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Fish Spawning Waiver Request- Mountain Valley Pipeline															
Submitted by : Matt Hoover Date:03/28/2018															
	Project ID	Stream Name	Stream Regime	County	Latitude	Longitude	Temporary or Permanent	Proposed Date of Impact	Duration of In-Stream Impact (Working Days)	Purpose for Impact	Linear Feet of Impact	WHICHEVER APPLIES: Linear Feet of Bank Work, Culvert-Bridge Width OR Length/Pipeline Size	Riparian Revegetation Plan/Permanent Treatment	Comment/Rationale for Waiver Request	WVDNR Approval/ Denial
1	S-ST14	UNT to Mobley Run	Ephemeral	Wetzel	39.562629	-80.541666	Permanent	4/1/2018 - 6/30/18	2	Station	102	102	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
2	S-ST14	UNT to Mobley Run	Ephemeral	Wetzel	39.562580	-80.541378	Temporary	4/1/2018 - 6/30/18	2	Station	79	79	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
3	S-QR34	UNT to Stout Run	Ephemeral	Wetzel	39.489083	-80.520519	Temporary and Permanent	4/1/2018 - 6/30/18	3	Access Road	133	125	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
4	S-A114	UNT to Sams Run	Ephemeral	Wetzel	39.481424	-80.518386	Temporary	4/1/2018 - 6/30/18	2	Access Road	61	20	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
5	S-B79	UNT to Big Elk Creek	Ephemeral	Harrison	39.423499	-80.476392	Temporary and Permanent	4/1/2018 - 6/30/18	2	Access Road	90	60	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
6	S-B78	UNT to Big Elk Creek	Ephemeral	Harrison	39.422669	-80.477546	Temporary and Permanent	4/1/2018 - 6/30/18	2	Access Road	97	89	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
7	S-OP12	UNT to Indian Run	Ephemeral	Harrison	39.323854	-80.528616	Permanent	4/1/2018 - 6/30/18	2	Access Road	54	20	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
8	S-OP8	UNT to Indian Run	Ephemeral	Harrison	39.320959	-80.526445	Temporary	4/1/2018 - 6/30/18	2	Access Road	41	20	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
9	S-OP9	UNT to Indian Run	Ephemeral	Harrison	39.320682	-80.526449	Temporary	4/1/2018 - 6/30/18	2	Access Road	36	20	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
10	S-K74	UNT to Coburn Fork	Ephemeral	Harrison	39.243647	-80.553903	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	36	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
11	TTWV-S-2 (S-CV9)	UNT of Turtletree Fork	Ephemeral	Harrison	39.223690	-80.548273	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	87	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
12	S-K55	UNT to Big Issac Creek	Ephemeral	Doddridge	39.207657	-80.552852	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	15	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
13	S-K58	UNT to Big Issac Creek	Ephemeral	Doddridge	39.205595	-80.553224	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	78	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
14	S-K59	UNT to Big Issac Creek	Ephemeral	Doddridge	39.204704	-80.553272	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	76	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
15	S-K60	UNT to Big Issac Creek	Ephemeral	Doddridge	39.203779	-80.553410	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	97	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve

1 Definitions for Rationale are listed below

Access to ROW/Extended Environmental Impacts: By allowing instream crossings during the restricted period, Mountain Valley will be able to permanently restore more continuous sections of ROW. If the crossing is delayed until later in the year, the ROW leading to and from can only be temporarily restored because construction equipment will need to return to the stream crossing. Travelling to and from the stream crossing will disturb any area that has been restored to final grading and seeded/mulched. In addition, leaving these areas in the temporary restoration phase creates the potential for sedimentation issues and revegetation.

Steep Slopes: All slopes over 20 degrees will require a winching/anchoring system to safely complete the project. The stream installations need to be in place to lay the hillside because in these steep slope situations, the pipe installation starts at the bottom of the hill and proceeds up the hill. As the pipe is laid up the slope, the area can be backfilled and restored as the project progresses and this eliminates the need to return to the site.

Slip Mitigation: Slip potential can also be minimized by reducing the number of crossings up and down these steep slopes. Similar to installing the permanent vegetation and restoration, being able to install the slip mitigation measures during the initial pass through, will enable Mountain Valley to immediately stabilize and install any required slip mitigation measures.

Safety: Safety is the most important part of this project. Constructing in West Virginia is an inherently complicated task especially along the steep slopes, by not having waivers, we would need to make multiple passes up and down winch hills. Our goal is to have the contractor winch and anchor one time along these areas – the less the contractor needs to engage in this process, the less they are exposed to the risks.

Road Crossings: Mountain Valley would like to simultaneously conduct the stream crossings adjacent to the roadways. This reduces the potential for additional stream impacts by reducing the number of trips to and near the streams.

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Fish Spawning Waiver Request- Mountain Valley Pipeline															
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	Project ID	Stream Name	Stream Regime	County	Latitude	Longitude	Temporary or Permanent	Proposed Date of Impact	Duration of In-Stream Impact (Working Days)	Purpose for Impact	Linear Feet of Impact	WHICHEVER APPLIES: Linear Feet of Bank Work, Culvert-Bridge Width OR Length/Pipeline Size	Riparian Revegetation Plan/Permanent Treatment	Comment/Rationale for Waiver Request	WVDNR Approval/ Denial
1	S-UV8	UNT to Right Fork Freemans Creek	Ephemeral	Lewis	39.112625	-80.589433	Temporary and Permanent	4/1/2018 - 6/30/18	3	ATWS/Access Road	133	62	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
2	S-B71	UNT to Left Fork Freemans Creek	Ephemeral	Lewis	39.078292	-80.583103	Temporary	4/1/2018 - 6/30/18	2	Access Road	53	53	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
3	S-B69	UNT to Left Fork Freemans Creek	Ephemeral	Lewis	39.077790	-80.582932	Temporary	4/1/2018 - 6/30/18	2	Access Road	86	86	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
4	S-B70	UNT to Left Fork Freemans Creek	Ephemeral	Lewis	39.077766	-80.582690	Temporary	4/1/2018 - 6/30/18	2	Access Road	89	89	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
5	S-H184	UNT to Left Fork Freemans Creek	Ephemeral	Lewis	39.069684	-80.580583	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	70	70	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
6	S-H184a	UNT to Left Fork Freemans Creek	Ephemeral	Lewis	39.069645	-80.580591	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	71	71	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
7	S-H183	UNT to Left Fork Freemans Creek	Ephemeral	Lewis	39.069170	-80.580751	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	21	21	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
8	S-H172	UNT to Leading Creek	Ephemeral	Lewis	39.057704	-80.581416	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	109	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
9	S-H170	UNT to Leading Creek	Ephemeral	Lewis	39.053159	-80.582083	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	75	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
10	S-KK3a	UNT to Laurel Run	Ephemeral	Lewis	39.019605	-80.597895	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	221	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
11	S-K38	UNT to Rock Run	Ephemeral	Lewis	38.992357	-80.592929	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	89	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
12	S-H152	UNT to Sugar Camp Run	Ephemeral	Lewis	38.922565	-80.579100	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	16	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
13	S-H166	UNT to Indian Fork	Ephemeral	Lewis	38.918893	-80.573461	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	16	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
14	S-H165	UNT to Indian Fork	Ephemeral	Lewis	38.918602	-80.573256	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	144	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
15	S-H167	UNT to Indian Fork	Ephemeral	Lewis	38.918489	-80.573480	Temporary	4/1/2018 - 6/30/18	2	ATWS	37	37	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
16	S-H144	UNT to Threelick Run	Ephemeral	Lewis	38.916132	-80.571681	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	76	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
17	S-VV11	UNT to Second Big Run	Ephemeral	Lewis	38.903610	-80.563186	Temporary	4/1/2018 - 6/30/18	1	Pipeline ROW	7	7	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
18	S-VV20	UNT to Second Big Run	Ephemeral	Lewis	38.900233	-80.563491	Temporary	4/1/2018 - 6/30/18	2	Access Road	40	20	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
19	S-VV20	UNT to Second Big Run	Ephemeral	Lewis	38.900178	-80.563184	Temporary	4/1/2018 - 6/30/18	2	Access Road	44	20	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
20	S-VV19	UNT to Second Big Run	Ephemeral	Lewis	38.899505	-80.563925	Temporary	4/1/2018 - 6/30/18	2	Access Road	62	20	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
21	S-VV16	UNT to Second Big Run	Ephemeral	Lewis	38.896271	-80.566551	Temporary	4/1/2018 - 6/30/18	2	Access Road	293	20	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve
22	S-VV22	UNT to Oil Creek	Ephemeral	Lewis	38.890435	-80.550982	Temporary and Permanent	4/1/2018 - 6/30/18	2	Access Road	43	26	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approve

23	S-VV21	UNT to Oil Creek	Ephemeral	Lewis	38.890236	-80.553817	Temporary and Permanent	4/1/2018 - 6/30/18	2	Pipeline ROW	18	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approve
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1	S-A106	UNT to Kincheloe Creek	Ephemeral	Harrison	39.168435	-80.577625	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	168	12	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approved
2	S-A105	UNT to Kincheloe Creek	Ephemeral	Harrison	39.168266	-80.577815	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	138	12	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts	Approved

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1	S-VV2	Clover Fork	Perennial	Braxton	38.862730	-80.525128	Temporary	04/01/18	2	Pipeline ROW	90	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
2	S-VV3	UNT to Clover Fork	Ephemeral	Braxton	38.862706	-80.525247	Temporary	04/01/18	2	Pipeline ROW	18	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
3	S-OP4	UNT to Barbecue Run	Intermittent	Braxton	38.843150	-80.517662	Permanent	04/01/18	2	Access Road	48	48	Replant/Reseed/Mulch	Installing culvert at Crossing	Approve
4	S-L51	Barbecue Run	Perennial	Braxton	38.839355	-80.519693	Temporary	04/01/18	4	Pipeline ROW	103	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
5	S-J37	UNT to Barbecue Run	Intermittent	Braxton	38.839133	-80.519716	Temporary	04/01/18	2	Pipeline ROW	89	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
6	S-L60	Left Fork Knawl Creek	Perennial	Braxton	38.824034	-80.524988	Temporary	04/01/18	2	Pipeline ROW	75	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
7	S-LL1	Knawl Creek	Perennial	Braxton	38.823595	-80.525342	Temporary	04/01/18	2	Pipeline ROW	88	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
8	S-IJ28	UNT to Little Knawl Creek	Perennial	Braxton	38.810203	-80.550597	Permanent	04/01/18	2	Access Road	28	28	Replant/Reseed/Mulch	Installing culvert at Crossing	Approve
9	S-IJ31	UNT to Little Knawl Creek	Intermittent	Braxton	38.810006	-80.540995	Permanent	04/01/18	4	Access Road	103	74	Replant/Reseed/Mulch	Culvert Replacement	Approve
10	S-IJ31-Braid	UNT to Little Knawl Creek	Ephemeral	Braxton	38.809680	-80.541408	Permanent	04/01/18	2	Access Road	84	53	Replant/Reseed/Mulch	Installing culvert at Crossing	Approve
11	S-IJ32	UNT to Little Knawl Creek	Ephemeral	Braxton	38.809457	-80.537428	Permanent	04/01/18	2	Permanent Access Road	42	26	Replant/Reseed/Mulch	Installing culvert at Crossing	Approve
12	S-IJ30	UNT to Little Knawl Creek	Ephemeral	Braxton	38.808309	-80.543963	Temporary		1	Temporary Access Road	5	5	Replant/Reseed/Mulch	Temporary Crossing	Approve
13	S-IJ27	Little Knawl Creek	Perennial	Braxton	38.809619	-80.541463	Permanent	04/01/18	2	Permanent Access Road	66	26	Replant/Reseed/Mulch	Installing culvert at Crossing	Approve
14	S-IJ27	Little Knawl Creek	Perennial	Braxton	38.808958	-80.543128	Permanent	04/01/18	4	Permanent Access Road	180	117	Replant/Reseed/Mulch	Installing culvert at Crossing	Approve
15	S-IJ27	Little Knawl Creek	Perennial	Braxton	38.808539	-80.547202	Permanent	04/01/18	4	Permanent Access Road	115	49	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
16	S-IJ27	Little Knawl Creek	Perennial	Braxton	38.808242	-80.546896	Permanent	04/01/18	4	Permanent Access Road	101	30	Replant/Reseed/Mulch	Installing culvert at Crossing	Approve
17	S-IJ27	Little Knawl Creek	Perennial	Braxton	38.808197	-80.544673	Permanent	04/01/18	4	Permanent Access Road	279	225	Replant/Reseed/Mulch	Installing culvert and road widening	Approve
18	S-QR30	UNT to Little Knawl Creek	Perennial	Braxton	38.807940	-80.535715	Temporary	05/01/18	2	Pipeline ROW	79	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
19	S-JJ1	UNT to Keith Run	Perennial	Braxton	38.786930	-80.530028	Temporary	05/01/18	2	Pipeline ROW	82	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
20	S-I60	UNT to Falls Run	Intermittent	Braxton	38.781068	-80.524577	Temporary	05/01/18	2	Pipeline ROW	75	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
21	S-J70	Falls Run	Perennial	Braxton	38.780824	-80.527848	Temporary	05/01/18	2	Temporary Access Road	40	20	Replant/Reseed/Mulch	Temporary Crossing	Approve
22	S-J70	Falls Run	Perennial	Braxton	38.779616	-80.526217	Temporary	05/01/18	2	Temporary Access Road	66	20	Replant/Reseed/Mulch	Temporary Crossing	Approve
23	S-J70	Falls Run	Perennial	Braxton	38.778955	-80.525862	Temporary	05/01/18	2	Pipeline ROW	77	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
24	S-K34	Hemp Patch Run	Intermittent	Braxton	38.766123	-80.520308	Temporary	05/01/18	2	Pipeline ROW	75	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
25	S-K33	UNT to Hemp Patch Run	Ephemeral	Braxton	38.765714	-80.520032	Temporary	05/01/18	2	Pipeline ROW	81	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
26	S-K33	UNT to Hemp Patch Run	Ephemeral	Braxton	38.765534	-80.519889	Temporary	05/01/18	2	ATWS	259	40	Replant/Reseed/Mulch	Work Area with two Crossings	Approve

27	S-H124	UNT to Elliott Run	Perennial	Braxton	38.761100	-80.514934	Temporary	05/01/18	2	Pipeline ROW	26	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
28	S-H125	UNT to Elliott Run	Perennial	Braxton	38.760442	-80.513764	Temporary	05/01/18	1	Pipeline ROW	2	2	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
29	S-H123	UNT to Elliott Run	Perennial	Braxton	38.761197	-80.514887	Temporary	05/01/18	2	Pipeline ROW	82	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
30	S-H123	UNT to Elliott Run	Perennial	Braxton	38.760426	-80.513624	Temporary	06/01/18	2	Pipeline ROW	82	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
31	S-H127	UNT to Elliott Run	Intermittent	Braxton	38.755029	-80.513692	Temporary	06/01/18		Pipeline ROW	82	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
32	S-L50	UNT to Little Kanawha River	Intermittent	Braxton	38.753948	-80.515649	Temporary	06/01/18	2	ATWS/Temporary Access Road	126	40	Replant/Reseed/Mulch	Temporary Crossing/Work Space	Approve
33	S-L50	UNT to Little Kanawha River	Intermittent	Braxton	38.751904	-80.514702	Temporary	06/01/18	2	Pipeline ROW	43	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
34	S-L49	Elliott Run	Perennial	Braxton	38.751592	-80.514533	Temporary	06/01/18	2	Temporary Access Road	73	20	Replant/Reseed/Mulch	Temporary Crossing	Approve
35	S-L49	Elliott Run	Perennial	Braxton	38.751537	-80.514789	Temporary	06/01/18	2	Pipeline ROW	60	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
36	S-H131	UNT to Little Kanawha River	Ephemeral	Braxton	38.749215	-80.514370	Temporary	06/01/18	2	Pipeline ROW	64	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
37	S-H130	UNT to Little Kanawha River	Ephemeral	Braxton	38.748751	-80.515247	Temporary	06/01/18	2	Pipeline ROW	25	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
38	S-QR25	UNT to Little Kanawha River	Ephemeral	Braxton	38.743848	-80.521838	Temporary	06/01/18	2	Temporary Access Road	69	20	Replant/Reseed/Mulch	Temporary Crossing	Approve
39	S-H132b-Braid	Little Kanawha River	Ephemeral	Braxton	38.743164	-80.527213	Temporary	06/01/18	2	Temporary Access Road	14	20	Replant/Reseed/Mulch	Temporary Crossing	Approve
40	S-H117	Stonecoal Run	Perennial	Braxton	38.731388	-80.505907	Temporary	06/01/18	2	Temporary Access Road	57	20	Replant/Reseed/Mulch	Temporary Crossing	Approve
41	S-H117	Stonecoal Run	Perennial	Braxton	38.731020	-80.506280	Temporary	06/01/18	2	Pipeline ROW	82	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
42	S-AA12-EPH	UNT to Laurel Run	Ephemeral	Braxton	38.723574	-80.502080	Temporary	06/01/18	2	Station	31	20	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
43	S-L46	UNT to Laurel Run	Perennial	Braxton	38.721880	-80.499258	Temporary	06/01/18	2	Pipeline ROW	78	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
44	S-L44	UNT to Laurel Run	Perennial	Braxton	38.716945	-80.494589	Temporary	06/01/18	2	Pipeline ROW	81	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
45	S-I53	UNT to Laurel Run	Ephemeral	Braxton	38.713940	-80.491855	Temporary	06/01/18	1	Pipeline ROW	9	9	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
46	S-UV13	UNT to Granny Creek	Ephemeral	Braxton	38.709858	-80.664829	Temporary	06/01/18	2	Temporary Access Road	44	20	Replant/Reseed/Mulch	Temporary Crossing	Approve
47	S-UV14	UNT to Granny Creek	Ephemeral	Braxton	38.709425	-80.664231	Temporary	06/01/18	2	Temporary Access Road	65	20	Replant/Reseed/Mulch	Temporary Crossing	Approve
48	S-I57	Mudlick Run	Perennial	Braxton	38.697413	-80.489560	Temporary	06/01/18	2	Pipeline ROW	77	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
49	S-A96/A103	UNT to Left Fork Holly River	Ephemeral	Webster	38.688706	-80.478590	Temporary	06/01/18	2	Pipeline ROW	83	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
50	S-A99	UNT to Left Fork Holly River	Ephemeral	Webster	38.688120	-80.478371	Temporary	06/01/18	2	Pipeline ROW	34	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
51	S-A101	UNT to Mudlick Run	Ephemeral	Webster	38.686679	-80.479058	Temporary	06/01/18	2	Temporary Access Road	47	20	Replant/Reseed/Mulch	Temporary Crossing	Approve
52	S-A102	UNT to Mudlick Run	Ephemeral	Webster	38.685865	-80.479868	Temporary	06/01/18	2	Temporary Access Road	85	20	Replant/Reseed/Mulch	Temporary Crossing	Approve
53	S-E76	UNT to Left Fork Holly River	Ephemeral	Webster	38.674988	-80.477360	Temporary	06/01/18	2	Pipeline ROW	51	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
54	S-KK1	UNT to Left Fork Holly River	Ephemeral	Webster	38.672719	-80.476227	Temporary	06/01/18	2	Pipeline ROW	9	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
55	S-KK2	UNT to Left Fork Holly River	Ephemeral	Webster	38.672226	-80.476315	Temporary	06/01/18	2	Pipeline ROW	75	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
56	S-KK3b	UNT to Left Fork Holly River	Ephemeral	Webster	38.672110	-80.476515	Temporary	06/01/18	2	Pipeline ROW	100	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve

57	S-KK4b	UNT to Left Fork Holly River	Ephemeral	Webster	38.671976	-80.476825	Temporary	06/01/18	2	Pipeline ROW	88	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
58	S-S1	UNT to Oldlick Creek	Ephemeral	Webster	38.667251	-80.480186	Temporary	06/01/18	2	Temporary Access Road	43	20	Replant/Reseed/Mulch	Temporary Crossing	Approve
59	S-S1	UNT to Oldlick Creek	Ephemeral	Webster	38.667020	-80.478624	Temporary	06/01/18	2	Pipeline ROW	21	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
60	S-S3	UNT to Oldlick Creek	Ephemeral	Webster	38.665757	-80.482481	Temporary	06/01/18	2	Temporary Access Road	104	20	Replant/Reseed/Mulch	Temporary Crossing	Approve
61	S-S4	UNT to Oldlick Creek	Ephemeral	Webster	38.664389	-80.484709	Temporary	06/01/18	2	Temporary Access Road	45	20	Replant/Reseed/Mulch	Temporary Crossing	Approve
70	S-H110	UNT to Houston Run	Ephemeral	Webster	38.587200	-80.509634	Temporary	06/01/18	2	Pipeline ROW	584	30	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
71	S-A93	UNT to Camp Creek	Ephemeral	Webster	38.556823	-80.535751	Temporary	06/01/18	2	Temporary Access Road	13	13	Replant/Reseed/Mulch	Temporary Crossing	Approve
72	S-A93	UNT to Camp Creek	Ephemeral	Webster	38.556682	-80.535572	Temporary	06/01/18	2	Pipeline ROW	105	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
73	S-A92	UNT to Camp Creek	Ephemeral	Webster	38.556961	-80.536397	Temporary	06/01/18	2	Temporary Access Road	138	20	Replant/Reseed/Mulch	Temporary Crossing	Approve
74	S-A92	UNT to Camp Creek	Ephemeral	Webster	38.556658	-80.535607	Temporary	06/01/18	2	Pipeline ROW	59	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
75	S-H108	Lower Laurel Fork	Perennial	Webster	38.549358	-80.539260	Temporary	05/01/18	2	Pipeline ROW	78	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
76	S-B48	UNT to Amos Run	Ephemeral	Webster	38.495356	-80.560429	Temporary	04/01/18	2	Temporary Access Road	69	69	Replant/Reseed/Mulch	Temporary Crossing	Approve
77	S-B34	Amos Run	Perennial	Webster	38.493956	-80.560990	Temporary	04/01/18	2	Pipeline ROW	81	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
78	S-B35	UNT to Amos Run	Intermittent	Webster	38.493884	-80.560969	Temporary	04/01/18	2	Pipeline ROW	80	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
79	S-B36	UNT to Amos Run	Ephemeral	Webster	38.493819	-80.560919	Temporary	04/01/18	2	Pipeline ROW	72	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
80	S-B37	UNT to Amos Run	Intermittent	Webster	38.493750	-80.560898	Temporary	04/01/18	2	Pipeline ROW	82	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
81	S-B38	UNT to Amos Run	Ephemeral	Webster	38.493723	-80.560843	Temporary	04/01/18	2	Pipeline ROW	43	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
82	S-B42	UNT to Amos Run	Ephemeral	Webster	38.493645	-80.560892	Temporary	04/01/18	4	Pipeline ROW	101	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
83	S-B45	UNT to Amos Run	Ephemeral	Webster	38.493394	-80.560786	Temporary	04/01/18	4	Pipeline ROW	177	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
84	S-B39b	UNT to Amos Run	Ephemeral	Webster	38.493532	-80.560792	Temporary	04/01/18	4	Pipeline ROW	142	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
85	S-B39b	UNT to Amos Run	Ephemeral	Webster	38.493352	-80.560574	Temporary	04/01/18	1	Pipeline ROW	3	3	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
86	S-B39a/B46	UNT to Amos Run	Ephemeral	Webster	38.493363	-80.560657	Temporary	04/01/18	4	Pipeline ROW	110	3	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
87	S-B39a/B46	UNT to Amos Run	Intermittent	Webster	38.493227	-80.560529	Temporary	04/01/18	2	Pipeline ROW	11	3	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve
88	S-B43	UNT to Amos Run	Ephemeral	Webster	38.492227	-80.560443	Temporary	04/01/18	4	Pipeline ROW	156	12	Replant/Reseed/Mulch	Access to ROW/Extended Environmental Impacts	Approve

1 Definitions for Rationale are listed below

Access to ROW/Extended Environmental Impacts: By allowing instream crossings during the restricted period, Mountain Valley will be able to permanently restore more continuous sections of ROW. If the crossing is delayed until later in the year, the ROW leading to and from can only be temporarily restored because construction equipment will need to return to the stream crossing. Travelling to and from the stream crossing will disturb any area that has been restored to final grading and seeded/mulched. In addition, leaving these areas in the temporary restoration phase creates the potential for sedimentation issues and revegetation.

Steep Slopes: All slopes over 20 degrees will require a winching/anchoring system to safely complete the project. The stream installations need to be in place to lay the hillside because in these steep slope situations, the pipe installation starts at the bottom of the hill and proceeds up the hill. As the pipe is laid up the slope, the area can be backfilled and restored as the project progresses and this eliminates the need to return to the site.

Instructions: Complete the data fields shown in red for proposed stream impacts. Once the appropriate information has been received, the applicable WVDNR Fisheries Biologists will be contacted for review. For more information, contact Danielle.A.Elliott@wv.gov or call the WVDNR Coordination Unit at the Elkins Operations Center at 304-637-0245.

Fish Spawning Waiver Request- Mountain Valley Pipeline															
Submitted by ; Date:															
	Project ID	Stream Name	Stream Regime	County	Latitude	Longitude	Temporary or Permanent	Proposed Date of Impact	Duration of In-Stream Impact (Working Days)	Purpose for Impact	Linear Feet of Impact	WHICHEVER APPLIES: Linear Feet of Bank Work, Culvert-Bridge Width OR Length/Pipeline Size	Riparian Revegetation Plan/Permanent Treatment	Comment/Rationale for Waiver Request	WVDNR Approval/ Denial
1	S-E49	UNT to Gauley River	Ephemeral	Nicholas	38.365574	-80.613141	Temporary	4/1/18-6/30/18	2	Pipeline ROW	88	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
3	S-F21	Barn Run	Perennial	Nicholas	38.355859	-80.633328	Temporary	4/1/18-6/30/18	2	Pipeline ROW	18	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
4	S-F20	Barn Run	Perennial	Nicholas	38.355800	-80.633223	Temporary	4/1/18-6/30/18	2	Pipeline ROW	77	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
5	S-IJ57	UNT to Barn Run	Perennial	Nicholas	38.352362	-80.636401	Temporary	4/1/18-6/30/18	2	Pipeline ROW	82	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
6	S-IJ59	UNT to Barn Run	Ephemeral	Nicholas	38.348372	-80.641152	Temporary	4/1/18-6/30/18	2	Pipeline ROW	60	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
7	S-IJ60	UNT to Rockcamp Run	Perennial	Nicholas	38.343699	-80.644721	Temporary	4/1/18-6/30/18	2	Pipeline ROW	77	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
8	S-IJ62	UNT to Cherry Run	Intermittent	Nicholas	38.343547	-80.647035	Temporary	4/1/18-6/30/18	2	Pipeline ROW	79	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
9	S-B28	Cherry Run	Perennial	Nicholas	38.340083	-80.655413	Temporary	4/1/18-6/30/18	2	Pipeline ROW	137	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
10	S-A74	UNT to Big Beaver Creek	Ephemeral	Nicholas	38.325540	-80.670150	Temporary	4/1/18-6/30/18	2	Pipeline ROW	75	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
11	S-A72	UNT to Big Beaver Creek	Ephemeral	Nicholas	38.321687	-80.670952	Temporary	4/1/18-6/30/18	2	Pipeline ROW	43	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
12	S-A71	UNT to Big Beaver Creek	Perennial	Nicholas	38.321572	-80.670958	Temporary	4/1/18-6/30/18	2	Pipeline ROW	97	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
13	S-A71-Braid	UNT to Big Beaver Creek	Intermittent	Nicholas	38.321548	-80.670969	Temporary	4/1/18-6/30/18	2	Pipeline ROW	89	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve

	Project ID	Stream Name	Stream Regime	County	Latitude	Longitude	Temporary or Permanent	Proposed Date of Impact	Duration of In-Stream Impact (Working Days)	Purpose for Impact	Linear Feet of Impact	WHICHEVER APPLIES: Linear Feet of Bank Work, Culvert-Bridge Width OR Length/Pipeline Size	Riparian Revegetation Plan/Permanent Treatment	Comment/Rationale for Waiver Request	WVDNR Approval/Denial
14	S-A67	UNT to Big Beaver Creek	Perennial	Nicholas	38.317575	-80.671553	Temporary	4/1/18-6/30/18	2	Pipeline ROW	76	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
15	S-A69	UNT to Big Beaver Creek	Intermittent	Nicholas	38.317217	-80.671495	Temporary	4/1/18-6/30/18	2	Pipeline ROW	82	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
16	S-A69	UNT to Big Beaver Creek	Intermittent	Nicholas	38.317089	-80.671565	Temporary	4/1/18-6/30/18	2	Pipeline ROW	16	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
17	S-H100	UNT to Big Beaver Creek	Perennial	Nicholas	38.313275	-80.673645	Temporary	4/1/18-6/30/18	2	Pipeline ROW	77	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
18	S-H99	UNT to Big Beaver Creek	Perennial	Nicholas	38.313105	-80.673751	Temporary	4/1/18-6/30/18	2	Pipeline ROW	94	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
19	S-H95	UNT to Big Beaver Creek	Ephemeral	Nicholas	38.309738	-80.675733	Temporary	4/1/18-6/30/18	2	Pipeline ROW	259	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
20	S-A64	UNT to Granny Run	Ephemeral	Nicholas	38.304538	-80.673827	Temporary	4/1/18-6/30/18	2	Pipeline ROW	54	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
21	S-N15	UNT to Granny Run	Intermittent	Nicholas	38.301571	-80.674776	Temporary	4/1/18-6/30/18	2	Pipeline ROW	85	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
22	S-N14	Granny Run	Perennial	Nicholas	38.297014	-80.676341	Temporary	4/1/18-6/30/18	2	Pipeline ROW	93	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
23	S-N14	Granny Run	Perennial	Nicholas	38.296646	-80.676258	Temporary	4/1/18-6/30/18	2	Pipeline ROW	16	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
24	S-I43	UNT to Big Run	Intermittent	Nicholas	38.293473	-80.677158	Temporary	4/1/18-6/30/18	2	Pipeline ROW	79	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
25	S-I44	Big Run	Perennial	Nicholas	38.291332	-80.679265	Temporary	4/1/18-6/30/18	2	Pipeline ROW	80	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
26	S-I45	UNT to Big Run	Perennial	Nicholas	38.290061	-80.680304	Temporary	4/1/18-6/30/18	2	Pipeline ROW	102	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve

	Project ID	Stream Name	Stream Regime	County	Latitude	Longitude	Temporary or Permanent	Proposed Date of Impact	Duration of In-Stream Impact (Working Days)	Purpose for Impact	Linear Feet of Impact	WHICHEVER APPLIES: Linear Feet of Bank Work, Culvert-Bridge Width OR Length/Pipeline Size	Riparian Revegetation Plan/Permanent Treatment	Comment/Rationale for Waiver Request	WVDNR Approval/Denial
27	S-I48	UNT to Gauley River	Perennial	Nicholas	38.280116	-80.687738	Temporary	4/1/18-6/30/18	2	Pipeline ROW	87	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
28	S-J29	Gauley River	Perennial	Nicholas	38.274498	-80.691389	Temporary	4/1/18-6/30/18	2	Pipeline ROW	313	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
29	S-EF28	UNT to Gauley River	Intermittent	Nicholas	38.268989	-80.680189	Permanent	4/1/18-6/30/18	2	Access Road	26	20	Seed & Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approve
35	S-N10	Skelt Run	Perennial	Nicholas	38.231025	-80.710633	Temporary	4/1/18-6/30/18	2	Pipeline ROW	78	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
36	S-N10-Braid	Skelt Run	Intermittent	Nicholas	38.230934	-80.710804	Temporary	4/1/18-6/30/18	2	Pipeline ROW	101	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
37	S-EE1	UNT to Skelt Run	Ephemeral	Nicholas	38.228924	-80.713076	Temporary	4/1/18-6/30/18	2	Pipeline ROW	81	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
38	S-N13-Braid	UNT to Skelt Run	Intermittent	Nicholas	38.226869	-80.715487	Temporary	4/1/18-6/30/18	2	Pipeline ROW	37	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
39	S-N13	UNT to Skelt Run	Intermittent	Nicholas	38.226851	-80.715393	Temporary	4/1/18-6/30/18	2	Pipeline ROW	89	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
42	S-L38	UNT to Riley Branch	Perennial	Nicholas	38.205534	-80.718246	Temporary	4/1/18-6/30/18	2	Pipeline ROW	75	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
43	S-L37	UNT to Riley Branch	Intermittent	Nicholas	38.203873	-80.718989	Temporary	4/1/18-6/30/18	1	Pipeline ROW	8	8	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
44	S-L35	Riley Branch	Perennial	Nicholas	38.203887	-80.719122	Temporary	4/1/18-6/30/18	2	Pipeline ROW	86	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
45	S-L35	Riley Branch	Perennial	Nicholas	38.203097	-80.719248	Temporary	4/1/18-6/30/18	2	Pipeline ROW	87	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve
46	S-L35	Riley Branch	Perennial	Nicholas	38.200338	-80.717177	Temporary	4/1/18-6/30/18	2	Pipeline ROW	79	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes: Slip Mitigation	Approve

1 Definitions for Rationale are listed below

	Project ID	Stream Name	Stream Regime	County	Latitude	Longitude	Temporary or Permanent	Proposed Date of Impact	Duration of In-Stream Impact (Working Days)	Purpose for Impact	Linear Feet of Impact	WHICHEVER APPLIES: Linear Feet of Bank Work, Culvert-Bridge Width OR Length/Pipeline Size	Riparian Revegetation Plan/Permanent Treatment	Comment/Rationale for Waiver Request	WVDNR Approval/Denial
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Access to ROW/Extended Environmental Impacts: By allowing instream crossings during the restricted period, Mountain Valley will be able to permanently restore more continuous sections of ROW. If the crossing is delayed until later in the year, the ROW leading to and from can only be temporarily restored because construction equipment will need to return to the stream crossing. Travelling to and from the stream crossing will disturb any area that has been restored to final grading and seeded/mulched. In addition, leaving these areas in the temporary restoration phase creates the potential for sedimentation issues and revegetation.

Steep Slopes: All slopes over 20 degrees will require a winching/anchoring system to safely complete the project. The stream installations need to be in place to lay the hillside because in these steep slope situations, the pipe installation starts at the bottom of the hill and proceeds up the hill. As the pipe is laid up the slope, the area can be backfilled and restored as the project progresses and this eliminates the need to return to the site.

Slip Mitigation: Slip potential can also be minimized by reducing the number of crossings up and down these steep slopes. Similar to installing the permanent vegetation and restoration, being able to install the slip mitigation measures during the initial pass through, will enable Mountain Valley to immediately stabilize and install any required slip mitigation measures.

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Fish Spawning Waiver Request- Mountain Valley Pipeline															
	Project ID	Stream Name	Stream Regime	County	Latitude	Longitude	Temporary or Permanent	Proposed Date of Impact	Duration of In-Stream Impact (Working Days)	Purpose for Impact	Linear Feet of Impact	WHICHEVER APPLIES:	Riparian Revegetation Plan/Permanent Treatment	Comment/Rationale for Waiver Request	WVDNR Approval/ Denial
												Linear Feet of Bank Work, Culvert-Bridge Width OR Length/Pipeline Size			
1	S-J31	UNT to Meadow Creek	Ephemeral	Greenbrier	38.041774	-80.745842	Temporary	4/1/18-6/30/18	2	Access Road	153	20	Seed and Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
2	S-J19	UNT to Meadow Creek	Ephemeral	Greenbrier	38.028599	-80.743623	Temporary	4/1/18-6/30/18	2	Pipeline ROW	96	12	Seed and ECB/Permanent	Steep Slopes, Slip Mitigation, Safety	Approval
3	S-IJ66	UNT to Meadow Creek	Intermittent	Greenbrier	38.022216	-80.746495	Temporary	4/1/18-6/30/18	2	Access Road	42	20	Seed and Mulch/Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
4	S-I26	UNT to Meadow Creek	Intermittent	Greenbrier	38.019129	-80.755220	Temporary	4/1/18-6/30/18	2	Pipeline ROW	78	12	Seed and ECB/Permanent	Access to ROW/Extended Environmental Impacts; Steep Slopes	Approval
5	S-L26	UNT to Meadow River	Perennial	Greenbrier	37.980598	-80.754872	Temporary	4/1/18-6/30/18	2	Pipeline ROW	166	12	Seed and ECB/Permanent	Steep Slopes, Slip Mitigation, Safety, Road Crossing	Approval
6	S-L30	UNT to Little Sewell Creek	Intermittent	Greenbrier	37.954276	-80.739708	Temporary	4/1/18-6/30/18	2	Pipeline ROW	136	12	Seed and ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approval
7	S-L10	UNT to Boggs Creek	Perennial	Greenbrier	37.938308	-80.747009	Temporary	4/1/18-6/30/18	2	Pipeline ROW	103	20	Seed and Mulch/ Permanent	Access to ROW/Extended Environmental Impacts	Approval
8	S-L13	UNT to Little Sewell Creek	Intermittent	Greenbrier	37.933655	-80.745327	Permanent	4/1/18-6/30/18	2	Access Road	24	24	Seed and Mulch/ Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
9	S-EF39	UNT to Boggs Creek	Ephemeral	Greenbrier	37.922828	-80.740670	Temporary	4/1/18-6/30/18		Anode Bed			Seed and Mulch/ Permanent	Access to ROW/Extended Environmental Impacts	Approval
10	S-I22	UNT to Boggs Creek	Intermittent	Greenbrier	37.918041	-80.736833	Temporary	4/1/18-6/30/18	2	Pipeline ROW	94	12	Seed and ECB/Permanent	Access to ROW/Extended Environmental Impacts	Approval
11	S-I23a	UNT to Boggs Creek	Intermittent	Greenbrier	37.917347	-80.738534	Permanent	4/1/18-6/30/18	2	Access Road	33	33	Seed and Mulch/ Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
12	S-IJ54	UNT to Boggs Creek	Ephemeral	Greenbrier	37.917125	-80.742425	Permanent	4/1/18-6/30/18	2	Access Road	40	31	Seed and Mulch/ Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
13	S-W22	UNT to Meadow River	Ephemeral	Greenbrier	37.911127	-80.727485	Permanent	4/1/18-6/30/18	2	Access Road	17	17	Seed and Mulch/ Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
14	S-W22	UNT to Meadow River	Ephemeral	Greenbrier	37.911104	-80.727487	Temporary	4/1/18-6/30/18	1	Access Road	8	8	Seed and Mulch/ Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval
15	S-W23	UNT to Meadow River	Intermittent	Greenbrier	37.911730	-80.729941	Temporary	4/1/18-6/30/18	1	Access Road	9	3	Seed and Mulch/ Permanent	Access to ROW/Extended Environmental Impacts; Road Crossing	Approval

1 Definitions for Rationale are listed below

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Fish Spawning Waiver Request- Mountain Valley Pipeline															
Submitted by Matt Hoover ; Date: 3.26.18															
	Project ID	Stream Name	Stream Regime	County	Latitude	Longitude	Temporary or Permanent	Proposed Date of Impact	Duration of In-Stream Impact (Working Days)	Purpose for Impact	Linear Feet of Impact	WHICHEVER APPLIES: Linear Feet of Bank Work, Culvert-Bridge Width OR Length/Pipeline Size	Riparian Revegetation Plan/Permanent Treatment	Comment/Rationale for Waiver Request ₁	WVDNR Approval/ Denial
1	S-K21	UNT to Buffalo Creek	Perennial	Greenbrier	37.858566	-80.755584	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	82	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
2	S-K22	UNT to Buffalo Creek	Perennial	Greenbrier	37.858315	-80.755546	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	78	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
3	S-UV6	UNT to Morris Fork	Perennial	Greenbrier	37.854386	-80.754981	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	88	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
4	S-U22	UNT to Meadow River	Intermittent	Greenbrier	37.839558	-80.748496	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	80	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
5	S-FF1	UNT to Meadow River	Ephemeral	Greenbrier	37.837519	-80.751898	Temporary	4/1/2018 - 6/30/18	2	Access Road	42	20	Seed & Mulch/Permanent	Temporary Crossing	approval
6	S-EE4	UNT to Red Spring Branch	Intermittent	Summers	37.813845	-80.748769	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	127	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
7	S-M6	UNT to Red Spring Branch	Intermittent	Summers	37.807929	-80.746327	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	128	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
8	S-M6	UNT to Red Spring Branch	Intermittent	Summers	37.807733	-80.746267	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	25	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
9	S-J13	UNT to Patterson Creek	Ephemeral	Summers	37.797484	-80.733605	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	92	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
10	S-J13	UNT to Patterson Creek	Ephemeral	Summers	37.796572	-80.732397	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	96	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
11	S-J13	UNT to Patterson Creek	Ephemeral	Summers	37.795915	-80.731850	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	124	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
12	S-M5	Red Spring Branch	Ephemeral	Summers	37.792243	-80.728802	Temporary	4/1/2018 - 6/30/18	2	Access Road	98	20	Seed & Mulch/Permanent		approval
13	S-M4	UNT to Red Spring Branch	Ephemeral	Summers	37.786834	-80.728719	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	47	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
14	S-J12	UNT to Lick Creek	Ephemeral	Summers	37.784725	-80.733873	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	56	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
15	S-I17	UNT to Lick Creek	Ephemeral	Summers	37.775160	-80.728058	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	78	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
16	S-J10	UNT to Hungard Creek	Ephemeral	Summers	37.748657	-80.755523	Temporary	4/1/2018 - 6/30/18	1	Access Road	8	8	Seed & Mulch/Permanent	Temporary Crossing	approval
17	S-J9	UNT to Hungard Creek	Ephemeral	Summers	37.746997	-80.756919	Temporary	4/1/2018 - 6/30/18	2	Access Road	15	20	Seed & Mulch/Permanent	Temporary Crossing	approval
18	TTWV-S-56 (S-CV15)	UNT to Stonelick Branch	Ephemeral	Summers	37.740028	-80.752946	Permanent	4/1/2018 - 6/30/18	2	Access Road	28	20	Seed & Mulch/Permanent	Installing culvert at Crossing	approval
19	TTWV-S-57 (S-CV16)	UNT to Stonelick Branch	Ephemeral	Summers	37.739725	-80.752181	Permanent	4/1/2018 - 6/30/18	2	Access Road	27	20	Seed & Mulch/Permanent	Installing culvert at Crossing	approval
20	S-K14	UNT to Righthand Fork Hungard Creek	Ephemeral	Summers	37.696788	-80.739242	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	97	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
21	S-K5	UNT to Kelly Creek	Ephemeral	Summers	37.667876	-80.726202	Temporary	4/1/2018 - 6/30/18	2	Access Road	61	20	Seed & Mulch/Permanent	Temporary Crossing	approval
22	S-G47	UNT to Wind Creek	Ephemeral	Summers	37.654112	-80.702579	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	80	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
23	S-G52	UNT to Wind Creek	Ephemeral	Monroe	37.627537	-80.695593	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	143	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
24	S-PP13	UNT to Wind Creek	Ephemeral	Monroe	37.623457	-80.693530	Temporary	4/1/2018 - 6/30/18	2	Access Road/ATWS	115	20	Seed & Mulch/Permanent	Temporary Crossing	approval
25	S-U65	UNT to Little Stony Creek	Ephemeral	Monroe	37.592083	-80.705700	Temporary	4/1/2018 - 6/30/18	1	Pipeline ROW	6	6	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
26	S-U65	UNT to Little Stony Creek	Ephemeral	Monroe	37.591837	-80.705747	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	19	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
27	S-U64	UNT to Little Stony Creek	Ephemeral	Monroe	37.591822	-80.705874	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	76	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
28	S-A61	UNT to Slate Run	Ephemeral	Monroe	37.559334	-80.709736	Permanent	4/1/2018 - 6/30/18	2	Access Road	42	26	Seed & Mulch/Permanent	Installing culvert at Crossing	approval
29	S-A61	UNT to Slate Run	Ephemeral	Monroe	37.559320	-80.710037	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	81	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
30	S-Z5	UNT to Hans Creek	Ephemeral	Monroe	37.524333	-80.711450	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	75	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
31	S-Z4	UNT to Hans Creek	Ephemeral	Monroe	37.524302	-80.711444	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	75	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
32	TTWV-S-147 (S-CV23)	UNT to Blue Lick Creek	Ephemeral	Monroe	37.490491	-80.684896	Temporary	4/1/2018 - 6/30/18	2	Access Road	5	5	Seed & Mulch/Permanent	Temporary Crossing	approval
33	S-G44	UNT to Hans Creek	Ephemeral	Monroe	37.474870	-80.676267	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	86	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
34	S-G43	UNT to Hans Creek	Ephemeral	Monroe	37.473139	-80.675738	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	83	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval

35	TTWV-S-127 (S-MN43)	UNT to Hans Creek	Ephemeral	Monroe	37.464463	-80.665418	Temporary	4/1/2018 - 6/30/18	2	Access Road	47	20	Seed & Mulch/Permanent	Temporary Crossing	approval
36	TTWV-S-122 (S-MN41)	UNT to Hans Creek	Ephemeral	Monroe	37.464026	-80.666227	Temporary	4/1/2018 - 6/30/18	2	Access Road	43	20	Seed & Mulch/Permanent	Temporary Crossing	approval
37	S-E43	UNT to Dry Creek	Ephemeral	Monroe	37.453834	-80.664417	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	92	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
38	S-E45	UNT to Dry Creek	Ephemeral	Monroe	37.453798	-80.664266	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	101	12	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval
39	S-E45	UNT to Dry Creek	Ephemeral	Monroe	37.453718	-80.664097	Temporary	4/1/2018 - 6/30/18	2	Pipeline ROW	7	7	Seed & ECB/Permanent	Access to ROW/Extended Environmental Impacts	approval

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