

## **APPENDIX I**

### **Minor Route Variation Requests**

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**APPENDIX I-1**

**Minor Route Variation Requests Reported by Stakeholders that Were  
Resolved Prior to Issuance of the Draft EIS**

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APPENDIX I-1

Minor Route Variation Requests Reported by Stakeholders that Were Resolved Prior to Issuance of the Draft EIS

FERC ID / Accession Number	Parcel Number	MP	Summary of Issues	Mountain Valley's Response / Current Status
20151125-5166	WV-HA-3906 (AR HA-18), WV HA-003, WV HA-005	9.70, 9.91, 9.98	Landowner concerned about proximity to house and driveway access to house.	Mountain Valley had previously stated it was continuing to evaluate alternative pipeline routes to increase the distance to the house and is continuing to coordinate with the landowner on the use of the access road for temporary construction access. In its EIR response dated July 18, 2016, Mountain Valley indicated that "potential impacts to resources on this property have been resolved."
20151016-0056	MVP-ATWS-779	35.9	Landowner requested a re-route to avoid construction equipment using a single lane dirt road that the landowner uses to access farm.	The temporary workspace originally proposed on this landowner's property has been removed.
20151116-0091	MVP- ATWS-779	35.9	Landowner concerned about use of road to house and road not being suitable for heavy equipment.	The temporary workspace originally proposed on this landowner's property has been removed.
20151120-0011	MVP- ATWS-779	35.9	Landowner concerned about use of road to house and road not being suitable for heavy equipment.	The temporary workspace originally proposed on this landowner's property has been removed.
20150420-5197	MVP-ATWS-310	169.8	Landowner requested a re-route to avoid impacts to a recreational fishing stream and proximity to a school.	The additional temporary workspace on this landowner's property has been removed.
20160127-0019	VA-GI-200.044, 200.045	215.5	Landowner requested a re-route to minimize splitting the property in two by the proposed pipeline route and minimizing impacts to springs on the property.	The proposed alignment has been modified to reduce impacts to residences and to avoid karst features on the property.
20150901-5075	VA-MO-019	234.8	Landowner requested a re-route to minimize impacts associated with the proposed compressor station location and forested land on property.	The pipeline location has been relocated 1,600 feet from the residence and the compressor station at this location is no longer being pursued.

APPENDIX I-1 (continued)				
Minor Route Variation Requests Reported by Stakeholders that Were Resolved Prior to Issuance of the Draft EIS				
FERC ID / Accession Number	Parcel Number	MP	Summary of Issues	Mountain Valley's Response / Current Status
20150420-5280	VA-MO-019	234.8	Landowner requested a re-route to place the pipeline route further from the residence and to minimize impacts to the water supply.	The pipeline route has been modified to adopt the landowner's suggested route on the side of this property.
20150224-5187	VA-RO-048	241.2	Landowner requested a re-route to avoid impacts to farmland.	This comment relates to an alternative pipeline route that is no longer being evaluated. The property is not located on the proposed pipeline route.
20150612-0012	VA-PI-055	292.4	Landowner concerned about pipeline route impacts to water resources, geology, and cultural resources on property.	The pipeline route has been modified to avoid this property.
20150604-0050	VA-PI-055	292.45	Landowner requested a re-route to avoid Cherry Creek on the property due to concerns about impacts associated with sedimentation during construction.	The pipeline route has been modified to avoid this property.
20150109-0015	VA-PI-075, VA-PI-076	295.2	Landowner requested a re-route to avoid impacts on cultural resources, a cemetery, and sedimentation of Cherry Stone headwaters.	The pipeline route has been modified to reduce impacts to landowner's property and move the route further from the cemetery and the creek headwaters.

**APPENDIX I-2**

**Route Variations and Minor Route Variations Adopted into the Proposed Route  
Since Issuance of the Draft EIS**

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APPENDIX I-2

Route Variations and Minor Route Variations Adopted into the Proposed Route Since Issuance of the Draft EIS

October 2016 Proposed Route						New Landowners Affected	Easements Acquired from New Landowners by Mountain Valley
Start MP	End MP	Type of Change	Description of Change	Parcel			
0.02	0.13	Remove point of inflection	Updated route post survey access	WV-WE-001.01 & WV-WE-001	0	0	
2.3	2.4	Shift Southeast up to 142 feet	Routed to improve stream crossing angle	WV-WE-015, WV-WE-016, WV-WE-016.01	0	0	
3.25	3.67	Shift West up to 325 feet	Reduction in side hill construction, foreign pipeline encroachment and avoidance of a sensitive area	WV-WE-018.03, WV-WE-018.02.1, WV-WE-018.03.1, BW-WE-2, WV-WE-018.06	0	0	
3.67	3.79	Shift Southwest up to 343 feet	Updated route post survey access	WV-WE-018.06, WV-WE-018.08, BW-WE-3	0	0	
4.88	4.92	Remove point of inflection	Aligned for better road bore	WV-WE-027, WV-WE-5831	0	0	
11.13	11.23	Shift North up to 25 feet	Slight shift to avoid sanitary system	WV-HA-013, WV-HA-014	0	0	
20.51	20.69	Shift Southwest up to 81 feet	Avoidance of an environmentally sensitive area	WV-HA-065.01, WV-HA-065.02, WV-HA-065.03	0	0	
20.83	20.95	Shift Southwest up to 96 feet	Updated route post survey access	WV-HA-065.01, WV-HA-065.04, WV-HA-065.06, WV-HA-065.05	0	0	
21.09	21.26	Shift East up to 24 feet	Updated route post survey access	WV-HA-065.06, WV-HA-065.05, WV-HA-072, WV-HA-076, WV-HA-075, WV-HA-074	0	0	
21.26	21.28	Shift Southwest up to 32 feet	Updated route post survey access	WV-HA-075, WV-HA-074	0	0	
21.28	21.51	Shift South up to 38.4 feet	Updated route post survey access	WV-HA-075, WV-HA-074, WV-HA-076	0	0	
24.58	24.73	Shift Southeast up to 348 feet	Landowner requested route shift	WV-HA-092	0	0	
25.77	25.86	Add point of inflection	Accommodate construction under route 50 and Antero Facility	WV-HA-095, WV-HA-100, WV-HA-101, WV-HA-102, WV-HA-103, WV-HA-102.01	0	0	

APPENDIX I-2 (continued)							
Route Variations and Minor Route Variations Adopted into the Proposed Route Since Issuance of the Draft EIS							
October 2016 Proposed Route						New Landowners Affected	Easements Acquired from New Landowners by Mountain Valley
Start MP	End MP	Type of Change	Description of Change	Parcel			
26.16	27.64	Shift South up to 13 feet	Updated route post survey access	WV-HA-107, WV-HA-108, WV-HA-110, WV-HA-109, WV-HA-111, WV-HA-114, WV-HA-112, WV-HA-113, WV-HA-115, WV-HA-116, WV-HA-117, WV-HA-118, WV-HA-119		0	0
34.67	34.7	Remove point of inflection	Aligned better for open cut of road and shift away from stream channel	WV-DO-014		0	0
35.02	35.16	Remove point of inflection	Shift to avoid existing pipeline	WV-DO-014, WV-DO-015, WV-DO-016		0	0
39.78	39.88	Add point of inflection	Shift to avoid existing pipeline	WV-LE-012, WV-LE-010, WV-LE-013		0	0
45.42	45.54	Remove point of inflection	Updated route post survey access	WV-LE-045		0	0
46.23	46.53	Shift East up to 520 feet	Avoidance of drainage features, steep slope, construction and accommodates foreign pipeline crossings	WV-LE-045, WV-LE-047		0	0
46.69	46.76	Shift Northwest up to 27 feet	Landowner requested route shift	WV-LE-047, WV-LE-049		0	0
62.05	62.24	Shift West up to 55 feet	Avoidance of wetland feature	WV-LE-129, WV-LE-4230		0	0
66.8	66.98	Shift West up to 94 feet	Shift parallel section away from Weston Gauley Trail Turnpike	WV-BR-002, WV-BR-002.01, WV-BR-002.04		0	0
69.51	69.62	Move point of inflection	Avoidance of streams and side hill construction	WV-BR-009		0	0
69.62	70.32	Move point of inflection	Updated route post survey access	WV-BR-009, WV-BR-009.01, WV-BR-013, WV-BR-014		0	0
70.79	70.84	Remove point of inflection	Aligned better for open cut of road	WV-BR-014, WV-BR-014.01		0	0

APPENDIX I-2 (continued)

Route Variations and Minor Route Variations Adopted into the Proposed Route Since Issuance of the Draft EIS

October 2016 Proposed Route					New Landowners Affected	Easements Acquired from New Landowners by Mountain Valley
Start MP	End MP	Type of Change	Description of Change	Parcel		
70.84	71.02	Add point of inflection	Updated route post survey access and aligned better for open cut of road	WV-BR-014, WV-BR-014.01, WV-BR-014.02	0	0
71.28	71.56	Add point of inflection	Updated route post survey access	WV-BR-014.02, WV-BR-014.03	0	0
71.56	71.7	Move point of inflection	Aligned for open cut of road and reduction in stream impacts	WV-BR-014.03, WV-BR-020	0	0
74.82	74.87	Move point of inflection	Avoidance of an environmentally sensitive area	WV-BR-038	0	0
75.87	76.47	Shift West up to 80 feet	Shift to avoid existing pipeline	WV-BR-041, WV-BR-043, WV-BR-042, WV-BR-044, WV-BR-038, WV-BR-046, WV-BR-046.01	0	0
77.31	77.51	Shift South up to 250 feet	Adjustment to accommodate Harris Compressor Station	WV-BR-046.02, WV-BR-046.03, WV-BR-0457.01	0	0
77.49	77.51	Add point of inflection	Avoidance of an environmentally sensitive area	WV-BR-046.02, WV-BR-046.03, WV-BR-0457.01	0	0
79.12	79.25	Shift East up to 100 feet	Avoidance of an environmentally sensitive area	WV-BR-046.12, WV-BR-046.13, WV-BR-046.14, WV-BR-046.15	0	0
80.92	81.1	Shift West up to 235 feet	Avoidance of an environmentally sensitive area	WV-WB-001.07, WV-WB-001.08	0	0
101.13	102.69	Shift East up to 2,400 feet	Avoidance of permitted strip mine	WV-WB-042, BWB-12, WV-WB-044, WV-WB-040, WV-WB-5622	1	1
104.9	104.98	Shift North up to 75 feet	Aligned better for bore of road	WV-WB-053.01, WV-WB-053.02	0	0
104.98	105.27	Shift South up to 275 feet	Landowner requested route shift	WV-WB-053.01, WV-WB-053.02, WV-WB-059.001, WV-WB-058, WV-WB-059.01	0	0

APPENDIX I-2 (continued)							
Route Variations and Minor Route Variations Adopted into the Proposed Route Since Issuance of the Draft EIS							
October 2016 Proposed Route						New Landowners Affected	Easements Acquired from New Landowners by Mountain Valley
Start MP	End MP	Type of Change	Description of Change	Parcel			
105.27	106.15	Shift North up to 50 feet	Avoidance of construction on steep slopes	WV-WB-059.001, WV-WB-058, WV-WB-059.01, WV-WB-059.002, WV-WB-062, WV-WB-059.02, WV-WB-062.01, WV-WB-062.02, WV-WB-062.02.2	0	0	
107.76	107.82	Remove point of inflection	Updated route post survey access	WV-WB-077, WV-WB-079, WV-WB-080	0	0	
107.82	107.88	Remove point of inflection	Updated route post survey access	WV-WB-079, WV-WB-080,	0	0	
107.88	108	Remove point of inflection	Updated route post survey access	WV-WB-079, WV-WB-080	0	0	
108.48	108.57	Remove point of inflection	Updated route post survey access	WV-WB-085, WV-WB-083, WV-WB-083.01, WV-WB-089	0	0	
108.57	108.61	Remove point of inflection	Updated route post survey access	WV-WB-085, WV-WB-089, WV-WB-086	0	0	
108.61	108.66	Remove point of inflection	Updated route post survey access	WV-WB-086, WV-WB-089, WV-WB-087	0	0	
109.96	110.11	Shift North up to 195 feet	Avoidance of an environmentally sensitive area and wetland impact	WV-WB-094, MVP-ATWS-456, WV-NI-094.011, WV-NI-094, WV-NI-095, WV-NI-096	1	1	
111.48	112.83	Shift South up to 2,100 feet	Landowner requested route shift	WV-NI-003, WV-NI-004, WV-NI-5759, WV-NI-005, WV-NI-006, WV-NI-007, WV-NI-008, WV-NI-009	0	0	
114.05	114.39	Move point of inflection	Landowner requested route shift	WV-NI-017, WV-NI-4235, WV-NI-4236, WV-NI-018, WV-NI-021	0	0	
114.63	114.76	Shift East up to 58 feet	Landowner requested route shift	WV-NI-023, WV-NI-023.01, WV-NI-024, WV-NI-025, WV-NI-025.01	0	0	
115.41	115.67	Shift West up to 155 feet	Updated route post survey access	WV-NI-028, WV-NI-029, WV-NI-030, WV-NI-031	0	0	

APPENDIX I-2 (continued)

**Route Variations and Minor Route Variations Adopted into the Proposed Route Since Issuance of the Draft EIS**

<b>October 2016 Proposed Route</b>					<b>New Landowners Affected</b>	<b>Easements Acquired from New Landowners by Mountain Valley</b>
<b>Start MP</b>	<b>End MP</b>	<b>Type of Change</b>	<b>Description of Change</b>	<b>Parcel</b>		
122.41	122.59	Shift North up to 115 feet	Shift away from parallel stream	WV-NI-057, WV-NI-057.01	0	0
130.95	131.12	Remove point of inflection	Landowner requested route shift	WV-NI-089, WV-NI-084, WV-NI-091	0	0
132.28	132.35	Move point of inflection	Avoidance of an environmentally sensitive area	WV-NI-096.01, WV-NI-098	0	0
138.04	138.14	Add point of inflection	Avoidance of an environmentally sensitive area	WV-GR-006, WV-GR-009	0	0
140.43	140.6	Shift East up to 125 feet	Avoidance of an environmentally sensitive area	WV-GR-012, WV-GR-014, WV-GR-015	0	0
144.36	146.07	Move point of inflection	Updated route post survey access	WV-GR-029, WV-GR-029.01, WV-GR-028, WV-GR-030, WV-GR-031, WV-GR-031.01, WV-GR-032, WV-GR-033	0	0
153.7	153.82	Move West up to 50 feet	Updated route post survey access	WV-GR-064, WV-GR-063, WV-GR-065	0	0
154.43	154.59	Move point of inflection	Adjustment to accommodate Stallworth Compressor Station	WV-FA-002, WV-FA-003	0	0
154.74	155.13	Move West up to 330 feet	Avoidance of an environmentally sensitive area	WV-FA-003, WV-GR-067, WV-GR-067.002, WV-GR-067.005	0	0
155.32	155.91	Move East up to 370 feet	Updated route post survey access	WV-GR-067.005, WV-GR-068	0	0
155.91	155.93	Remove point of inflection	Landowner requested route shift	WV-GR-068	0	0
155.93	156.02	Move point of inflection	Updated route post survey access	WV-GR-067	0	0
156.02	156.61	Move East up to 250 feet	Landowner requested route shift	WV-GR-067	0	0
157.58	157.68	Move point of inflection	Updated route post survey access	WV-GR-074	0	0
157.7	158.35	Move point of inflection	Updated route post survey access	WV-GR-074, WV-SU-001.02, WV-SU-5154	0	0

APPENDIX I-2 (continued)							
Route Variations and Minor Route Variations Adopted into the Proposed Route Since Issuance of the Draft EIS							
October 2016 Proposed Route						New Landowners Affected	Easements Acquired from New Landowners by Mountain Valley
Start MP	End MP	Type of Change	Description of Change	Parcel			
158.49	158.89	Move point of inflection	Updated route post survey access	WV-SU-5154, WV-SU-002.02, WV-SU-004		0	0
161.15	161.61	Move point of inflection	Updated route post survey access	WV-SU-014		0	0
167.51	167.98	Shift West up to 365 feet	Landowner requested route shift	WV-SU-029, WV-SU-028, BW-SU-3, WV-SU-030		0	0
169.9	171.09	Shift East up to 3,000 feet	Avoidance of an environmentally sensitive area and landowner request	WV-SU-038, WV-SU-5669, WV-SU-5671, WV-SU-5673, WV-SU-040, WV-SU-041		2	2
171.29	171.88	Shift West up to 300 feet	Avoidance of an environmentally sensitive area	WV-SU-046, WV-SU-046.01, WV-SU-5875, WV-SU-5874, WV-SU-5878, WV-SU-5879, WV-SU-048, WV-SU-049, WV-SU-050		0	0
174.72	174.78	Add point of inflection	Updated route post survey access	WV-MO-004, WV-MO-0860		0	0
176	176.37	Shift West up to 150 feet	Landowner requested route shift	WV-MO-010, WV-MO-012		0	0
178.31	178.9	Move point of inflection	Updated route post survey access	WV-MO-012.037, WV-MO-012.045, WV-MO-012.040, WV-MO-012.050		0	0
178.9	179.14	Shift North up to 250 feet	Landowner requested route shift	WV-MO-012.040, WV-MO-012.055		0	0
179.14	179.76	Move point of inflection	Updated route post survey access	WV-MO-012.055, WV-MO-012.060, WV-MO-3504, WV-MO-012.065, WV-MO-3507		0	0
181.09	181.25	Shift East up to 175 feet	Shifted to reduce stream impact	WV-MO-012.070, WV-MO-012.080, WV-MO-012.085		0	0
185.66	185.79	Shift South up to 140 feet	Updated route post survey access	WV-MO-5198, WV-MO-012.165, WV-MO-012.170		0	0
185.84	186.05	Move point of inflection	Updated route post survey access	WV-MO-012.170, WV-MO-012.175		0	0

APPENDIX I-2 (continued)

Route Variations and Minor Route Variations Adopted into the Proposed Route Since Issuance of the Draft EIS

October 2016 Proposed Route						New Landowners Affected	Easements Acquired from New Landowners by Mountain Valley
Start MP	End MP	Type of Change	Description of Change	Parcel			
186.79	187.35	Shift West up to 150 feet	Updated route post survey access	WV-MO-012.180, WV-MO-012.183, WV-MO-3576	0	0	
189.45	190.31	Shift East up to 1,000 feet	Constructability to avoid sideslope construction	WV-MO-012.230, WV-MO-012.235, WV-MO-5215, WV-MO-012.240, WV-MO-012.245, WV-MO-012.250, WV-MO-012.255, WV-MO-012.260	1	0	
193.42	194.07	Move point of inflection	Updated route post survey access	WV-MO-012.310, WV-MO-012.320, WV-MO-012.315, WV-MO-012.325, WV-MO-012.330, WV-MO-3654, WV-MO-012.340	0	0	
196.31	196.83	Shift South up to 500 feet	Route revisions requested by the United States Forest Service (previously filed)	WV-MO-074, VA-GI-001	0	0	
198.93	199.41	Shift North up to 300 feet	Updated route post survey access	VA-GI-008, VA-GI-008.02, VA-GI-008.01, VA-GI-008.03	0	0	
199.77	199.83	Move point of inflection	Updated route post survey access	VA-GI-008.05.5, VA-GI-008.05,	0	0	
204.75	205.08	Shift North up to 650 feet	Avoidance of a cave	VA-GI-035, VA-GI-036, VA-GI-5309	0	0	
205.98	206.13	Remove point of inflection	Updated route post survey access	VA-GI-040, VA-GI-041	0	0	
208.04	208.27	Move South up to 250 feet	Updated route post survey access and improvement of constructability around the powerline	VA-GI-052, VA-GI-053, VA-GI-054, VA-GI-055	0	0	
209.2	211.32	Shift North up to 1,200 feet	Landowner requested route shift	VA-GI-200.002, VA-GI-5447, VA-GI-061, VA-GI-062, VA-GI-200.003, VA-GI-066, VA-GI-063, VA-GI-064, VA-GI-065, VA-GI-4248, VA-GI-067, VA-GI-068, VA-GI-069, VA-GI-070, VA-GI-071, VA-GI-200.012	1	1	

APPENDIX I-2 (continued)							
Route Variations and Minor Route Variations Adopted into the Proposed Route Since Issuance of the Draft EIS							
October 2016 Proposed Route						New Landowners Affected	Easements Acquired from New Landowners by Mountain Valley
Start MP	End MP	Type of Change	Description of Change	Parcel			
211.35	212.52	Move point of inflection	Avoidance of a cave, covered bridge, and environmentally sensitive area	VA-GI-200.012, VA-GI-075, VA-GI-200.015, VA-GI-200.016, VA-GI-200.017, VA-GI-200.018		0	0
212.52	213.09	Move South up to 250 feet	Mayapple School Reroute	VA-GI-200.018, VA-GI-200.016, VA-GI-200.019, VA-GI-5830, VA-GI-4419 (AR GI-253.01), VA-GI-4420 (AR GI-253.01), VA-GI-200.023		0	0
213.09	213.39	Move point of inflection	Landowner requested route shift	VA-GI-200.023, VA-GI-200.026		0	0
213.39	213.43	Move point of inflection	Updated route post survey access	VA-GI-200.023		0	0
214.04	214.66	Move point of inflection	Updated route post survey access	VA-GI-4249, VA-GI-096, VA-GI-097.01		0	0
214.66	215.58	Move North up to 1,300 feet	Canoe Cave Reroute	VA-GI-097.01, A-GI-4250, VA-GI-200.039		0	0
215.58	216.31	Move point of inflection	Updated route post survey access	VA-GI-200.039, VA-GI-200.040, VA-GI-200.041		0	0
216.31	216.8	Move South up to 200 feet	Updated route post survey access	VA-GI-200.041, VA-GI-200.042, VA-GI-200.043		0	0
216.8	216.97	Move East up to 160 feet	Avoidance of a sink hole	VA-GI-200.043, VA-GI-200.044, VA-GI-200.045, VA-GI-200.046		0	0
216.97	217.1	Move North up to 90 feet	Avoidance of a sink hole	VA-GI-200.045, VA-GI-200.046		0	0
217.1	217.27	Move approximately 200 feet	Updated route post survey access	VA-GI-200.046, VA-CR-200.047, VA-CR-200.048		0	0
217.27	217.37	Move point of inflection	Modification to decrease stream impact	VA-CR-200.048		0	0
217.37	218.63	Move South up to 130 feet	Updated route post survey access	VA-CR-200.048, VA-CR-200.049, VA-CR-5343, VA-CR-200.051, VA-CR-200.052, VA-CR-200.0525, VA-CR-200.053, VA-CR-200.054		0	0

APPENDIX I-2 (continued)

Route Variations and Minor Route Variations Adopted into the Proposed Route Since Issuance of the Draft EIS

October 2016 Proposed Route					New Landowners Affected	Easements Acquired from New Landowners by Mountain Valley
Start MP	End MP	Type of Change	Description of Change	Parcel		
219.38	220.16	Move point of inflection	Route revisions requested by the United States Forest Service (previously filed)	VA-MO-001, VA-MO-200.056, VA-MO-200.056, VA-MO-200.058, VA-MO-001	0	0
220.16	221.22	Move point of inflection	Updated route post survey access	VA-MO-001, VA-MO-3369, VA-MO-3370	0	0
221.22	227.21	Move North up to 8,800 feet	Mount Tabor Reroute	VA-MO-3370, VA-MO-3371, VA-MO-5513, VA-MO-5512, VA-MO-5511, VA-MO-5514, VA-MO-5516, VA-MO-5515, VA-MO-5519, VA-MO-5520, VA-MO-5521, VA-MO-5522, VA-MO-5523, VA-MO-5882, VA-MO-5526, VA-MO-5527, VA-MO-5528, VA-MO-5529, VA-MO-5530, VA-MO-5532, VA-MO-053, VA-MO-057	10	0
228.45	229.48	Move point of inflection	Updated route post survey access	VA-MO-059, VA-MO-060, VA-MO-3711, VA-MO-061, VA-MO-062, VA-MO-063, VA-MO-065, VA-MO-066, VA-MO-067, BV-MO-26, VA-MO-068	0	0
230.66	231.03	Move south up to 250 feet	Modification to improve constructability across the stream, road, and railroad	VA-MO-074, VA-MO-075, BV-MN-0053, VA-MO-5802, VA-MO-077, VA-MO-078, VA-MO-077, VA-MO-079	1	0
231.03	232.56	Move point of inflection	Updated route post survey access	VA-MO-079, VA-MO-080, VA-MO-081, VA-MO-082	0	0
232.56	232.89	Move South up to 900 feet	Landowner requested route shift	VA-MO-082, VA-MO-083	0	0
233	234.21	Move point of inflection	Updated route post survey access	VA-MO-083, VA-MO-084, VA-MO-006	0	0

APPENDIX I-2 (continued)							
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October 2016 Proposed Route						New Landowners Affected	Easements Acquired from New Landowners by Mountain Valley
Start MP	End MP	Type of Change	Description of Change	Parcel			
234.75	236.95	Move East up to 1,200 feet	Updated route post survey access	VA-MO-009, VA-RO-004, VA-MO-3715, VA-MO-088.04 (AR MN-279), VA-MO-011, VA-MO-012, VA-MO-013, VA-MO-5668, BV-MO-33, VA-MO-016, VA-MO-014, VA-MO-3717, VA-MO-3718, VA-MO-4321, VA-MO-019, VA-MO-5390, VA-MO-5391, VA-MO-020, VA-MO-021, VA-MO-022		1	0
235.9	236.95	Move West up to 1,950 feet	Landowner requested route shift	VA-MO-3718, VA-MO-4321, VA-MO-019, VA-MO-5390, VA-MO-5391, VA-MO-020, VA-MO-021, VA-MO-022		0	0
236.95	237.33	Move point of inflection	Landowner requested route shift	VA-MO-022, VA-MO-023		0	0
237.62	238.37	Move point of inflection	Updated route post survey access	VA-MO-025, VA-RO-036, VA-RO-037		0	0
243.56	243.66	Move point of inflection	Updated route post survey access	VA-RO-052, VA-RO-051, VA-RO-053		0	0
244.38	244.69	Move West by 290 feet	Landowner requested route shift	VA-RO-055, VA-RO-056, VA-RO-057		0	0
244.69	245.28	Move point of inflection	Updated route post survey access	VA-RO-057, VA-RO-058, VA-RO-059, VA-RO-060, VA-RO-061		0	0
246.09	246.57	Move up to 250 feet	Landowner requested route shift	VA-RO-068, VA-RO-070, VA-RO-069, VA-RO-5637, VA-FR-001		0	0
248.88	249.93	Move North up to 1,300 feet	Avoidance of an environmentally sensitive area	VA-FR-010, VA-FR-011, VA-FR-012, VA-FR-013.01, VA-FR-013, VA-FR-015.01, VA-FR-014, VA-FR-015		0	0
249.93	250.72	Move point of inflection	Updated route post survey access	VA-FR-015.01, VA-FR-015, VA-FR-016, VA-FR-015.04, VA-FR-015.02		0	0

APPENDIX I-2 (continued)

Route Variations and Minor Route Variations Adopted into the Proposed Route Since Issuance of the Draft EIS

October 2016 Proposed Route						New Landowners Affected	Easements Acquired from New Landowners by Mountain Valley
Start MP	End MP	Type of Change	Description of Change	Parcel			
251.28	251.65	Move point of inflection	Updated route post survey access	VA-FR-017.02		0	0
251.69	252.17	Shift West up to 290 feet	Avoidance of an environmentally sensitive area	VA-FR-017.02, VA-FR-017.06		0	0
252.17	252.58	Move point of inflection	Updated route post survey access	VA-FR-017.06, VA-FR-017.04, VA-FR-017.07, VA-FR-017.08		0	0
253.62	255.98	Move point of inflection	Updated route post survey access	VA-FR-017.11, VA-FR-017.15, VA-FR-017.17, VA-FR-017.16, VA-FR-017.19, VA-FR-017.20, VA-FR-5392, VA-FR-017.21, VA-FR-017.22, VA-FR-017.24, VA-FR-017.25, VA-FR-017.26, VA-FR-017.27		0	0
255.98	256.15	Move South up to 125 feet	Landowner requested route shift and a reduction in stream impacts	VA-FR-017.26, VA-FR-017.27		0	0
258.56	258.91	Move North up to 135 feet	Modification to move away from a parallel stream	VA-FR-045, BVA-FR-13, VA-FR-047		0	0
260.17	260.38	Move point of inflection	Updated route post survey access	VA-FR-053, VA-FR-057, VA-FR-058, VA-FR-057.01		0	0
261.09	261.39	Move point of inflection	Landowner requested route shift	VA-FR-064, VA-FR-064.01, BVFR-24, VA-FR-068		0	0
262.65	263.11	Move point of inflection	Updated route post survey access	BVFR-26, VA-FR-077, VA-FR-078, VA-FR-077.01, VA-FR-079		0	0
263.11	264.27	Move West up to 440 feet	Landowner requested route shift	VA-FR-077, VA-FR-080, VA-FR-081, VA-FR-5793, BVFR-30, VA-FR-089, VA-FR-081.001		0	0

APPENDIX I-2 (continued)							
Route Variations and Minor Route Variations Adopted into the Proposed Route Since Issuance of the Draft EIS							
October 2016 Proposed Route						New Landowners Affected	Easements Acquired from New Landowners by Mountain Valley
Start MP	End MP	Type of Change	Description of Change	Parcel			
264.27	267.75	Move North up to 9,900 feet	Blackwater River Reroute	VA-FR-081.001, VA-FR-5474, VA-FR-5475, VA-FR-5476, VA-FR-5479, VA-FR-5481, VA-FR-5483, VA-FR-5484, VA-FR-5485, VA-FR-5487, VA-FR-5488, VA-FR-5489, VA-FR-5490, VA-FR-5491, VA-FR-5492, VA-FR-5493, VA-FR-5495, VA-FR-5494, VA-FR-5496, VA-FR-5498, VA-FR-5499, VA-FR-5497, VA-FR-5500, VA-FR-5792, VA-FR-5502, VA-FR-5501, VA-FR-5503, VA-FR-5504, VA-FR-5505, VA-FR-5506, VA-FR-5507, VA-FR-5508, VA-FR-114, VA-FR-113, VA-FR-115, VA-FR-5828		24	0
267.75	268.76	Move South up to 1,500 feet	Sunshine Valley School Reroute	VA-FR-115, VA-FR-5828, VA-FR-5829, VA-FR-117, VA-FR-119, VA-FR-5151 (ATWS-1266)		2	0
273.11	273.46	Move South up to 160 feet	Avoidance of an environmentally sensitive area	VA-FR-147, VA-FR-148		0	0
277.45	277.55	Add point of inflection	Updated route post survey access	VA-FR-169, VA-FR-170		0	0
295.59	295.87	Shift South up to 325 feet	Landowner requested route shift	BVPI-14, BVPI-15, BVPI-17		0	0
297.7	297.92	Shift East up to 170 feet	Landowner requested route shift	VA-PI-073, VA-PI-73.031, VA-PI-074, VA-PI-075		0	0
298.44	298.87	Shift East up to 400 feet	Landowner requested route shift	VA-PI-087, VA-PI-088, VA-PI-089		0	0
302.86	303.47	Shift North up to 1100 feet	Landowner requested route shift and avoidance of streams, wetlands and other environmentally sensitive areas	VA-PI-111, VA-PI-112		0	0