Resource Type (Stream or Wetland)	Resource Name	Resource ID	MP	Chapter 93 Classification, Wetland Classification	Stream Type (Perennial, Intermittent, Ephemeral)	Stream Trout Status (Class A Wild Trout, Wild Trout, Trout Stocked)	Wetland (Cowardin Classification)	Limits of Disturbance (LOD) Adjustments (Supporting Information for Technical Deficiencies #25 and #29)	Field Routing Adjustments within 600-foot Wide Corridor (Supporting Information for Technical Deficiency #13)*
Stream	Marsh Run	WW-T02-15016	5.07	CWF, MF	Perennial	Wild Trout Waters	R3	LOD has been reduced to 80' to minimize impacts to WW-T02-15016.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Wetland	N/A	W-T02-15017	5.10	EV	N/A	N/A	PEM	LOD has been reduced to 75' to minimize impacts to W-T02-15017.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this narrow, linear wetland. Please also note that the pipeline just east of this crossing was shifted north during field routing to entirely avoid a significant wetland complex (W-T02-15018).
Wetland	N/A	W-T02-15019A/ W-T02-15019B/ W-T02-15019C	5.96	EV	N/A	N/A	PEM, PSS, PFO	LOD has been reduced to 75' in portions of the crossing. Full LOD reduction to 75' was not possible due to the saturated nature of the wetland with unconsolidated soils and presence of two complex stream crossings adjacent to the wetland. The stream crossings will require a minimum of 5 foot of cover over the proposed pipeline and will result in a larger and deeper trench excavation. The additional workspace will provide storage for spoil within the wetland and will result in less impact than transporting material to a stockpile area outside the wetland.	The nineline was routed in this location to narallel existing POW and crosses the wetland
Stream	Maple Run	WW-T02-15017/ WW-T02-15017A	6.00	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	LOD reduction not possible at this crossing (per justification provided for wetland W-T02-15019 crossing)	The pipeline was routed in this location to parallel existing ROW and cross the meandering stream at a roughly perpendicular angle.
Wetland	N/A	W-T02-15020C	6.43	None	N/A	N/A	PFO	LOD has been reduced to 75' to minimize impacts to W-T02-15020C.	The pipeline route was adjusted in this location to deviate from existing ROW in order to minimize impacts to this wetland system. The proposed route crosses closer to the margin of the wetland and reduces the crossing distance by approximately 300'. A more significant realignment to the south was considered but was not implemented due to increased habitat fragmentation and increased impacts to upland forest.
Wetland	N/A	W-T02-15022A/ W-T02-15022C	6.95	None	N/A	N/A	PEM, PFO	LOD has been reduced to 75' to minimize impacts to W-T02-15022.	The pipeline was routed in this location to parallel existing ROW and allows the forested portion of this wetland to be crossed at a 90 degree angle at one of the narrowest points.
Wetland	N/A	W-T02-15023A/ W-T02-15023C	7.17	None	N/A	N/A	PEM, PFO	LOD has been reduced to 75' to minimize impacts to W-T02-15023.	The pipeline was routed in this location to parallel existing ROW, and crosses the wetland along its northern margin.

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Stream	Kitchen Creek (WW-T02-15018)	WW-T02-15018	7.34	HQ-CWF, MF	Perennial	Approved Trout Water; Class A Wild Trout Waters	R3	LOD reduction is not possible at this location; the full 90' wide workspace is required to complete a safe and efficient crossing.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Stream	Crooked Creek	WW-T24-15001	7.46	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	LOD has been reduced to 80' to minimize impacts to WW-T24-15001.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Wetland	N/A	W-T24-15001	7.47	EV	N/A	N/A	PEM	W-T24-15001 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. However, the portion of the LOD within this wetland was reduced by 10' to minimize impacts.	The pipeline was routed in this location to parallel existing ROW; avoidance of this feature was not practicable as it is located entirely within the existing ROW.
Wetland	N/A	W-T02-16001	8.36	EV	N/A	N/A	PEM	W-T24-16001 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. In addition, an LOD reduction at this location would onle be possible in the adjacent upland area and would not result in minimization of wetland impacts.	The pipeline was routed in this location to parallel existing ROW; avoidance of this feature was not practicable as it is located entirely within the existing ROW.
Wetland	N/A	W-T02-16003A / W-T02-16003A-1	M-0056 0.39	EV	N/A	N/A	PEM	W-T02-16003 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. However, the portion of the LOD within this wetland was reduced by 5' to minimize impacts.	The pipeline was routed in this location to deviate from existing ROW to avoid a known population of Northeastern Bulrush (T&E species) that was identified during environmental surveys in W-T02-16003C. The realignment to avoid northeastern bulrush shifted the pipeline ~400' south avoiding nearly all of the W-T02-16003 complex. The proposed route crosses the margin of the complex in previously disturbed area (old logging roads) and avoids the Northeastern Bulrush habitat.
Stream	UNT to Phillips Creek	WW-T02-16001	9.14	HQ-CWF, MF	Intermittent	Class A Wild Trout Waters	R4	LOD has been reduced to 80' to minimize impacts to WW-T02-16001.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.

Resource Type (Stream or Wetland)	Resource Name	Resource ID	MP	Chapter 93 Classification, Wetland Classification	Stream Type (Perennial, Intermittent, Ephemeral)	Stream Trout Status (Class A Wild Trout, Wild Trout, Trout Stocked)	Wetland (Cowardin Classification)	Limits of Disturbance (LOD) Adjustments (Supporting Information for Technical Deficiencies #25 and #29)	Field Routing Adjustments within 600-foot Wide Corridor (Supporting Information for Technical Deficiency #13)*
Wetland	N/A	W-T02-16002	9.16	EV	N/A	N/A	PEM		The pipeline was routed in this location to parallel existing ROW; avoidance of this feature was not practicable as it is located entirely within the existing ROW.
Stream	Phillips Creek	WW-T02-16002	9.28	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	II (11) has been reduced to $X(1)$ to minimize impacts to $X(1)X = I(1)X = I(1)X$	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Wetland	N/A	W-T05-16004	10.20	EV	N/A	N/A	PEM		The pipeline was routed in this location to parallel existing ROW, and the route crosses the wetland in an area where there are several upland islands, reducing overall wetland impacts.
Stream	Lick Branch	WW-T05-16003	10.23	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	II (II) has been required to 75. to minimize impacts to W/W-105-16003	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Wetland	N/A	W-T05-16005	10.72	None	N/A	N/A	PEM		The pipeline was routed in this location to parallel existing ROW, and the route crosses only a small section of the wetland along its margin.
Wetland	N/A	W-T11-16001A/ W-T11-16001B/ W-T11-16001C-1	10.94	None	N/A	N/A	PEM, PSS, PFO		The pipeline was routed in this location to parallel existing ROW, and the route crosses the wetland along its northern margin.
Stream	UNT to Arnold Creek	WW-T11-16001D	11.19	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	II ()I) has been reduced to X(); to minimize impacts to \/\/\/_I 11-16()()1I)	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Stream	Arnold Creek	WW-T11-16001	11.22	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	II (II) has been reduced to XII to minimize impacts to W/W-I I I-16/III	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.

Resource Type (Stream or Wetland)	Resource Name	Resource ID	МР	Chapter 93 Classification, Wetland Classification	Stream Type (Perennial, Intermittent, Ephemeral)	Stream Trout Status (Class A Wild Trout, Wild Trout, Trout Stocked)	Wetland (Cowardin Classification)	Limits of Disturbance (LOD) Adjustments (Supporting Information for Technical Deficiencies #25 and #29)	Field Routing Adjustments within 600-foot Wide Corridor (Supporting Information for Technical Deficiency #13)*
Stream	UNT to Arnold Creek	WW-T11-16001B	11.24	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	LOD has been reduced to 80' to minimize impacts to WW-T11-16001B.	The pipeline was routed in this location to parallel existing ROW. This is a small feeder stream to WW-T11-16001. Although this crossing occurs at an oblique angle, a route change was not considered in order to maintain collocation and perpendicular crossing angles for WW-T11-16001D and WW-T11-16001.
Wetland	N/A	W-T11-16002A/	11.20	EV	N/A	N/A	PEM	LOD has been reduced to 75' to minimize impacts to W-T11-16002A.	The pipeline was routed in this location to parallel existing ROW; avoidance of this feature was not practicable as it is located entirely within the existing ROW.
Wetland	N/A	W-T13-16002A/ W-T13-16002C	11.52	None	N/A	N/A	PEM, PFO	LOD has been reduced to 75' to minimize impacts to W-T13-16002C.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this wetland.
Pond	N/A	WB-T13-16002	11.52	None	N/A	N/A	PUB	This feature is part of a larger wetland complex and the LOD has been reduced to 75' to minimize impacts to the entire complex.	The pipeline was routed in this location to parallel existing ROW. Only the fringe of this ponded area portion of wetland W-T13-16002 is crossed.
Stream	UNT to Shingle Run (WW-T13-16002)	WW-T13-16002	11.82	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	LOD has been reduced to 80' to minimize impacts to WW-T13-16002.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Wetland	N/A	W-T13-16001	11.83	EV	N/A	N/A	PEM	W-T13-16001 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. In addition, an LOD reduction at this location would only be possible in the adjacent upland area and would not result in minimization of wetland impacts.	The pipeline was routed in this location to parallel existing ROW and crosses the wetland at a perpendicular angle along its northern margin.
Stream	Shingle Run (WW-T13-16001)	WW-T13-16001	12.17	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	LOD has been reduced to 80' to minimize impacts to WW-T13-16001.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Stream	UNT to Mitchler Run (WW-T05-16002)	WW-T05-16002	12.92	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	LOD has been reduced to 80' to minimize impacts to WW-T05-16002.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.

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Stream	UNT to Mitchler Run (WW-T90-16002)	WW-T90-16002	13.06	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	LOD was not reduced as the stream does not cross the full width of the LOD, and an LOD reduction at this location would only be possible in the adjacent upland area and would not result in minimization of stream impacts.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Stream	Mitchler Run (WW-T05-16001)	WW-T05-16001	13.09	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	LOD has been reduced to 80' to minimize impacts to WW-T05-16001.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Stream	UNT to Mitchler Run (WW-T05-16001A)	WW-T05-16001A	13.09	HQ-CWF, MF	Ephemeral	Class A Wild Trout Waters	R6	LOD has been reduced to 80' to minimize impacts to WW-T05-16001A.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Stream	UNT to Mitchler Run (WW-T90-16001)	WW-T90-16001	13.11	HQ-CWF, MF	Perennial	Class A Wild Trout Waters		LOD was not reduced as the stream does not cross the full width of the LOD, and an LOD reduction at this location would only be possible in the adjacent upland area and would not result in minimization of stream impacts.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Wetland	N/A	W-T05-16003	13.13	EV	N/A	N/A	PEM	LOD has been reduced to 75' for the portion of W-T05-16003 that crosses the full width of the LOD. Additional LOD reduction for the portion of the wetland encroaching on the southern end of the LOD would only be possible in the adjacent upland area and would not result in additional minimization of wetland impacts.	The pipeline was routed in this location to parallel existing ROW, and the impacted area is along the northern margin of the wetland.
Wetland	N/A	W-T05-16002	13.65	None	N/A	N/A		W-T05-16002 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. In addition, an LOD reduction at this location would only be possible in the adjacent upland area and would not result in minimization of wetland impacts.	The pipeline was routed in this location to parallel existing ROW, and the impacted area is confined to the existing cleared ROW.
Wetland	N/A	W-T05-16001	13.70	None	N/A	N/A		W-T05-16001 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. In addition, an LOD reduction at this location would only be possible in the adjacent upland area and would not result in minimization of wetland impacts.	The pipeline was routed in this location to parallel existing ROW, and the impacted area is confined to the existing cleared ROW.

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Wetland	N/A	W-T03-16005 / W-T03-16005-1	13.85	EV	N/A	N/A	PEM	LOD has been reduced to 75' for the portion of W-T03-16005 that crosses the full width of the LOD. Additional LOD reduction for the portion of the wetland encroaching on the southern end of the LOD would only be possible in the adjacent upland area and would not result in additional minimization of wetland impacts.	The pipeline was routed in this location to parallel existing ROW, and the impacted area is along the northern margin of the wetland.
Stream	UNT to Huntington Creek	WW-T03-16003C	13.90	HQ-CWF, MF	Perennial	Wild Trout Waters	R3	LOD has been reduced to 80' to minimize impacts to WW-T03-16003C.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Stream	UNT to Huntington Creek	WW-T03-16004	13.93	HQ-CWF, MF	Intermittent	Wild Trout Waters	R4	The LOD has been modified to eliminate impacts to WW-T03-16004.	This feature is no longer impacted based on LOD reductions.
Wetland	N/A	W-T03-16004	13.94	EV	N/A	N/A	PEM	W-T03-16004 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. In addition, an LOD reduction at this location would only be possible in the adjacent upland area and would not result in minimization of wetland impacts.	The pipeline was routed in this location to parallel existing ROW, and the impacted area is along the northern margin of the wetland.
Wetland	N/A	W-T03-16003	14.11	None	N/A	N/A	PEM	W-T03-16003 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. In addition, an LOD reduction at this location would only be possible in the adjacent upland area and would not result in minimization of wetland impacts.	The pipeline was routed in this location to parallel existing ROW, and the impacted area is along the northern margin of the wetland.
Stream	UNT to Huntington Creek	WW-T03-16003F	14.44	HQ-CWF, MF	Perennial	Class A Wild Trout Waters; Wild Trout Waters	R3	The LOD has been modified to eliminate impacts to WW-T03-16003F.	This feature is no longer impacted based on LOD reductions.
Stream	UNT to Huntington Creek (WW-T65-16001)	WW-T65-16001	14.44	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	LOD has been reduced to 80' to minimize impacts to WW-T65-16001.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Stream	Huntington Creek (WW-T03-16003B)	WW-T03-16003B	14.45	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	LOD has been reduced to 80' to minimize impacts to WW-T03-16003B.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Stream	UNT to Huntington Creek	WW-T03-16003	14.48	HQ-CWF, MF	Ephemeral	Class A Wild Trout Waters	R6	LOD has been reduced to 80' to minimize impacts to WW-T03-16003.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Stream	UNT to Huntington Creek	WW-T03-16002A	14.95	HQ-CWF, MF	Intermittent	Wild Trout Waters	R4	LOD has been reduced to 80' to minimize impacts to WW-T03-16003A.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.

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Wetland	N/A	W-T03-16002A / W-T03-16002A-1 / W-T03-16002A-2 W-T03-16002B W-T03-16002B-1	14.97	EV	N/A	N/A	PEM, PSS	LOD has been reduced to 75' for the portion of W-T03-16002 that crosses the full width of the LOD. Additional LOD reduction for the portion of the wetland encroaching on the southern end of the LOD would only be possible in the adjacent upland area and would not result in additional minimization of wetland impacts.	The pipeline was routed in this location to parallel existing ROW and to avoid paralleling stream WW-T03-16002. An alternative alignment to avoiding this wetland complex would either break collocation or cause parallel impacts to WW-T03-16002.
Stream	UNT to Huntington Creek	WW-T03-16002	15.02	HQ-CWF, MF	Ephemeral	Wild Trout Waters	R6	LOD has been reduced to 80' to minimize impacts to WW-T03-16002.	The pipeline was routed in this location to parallel existing ROW. The stream is crossed at a slightly oblique angle. Correcting this crossing angle would require a break in collocation and cause increased habitat fragmentation and forest clearing, and was therefore not adopted.
Stream	Fades Creek	WW-T03-16001	15.78	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	LOD has been reduced to 75' to minimize impacts to WW-T03-16001.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Wetland	N/A	W-T03-16001	15.79	EV	N/A	N/A	PEM	LOD has been reduced to 75' to minimize impacts to W-T03-16001.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this wetland.
Stream	Pikes Creek	WW-T03-17008	16.59	HQ-CWF, MF	Perennial	Class A Wild Trout Waters	R3	LOD reduction not possible at this crossing (per justification provided for wetland W-T03-17012 crossing).	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this wetland.
Wetland	N/A	W-T03-17012	16.60	EV	N/A	N/A	PEM	LOD reduction to 75' was not possible in order to accommodate spoils resulting from the installation of a bore pit associated with the nearby HWY 29 crossing. HWY 29 and adjacent stream (WW-T03-17008) will be crossed utilizing a bore method. The full LOD is needed to provide access for equipment to enter the workspace to execute the bore.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this wetland.
Wetland	N/A	W-T03-17011	16.64	EV	N/A	N/A	PEM	LOD has been reduced to 75' to minimize impacts to W-T03-17001.	The pipeline was routed in this location to parallel existing ROW, and the impacted area is along the southern margin of the wetland.
Stream	UNT to Pikes Creek	WW-T03-17007	16.65	HQ-CWF, MF	Ephemeral	Class A Wild Trout Waters	R6	LOD has been reduced to 75' to minimize impacts to WW-T03-17007.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Wetland	N/A	W-T03-17010/ WB-T03-17002 (pond)	17.20	EV	N/A	N/A	PEM, PUB	W-T03-17010 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction.	The pipeline was routed in this location to parallel existing ROW, and the impacted area is along the northern margin of the wetland. The ponded portion of this wetland is unavoidable as it falls within the existing ROW.
Stream	UNT to Paint Spring Run	WW-T03-17006	17.20	HQ-CWF, MF	Perennial	Wild Trout Waters	R3	LOD reduction not possible following the significant PI and due to adjacent wetland.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.

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Stream	Paint Spring Run	WW-T03-17005	17.61	HQ-CWF, MF	Perennial	Wild Trout Waters	R3	LOD has been reduced to 75' to minimize impacts to WW-T03-17005.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Wetland	N/A	W-T03-17009-1	17.62	EV	N/A	N/A	PEM	LOD has been reduced to 75' to minimize impacts to W-T03-17009-1.	The pipeline was routed in this location to parallel existing ROW, and the impacted area is along the southern margin of the wetland.
Wetland	N/A	W-T03-17008A/ W-T03-17008C	18.08	EV	N/A	N/A	PEM, PFO	LOD reduction to 75' was not possible due to the adjacent stream crossing (WW T03-17004). The stream will be crossed using a dam and pump method within a very saturated surrounding wetland. The additional workspace will aid in safe construction activities within this area and provide storage for spoil within the wetland. Without the additional workspace, the spoil from the large wetland complex will have to be transported to an upland area, which may result in greater impacts to the wetlands.	
Stream	Harveys Creek (WW-T03-17004)	WW-T03-17004	18.10	HQ-CWF, MF	Perennial	Approved Trout Waters; Wild Trout Waters	R3	LOD has been reduced to 75' to minimize impacts to WW-T03-17004.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.
Wetland	N/A	W-T03-17007A/ W-T03-17007C	18.78	EV	N/A	N/A	PEM, PFO	LOD has been reduced to 75' for the portion of W-T03-16002 that crosses the full width of the LOD. Additional LOD reduction for the portion of the wetland encroaching on the southern end of the LOD would only be possible in the adjacent upland area and would not result in additional minimization of wetland impacts.	The pipeline was routed in this location to parallel existing ROW, and the impacted area is along the northern margin of the wetland.
Stream	UNT to Harveys Creek (WW-T03-17003)	WW-T03-17003	18.78	HQ-CWF, MF	Perennial	Wild Trout Waters	R3	LOD has been reduced to 75' to minimize impacts to WW-T03-17003.	The pipeline was routed in this location to parallel existing ROW. Although this crossing occurs at an oblique angle, a route change was not considered in order to maintain collocation.
Wetland	N/A	W-T03-17006	19.06	None	N/A	N/A		W-T03-17006 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. In addition, an LOD reduction at this location would only be possible in the adjacent upland area and would not result in minimization of wetland impacts.	The pipeline was routed in this location to parallel existing ROW, and the impacted area is along the northern margin of the wetland.
Stream	UNT to Harveys Creek	WW-T03-17001	19.39	HQ-CWF, MF	Perennial	Wild Trout Waters	R3	LOD has been reduced to 80' to minimize impacts to WW-T03-17001.	The pipeline was routed in this location to parallel existing ROW and provides a perpendicular crossing of this stream.

Resource Type (Stream or Wetland)	Resource Name	Resource ID	MP	Chapter 93 Classification, Wetland Classification	Stream Type (Perennial, Intermittent, Ephemeral)	Stream Trout Status (Class A Wild Trout, Wild Trout, Trout Stocked)	Wetland (Cowardin Classification)	Limits of Disturbance (LOD) Adjustments (Supporting Information for Technical Deficiencies #25 and #29)	Field Routing Adjustments within 600-foot Wide Corridor (Supporting Information for Technical Deficiency #13)*
Wetland	N/A	W-T03-17005A	19.53	None	N/A	N/A	PEM	W-T03-17005 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. In addition, an LOD reduction at this location would only be possible in the adjacent upland area and would not result in minimization of wetland impacts.	The pipeline was routed in this location to parallel existing ROW, and the impacted area is along the northern margin of the wetland.
Stream	UNT to Harveys Creek	WW-T03-17002	19.81	HQ-CWF, MF	Intermittent	Wild Trout Waters	R4	LOD has been reduced to 80° to minimize impacts to WW-103-17002.	This crossing was adjusted during field routing to crossover the existing pipeline at MP 19.6 to collocate on the south side of the existing ROW. The crossover and southern collocation does not improve the crossing angle of this stream (which occurs at an oblique angle along either alignment), but the realignment reduces impacts to the adjacent wetland (W-T05-17001) and stream system overall. In addition, this crossover entirely avoids a system of seeps feeding the stream - WB-T05-17001; WB-T49-17002; WB-T49-17003; and WB-T49-17004. This is a large system that cannot be avoided without adding significant distance/disturbance and habitat fragmentation to the route.
Stream	UNT to Harveys Creek	WW-T03-17002A	19.82	HQ-CWF, MF	Perennial	Wild Trout Waters	R3	LOD has been reduced to 80' to minimize impacts to WW-T03-17002A.	Refer to notes for WW-T03-17002.
Stream	UNT to Harveys Creek	WW-T03-17002B	19.84	HQ-CWF, MF	Perennial	Wild Trout Waters	R3	LOD has been reduced to 75' to minimize impacts to WW-T03-17002B.	Refer to notes for WW-T03-17002.
Wetland	W-T05-17001A	W-T05-17001A/ W-T05-17001B	19.86	EV	N/A	N/A	PEM, PSS	encroaching on the northern end of the LOD would only be possible in the adjacent upland area and would not result in additional minimization of	This crossing was adjusted during field routing to crossover the existing pipeline to collocate on the south side of the existing ROW. The crossover and southern collocation reduces impacts to this wetland by crossing along its southern margin. This is a large system that cannot be avoided without adding significant distance/disturbance and habitat fragmentation to the route.
Stream	UNT to Harveys Creek (WW-T49-17003)	WW-T49-17003	19.93	HQ-CWF, MF	Perennial	Wild Trout Waters	R3	LOD has been reduced to 80° to minimize impacts to WW-149-17003.	This crossing was adjusted during field routing to crossover the existing pipeline at MP 19.6 to collocate on the south side of the existing ROW. The crossover and southern collocation improves this stream crossing by eliminating parallel impacts along 100' of the stream reach and avoiding a 60' wide ponded area.

Resource Type (Stream or Wetland)	Resource Name	Resource ID	МР	Chapter 93 Classification, Wetland Classification	Stream Type (Perennial, Intermittent, Ephemeral)	Stream Trout Status (Class A Wild Trout, Wild Trout, Trout Stocked)	Wetland (Cowardin Classification)	Limits of Disturbance (LOD) Adjustments (Supporting Information for Technical Deficiencies #25 and #29)	Field Routing Adjustments within 600-foot Wide Corridor (Supporting Information for Technical Deficiency #13)*
Wetland	N/A	W-T03-17003	20.99	None	N/A	N/A	PEM	W-T03-17003 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. In addition, an LOD reduction at this location would only be possible in the adjacent upland area and would not result in minimization of wetland impacts.	The pipeline was routed in this location to parallel existing ROW, and the impacted area is along the southern margin of the wetland.
Wetland	N/A	W-T03-17001	21.18	None	N/A	N/A	PEM	W-T03-17001 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. In addition, an LOD reduction at this location would only be possible in the adjacent upland area and would not result in minimization of wetland impacts.	This crossing was adjusted during field routing to crossover the existing pipeline at MP 19.6 to collocate on the south side of the existing ROW. The realignment increases the impact to this wetland; however, this impact is negligible compared to the overall reduction in impacts to wetland systems between MP 19.6 and 21.15. This is a small PEM entirely contained within the existing pipeline ROW. W-T03-17002 in this area is avoided entirely by the crossover.
Stream	UNT to Huntsville Creek	WW-T33-17001	21.25	CWF, MF	Intermittent	None	R4	The standard LOD for access road crossings is needed at this location.	No field routing adjustments are practicable for stream crossings of existing access roads.
Stream	UNT to Huntsville Creek	WW-T93-17001	21.38	CWF, MF	Perennial	Wild Trout Waters	I 83	LOD reduction not possible at this crossing (per justification provided for wetland W-T07-17001 crossing)	The original alignment crossed this stream 250' northwest of the current location. This crossing location was not amenable to the landowner as the original alignment was close to a residence. The route was adjusted here to provide the best possible stream crossing while minimizing impacts to the residence. There is little difference in the stream crossing from the original alignment to the current. Both alignments would cross this stream at a roughly perpendicular angle in similar locations.
Stream	UNT to Huntsville Creek	WW-T93-16001	21.39	CWF, MF	Perennial	Wild Trout Waters	I 83	LOD reduction not possible at this crossing (per justification provided for wetland W-T07-17001 crossing)	The original alignment crossed this stream 250' northwest of the current location. This crossing location was not amenable to the landowner as the original alignment was close to a residence. The route was adjusted here to provide the best possible stream crossing while minimizing impacts to the residence. There is little difference in the stream crossing from the original alignment to the current. Both alignments would cross this stream at a roughly perpendicular angle in similar locations.

Resource Type (Stream or Wetland)	Resource Name	Resource ID	MP	Chapter 93 Classification, Wetland Classification	Stream Type (Perennial, Intermittent, Ephemeral)	Stream Trout Status (Class A Wild Trout, Wild Trout, Trout Stocked)	Wetland (Cowardin Classification)	Limits of Disturbance (LOD) Adjustments (Supporting Information for Technical Deficiencies #25 and #29)	Field Routing Adjustments within 600-foot Wide Corridor (Supporting Information for Technical Deficiency #13)*
Wetland	N/A	W-T07-17001	21.45	EV	N/A	N/A	PFO	LOD reduction to 75' was not possible due to the saturated nature of the wetland complex, unconsolidated soils in area, and adjacent streams. The additional workspace will provide storage for spoil within the wetland and will result in less impact than transporting material to a stockpile area outside the wetland.	The original alignment crossed this wetland 250' northwest of the current location at a narrower portion of the wetland near its northern margin. This crossing location was not amenable to the landowner as the original alignment was close to a residence. The route was adjusted here to provide the best possible wetland crossing while minimizing impacts to the residence. The wetland is also crossed at a roughly 90 degree angle. In addition, stream WW-T07-17001 is avoided entirely by this alignment.
Wetland	N/A	W-T49-17001	21.74	None	N/A	N/A	PEM	LOD reduction not possible at this crossing in order to safely enter and exit onto public road from ROW.	The pipeline was routed in this location to cross the wetland at a perpendicular angle along its southern margin and at its narrowest point.
Wetland	N/A	W-T49-17002	21.79	EV	N/A	N/A	PEM	LOD has been modified to eliminate impacts to W-T49-17002	This feature is no longer impacted based on LOD reductions.
Stream	UNT to Huntsville Creek (WW-T49-17001)	WW-T49-17001	21.80	CWF, MF	Perennial	Wild Trout Waters	R3	LOD has been reduced to 80' to minimize impacts to WW-T49-17001.	The pipeline was routed in this location to provide a perpendicular crossing of this stream. Note that the pipeline was specifically routed in this area from MP 21.8 to 22.0 to entirely avoid a large wetland and stream system located east of the current LOD (W-T07-17002 and WW-T07-17002).
Stream	UNT to Huntsville Creek (WW-T51-17001)	WW-T51-17001	22.06	CWF, MF	Ephemeral	Wild Trout Waters	R6	LOD has been reduced to 85' to minimize impacts to WW-T51-17001.	This crossing was not significantly changed during field routing. The pipeline only clips this feature, crossing the stream at its origin in an area where it is poorly defined.
Wetland	N/A	W-T07-17003A/ W-T07-17003B-1/ W-T07-17003C / W-T07-17003C-1 / W-T07-17003C-2	22.08	EV	N/A	N/A	PEM, PSS, PFO	LOD has been reduced to 75' for the portions of W-T07-17003 that crosses the full width of the LOD. Additional LOD reduction for the portion of the wetland complex encroaching on portions of the LOD would only be possible in the adjacent upland area and would not result in additional minimization of wetland impacts.	This crossing was adjusted during field routing to avid an RV sales lot and several residences both east and west of the LOD. Impacts to the wetland complex were minimized by crossing the margins of the wetland wherever possible, and crossing all portions of the wetland at 90 degree angles.
Stream	UNT to Huntsville Creek	WW-T52-17002	22.10	CWF, MF	Intermittent	Wild Trout Waters	R4	LOD has been reduced to 85' to minimize impacts to WW-T51-17002.	This crossing was not significantly changed during field routing. Avoidance of this crossing was not possible due to several residences located immediately east and west of the LOD.
Stream	UNT to Huntsville Creek	WW-T52-17001	22.15	CWF, MF	Intermittent	Wild Trout Waters	R4	LOD has been reduced to 75' to minimize impacts to WW-T51-17001.	This crossing was not significantly changed during field routing. Avoidance of this crossing was not possible due to several residences located immediately east and west of the LOD.

Resource Type (Stream or Wetland)	Resource Name	Resource ID	MP	Chapter 93 Classification, Wetland Classification	Stream Type (Perennial, Intermittent, Ephemeral)	Stream Trout Status (Class A Wild Trout, Wild Trout, Trout Stocked)	Wetland (Cowardin Classification)	Limits of Disturbance (LOD) Adjustments (Supporting Information for Technical Deficiencies #25 and #29)	Field Routing Adjustments within 600-foot Wide Corridor (Supporting Information for Technical Deficiency #13)*
Stream	UNT to Huntsville Creek (WW-T07-17002C)	WW-T07-17002C	MOC-0060 0.15	CWF, MF	Intermittent	Wild Trout Waters	R4	LOD has been reduced to 75' to minimize impacts to WW-T07-17002C.	This crossing was not significantly changed during field routing. Avoidance of this crossing was not possible due to several residences located immediately east and west of the LOD.
Stream	UNT to Huntsville Creek (WW-T08-17001)	WW-T08-17001	MOC 0060 0.41	CWF, MF	Intermittent	Wild Trout Waters	R4	LOD has been reduced to 80' to minimize impacts to WW-T08-17001.	The alignment in this area was changed during field routing to place the pipeline at the western edge of parcels LU-217.000 and LU-222.000 in response to landwoner request and to avoid a large NWI and NHD wetland and stream system. The change improves this stream crossing by crossing at a perpendicular angle west of a small meander in the channel. The realignment in this area also avoids wetland W-T08-17001 entirely.
Wetland	N/A	W-T51-17001C	M-0060 0.48	None	N/A	N/A	PFO	LOD has been reduced to 75' to minimize impacts to W-T51-17001C	The alignment in this area was changed during field routing to place the pipeline at the western edge of parcels LU-217.000 and LU-222.000 in response to landowner request and to avoid a large NWI and NHD wetland and stream system. The pipeline was also routed to only impact the eastern portion of the wetland and to cross the wetland at a 90 degree angle.
Stream	UNT to Huntsville Creek (WW-T53-17002)	WW-T53-17002	M-0060 0.87	CWF, MF	Intermittent	Wild Trout Waters	R4	LOD has been reduced to 80' to minimize impacts to WW-T53-17002	The pipeline was routed in this location to provide a perpendicular crossing of this stream.
Stream	UNT to Huntsville Creek	WW-T53-17002A	M-0060 0.87	CWF, MF	Intermittent	Wild Trout Waters	R4	LOD has been modified to eliminate impacts to WW-T53-17002A	This feature is no longer impacted based on LOD reductions.
Stream	UNT to Huntsville Creek (WW-T53-17003)	WW-T53-17003	M-0060 0.89	CWF, MF	Perennial	Wild Trout Waters	R3	LOD has been reduced to 80' to minimize impacts to W-T53-17003.	The pipeline was routed in this location to provide a perpendicular crossing of this stream.
Stream	UNT to Huntsville Creek (WW-T53-17003B)	WW-T53-17003B	M-0060 0.90	CWF, MF	Intermittent	Wild Trout Waters	R4	LOD has been reduced to 80' to minimize impacts to W-T53-17003B.	The pipeline was routed in this location to provide a perpendicular crossing of this stream.
Stream	UNT to Huntsville Creek	WW-T53-17003A	M-0060 0.91	CWF, MF	Intermittent	Wild Trout Waters	R4	LOD has been modified to eliminate impacts to WW-T53-17003A	This feature is no longer impacted based on LOD reductions.
Stream	UNT to Huntsville Creek (WW-T53-17004)	WW-T53-17004	M-0060 0.94	CWF, MF	Intermittent	Wild Trout Waters	R4	LOD has been reduced to 85' to minimize impacts to WW-T53-17004.	The pipeline was routed in this location to provide a perpendicular crossing of this stream.
Stream	UNT to Huntsville Creek (WW-T90-17002)	WW-T90-17002	MOC-0060 0.98	CWF, MF	Intermittent	Wild Trout Waters	R4	LOD has been reduced to 85' to minimize impacts to WW-T90-17002.	The pipeline was routed in this location to provide a perpendicular crossing of this stream.

Resource Type (Stream or Wetland)	Resource Name	Resource ID	MP	Chapter 93 Classification, Wetland Classification	Stream Type (Perennial, Intermittent, Ephemeral)	Stream Trout Status (Class A Wild Trout, Wild Trout, Trout Stocked)	Wetland (Cowardin Classification)	Limits of Disturbance (LOD) Adjustments (Supporting Information for Technical Deficiencies #25 and #29)	Field Routing Adjustments within 600-foot Wide Corridor (Supporting Information for Technical Deficiency #13)*
Wetland	N/A	W-T51-17002	M-0060 0.99	EV	N/A	N/A	PFO	W-T51-17002 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. In addition, an LOD reduction at this location would only be possible in the adjacent upland area and would not result in minimization of wetland impacts.	The pipeline was routed in this location to only impact the southern margin of the wetland.
Wetland	N/A	W-T07-17005	24.39	None	N/A	N/A	PEM	LOD has been modified to eliminate impacts to WW-T07-17005	This feature is no longer impacted based on LOD reductions.
Wetland	N/A	W-T71-18002B-1	M-0150-0.5	EV	N/A	N/A	PSS	LOD has been reduced to 75' to minimize impacts to W-T71-18002B-1	The pipeline was routed in this location to cross the wetland at a 90 degree angle along its southern margin. The route was also placed in this location to avoid impacting several other nearby wetlands, including W-T71-18002B-2; W-T71-18002A-2; W-T71-18002A-1; W-T71-18001A and W-T71-18001B.
Stream	UNT to Leonard Creek (WW-T07-17004)	WW-T07-17004	M-0141-0.48	HQ-CWF, MF	Perennial	Wild Trout Waters	R3	LOD has been reduced to 80' to minimize impacts to WW-T07-17004.	The pipeline was routed in this location to provide a perpendicular crossing of this stream.
Wetland	N/A	W-T07-17006	25.37	None	N/A	N/A	PEM	LOD has been reduced to 75' to minimize impacts to W-T07-17006.	This crossing was not significantly changed during field routing. The wetland is crossed at a roughly perpendicular angle near its northern margin.
Stream	UNT to Leonard Creek (WW-T17-18001)	WW-T17-18001	25.55	HQ-CWF, MF	Perennial	Wild Trout Waters	N 4	Full ROW width needed at this crossing to complete a safe and efficient road crossing (HWY 309).	This crossing was not significantly changed during field routing. The stream is crossed at a roughly perpendicular angle.
Wetland	N/A	W-T17-18001	25.74	None	N/A	N/A	PEM	LOD has been modified to eliminate impacts to W-T17-18001.	This feature is no longer impacted based on LOD reductions.
Stream	UNT to Leonard Creek (WW-T65-18001)	WW-T65-18001	M-0142 0.26	HQ-CWF, MF	Ephemeral	Wild Trout Waters	R6	An LOD modification is not feasible at this location.	The pipeline route across LU-250.000 and LU-256.000 was changed to move the pipeline to the east to satisfy landowner requests, avoid wetlands and improve a stream crossing angle. During field routing, the angle of this stream crossing was improved to a roughly perpendicular crossing angle roughly 100' west of the original crossing location.

Resource Type (Stream or Wetland)	Resource Name	Resource ID	MP	Chapter 93 Classification, Wetland Classification	Stream Type (Perennial, Intermittent, Ephemeral)	Stream Trout Status (Class A Wild Trout, Wild Trout, Trout Stocked)	Wetland (Cowardin Classification)	Limits of Disturbance (LOD) Adjustments (Supporting Information for Technical Deficiencies #25 and #29)	Field Routing Adjustments within 600-foot Wide Corridor (Supporting Information for Technical Deficiency #13)*
Wetland	N/A	W-T65-18002	M-0142 0.26	EV	N/A	N/A	PFO	require LOD reduction. In addition, an LOD reduction at this location would	The pipeline route across LU-250.000 and LU-256.000 was changed to move the pipeline to the east to satisfy landowner requests, avoid wetlands and improve a stream crossing angle. This is a fringing wetland associated with WW-T65-18001. By improving the crossing angle of the stream to a roughly perpendicular crossing, impacts to this wetland were also reduced.
Wetland	N/A	W-T65-18003	M-0142 0.30	None	N/A	N/A	PEM	LOD has been reduced to 75' for the portion of W-T65-18003 that crosses the full width of the LOD. Additional LOD reduction for the portion of the wetland encroaching on the southern end of the LOD would only be possible in the adjacent upland area and would not result in additional minimization of wetland impacts.	The pipeline was routed in this location to provide a perpendicular crossing of this wetland.
Stream	UNT to Leonard Creek (WW-T61-18001)	WW-T61-18001	26.66	HQ-CWF, MF	Intermittent	Wild Trout Waters	R4	LOD has been reduced to 80' to minimize impacts to WW-T61-18001.	This crossing was not significantly changed during field routing. This stream is crossed at a roughly perpendicular angle.
Wetland	N/A	W-T61-18001	27.06	EV	N/A	N/A	PEM	LOD has been modified to eliminate impacts to W-T61-18001.	This feature is no longer impacted based on LOD reductions.
Wetland	N/A	W-T56-18001C-2 / W-T56-18001C-3 / W-T56-18001C-5 / W-T56-18001C-6 / W-T56-18001C-8	M-0088 1.08	EV	N/A	N/A	PFO	LOD has been reduced to 75' for the W-T56-18001C-2, W-T56-18001C-3, W-T56 18001C-5, and W-T56-18001C-8 crossings. The LOD at W-T56-18001C-6 was not reduced because the workspace is required to complete the adjacent PI.	The pipeline was field routed along the southern margin of this system to avoid wetland interior. The route crosses several fingers leading north to the main body of the wetland, which is avoided as much as possible. The main part of the wetland is crossed at one of its narrowest points along this alignment, occurring just north of a pond which is avoided entirely.
Stream	UNT to Leonard Creek (WW-T56-18002)	WW-T56-18002	M-0088 1.11	HQ-CWF, MF	Ephemeral	Wild Trout Waters			The pipeline was field routed to cross this stream at a roughly perpendicular angle. This stream is part of the W-T56-18001 complex, and the crossing location was selected to avoid crossing the interior of the wetland to the north and to also avoid WW-T56-18001 and WW-T56-18003, which run parallel with the pipeline alignment to the south.

Resource Type (Stream or Wetland)	Resource Name	Resource ID	MP	Chapter 93 Classification, Wetland Classification	Stream Type (Perennial, Intermittent, Ephemeral)	Stream Trout Status (Class A Wild Trout, Wild Trout, Trout Stocked)	Wetland (Cowardin Classification)	Limits of Disturbance (LOD) Adjustments (Supporting Information for Technical Deficiencies #25 and #29)	Field Routing Adjustments within 600-foot Wide Corridor (Supporting Information for Technical Deficiency #13)*
Wetland	N/A	W-T56-18002	M-0088 1.57	None	N/A	N/A		W-T56-18002 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. In addition, an LOD reduction at this location would only be possible in the adjacent upland area and would not result in minimization of wetland impacts.	This is a small emergent wetland situated in an old road. The alignment was not changed to avoid this feature during field routing as adding PIs to avoid this feature would have increased upland forest clearing in the area.
Wetland	N/A	W-T56-18004	M-0088 1.67	None	N/A	N/A	PEM	W-T56-18004 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. In addition, an LOD reduction at this location would only be possible in the adjacent upland area and would not result in minimization of wetland impacts.	The pipeline was field routed to avoid a majority of this wetland. The alignment only clips the eastern boundary of the wetland. Avoiding this wetland entirely would have caused additional forest clearing or additional impacts to W-T56-18003B.
Stream	UNT to Leonard Creek (WW-T56-18004)	WW-T56-18004	M-0088 1.75	HQ-CWF, MF	Intermittent	Wild Trout Waters	R4	LOD has been reduced to 75' to minimize impacts to WW-T56-18004.	The pipeline was field routed to cross this stream at a roughly perpendicular angle. This crossing location is in a much more stable and level area than nearby alternatives. The crossing occurs just west of the main portion of W-T56-18003 and just east of much steeper terrain associated with the stream.
Wetland	N/A	W-T56-18003B	M-0088 1.75	EV	N/A	N/A	PSS	LOD has been modified to eliminate impacts to W-T56-18003B.	This feature is no longer impacted based on LOD reductions.
Wetland	N/A	W-T56-18005	M-0088 1.81	None	N/A	N/A	PEM	W-T56-18005 does not extend across the full width of the LOD. Since the wetland width within the LOD is less than 75', the FERC Procedures do not require LOD reduction. In addition, an LOD reduction at this location would only be possible in the adjacent upland area and would not result in minimization of wetland impacts.	The pipeline was routed to avoid this feature as much as possible, and only the southern margin is clipped by the LOD. The wetland could not be avoided entirely without impacting another landowner (LU-273.000) or causing parallel impacts to a portion of WW-T56-18004.

Note:

^{*}The FERC Alignment Sheets provided in Attachment H-1 show field delineated streams and wetlands within the 300-foot wide environmental survey corridor, and surrounding land use features on an aerial base map.