

Table 2-1 (May 2015)

Wetlands Identified Within the Limits of Disturbance (LOD) for the Line MB Extension Project
Columbia Gas Transmission, LLC

Application Number: 12-NT-0433/201261660

County	Crossing Number ¹	Wetland Site ID	Associated Waterbody Crossing	Crossing Methodology	Phase	HGM Code ¹	Waters Type ^{2,3}	Approx. Milepost	Impact Plate Number	MOSF Sheet Number	USGS Quad Name	Watershed Name	Cowardin Classification	Latitude/Longitude Approximate Center Point	Total Wetland Impact Area ⁴ ^{1,2} (sq. ft.)	Wetland Buffer Impact Area (sq. ft.)	Permanent Loss of Wetlands ⁷ (sq. ft. and ac.)	Temporary Wetland Impacts ⁸ (sq. ft.)	Temporary Wetland Impacts ⁸ (ac.)	Permanent Wetland Conversion Impacts ^{4, 5} (sq. ft.)	Permanent Wetland Conversion Impacts ^{4, 5} (ac.)
Baltimore	1	LNMAW001B	No Associated Waterbodies	O-C	3	RIVERINE	RPWWD	0.5	1	1	Reisterstown	Gwynns Falls	PEM	39.4218/-76.7762	670		0	670	0.02	NA	NA
													PFO	39.4217/-76.7761	2,241	4,926	0	1,501	0.03	740	0.02
Baltimore	3	LNMAW002B	LNMA005B and LNMA006B	O-C	3	RIVERINE	RPWWD	0.9	2	2	Reisterstown	Gwynns Falls	PEM	39.4276/-76.7721	661		0	661	0.015	NA	NA
													PFO	39.4278/-76.7722	298	2,709	0	0	0	298	0.007
Baltimore	4	LNMAW004B	LNMA006A and LNMA007A	O-C	3	RIVERINE	RPWWD	1.2	3, 4, 5, 6	3	Reisterstown	Gwynns Falls	PEM	39.4320/-76.7695	20,300		0	20,300	0.47	NA	NA
													PFO	39.4325/-76.7685	38,289	9,457	0	17,134	0.39	21,155	0.49
Baltimore	5, 6	LNMAW005B	LNMA010B	O-C	3	RIVERINE	RPWWD	2	7, 8	5	Reisterstown	Jones Falls	PEM	39.4397/-76.7600	7,736		0	7,736	0.17	NA	NA
													PFO	39.4398/-76.7601	674	11,714	0	26	0.0006	648	0.01
Baltimore	7	LNMAW007B	LNMA011B	O-C	3	RIVERINE	RPWWD	2.1	9	6	Reisterstown	Jones Falls	PEM	39.4404/-76.7595	121	1,904	0	121	0.003	NA	NA
													PFO	39.4534/-76.7396	3,767	0	3,767	0.09	NA	NA	
Baltimore	11	LNMAW003A ¹¹	LNMA004A, LNMA005A, and LNMA0013A	O-C	3	RIVERINE	RPWWD	3.6	13	10	Cockeysville	Jones Falls	PFO	39.4535/-76.7399	2,015	2,801	0	1	0.00002	2,014	0.05
													PEM	39.4534/-76.7389	9	1,232	0	9	0.0002	NA	NA
Baltimore	12	LNMAW004A ¹¹	LNMA011A	O-C	3	RIVERINE	RPWWD	3.6	14	10	Cockeysville	Jones Falls	PEM	39.4542/-76.7345	208	1,955	0	208	0.005	NA	NA
Baltimore	13	LNMAW002A ¹¹	LNMA008A	O-C	3	RIVERINE	RPWWD	3.8	15	11	Cockeysville	Jones Falls	PEM	39.4542/-76.7345	208	1,955	0	208	0.005	NA	NA
Baltimore	14	LNMAW005A	LNMA014A	O-C	3	RIVERINE	RPWWD	5.3	16, 17	12	Cockeysville	Loch Raven Reservoir	PEM	39.4686/-76.7162	23,210	3,986	0	23,210	0.53	NA	NA
Baltimore	16	LNMAW008B	LNMA013B and LNMA042A	O-C	3	RIVERINE	RPWWD	6.4	18	13	Cockeysville	Loch Raven Reservoir	PEM	39.4812/-76.7038	45	1,589	0	45	0.001	NA	NA
Baltimore	17	LNMAW009B	LNMA015B and LNMA014B	O-C	3	RIVERINE	RPWWD	6.5	19	14	Cockeysville	Loch Raven Reservoir	PEM	39.4819/-76.7027	541	3,443	0	541	0.01	NA	NA
Baltimore	19	LNMAW012B	LNMA019B	O-C	3	RIVERINE	RPWWD	7.5	21	16	Cockeysville	Loch Raven Reservoir	PEM	39.4916/-76.6873	1,179	3,486	0	1,179	0.03	NA	NA
Baltimore	21	LNMAW015B	LNMA023B	O-C	2B	RIVERINE	RPWWD	8	23	17	Cockeysville	Loch Raven Reservoir	PEM	39.4950/-76.6805	3,276		0	3,276	0.08	NA	NA
													PFO	39.4952/-76.6806	3,957	4,501	0	2,253	0.05	1,704	0.04
Baltimore	22	LNMAW037B	LNMA022B and LNMA072B	O-C	2A, 2B	RIVERINE	RPWWD	8.2	24, 25	18	Cockeysville	Loch Raven Reservoir	PEM	39.4977/-76.6777	22,159		0	22,159	0.51	NA	NA
													PSS	39.4977/-76.6777	0	6,302	0	0	0.00	0	0
Baltimore	24	LNMAW017B	LNMA026B	O-C	2B	RIVERINE	RPWWD	9.7	28	20	Hereford	Loch Raven Reservoir	PEM	39.5105/-76.6567	0	2,188	0	0	0.00	NA	NA
Baltimore	25	LNMAW016B	LNMA026B	O-C	2B	RIVERINE	RPWWD	9.9	29, 30	21	Hereford	Loch Raven Reservoir	PEM	39.5119/-76.6542	17,195	17,518	0	17,195	0.40	NA	NA
Baltimore	26	LNMAW006A	LNMA015A and LNMA015A-001	O-C	2C	RIVERINE	RPWWD	10.8	31	22	Hereford	Loch Raven Reservoir	PEM	39.5204/-76.6402	6,940	8,748	0	6,940	0.16	NA	NA
Baltimore	27	LNMAW016A ¹²	LNMA040A, LNMA040A-A, LNMA017A, LNMA018A, and LNMA018A-001	O-C	2C	RIVERINE	RPWWD	11.4	33	24	Hereford	Loch Raven Reservoir	PFO	39.5254/-76.6318	0.0	148	0	0	0	0	0.00
Baltimore	29	LNMAW008A ¹²	LNMA021A	O-C	2C	RIVERINE	RPWWD	11.7	37	NA	Hereford	Loch Raven Reservoir	PEM	39.5271/-76.6286	193	2,177	0	193	0.004	NA	NA
Baltimore	31	LNMAW019B	LNMA033B	O-C	2B, 2C	RIVERINE	RPWWD	12.4	39, 40	28	Phoenix	Loch Raven Reservoir	PEM	39.5295/-76.6132	14,839		0	14,839	0.34	NA	NA
													PSS	39.5295/-76.6125	1,204	15,992	0	443	0.01	761	0.02
Baltimore	33	LNMAW018B	LNMA029B and LNMA030B	O-C	2B	RIVERINE	RPWWD	12.9	41	29	Phoenix	Loch Raven Reservoir	PEM	39.5303/-76.6051	6,209		0	6,209	0.14	NA	NA
													PFO	39.5302/-76.6050	2,043	5,304	0	2,043	0.05	NA	NA
Baltimore	34	LNMAW021B	LNMA039B	O-C	2B	RIVERINE	RPWWD	13.1	42	30	Phoenix	Loch Raven Reservoir	PEM	39.5310/-76.6006	1,253	3,529	0	1,253	0.03	NA	NA
													PFO	39.5310/-76.6006	65	0	65	0.001	NA	NA	
Baltimore	36	LNMAW020B	LNMA037B	O-C	2B	RIVERINE	RPWWD	13.7	44	32	Phoenix	Loch Raven Reservoir	PEM	39.5322/-76.5900	0	1,602	0	0	0.00	0	0
													PFO	39.5322/-76.5900	318	0	318	0.007	NA	NA	
Baltimore	37	LNMAW022B	LNMA040B, and LNMA040B-BRANCH	O-C	2B	RIVERINE	RPWWD	14.2	45	33	Phoenix	Loch Raven Reservoir	PFO	39.5328/-76.5815	85	3,392	0	0	0.00	85	0.002
Baltimore	38	LNMAW009A	LNMA023A	O-C	2B	RIVERINE	RPWWD	14.4	46, 47	34	Phoenix	Loch Raven Reservoir	PEM	39.5330/-76.5779	13,431	8,040	0	13,431	0.31	NA	NA

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Columbia Gas Transmission, LLC

Application Number: 12-NT-0433/201261660

County	Crossing Number ⁷	Wetland Site ID	Associated Waterbody Crossing	Crossing Methodology	Phase	HGM Code ¹	Waters Type ^{2,3}	Approx. Milepost	Impact Plate Number	MOSF Sheet Number	USGS Quad Name	Watershed Name	Cowardin Classification	Latitude/ Longitude Approximate Center Point	Total Wetland Impact Area ⁴ ^{1,2,3} (sq. ft.)	Wetland Buffer Impact Area (sq. ft.)	Permanent Loss of Wetlands ⁵ (sq. ft. and ac.)	Temporary Wetland Impacts ⁶ (sq. ft.)	Temporary Wetland Impacts ⁶ (ac.)	Permanent Wetland Conversion Impacts ^{4,5} (sq. ft.)	Permanent Wetland Conversion Impacts ^{4,5} (ac.)
Baltimore	39	LNMAW023B	No Associated Waterbodies	O-C	2B	RIVERINE	RPWWD	14.9	48, 49	35	Phoenix	Little Gunpowder Falls	PEM	39.5328/-76.5685	5,520	8,298	0	5,520	0.13	NA	NA
Baltimore	40	LNMAW024B	LNMAW041B	O-C	2B	RIVERINE	RPWWD	15	49, 50	36	Phoenix	Little Gunpowder Falls	PEM	39.5330/-76.5669	3,462	4,343	0	3,462	0.08	NA	NA
											PFO		5,821		2,892		0.07	2,929	0.07		
Baltimore	41	LNMAW025B	LNMAW042B	O-C	2B	RIVERINE	RPWWD	15.4	51	37	Phoenix	Little Gunpowder Falls	PEM	39.5325/-76.5594	3,562	5,304	0	3,562	0.08	NA	NA
											PFO	39.5327/-76.5592	2,557	1,602	0.04		955	0.02			
Baltimore	42	LNMAW026B	LNMAW043B	O-C	2B	RIVERINE	RPWWD	15.7	52	38	Phoenix	Little Gunpowder Falls	PEM	39.5320/-76.5529	6,302	6,092	0	6,302	0.14	NA	NA
											PFO	39.5323/-76.5525	2,704	1,554	0.04		1,150	0.03			
Baltimore	43	LNMAW011A	No Associated Waterbodies	O-C	2B	RIVERINE	RPWWD	15.8	53	NA	Phoenix	Little Gunpowder Falls	PEM	39.5319/-76.5511	20	868	0	20	0.0005	NA	NA
Harford	46	LNMAW036B	No Associated Waterbodies	HDD	2B	RIVERINE	RPWWN	17.6	54	NA	Phoenix	Little Gunpowder Falls	PEM	39.543/-76.528	Impact Eliminated via HDD						
Harford	48	LNMAW040B ¹⁰	LNMAW081B	O-C	1	RIVERINE	RPWWD	18.1	56	40	Phoenix	Little Gunpowder Falls	PEM	39.549/-76.522	1,617	6,761	0	1,617	0.04	NA	NA
Harford	49	LNMAW041B	LNMAW082B	O-C	1	RIVERINE	RPWWD	18.6	57	41	Phoenix	Little Gunpowder Falls	PEM	39.5530/-76.5163	0	581	0	0	0.00	NA	NA
Harford	50	LNMAW039B	LNMAW078B, LNMAW079B, and LNMAW080B	O-C	1	RIVERINE	RPWWD	19.1	58	42	Phoenix	Little Gunpowder Falls	PFO	39.5526/-76.5081	0	67	0	0	0.00	0	0
Harford	51	LNMAW038B	LNMAW076B, and LNMAW077B	O-C	1	RIVERINE	RPWWD	19.2	59	43	Phoenix	Little Gunpowder Falls	PEM	39.554/-76.507	1,169	4,493	0	1,169	0.03	NA	NA
Harford	52	LNMAW044B ¹¹	LNMAW086B	O-C	1	RIVERINE	RPWWD	20.2	60	44	Jarrettsville	Upper Winters Run	PEM	39.560/-76.492	2,986	5,369	0	2,986	0.07	NA	NA
Total MDE Impacts (HDD Implemented at Little Gunpowder Falls-Completed)															230,850	170,819	0	198,411	4.55	32,439	0.75
Total MDE Impacts (HDD Implementation at Gunpowder Falls)															230,657	168,494	0	198,218	4.55	32,439	0.75
Total MDE Impacts (HDD Implementation at UNTs North Branch Jones Falls)															224,852	164,831	0	194,427	4.46	30,425	0.70
Total MDE Impacts (HDD Implementation at UNTs North Branch Jones Falls and Gunpowder Falls)															224,659	162,506	0	194,234	4.46	30,425	0.70

LEGEND:

HDD = Horizontal Directional Drill
 O-C = Open Cut
 PSS = Palustrine Scrub-Shrub
 HGM = Hydrogeomorphic
 PEM = Palustrine Emergent
 TNW = Transnavigable Waterway
 NA = Not Applicable
 PFO = Palustrine Forested
 UNT= Unnamed Tributary

NOTES:

- ¹DEPRESS = Depressional (water source is return flow from groundwater and interflow, dominant hydrodynamics is vertical); RIVERINE = Riverine (overbank flow from a channel, and hydrodynamics which are predominantly unidirectional and horizontal)
- ²RPWWD = wetlands directly abutting relatively permanent waters (RPWs) that flow directly or indirectly into TNWs; RPWWN = wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs; ISOLATE = isolated (interstate or intrastate) waters, including isolated wetlands.
- ³Maryland Wetland of State Special Concern as defined by the Code of Maryland Regulations (COMAR) Title 26, Subtitle 23, Chapter 06, Sections 01 & 02. None were identified in review area.
- ⁴Permanent conversion impacts are not considered permanent loss as additional fill material will not be placed in wetlands and existing contours will be replaced. However, there will be functionality loss due to permanent conversion of PFO and PSS wetlands to PEM in the new permanent ROW.
- ⁵The Project consists of installing a pipeline that will require new permanent ROW. No permanent fill impacts are anticipated to wetland sites as a result of the Project; therefore, no net loss of wetland area is anticipated. However, the new proposed permanent ROW will require conversion of PFO and PSS wetlands to PEM wetlands. These wetland conversion impacts are permanent and correspond to a 50' width along the centerline.
- ⁶The main objective of any wetland crossing is to construct the pipeline and restore the original contour of the wetland. A maximum 75-foot-wide Construction Work Area may be used through wetlands. Vegetation will be cut off just above ground level, leaving existing root systems in place, and will then be removed from the wetland for disposal. Grading in wetlands will consist of the minimum necessary for safe and efficient equipment operation. The pulling of tree stumps and grading activities will be limited to areas directly over the trenchline.
- ⁷These impact areas include both permanent and temporary impacts.
- ⁸Crossing numbers were assigned to jurisdictional wetlands and streams that are hydrologically connected. Therefore crossing numbers located in Tables 2-1 and 2-2 are the same for some wetlands and streams, and may correspond to multiple features. Features were assigned crossing numbers if they are located within the proposed workspace corridor.
- ⁹Per the pre-application meeting, the Maryland Department of Environment (MDE) and the United States Army Corps of Engineers (USACE) requested that total impacts include the sum of temporary impacts, permanent loss, and permanent conversion impacts. The agencies further indicated that permanent loss would be zero as there will be no additional fill placed within wetlands.
- ¹⁰Wetland and wetland buffer impacts modified in Permit Modification A (August 1, 2014).
- ¹¹Impacts to this resource would be avoided if HDD at UNT North Branch Jones Falls implemented.
- ¹²Impacts to this resource would be avoided if HDD at Gunpowder Falls implemented.

Table 2-2 (May 2015)

Streams Identified Within the Limits of Disturbance (LOD) for the Line MB Extension Project

Columbia Gas Transmission, LLC

Application Number: 12-NT-0433/201261660

County	Crossing Number ⁷	Stream ID	Associated Wetland Crossing Number	Crossing Methodology	Phase	Stream Type	Approx. MP	Impact Plate Number	Latitude/ Longitude	USGS Quad Name	Stream Name	Use Classification ¹	Waters Type ²	MOSF and Profile Drawing Sheet Number	OHHM Width ³ (linear ft.)	TOB Width (linear ft.) ³	Stream Impact Length Within CWA (linear ft.)	Temporary Stream Area Impact ^{4,5,6} (sq. ft.)	Temporary Floodplain Area Impact ⁴ (sq. ft.)	Temporary Floodplain Impact ⁴ (cu. yd.)	Additional Fill within Floodplain (cu. yd.)
Baltimore	2	LNMA003B	No Associated Wetlands	O-C	3	P	0.5	1, 1A	39.4221/-76.7763	Reisterstown	Gwynns Falls	III	RPW	1	50	49	80	3697	47,742	733	0
Baltimore	3	LNMA005B	LNMAW002B	O-C	3	P	0.9	2	76.7717	Reisterstown	Gwynns Falls	III	RPW	2	25	41	95	2990	19,319	318	0
Baltimore	3	LNMA006B	LNMAW002B	O-C	3	E	0.9	2	39.4231/-76.7752	Reisterstown	UNT To Gwynns Falls	III	NRPW	2	5	NA	16	17	NA	NA	0
Baltimore	4	LNMA006A	LNMAW004B	O-C	3	P	1.2	4	39.4545/-76.7346	Reisterstown	UNT To Gwynns Falls	III	RPW	3	10	8	87	521	NA	NA	0
Baltimore	4	LNMA007A	LNMAW004B	O-C	3	I	1.2	4	39.4545/-76.7346	Reisterstown	UNT To Gwynns Falls	III	RPW	3	2	NA	63	196	NA	NA	0
Baltimore	5	LNMA010B	LNMAW005B	O-C	3	P	2	7	39.4532/-76.7386	Reisterstown	UNT North North Branch Jones Falls	III	RPW	5	3	2	75	150	NA	NA	0
Baltimore	7	LNMA011B	LNMAW007B	O-C	3	P	2.1	9	39.4535/-76.7390	Reisterstown	UNT To North Branch Jones Falls	III	RPW	6	4	2	83	165	NA	NA	0
Baltimore	8	LNMA012B	No Associated Wetlands	O-C	3	P	2.5	10	39.4687/-76.7167	Reisterstown	UNT North Branch Jones Falls	III	RPW	7	5	2	52	104	NA	NA	0
Baltimore	9	LNMA001A	No Associated Wetlands	O-C	3	E	2.8	11	39.4175/-76.7799	Reisterstown	UNT To North Branch Jones Falls	III	NRPW	8	3	NA	194	586	NA	NA	0
Baltimore	10	LNMA002A	No Associated Wetlands	O-C	3	P	2.9	12	39.4174/-76.7797	Cockeysville	North Branch Jones Falls	III	RPW	9	10	13	89	974	3,155	65	0
Baltimore	11	LNMA004A ¹⁴	LNMAW003A	O-C	3	P	3.5	13	39.4534/-76.7394	Cockeysville	UNT To North Branch Jones Falls	III	RPW	10	4	NA	0.3	1	NA	NA	0
Baltimore	11	LNMA005A ¹⁴	LNMAW003A	O-C	3	P	3.5	13	39.4316/-76.7704	Cockeysville	UNT To North Branch Jones Falls	III	RPW	10	3	12	94	525	NA	NA	0
Baltimore	11	LNMA013A ¹⁴	LNMAW003A	O-C	3	P	3.5	13, 14	39.4819/-76.7028	Cockeysville	UNT To North Branch Jones Falls	III	RPW	10	2	24.2	143	1364	NA	NA	0
Baltimore	12	LNMA011A ¹⁴	LNMAW004A	O-C	3	P	3.6	14	39.4455/-76.7559	Cockeysville	UNT To North Branch Jones Falls	III	RPW	10	2	NA	1	6	NA	NA	0
Baltimore	13	LNMA008A ¹⁴	LNMAW002A	O-C	3	P	3.8	15	39.4228/-76.7758	Cockeysville	UNT To North Branch Jones Falls	III	RPW	11	12	11.1	55	555	NA	NA	0
Baltimore	14	LNMA014A	LNMAW005A	O-C	3	P	5.3	16, 17	39.4818/-76.7026	Cockeysville	Beaverdam Run	III-P	RPW	12	13	32	128	2010	23,783	460	0
Baltimore	16	LNMA013B	LNMAW008B	O-C	3	I	6.4	18	39.5204/-76.6399	Cockeysville	UNT To Baisman Run	III-P	RPW	13	5	3	140	279	NA	NA	0
Baltimore	16	LNMA042A	LNMAW008B	O-C	3	P	6.4	18	39.5347/-76.5161	Cockeysville	UNT To Baisman Run	III-P	RPW	13	1	2	44	91	NA	NA	0
Baltimore	17	LNMA014B	LNMAW009B	O-C	3	P	6.4	19	39.5219/-76.6381	Cockeysville	UNT To Baisman Run	III-P	RPW	14	1	2	66	133	NA	NA	0
Baltimore	17	LNMA015B	LNMAW009B	O-C	3	I	6.4	19	39.5251/-76.6317	Cockeysville	UNT To Baisman Run	III-P	RPW	14	1	NA	32	67	NA	NA	0
Baltimore	18	LNMA017B	No Associated Wetlands	O-C	3	P	6.7	20	39.4932/-76.6837	Cockeysville	Baisman Run	III-P	RPW	15	4	2	90	179	NA	NA	0
Baltimore	19	LNMA019B	LNMAW012B	O-C	3	P	7.6	21	39.5329/-76.5782	Cockeysville	UNT To Oregon Pool	III-P	RPW	16	2	2	89	178	NA	NA	0

Table 2-2 (May 2015)

Streams Identified Within the Limits of Disturbance (LOD) for the Line MB Extension Project
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County	Crossing Number ⁷	Stream ID	Associated Wetland Crossing Number	Crossing Methodology	Phase	Stream Type	Approx. MP	Impact Plate Number	Latitude/ Longitude	USGS Quad Name	Stream Name	Use Classification ¹	Waters Type ²	MOSF and Profile Drawing Sheet Number	OHHM Width ³ (linear ft.)	TOB Width (linear ft.) ³	Stream Impact Length Within CWA (linear ft.)	Temporary Stream Area Impact ^{4,5,6} (sq. ft.)	Temporary Floodplain Area Impact ⁴ (sq. ft.)	Temporary Floodplain Impact ⁴ (cu. yd.)	Additional Fill within Floodplain (cu. yd.)
Baltimore	20	LNMA024B	No Associated Wetlands	O-C	2	P	7.9	22, 23	39.5348/-76.5747	Cockeysville	Oregon Branch	III-P	RPW	17	6	21	77	1935	27,794	537	0
Baltimore	21	LNMA023B	LNMAW015B	O-C	2	P	7.9	23	39.5352/-76.5758	Cockeysville	UNT To Oregon Branch	III-P	RPW	17	3	2	78	157	NA	NA	0
Baltimore	22	LNMA022B	LNMAW037B	O-C	2B	I	8.2	24	39.5116/-76.6546	Cockeysville	UNT To Oregon Branch	III-P	RPW	18	5	3	95	192	NA	NA	0
Baltimore	22	LNMA072B	LNMAW037B	O-C	2B	I	8.2	24	39.4221/-76.7763	Cockeysville	UNT To Oregon Branch	III-P	RPW	18	2	NA	37	147	NA	NA	0
Baltimore	23	LNMA027B	No Associated Wetlands	O-C	2B	P	9.6	26	39.5299/-76.6109	Hereford	Western Run	III-P	RPW	19	76	77	75	5620	15,273	296	0
Baltimore	24, 25	LNMA026B	LNMAW017B, LNMAW016B	O-C	2B	P	9.7	27, 29	39.5299/-76.6108	Hereford	UNT To Western Run	III-P	RPW	20, 21	5	5	200	400	NA	NA	0
Baltimore	26	LNMA015A and LNMA015A-001	LNMAW006A	O-C	2C	P	10.8	31	39.4829/-76.7021	Hereford	UNT To Gunpowder Falls	III-P	RPW	22	10	NA	41	793	NA	NA	0
Baltimore	27	LNMA018A ¹⁵ and LNMA018A-001 ¹⁵	LNMAW016A	O-C	2C	P	11.2	32, 33,	39.5266/-76.6276	Hereford	UNT To Gunpowder Falls	III-P	RPW	23,25	2	94.2	448	7058	NA	NA	0
Baltimore	27	LNMA017A ¹⁵	LNMAW016A	O-C	2C	P	11.4	33, 34, 35	39.4918/-76.6875	Hereford	UNT To Gunpowder Falls	III-P	RPW	23,24,25	3	105.1	344	8365	NA	NA	0
Baltimore	27	LNMA040A ¹⁵ and LNMA040A-A ¹⁵	LNMAW016A	O-C	2C	P	11.4	33	39.5321/-76.5264	Hereford	UNT To Gunpowder Falls	III-P	RPW	24	2	3.2	76	149	NA	NA	0
Baltimore	28	LNMA019A ¹⁵	No Associated Wetlands	O-C	2C	P	11.7	35A, 36	39.4964/-76.6773	Hereford	Gunpowder Falls	III-P	RPW	26	114	114.3	76	8467	34,480	575	0
Baltimore	29	LNMA021A ¹⁵	LNMAW008A	O-C	2C	P	11.7	38	39.4778/-76.7048	Hereford	UNT To Gunpowder Falls	III-P	RPW	27	2	NA	60	322	NA	NA	0
Baltimore	31	LNMA033B	LNMAW019B	O-C	2B	P	12.5	40	39.5276/-76.4999	Phoenix	UNT To Carroll Branch	III-P	RPW	28	1	3	94	188	NA	NA	0
Baltimore	32	LNMA026A	No Associated Wetlands	NA ⁹	2B	P	12.5	NA	39.5321/-76.5488	Phoenix	UNT To Carroll Branch	III-P	RPW	NA	3	4	NA	NA	NA	NA	0
Baltimore	33	LNMA030B	LNMAW018B	O-C	2B	P	12.8	41	39.5284/-76.6198	Phoenix	UNT To Carroll Branch	III-P	RPW	29	6	2	81	166	NA	NA	0
Baltimore	34	LNMA039B	LNMAW021B	O-C	2B	P	13.1	42	39.5320/-76.5265	Phoenix	UNT To Carroll Branch	III-P	RPW	30	3	3	147	293	NA	NA	0
Baltimore	35	LNMA038B	No Associated Wetlands	O-C	2B	P	13.3	43	39.5316/-76.5533	Phoenix	UNT To Carroll Branch	III-P	RPW	31	4	2	106	213	NA	NA	0
Baltimore	36	LNMA037B	LNMAW020B	O-C	2B	P	13.7	44	39.5326/-76.5593	Phoenix	UNT To Carroll Branch	III-P	RPW	32	3	2	78	156	NA	NA	0

Table 2-2 (May 2015)

Streams Identified Within the Limits of Disturbance (LOD) for the Line MB Extension Project

Columbia Gas Transmission, LLC

Application Number: 12-NT-0433/201261660

County	Crossing Number ⁷	Stream ID	Associated Wetland Crossing Number	Crossing Methodology	Phase	Stream Type	Approx. MP	Impact Plate Number	Latitude/ Longitude	USGS Quad Name	Stream Name	Use Classification ¹	Waters Type ²	MOSF and Profile Drawing Sheet Number	OHWM Width ³ (linear ft.)	TOB Width (linear ft.) ³	Stream Impact Length Within CWA (linear ft.)	Temporary Stream Area Impact ^{4,5,6} (sq. ft.)	Temporary Floodplain Area Impact ⁴ (sq. ft.)	Temporary Floodplain Impact ⁴ (cu. yd.)	Additional Fill within Floodplain (cu. yd.)
Baltimore	37	LNMA040B	LNMAW022B	O-C	2B	P	14.2	45	39.5340/-76.5191	Phoenix	UNT To Greene Branch	III-P	RPW	33	4	3	96	190	NA	NA	0
Baltimore	37	LNMA040B-BRANCH	LNMAW022B	O-C	2B	P	14.2	45	39.5340/-76.5185	Phoenix	UNT To Greene Branch	III-P	RPW	33	6	NA	36	73	NA	NA	0
Baltimore	38	LNMA023A	LNMAW009A	O-C	2B	P	14.3	46	39.5347/-76.5761	Phoenix	UNT To Greene Branch	III-P	RPW	34	2	8	90	628	NA	NA	0
Baltimore	40	LNMA041B	LNMAW024B	O-C	2B	P	14.9	49, 50	39.5342/-76.5181	Phoenix	Parker Branch	III	RPW	36	4	4	122	242	NA	NA	0
Baltimore	41	LNMA042B	LNMAW025B	O-C	2B	P	15.3	51	39.5350/-76.5155	Phoenix	UNT To Parker Branch	III	RPW	37	3	3	83	166	NA	NA	0
Baltimore	42	LNMA043B	LNMAW026B	O-C	2B	P	15.7	52	39.5313/-76.5329	Phoenix	UNT To Parker Branch	III	RPW	38	10	2	108	215	NA	NA	0
Harford	47	LNMA075B	No Associated Wetlands	HDD	1	P	17.7	55A	39.5434/-76.5275	Phoenix	Little Gunpowder Falls	III	RPW	39	Impact Eliminated via HDD						
Harford	54	LNMA0100B ^{11, 12}	No Associated Wetlands	NA	1	P	17.8	55E, 55F	39.546/-76.528	Phoenix	Yellow Branch	III	RPW	NA	NA	NA	NA	0	13,008	0	0
Harford	48	LNMA081B ¹³	LNMAW040B	O-C	1	I	18.1	56	39.5485/-76.5223	Phoenix	UNT To Yellow Branch	III	RPW	40	1	2	134	269	NA	NA	0
Harford	49	LNMA082B	LNMAW041B	O-C	1	I	18.6	57	39.5532/-76.5167	Phoenix	UNT To Yellow Branch	III	RPW	41	1	3	84	252	NA	NA	0
Harford	50	LNMA078B	LNMAW039B	O-C	1	P	19.1	58	39.5532/-76.5087	Phoenix	UNT To Yellow Branch	III	RPW	42	4	3	66	199	NA	NA	0
Harford	50	LNMA079B	LNMAW039B	O-C	1	E	19.1	58	39.5531/-76.5084	Phoenix	UNT To Yellow Branch	III	NRPW	42	1	NA	47	140	NA	NA	0
Harford	51	LNMA076B	LNMAW038B	O-C	1	P	19.2	59	39.5544/-76.5073	Phoenix	UNT To Yellow Branch	III	RPW	43	3	6	105	627	NA	NA	0
Harford	52	LNMA086B ¹³	LNMAW044B	O-C	1	P	20.2	60	39.5599/-76.4921	Jarrettsville	UNT to West Branch Winters Run	IV-P	RPW	44	12	6	100	595	NA	NA	0
Harford	53	LNMA060B	No Associated Wetlands	O-C	1	E	21	61	39.5006/-76.6704	Jarrettsville	UNT To West Branch Winters Run	IV-P	NRPW	45	5	3	136	274	NA	NA	0
Total Impacts¹⁶																	5,037	53,279	184,554	2,985	0
Total MDE Impacts (HDD Implemented at Little Gunpowder Falls-Completed)¹⁷																	4,644	52,262	184,554	2,985	0
Total MDE Impacts (HDD Implementation at Gunpowder Falls)																	3,640	27,901	150,074	2,410	0
Total MDE Impacts (HDD Implementation at UNTs North Branch Jones Falls)																	4,350	49,811	184,554	2,985	0
Total MDE Impacts (HDD Implementation at UNTs North Branch Jones Falls and Gunpowder Falls)																	3,346	25,450	150,074	2,410	0

LEGEND:

- AR = Access Road
- CWA = Construction Work Area
- HDD = Horizontal Directional Drill
- MP = Milepost
- O-C = Open Cut
- OHWM = Ordinary High Water Mark
- TC = temporary bridge for access road
- TOB = Top-of-Bank
- UNT = Unnamed Tributary
- P = Perennial; I = Intermittent; E = Ephemeral

Table 2-2 (May 2015)

Streams Identified Within the Limits of Disturbance (LOD) for the Line MB Extension Project

Columbia Gas Transmission, LLC

Application Number: 12-NT-0433/201261660

County	Crossing Number ⁷	Stream ID	Associated Wetland Crossing Number	Crossing Methodology	Phase	Stream Type	Approx. MP	Impact Plate Number	Latitude/ Longitude	USGS Quad Name	Stream Name	Use Classification ¹	Waters Type ²	MOSF and Profile Drawing Sheet Number	OHWM Width ³ (linear ft.)	TOB Width (linear ft.) ³	Stream Impact Length Within CWA (linear ft.)	Temporary Stream Area Impact ^{4,5,6} (sq. ft.)	Temporary Floodplain Area Impact ⁸ (sq. ft.)	Temporary Floodplain Impact ⁸ (cu. yd.)	Additional Fill within Floodplain (cu. yd.)
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NOTES:

Streams identified within the Line MB Extension Project survey corridor are not designated as Tier II or Tier III streams by the Code of Maryland Regulations (COMAR) Sections 26.08.02.04-1. As outlined in the COMAR, all waterbodies not listed as Tier II or Tier III waters are Tier I. As such, all waterbodies identified within the Line MB Extension Project Survey Corridor are Tier I streams. However, the proposed Project will cross Tier II watersheds. Columbia will utilize enhanced BMPs as required for construction activities in Tier II watersheds. Examples of enhanced BMPs include accelerated stabilization, enhanced scheduling (e.g., reviewing the weather forecast to avoid work during times of high sediment transport risk), enhanced inspections, and using super silt fence in place of silt fence. Enhanced BMPs have been incorporated into the Project's site-specific Maintenance of Stream Flow (MOSF) drawings which are included.

¹Designated Water Uses as defined by Code of Maryland Regulations (COMAR) Sections 26.08.02.02, 26.08.02.02-1, and 26.08.02.08. Waterbodies within the Line MB Extension Project survey corridor have been identified as Use III (nontidal cold water), Use III-P (nontidal cold water and public water supply), or Use IV-P (recreational trout waters and public water supply).

²TNW = traditional navigable waters; RPW = relatively permanent waters that flow directly or indirectly into TNWs; NRPW = non-RPWs that flow directly or indirectly into TNWs; ISOLATE = isolated (interstate or intrastate) waters, including isolated wetlands

³This width may actually vary within the CWA.

⁴Calculated based on the jurisdictionally-based OHWM.

⁵Direct impacts to streams will be limited to the trenching activities associated with installation of the pipeline and to the placement of temporary bridge associated with equipment crossings of the stream during construction. Streambank contours will be restored post-construction, and no permanent impacts to the stream crossings are anticipated.

⁶All stream impacts are temporary.

⁷Crossing numbers were assigned to jurisdictional wetlands and streams that are hydrologically connected. Therefore crossing numbers located in Tables 2-1 and 2-2 are the same for some wetlands and streams, and may correspond to multiple features. Features were assigned crossing numbers if they are located within the proposed workspace corridor.

⁸Floodplain impacts were calculated within the Federal Emergency Management Agency (FEMA) 100-year floodplain.

⁹This stream is located within an access road corridor and will not be impacted by the project as it flows under an existing paved roadway.

¹⁰There will be no excavation within this floodplain as impacts are due to an access road.

¹¹Stream impact eliminated by removal of AR-1790 as included in Permit Modification A (August 1, 2014).

¹²Floodplain impacts associated with AR-1810 modified in Permit Modification A (August 1, 2014).

¹³Stream impacts modified in Permit Modification A (August 1, 2014).

¹⁴Impacts to this resource would be avoided if HDD at UNT North Branch Jones Falls implemented.

¹⁵Impacts to this resource would be avoided if HDD at Gunpowder Falls implemented.

¹⁶Total Impacts includes all impacts regulated by the Maryland Department of Environment (MDE) and/or the United States Army Corps of Engineers (USACE).

¹⁷Total MDE Impacts include only impacts regulated by the Maryland Department of Environment (MDE). Ephemeral channels are not regulated by MDE and ephemeral impacts have been removed.