurface erosion to or from the resource area?				Yes		
11	Was the pre-construction survey data utilized during restoration in attempt to maintain the original surface hydrology, and were contours re-established to pre-construction conditions to maintain Yes overland flow patterns?					Yes	
12	Have civil surveys been scheduled to verify as-built conditions meet pre-construction conditions in accordance with the project Mitigation Framework and federal/state permit requirements?						
13	Was the time of disturbance minimized by conducting resource work continuously to completion?				Yes		
14	the pre-construction area square footage?				Yes		
15	PFO classified wetlands?					No	
16	Did any unauthorized discharges to unpermitted resources occur during the crossing? If so, explain the corrective actions implemented in the Comments section and include additional photos.				N/A		
47	Wetland Saturation: Are	Biological Condition surface waters, the water table, and		uration	Pre-Con	Post-Con	
17	present? (Select Yes or No) Resource Alterations: Are the wetland soil conditions visibly disturbed? Examples: Livestock presence, haul roads, farm traffic, drain tiles, recent mowing/clear cutting, recent excavating/disking of soils, etc. Rating: 1-Negligible (undisturbed/natural resource), 2-Minor (20-40% of resource disturbed by alterations), 3-Moderate (40-80% of resource disturbed), 4-Poor (>80% of resource disturbed)					No 4	
19	Is vegetation present within the permitted impact area prior to disturbance? (Pre-Con)Are areas properly seeded and stabilized after restoration? (Post-Con) Rating:1-Optimal (60-100% heavy vegetative cover), 2-Sub-optimal (30-60% mixed vegetative coverage), 3-Marginal (<30% vegetative coverage), 4-Poor (Mowed/maintained area or farmland, impervious area, sparsely vegetative coverage, etc.)						

vegetative coverage, etc.)

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Additional Notes

Pre-Construction Notes

Pre-Construction Meeting - 10-9-2023 @ 1300

EI - Andrew Hopson

Pre-Construction Assessment Completed (10/10/2023)

- 17. Pre-Construction Test pit did not contain water or saturated soils; however, soil was clearly hydric.
- 18. Pre-Construction Timber mats in place throughout wetland.
- 10-11-2023 Previously trenched under road to edge of aquatic resource. Mats utilized to remove topsoil from northern most portion of the wetland (Photo 1). Topsoil segregated in work area (Photo 2). Begin excavation of subsoil, hammering, and dewatering of trench
- 10/12/2023 Continued trenching in northern most portion of wetland. Removal of additional topsoil. On-going pumping from trench. Removal of subsoil and hammering of rock. Installed trench box. Pipe placed into wetland resource. Began construction of concrete trench breaker at northern end of resource. Sandbag padding added.
- 10/13/2023 Concrete trench breaker construction (Photo 3) and pumping water ongoing in trench. Sand added to trench. Filling of trench upgradient of wetland (below road surface and on ROW above road). Trench box moved further into resource. Steel plate inserted in trench at northern end of aquatic resource area. Concrete pumped into gap between trench breakers (under road, outside of aquatic resource area).
- 10/14/2023-10/18/2023 Timber mats replaced. Topsoil removed from remainder of resource (Photo 4). Excavating trench from north to south to end of resource. Ongoing pumping and hammering. Sandbag bedding placed in excavated portion of trench. Pipe temporarily placed in trench (10/18/2023).
- 10/19/2023 Pumping water on-going in the trench. Loose soil removed from trench. Pipe lowered into trench in resource area (Photo 5). Began welding. Sandbags bedding and soil added to trench for cushion. Second trench box installed (southern end of resource). Steel plates added. Backfilling of the trench initiated.
- 10/20/20/23-10/24/2023 Pumping water on-going in the trench. Welding, cutting, coating, and sandblasting of pipe. Padding and backfilling of trench in aquatic resource area. Removal of steel plate located adjacent to second trench box (southern end of resource). Trench connected through three aquatic resource W-K7 to S-K17 to W-IJ30. Additional work ongoing outside of aquatic resource area.
- 10/25/2023 Pumping water on-going in the trench. Sandbag padding added to trench. Placing pipe that runs from edge of W-K7, through S-K17, to S-IJ30. Additional work ongoing outside of aquatic resource area.
- 10-26-2023 Pumping water ongoing in the trench. Welding, x-ray, sandblasting and coating in trench. Stop work due to vehicular accident. Resumed after additional safety discussions. Additional work ongoing outside of aquatic resource area.
- 10/27/2023 Pumping water ongoing in the trench. Trench breaker constructed (Photo 6) and backfilling adjacent to aquatic resource. Test stick moved to outside wetland boundary.
- 10/28/2023 Pumping water ongoing in the trench. Height added to trench breakers adjacent to aquatic resource. Backfilling of trench in and adjacent to aquatic resource (Photo 7). Survey onsite. Restoration of adjacent aquatic resource initiated.
- 10/30/2023 Pumping water ongoing in the trench. Backfilling of trench in and adjacent to aquatic resource. Additional sandbags added to trench breaker on southern end of aquatic resource. Trench box removed from southern portion of aquatic resource. 10/31/2023 Work ongoing outside of resource area.
- 11/1/2023 Work ongoing outside of resource area. Added topsoil to area between wetland and stream resources. Began adding topsoil to aquatic resource area.
- 11/2/2023 Removal of road plates at northern end of resource area (adjacent to road). Backfilling upland soil along northern edge of resource area. Grade of this portion of the wetland. Replacing wetland soil in the northern portion of the wetland. Seeding this portion of the wetland. Start to replace wetland mats including placing geotech over topsoil, to aquatic resource area utilized to access work area adjacent to ROW.
- 11/3/2023 Continue moving timber mats in resource area (Photo 8) and laying geotech in timber mat area. Restoring topsoil in resource area.
- 11/4/2023 Hand working topsoil in wetland area.
- 11/6/2023 Final seeding of resource area.

Post Construction Notes

- 17. Water did not recharge in post construction test pit.
- 18. Crossing and riparian areas have been recently restored. These areas will be monitored until 80% vegetative coverage has been achieved and areas that do not have 80% vegetative cover within 30 days will be reseeded. Timber mat remains in place for travel lane and work area access.

In accordance with the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework, this independent report was completed to document the on-site monitoring of instream invertebrate and fisheries resources during all construction activity related to waterbody and wetland crossings, and document instream conditions and any impacts to the resources.

Name	Signature	Company	Date
Jessica Yeager	Jesica Grager	Potesta	11/6/2023

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		l Photos			
Date & fine Tuer Oct 10 z Pesision (337 849241 - 2) Altitude (24921 - 31 4dh) Datur (1755-164 Azimuth Rear no. 355 kM Elevation Angle (21/3 - 20/2 km) W. F.F. Rossovenin LOD MVP	80 75776AL (c-16-719)		Data June, Tue Opri 10, 20 Position of Web 26,600 9, 68 Anthor Residue 155 of the Control of Section 155 of the Control of Sec	10 50256 2026 611	
GPS Location			GPS Location		
Description	View of permitted resource impact a pre-construction assessment.	rea during	Description		view of unimpacted resource area pre-construction assessment.
Position - 987 663337 - 98 Attitude 2047 in 1936 in 19			Postform (IRE) (FREE III III III III III III III III III	B 1980mille (rus (art?")	
GPS Location	See Photo		GPS Location	See Photo	
Description	View of permitted resource impact a post-construction assessment.	rea during	Description		view of unimpacted resource area post-construction assessment.
Date & Time: Wed. Oct 11. Position - 1937 863953 Allifude: 2477H Error Datum: WSS - 84. Azimuth Bearing 1746 Ni Elevation Anoly Loom: 1.0X beging subsoil remove MYP	2023 13 04 63 EDT 180 75 890 74 (Error) See Photo		Chais & Three Wed, Cet 11, 2 Penation - etts / Author /	R. ASSAURATION (Server)	
GPS Location	See Photo Photo 1: Removal of wetland tops				rated wotland tensoil
Description	northern portion of the aquatic res		Description	Pnoto 2: Segreg	gated wetland topsoil.

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