

Appendix C

Route Segment Calculation Tables

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The following tables summarize the impacts for each route segment. The impact categories are the same categories discussed throughout the CEA. These tables are provided so that the reader can better understand the impacts for any given route segment, segment alternative or route.

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Table 1. Route Segment Calculations

Segment		Land Requirements			Geology					Soils					
		Length		Area		Sinkhole Formation Probability (acres)				Farmland Soils (acres)					
		Segment Length (Ft)	Segment Length (miles)	Acres	Length of pipeline in bedrock less than 5 feet (feet)	High probability	Moderate to high probability	Low to moderate probability	Low probability	Prime farmland	Farmland of statewide importance	Prime farmland if drained	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season	Not prime farmland	Highly Erodible Land (acres)
1P	Permanent ROW	6,239.83	1.2	7.2	0.0	0.0	0.0	0.0	7.2	3.8	2.7	0.0	0.7	0.0	0.0
	Construction Area			14.5		0.0	0.0	0.0	14.5	7.8	5.2	0.0	1.4	0.0	0.0
2P	Permanent ROW	10,121.94	1.9	11.7	0.0	0.0	0.0	0.0	11.7	4.3	5.5	0.7	0.0	1.2	0.0
	Construction Area			23.4		0.0	0.0	0.0	23.4	8.5	11.1	1.4	0.0	2.5	0.0
3P	Permanent ROW	18,316.27	3.5	21.1	503.2	0.0	0.0	13.3	7.8	10.7	2.4	6.7	0.0	1.2	0.0
	Construction Area			42.2		0.0	0.0	26.6	15.6	21.5	4.8	13.5	0.0	2.4	0.0
4P	Permanent ROW	8,109.19	1.5	9.3	1,521.5	0.0	0.0	9.0	0.4	6.5	0.0	2.0	0.0	0.9	0.5
	Construction Area			18.8		0.0	0.0	18.0	0.8	13.0	0.0	3.9	0.0	1.8	1.1
5P	Permanent ROW	10,583.34	2.0	12.2	8,518.8	0.0	0.0	12.2	0.0	9.0	0.2	0.0	0.0	3.0	2.7
	Construction Area			24.5		0.0	0.0	24.5	0.0	18.0	0.4	0.0	0.0	6.1	5.5
6P	Permanent ROW	6,537.58	1.2	7.5	4,645.8	0.0	0.0	7.5	0.0	5.2	0.7	0.0	0.0	1.7	1.7
	Construction Area			15.2		0.0	0.0	15.2	0.0	10.2	1.4	0.0	0.0	3.6	3.6
7P	Permanent ROW	4,003.80	0.8	4.6	3,492.3	0.0	0.0	4.6	0.0	2.6	0.8	0.0	0.0	1.3	1.1
	Construction Area			9.4		0.0	0.0	9.4	0.0	5.1	1.5	0.0	0.0	2.8	2.4
8P	Permanent ROW	5,719.78	1.1	6.6	0.0	0.0	0.0	6.3	0.4	5.5	0.0	0.2	0.0	0.9	0.0
	Construction Area			13.3		0.0	0.0	12.5	0.8	11.1	0.0	0.4	0.0	1.9	0.0
9P	Permanent ROW	4,022.67	0.8	4.7	416.2	0.0	0.0	0.0	4.7	0.5	0.0	4.1	0.0	0.0	0.0
	Construction Area			9.4		0.0	0.0	0.1	9.3	1.1	0.0	8.3	0.0	0.0	0.0
10	Permanent ROW	5,442.95	1.0	6.3	0.0	0.0	0.0	0.0	6.3	4.1	0.2	1.5	0.5	0.0	0.0
	Construction Area			12.7		0.0	0.0	0.0	12.7	8.2	0.5	3.0	1.0	0.0	0.0
11	Permanent ROW	14,485.10	2.7	16.7	0.0	0.0	0.0	12.5	4.1	9.0	3.4	2.9	0.0	1.4	0.0
	Construction Area			33.4		0.0	0.0	25.1	8.3	18.1	6.7	5.8	0.0	2.8	0.0
12	Permanent ROW	6,358.00	1.2	7.3	277.3	0.0	0.0	6.4	1.0	4.9	0.2	0.8	0.0	1.4	0.8
	Construction Area			14.8		0.0	0.0	12.8	2.0	9.8	0.5	1.6	0.0	2.8	1.6
13	Permanent ROW	2,617.77	0.5	3.0	2,122.9	0.0	0.0	3.0	0.0	2.0	0.0	0.4	0.0	0.6	0.6

Segment		Land Requirements			Geology					Soils					
		Length		Area		Sinkhole Formation Probability (acres)				Farmland Soils (acres)					
		Segment Length (Ft)	Segment Length (miles)	Acres	Length of pipeline in bedrock less than 5 feet (feet)	High probability	Moderate to high probability	Low to moderate probability	Low probability	Prime farmland	Farmland of statewide importance	Prime farmland if drained	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season	Not prime farmland	Highly Erodible Land (acres)
	Construction Area			6.2		0.0	0.0	6.2	0.0	4.1	0.0	0.7	0.0	1.4	1.4
14	Permanent ROW	2,767.46	0.5	3.2	2,346.2	0.0	0.0	3.2	0.0	2.5	0.0	0.0	0.0	0.7	0.7
	Construction Area			6.5		0.0	0.0	6.5	0.0	5.0	0.0	0.0	0.0	1.5	1.4
15	Permanent ROW	1,058.70	0.2	1.3	758.7	0.0	0.0	1.3	0.0	0.8	0.0	0.0	0.0	0.4	0.4
	Construction Area			2.6		0.0	0.0	2.6	0.0	1.7	0.0	0.0	0.0	0.9	1.0
16	Permanent ROW	6,867.13	1.3	7.9	3,698.4	1.4	0.0	6.5	0.0	4.3	0.5	1.1	0.0	2.0	2.0
	Construction Area			15.9		2.9	0.0	13.1	0.0	8.7	1.1	2.2	0.0	4.0	4.0
17	Permanent ROW	5,066.34	1.0	5.9	1,380.7	1.8	0.0	4.1	0.0	3.0	0.2	0.0	0.0	2.7	1.9
	Construction Area			11.8		3.7	0.0	8.1	0.0	6.1	0.3	0.0	0.0	5.4	3.8
18	Permanent ROW	2,930.03	0.6	3.4	2,237.6	1.4	0.0	2.0	0.0	1.6	0.1	0.0	0.0	1.6	1.6
	Construction Area			6.9		2.9	0.0	4.0	0.0	3.4	0.2	0.0	0.0	3.3	3.3
19	Permanent ROW	7,158.56	1.4	8.3	6,276.9	3.3	0.0	5.0	0.0	6.3	0.1	0.5	0.0	1.4	1.4
	Construction Area			16.6		6.6	0.0	10.0	0.0	12.7	0.2	1.0	0.0	2.8	2.8
20	Permanent ROW	6,634.23	1.3	7.7	4,546.2	2.9	0.0	4.8	0.0	7.7	0.0	0.0	0.0	0.0	0.0
	Construction Area			15.4		5.8	0.0	9.6	0.0	15.4	0.0	0.0	0.0	0.0	0.0
21	Permanent ROW	1,245.34	0.2	1.5	1,245.4	0.0	0.0	1.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0
	Construction Area			3.0		0.0	0.0	3.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0
22	Permanent ROW	6,604.57	1.3	7.6	5,730.1	0.0	0.0	7.6	0.0	5.2	0.1	0.0	0.0	2.4	1.4
	Construction Area			15.3		0.0	0.0	15.3	0.0	10.4	0.2	0.0	0.0	4.8	3.0
23	Permanent ROW	1,255.97	0.2	1.5	131.6	0.0	0.0	1.5	0.0	0.0	1.0	0.0	0.0	0.5	0.2
	Construction Area			3.1		0.0	0.0	3.1	0.0	0.0	1.9	0.0	0.0	1.1	0.3
24	Permanent ROW	4,246.64	0.8	4.9	2,364.8	0.0	0.0	4.9	0.0	1.4	1.0	0.0	0.4	2.1	1.9
	Construction Area			9.9		0.0	0.0	9.9	0.0	2.9	2.0	0.0	0.9	4.2	3.7
25	Permanent ROW	1,043.69	0.2	1.2	0.0	0.0	0.0	1.2	0.0	0.3	0.0	0.0	0.0	1.0	0.0
	Construction Area			2.6		0.0	0.0	2.6	0.0	0.6	0.0	0.0	0.0	2.0	0.0
26	Permanent ROW	3,933.54	0.7	4.6	1,085.5	0.0	0.0	2.9	1.7	3.1	0.0	0.7	0.0	0.7	0.5

Segment		Land Requirements			Geology					Soils					
		Length		Area		Sinkhole Formation Probability (acres)				Farmland Soils (acres)					
		Segment Length (Ft)	Segment Length (miles)	Acres	Length of pipeline in bedrock less than 5 feet (feet)	High probability	Moderate to high probability	Low to moderate probability	Low probability	Prime farmland	Farmland of statewide importance	Prime farmland if drained	Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season	Not prime farmland	Highly Erodible Land (acres)
	Construction Area			9.2		0.0	0.0	5.7	3.5	6.2	0.0	1.5	0.0	1.5	0.9
27	Permanent ROW	6,060.34	1.1	7.0	0.0	0.0	0.0	3.3	3.7	3.4	0.0	1.9	0.8	0.8	0.0
	Construction Area			14.1		0.0	0.0	6.7	7.4	6.9	0.0	3.9	1.7	1.5	0.0
28	Permanent ROW	5,141.06	1.0	5.9	709.5	0.0	0.0	2.6	3.3	3.2	0.0	1.9	0.0	0.8	0.6
	Construction Area			12.0		0.0	0.0	5.3	6.7	6.4	0.0	3.9	0.0	1.6	1.1
29	Permanent ROW	5,412.42	1.0	6.3	738.2	0.0	0.0	1.2	5.0	4.4	0.0	1.3	0.0	0.5	0.0
	Construction Area			12.6		0.0	0.0	2.4	10.2	8.8	0.0	2.7	0.0	1.1	0.0

Segment		Human Settlement																
		Length of Pipeline by Municipality (miles)					Olmstead County Zoning Districts (acres)							City of Rochester Zoning Districts (acres)				
		Township Cascade	Kalmar Township	Rochester Township	Salem Township	City of Rochester	Agricultural/Resource Commercial District - Aggregate Extraction and Reuse (A/RC AER)	Agricultural Protection District (A-1, A-2)	Agricultural District (A-3)	Agricultural Urban Expansion District (A-4)	Sand and Gravel Mining (AgRM)	Rural Residential District (RA)	Special District (other) (SD)	General Commercial (B-4)	Mixed Commercial-Industrial (M-1)	Mixed Single Family (R-1)	Low Density Residential (R-2)	Medium Density Residential (R-3)
1P	Permanent ROW	0.1	1.1	0.0	0.0	0.0	0.0	6.8	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	13.6	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2P	Permanent ROW	0.0	1.4	0.0	0.5	0.0	0.0	6.3	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	12.6	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3P	Permanent ROW	0.0	0.0	0.0	3.5	0.0	0.1	21.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.1	41.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4P	Permanent ROW	0.0	0.0	0.5	1.0	0.0	0.9	6.4	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						1.8	12.5	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5P	Permanent ROW	0.0	0.0	2.0	0.0	0.0	0.0	12.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	24.1	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
6P	Permanent ROW	0.0	0.0	1.2	0.0	0.0	0.0	6.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	12.1	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7P	Permanent ROW	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	0.0	0.0	8.5	0.0	0.8	0.0	0.0	0.0	0.0	0.1	0.0
8P	Permanent ROW	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.1	0.6	2.7	0.0
	Construction Area						0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.2	1.1	5.5	0.0
9P	Permanent ROW	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.2	0.0	0.0	0.0	3.6	0.7	0.0	0.0	0.0
	Construction Area						0.0	0.0	0.0	0.5	0.0	0.0	0.0	7.2	1.5	0.0	0.0	0.0
10	Permanent ROW	0.0	1.0	0.0	0.0	0.0	0.0	6.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	12.1	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	Permanent ROW	0.0	0.0	0.0	2.7	0.0	0.1	16.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.1	33.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Segment		Human Settlement																
		Length of Pipeline by Municipality (miles)					Olmstead County Zoning Districts (acres)							City of Rochester Zoning Districts (acres)				
		Township Cascade	Kalmar Township	Rochester Township	Salem Township	City of Rochester	Agricultural/Resource Commercial District - Aggregate Extraction and Reuse (A/RC AER)	Agricultural Protection District (A-1, A-2)	Agricultural District (A-3)	Agricultural Urban Expansion District (A-4)	Sand and Gravel Mining (AgRM)	Rural Residential District (RA)	Special District (other) (SD)	General Commercial (B-4)	Mixed Commercial-Industrial (M-1)	Mixed Single Family (R-1)	Low Density Residential (R-2)	Medium Density Residential (R-3)
12	Permanent ROW	0.0	0.0	1.2	0.0	0.0	0.1	2.9	3.9	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.2	5.9	7.8	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0
13	Permanent ROW	0.0	0.0	0.5	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	Permanent ROW	0.0	0.0	0.5	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	Permanent ROW	0.0	0.0	0.2	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	Permanent ROW	0.0	0.0	1.3	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	Permanent ROW	0.0	0.0	1.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	Permanent ROW	0.0	0.0	0.6	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	Permanent ROW	0.0	0.0	1.3	0.0	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
20	Permanent ROW	0.0	0.0	1.2	0.0	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
21	Permanent ROW	0.0	0.0	0.2	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
22	Permanent ROW	0.0	0.0	0.2	0.0	1.1	0.0	4.7	0.0	0.6	0.0	0.4	0.0	0.0	0.0	1.8	0.0	0.0
	Construction Area						0.0	7.8	0.0	1.1	0.0	0.7	0.0	0.0	0.0	5.6	0.0	0.0

Segment		Human Settlement																
		Length of Pipeline by Municipality (miles)					Olmstead County Zoning Districts (acres)							City of Rochester Zoning Districts (acres)				
		Township Cascade	Kalmar Township	Rochester Township	Salem Township	City of Rochester	Agricultural/Resource Commercial District - Aggregate Extraction and Reuse (A/RC AER)	Agricultural Protection District (A-1, A-2)	Agricultural District (A-3)	Agricultural Urban Expansion District (A-4)	Sand and Gravel Mining (AgRM)	Rural Residential District (RA)	Special District (other) (SD)	General Commercial (B-4)	Mixed Commercial-Industrial (M-1)	Mixed Single Family (R-1)	Low Density Residential (R-2)	Medium Density Residential (R-3)
23	Permanent ROW	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Construction Area						0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
24	Permanent ROW	0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	1.2	0.1	0.0
	Construction Area						0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	3.4	0.3	0.0
25	Permanent ROW	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0
	Construction Area						0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0
26	Permanent ROW	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	1.5	0.4	0.0
	Construction Area						0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	5.3	3.0	0.8	0.0
27	Permanent ROW	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.9	0.0	1.3	0.0
	Construction Area						0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.8	0.1	2.6	0.0
28	Permanent ROW	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	1.3	0.0
	Construction Area						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	0.0	2.6	0.0
29	Permanent ROW	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	2.5	0.0	2.4	1.1
	Construction Area						0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.1	5.0	0.0	4.4	1.7

Human Settlement																					
Segment		Buildings Within ROW				Buildings Within 50 Feet				Buildings Within 100 Feet				Buildings Within 200 Feet				Existing Road ROW	Existing Pipeline ROW	Existing Electrical Distribution Line ROW	Length of pipeline not parallel to existing ROWs
		Agricultural	Commercial	Residence	Other	Agricultural	Commercial	Residence	Other	Agricultural	Commercial	Residence	Other	Agricultural	Commercial	Residence	Other				
1P	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	6,239.8	0.0	0.0	0.0
	Construction Area	0	0	0	0	0	0	0	0	0	0	1	0	2	0	4	0				
2P	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	5,181.5	0.0	3,387.9	1,552.6
	Construction Area	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0				
3P	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5	0	15,825.3	0.0	0.0	2,491.0
	Construction Area	0	0	0	0	0	0	0	0	1	0	1	0	2	0	5	0				
4P	Permanent ROW	1	1	0	0	2	1	0	0	3	1	1	0	6	2	4	0	8,109.2	0.0	0.0	0.0
	Construction Area	1	1	0	0	2	1	1	0	5	1	1	0	7	2	4	0				
5P	Permanent ROW	0	0	0	0	2	0	0	0	3	0	0	0	11	0	8	1	10,583.3	0.0	0.0	0.0
	Construction Area	2	0	0	0	3	0	0	0	4	0	3	1	12	1	9	1				
6P	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	6,537.6
	Construction Area	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
7P	Permanent ROW	1	0	0	0	1	0	0	0	1	0	1	0	1	0	3	0	0.0	0.0	0.0	4,003.8
	Construction Area	1	0	0	0	1	0	0	0	1	0	1	0	3	0	2	0				
8P	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5,719.8	0.0	0.0	0.0
	Construction Area	0	0	0	0	0	0	0	0	0	0	0	0	1	2	3	0				
9P	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,635.2	0.0	0.0	1,387.5
	Construction Area	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0				
10	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	5,443.0	0.0	0.0
	Construction Area	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0				
11	Permanent ROW	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	1,636.9	12,848.2	0.0	0.0
	Construction Area	0	0	0	0	1	0	0	0	1	0	1	0	1	0	2	0				
12	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0.0	5,710.2	0.0	647.8
	Construction Area	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0				

Human Settlement																					
Segment		Buildings Within ROW				Buildings Within 50 Feet				Buildings Within 100 Feet				Buildings Within 200 Feet				Existing Road ROW	Existing Pipeline ROW	Existing Electrical Distribution Line ROW	Length of pipeline not parallel to existing ROWs
		Agricultural	Commercial	Residence	Other	Agricultural	Commercial	Residence	Other	Agricultural	Commercial	Residence	Other	Agricultural	Commercial	Residence	Other				
13	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2,617.8	0.0	0.0	0.0
	Construction Area	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0				
14	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0.0	2,767.5	0.0	0.0
	Construction Area	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0				
15	Permanent ROW	0	0	0	0	0	0	0	0	0	0	1	0	1	0	8	0	0.0	0.0	0.0	1,058.7
	Construction Area	0	0	0	0	0	0	0	0	0	0	1	0	2	0	11	0				
16	Permanent ROW	0	0	0	0	0	0	0	0	2	0	0	0	3	1	3	0	0.0	0.0	0.0	6,867.1
	Construction Area	0	0	0	0	2	0	0	0	2	1	0	0	3	2	4	0				
17	Permanent ROW	0	0	0	0	0	0	0	0	1	0	0	0	2	0	2	0	5,066.3	0.0	0.0	0.0
	Construction Area	0	0	0	0	0	0	0	0	1	0	2	0	3	0	3	0				
18	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0.0	2,930.0	0.0	0.0
	Construction Area	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0				
19	Permanent ROW	0	0	0	0	0	0	0	0	0	0	4	0	1	0	7	0	0.0	0.0	0.0	7,158.6
	Construction Area	0	0	0	0	0	0	0	0	0	0	5	0	5	0	9	0				
20	Permanent ROW	0	0	0	0	0	0	0	0	1	0	2	0	7	0	11	0	6,634.2	0.0	0.0	0.0
	Construction Area	0	0	0	0	1	0	0	0	1	0	9	0	12	0	12	0				
21	Permanent ROW	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	0	1,245.3	0.0	0.0	0.0
	Construction Area	0	0	0	0	0	0	0	0	0	0	1	0	5	0	5	0				
22	Permanent ROW	0	0	0	0	1	0	0	0	3	0	4	0	14	0	25	0	6,604.6	0.0	0.0	0.0
	Construction Area	0	0	0	0	2	0	0	0	4	0	15	0	22	0	32	0				
23	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0.0	0.0	0.0	1,256.0
	Construction Area	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0				
24	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	4,246.6	0.0	0.0	0.0
	Construction Area	0	0	0	0	0	0	0	0	0	0	1	0	0	0	12	0				

Human Settlement																					
Segment		Buildings Within ROW				Buildings Within 50 Feet				Buildings Within 100 Feet				Buildings Within 200 Feet				Existing Road ROW	Existing Pipeline ROW	Existing Electrical Distribution Line ROW	Length of pipeline not parallel to existing ROWs
		Agricultural	Commercial	Residence	Other	Agricultural	Commercial	Residence	Other	Agricultural	Commercial	Residence	Other	Agricultural	Commercial	Residence	Other				
25	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	0	1,043.7	0.0	0.0	0.0
	Construction Area	0	0	0	0	0	0	0	0	1	0	1	0	2	0	3	0				
26	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	3,933.5
	Construction Area	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
27	Permanent ROW	0	0	0	0	0	0	0	0	0	2	0	0	0	3	0	0	6,060.3	0.0	0.0	0.0
	Construction Area	0	0	0	0	0	2	0	0	0	3	0	0	0	3	0	0				
28	Permanent ROW	0	0	0	0	0	0	0	0	0	3	0	0	0	6	0	0	5,141.1	0.0	0.0	0.0
	Construction Area	0	0	0	0	0	3	0	0	0	8	0	0	0	6	0	0				
29	Permanent ROW	0	0	10	0	4	2	16	0	5	2	16	0	8	4	25	0	2,615.8	0.0	0.0	2,796.6
	Construction Area	2	1	15	0	5	2	16	0	5	4	17	0	8	4	25	0				

Segment		Human Settlement																											
		Number of Existing Roads, Railroads, and Pipelines Crossed (# of crossings)																											
		60th Ave NW	19th St NW	NNG Pipeline	14th St NW	DM&E Railroad	Trunk Highway 14	70th Ave SW	County Road 34/ Country Club Rd W	BP Pipeline	10th St SW	20th St SW	County Road 25/ Salem Rd SW	60th Ave SW	40th St SW	55th Ave SW	50th St SW	County Road 8/ Bamber Valley Rd SW	48th St SW	48th St SE/MSAS 155/ CSAH 20	11th Ave SW	U.S. Highway 63/ Broadway Ave	U.S. Highway 63/ Broadway Ave Ramps (1404, 3198, 671, 5756, and 5380)	Wood Lake Dr SE	Commercial Dr SW	Maine Ave SE (Garden Drive/M-1468)	St. Bridget Road SE	45th St SE	Fern Ave SE (MSAS 157)
1P	Permanent ROW	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
2P	Permanent ROW	0	0	1	1	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
3P	Permanent ROW	0	0	0	0	0	0	2	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
4P	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
5P	Permanent ROW	0	0	0	0	0	0	0	0	1	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
6P	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
7P	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
	Construction Area																												
8P	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
9P	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	1	2	0	0	0	0	0
	Construction Area																												
10	Permanent ROW	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
11	Permanent ROW	0	0	0	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												

Segment		Human Settlement																											
		Number of Existing Roads, Railroads, and Pipelines Crossed (# of crossings)																											
		60th Ave NW	19th St NW	NNG Pipeline	14th St NW	DM&E Railroad	Trunk Highway 14	70th Ave SW	County Road 34/ Country Club Rd W	BP Pipeline	10th St SW	20th St SW	County Road 25/ Salem Rd SW	60th Ave SW	40th St SW	55th Ave SW	50th St SW	County Road 8/ Bamber Valley Rd SW	48th St SW	48th St SE/MSAS 155/ CSAH 20	11th Ave SW	U.S. Highway 63/ Broadway Ave	U.S. Highway 63/ Broadway Ave Ramps (1404, 3198, 671, 5756, and 5380)	Wood Lake Dr SE	Commercial Dr SW	Maine Ave SE (Garden Drive/M-1468)	St. Bridget Road SE	45th St SE	Fern Ave SE (MSAS 157)
12	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
13	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
14	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
15	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
16	Permanent ROW	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
17	Permanent ROW	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
18	Permanent ROW	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
19	Permanent ROW	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
20	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
21	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Construction Area																												
22	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Construction Area																												

Segment		Human Settlement																											
		Number of Existing Roads, Railroads, and Pipelines Crossed (# of crossings)																											
		60th Ave NW	19th St NW	NNG Pipeline	14th St NW	DM&E Railroad	Trunk Highway 14	70th Ave SW	County Road 34/ Country Club Rd W	BP Pipeline	10th St SW	20th St SW	County Road 25/ Salem Rd SW	60th Ave SW	40th St SW	55th Ave SW	50th St SW	County Road 8/ Bamber Valley Rd SW	48th St SW	48th St SE/MSAS 155/ CSAH 20	11th Ave SW	U.S. Highway 63/ Broadway Ave	U.S. Highway 63/ Broadway Ave Ramps (1404, 3198, 671, 5756, and 5380)	Wood Lake Dr SE	Commercial Dr SW	Maine Ave SE (Garden Drive/M-1468)	St. Bridget Road SE	45th St SE	Fern Ave SE (MSAS 157)
23	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Construction Area																												
24	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	0	0	0	0	0	0	0	
	Construction Area																												
25	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Construction Area																												
26	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Construction Area																												
27	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	0	1	2	0	0	0	
	Construction Area																												
28	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	2	2	0	0	0	
	Construction Area																												
29	Permanent ROW	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2		
	Construction Area																												

Segment		Water Resources														Vegetation													
		Length of pipeline in Decorah Edge (feet)	Geologic Sensitivity (acres)						Number of PWI Stream Crossings					NWI Wetlands (acres)		MLCCS Landcover Types (acres)													
			Very High	High	High Moderate	Moderate	Low Moderate	Low	Cascade Creek (M-034-071)	Unnamed Creek (M-034-071-002)	Unnamed Creek (M-034-071-002-001)	Willow Creek (M-034-073-001)	Zumbro River (M-034)	Freshwater Emergent Wetland	Freshwater Forested/Shrub Wetland	Agricultural Land	Maintained Tall Grass	Tree Plantation	Forest	Wetland Forest	Shrubland	Wetland Emergent Vegetation	Short Grasses	Tall Grasses	Dry Tall Grasses	Open Water	Impervious Lands		
1P	Permanent ROW	0.0	0.0	0.0	0.0	0.0	4.7	2.5	0	1	0	0	0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.7		
	Construction Area		0.0	0.0	0.0	0.0	9.5	4.9						0.0	0.0	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	4.0		
2P	Permanent ROW	0.0	0.0	0.0	0.0	0.0	1.8	9.8	0	0	1	0	0	0.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.0	0.0	1.1		
	Construction Area		0.0	0.0	0.0	0.0	3.6	19.8						0.0	0.0	14.9	0.0	0.0	0.3	0.0	0.1	0.0	0.0	0.6	3.3	0.0	4.3		
3P	Permanent ROW	11,983.1	0.0	0.6	2.6	11.3	2.4	4.2	1	0	0	0	1	0.4	0.0	12.4	0.0	0.0	0.2	0.0	0.1	0.1	0.0	0.8	5.4	0.1	1.9		
	Construction Area		0.0	1.2	5.1	22.5	4.8	8.5						0.8	0.0	20.6	0.0	0.0	0.4	0.0	0.1	0.3	0.0	1.4	8.8	0.1	10.5		
4P	Permanent ROW	3,677.0	0.3	7.4	0.0	1.7	0.0	0.0	0	0	0	0	0	0.3	0.0	5.4	0.0	0.1	1.3	0.2	0.0	0.0	0.0	0.1	1.0	0.0	1.1		
	Construction Area		0.6	14.8	0.0	3.4	0.0	0.0						0.7	0.0	8.9	0.0	0.1	2.2	0.4	0.0	0.1	0.0	0.2	1.5	0.0	5.4		
5P	Permanent ROW	0.0	8.4	3.3	0.4	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	3.6	0.0	0.0	1.1	0.0	0.0	0.0	0.0	3.5	0.0	0.0	4.0		
	Construction Area		16.9	6.7	0.8	0.0	0.0	0.0						0.0	0.0	6.0	0.0	0.1	1.8	0.0	0.0	0.0	0.0	5.8	0.0	0.0	10.8		
6P	Permanent ROW	0.0	7.1	0.5	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	3.6	0.0	0.0	0.5	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0		
	Construction Area		14.2	1.0	0.0	0.0	0.0	0.0						0.0	0.0	7.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	6.7	0.0	0.0	0.0		
7P	Permanent ROW	463.4	2.9	1.8	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	3.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.1		
	Construction Area		5.8	3.6	0.0	0.0	0.0	0.0						0.0	0.0	6.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0	2.3	0.1	0.0	0.2		
8P	Permanent ROW	4,129.3	0.0	6.0	0.6	0.0	0.0	0.0	0	0	0	1	0	0.2	0.4	2.5	0.2	0.0	2.1	0.0	0.0	0.0	0.0	0.4	0.8	0.0	0.6		
	Construction Area		0.0	12.1	1.3	0.0	0.0	0.0						0.4	0.9	5.0	0.4	0.0	4.1	0.0	0.0	0.0	0.0	0.7	1.3	0.0	1.7		
9P	Permanent ROW	0.0	0.0	4.3	0.0	0.0	0.4	0.0	0	0	0	0	0	1.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.5	0.0	2.0	0.8	0.0	1.2		
	Construction Area		0.0	8.6	0.0	0.0	0.8	0.0						2.6	0.0	0.2	0.3	0.0	0.0	0.0	0.0	0.9	0.0	4.0	1.7	0.0	2.3		
10	Permanent ROW	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0	1	1	0	0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.1		
	Construction Area		0.0	0.0	0.0	0.0	12.6	0.1						0.0	0.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.1	0.4		
11	Permanent ROW	8,235.1	0.0	2.4	4.1	7.0	0.0	3.2	1	0	0	0	1	0.8	0.0	13.2	0.0	0.0	0.7	0.0	0.1	0.0	0.0	1.5	0.3	0.1	0.7		
	Construction Area		0.0	4.8	8.3	13.9	0.0	6.5						1.6	0.0	25.7	0.0	0.0	1.4	0.0	0.3	0.0	0.0	3.1	0.6	0.0	2.3		

Segment		Water Resources														Vegetation													
		Length of pipeline in Decorah Edge (feet)	Geologic Sensitivity (acres)						Number of PWI Stream Crossings					NWI Wetlands (acres)		MLCCS Landcover Types (acres)													
			Very High	High	High Moderate	Moderate	Low Moderate	Low	Cascade Creek (M-034-071)	Unnamed Creek (M-034-071-002)	Unnamed Creek (M-034-071-002-001)	Willow Creek (M-034-073-001)	Zumbro River (M-034)	Freshwater Emergent Wetland	Freshwater Forested/Shrub Wetland	Agricultural Land	Maintained Tall Grass	Tree Plantation	Forest	Wetland Forest	Shrubland	Wetland Emergent Vegetation	Short Grasses	Tall Grasses	Dry Tall Grasses	Open Water	Impervious Lands		
12	Permanent ROW	3,185.6	0.0	4.8	0.0	2.5	0.0	0.0	0	0	0	0	0	0.2	0.0	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.2		
	Construction Area		0.0	9.8	0.0	5.0	0.0	0.0						0.4	0.1	1.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	11.6	0.0	0.4		
13	Permanent ROW	0.0	1.9	0.3	0.9	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	1.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0		
	Construction Area		3.8	0.7	1.8	0.0	0.0	0.0						0.0	0.0	2.8	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.1	0.0	2.4		
14	Permanent ROW	0.0	1.3	0.3	1.6	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	2.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0		
	Construction Area		2.6	0.7	3.2	0.0	0.0	0.0						0.0	0.0	4.6	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.1		
15	Permanent ROW	0.0	1.1	0.0	0.2	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	Construction Area		2.2	0.0	0.4	0.0	0.0	0.0						0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	Permanent ROW	0.0	4.4	0.0	3.6	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	4.4	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.7	1.7	0.0	0.1		
	Construction Area		8.6	0.0	7.4	0.0	0.0	0.0						0.0	0.0	8.3	0.0	0.0	2.7	0.0	0.0	0.0	0.0	1.2	3.4	0.0	0.4		
17	Permanent ROW	2,103.2	0.9	0.4	3.0	1.6	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.0	5.1		
	Construction Area		1.9	0.9	5.9	3.1	0.0	0.0						0.0	0.0	0.8	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.4	1.3	0.0	7.8		
18	Permanent ROW	0.0	2.6	0.0	0.8	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.9	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.5	0.9	0.0	0.1		
	Construction Area		5.3	0.0	1.6	0.0	0.0	0.0						0.0	0.0	1.8	0.0	0.0	2.2	0.0	0.0	0.0	0.0	1.0	1.7	0.0	0.2		
19	Permanent ROW	0.0	6.6	0.0	1.6	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	3.2	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.1	3.1	0.0	0.1		
	Construction Area		13.3	0.0	3.3	0.0	0.0	0.0						0.0	0.0	7.3	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.2	5.6	0.0	0.3		
20	Permanent ROW	0.0	6.0	0.0	1.7	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	3.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	2.1	0.0	1.7		
	Construction Area		12.0	0.0	3.4	0.0	0.0	0.0						0.0	0.0	5.9	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.4	3.5	0.0	5.5		
21	Permanent ROW	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.3		
	Construction Area		3.0	0.0	0.0	0.0	0.0	0.0						0.0	0.0	0.7	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.8	0.0	0.0	1.2		
22	Permanent ROW	0.0	6.0	1.6	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	3.1	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.5	0.0	0.0	1.7		
	Construction Area		12.1	3.3	0.0	0.0	0.0	0.0						0.1	0.0	5.1	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.8	0.0	0.0	5.6		
23	Permanent ROW	0.0	0.9	0.5	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.0	0.0	0.0	0.0		

Segment		Water Resources														Vegetation													
		Length of pipeline in Decorah Edge (feet)	Geologic Sensitivity (acres)						Number of PWI Stream Crossings					NWI Wetlands (acres)		MLCCS Landcover Types (acres)													
			Very High	High	High Moderate	Moderate	Low Moderate	Low	Cascade Creek (M-034-071)	Unnamed Creek (M-034-071-002)	Unnamed Creek (M-034-071-002-001)	Willow Creek (M-034-073-001)	Zumbro River (M-034)	Freshwater Emergent Wetland	Freshwater Forested/Shrub Wetland	Agricultural Land	Maintained Tall Grass	Tree Plantation	Forest	Wetland Forest	Shrubland	Wetland Emergent Vegetation	Short Grasses	Tall Grasses	Dry Tall Grasses	Open Water	Impervious Lands		
	Construction Area		1.9	1.2	0.0	0.0	0.0	0.0						0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.2	0.0	2.1	0.0	0.0	0.0		
24	Permanent ROW	1,652.7	1.8	3.1	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.3	3.7	0.0	0.0	0.3		
	Construction Area		3.6	6.4	0.0	0.0	0.0	0.0						0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.4	0.6	5.9	0.0	0.0	2.3		
25	Permanent ROW	1,043.7	0.0	1.2	0.0	0.0	0.0	0.0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1		
	Construction Area		0.0	2.6	0.0	0.0	0.0	0.0						0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.5	0.0	0.0	0.1	0.0	0.7		
26	Permanent ROW	2,898.1	0.0	3.4	1.2	0.0	0.0	0.0	0	0	0	1	0	0.0	0.1	1.9	1.3	0.0	0.6	0.0	0.0	0.1	0.0	0.1	0.6	0.0	0.0		
	Construction Area		0.0	6.9	2.3	0.0	0.0	0.0						0.0	0.1	3.8	2.7	0.0	1.2	0.0	0.0	0.2	0.0	0.1	1.2	0.0	0.0		
27	Permanent ROW	5,381.3	0.0	2.7	2.7	0.0	0.9	0.6	0	0	0	1	0	0.0	0.1	2.7	0.1	0.2	0.1	0.2	0.0	0.9	0.0	0.3	0.3	0.2	2.0		
	Construction Area		0.0	5.6	5.4	0.0	1.9	1.2						0.0	0.4	5.5	0.2	0.3	0.3	0.6	0.0	1.9	0.0	0.5	0.7	0.3	3.9		
28	Permanent ROW	4,462.0	0.0	2.0	2.4	0.0	0.4	0.6	0	0	0	1	0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.3	1.8	0.0	0.4		
	Construction Area		0.0	4.1	4.8	0.0	1.9	1.2						0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	3.7	0.0	0.9		
29	Permanent ROW	3,115.4	0.0	0.0	0.4	0.8	5.1	0.0	0	0	0	0	0	0.1	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1		
	Construction Area		0.0	0.0	0.7	1.6	10.3	0.0						0.3	0	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	3.9		

Segment		Wildlife						Cultural Resources	
		Wildlife Habitat Types (acres)						Previously Recorded Cultural Resource Sites	
		Upland Forest	Wetland Forest	Scrubland	Grasslands	Emergent wetland	Open Water	Number of Architectural Sites (Construction Area/1 Mile Region of Influence)	Number of GLO Sites (Construction Area/1 Mile Region of Influence)
1P	Permanent ROW	0.0	0.0	0.0	0.2	0.0	0.0		
	Construction Area	0.0	0.0	0.0	0.3	0.0	0.0	0/0	4/38
2P	Permanent ROW	0.0	0.0	0.0	2.2	0.0	0.0		
	Construction Area	0.3	0.0	0.1	3.8	0.0	0.0	0/0	6/56
3P	Permanent ROW	0.2	0.0	0.1	6.3	0.1	0.1		
	Construction Area	0.4	0.0	0.1	10.2	0.3	0.1	0/0	5/81
4P	Permanent ROW	1.4	0.2	0.0	1.1	0.0	0.0		
	Construction Area	2.3	0.4	0.0	1.7	0.1	0.0	0/0	7/59
5P	Permanent ROW	1.1	0.0	0.0	3.5	0.0	0.0		
	Construction Area	1.9	0.0	0.0	5.8	0.0	0.0	0/0	8/82
6P	Permanent ROW	0.5	0.0	0.0	3.5	0.0	0.0		
	Construction Area	1.4	0.0	0.0	6.7	0.0	0.0	0/0	3/85
7P	Permanent ROW	0.1	0.0	0.0	1.1	0.0	0.0		
	Construction Area	0.4	0.0	0.0	2.4	0.0	0.0	0/1	5/57
8P	Permanent ROW	2.1	0.0	0.0	1.4	0.0	0.0		
	Construction Area	4.1	0.0	0.0	2.4	0.0	0.0	0/1	4/62
9P	Permanent ROW	0.0	0.0	0.0	3.0	0.5	0.0		
	Construction Area	0.0	0.0	0.0	6.1	0.9	0.0	0/0	2/56
10	Permanent ROW	0.0	0.0	0.0	0.9	0.0	0.0		
	Construction Area	0.0	0.0	0.0	1.8	0.0	0.1	0/0	3/37
11	Permanent ROW	0.7	0.0	0.1	1.8	0.0	0.1		
	Construction Area	1.4	0.0	0.3	3.7	0.0	0.0	0/0	4/78
12	Permanent ROW	0.6	0.0	0.0	5.9	0.0	0.0		
	Construction Area	1.4	0.0	0.0	11.6	0.0	0.0	0/0	3/52
13	Permanent ROW	0.5	0.0	0.0	0.0	0.0	0.0		
	Construction Area	0.9	0.0	0.0	0.1	0.0	0.0	0/0	8/55
14	Permanent ROW	0.3	0.0	0.0	0.6	0.0	0.0		
	Construction Area	0.7	0.0	0.0	1.2	0.0	0.0	0/0	5/49

Segment		Wildlife						Cultural Resources	
		Wildlife Habitat Types (acres)						Previously Recorded Cultural Resource Sites	
		Upland Forest	Wetland Forest	Scrubland	Grasslands	Emergent wetland	Open Water	Number of Architectural Sites (Construction Area/1 Mile Region of Influence)	Number of GLO Sites (Construction Area/1 Mile Region of Influence)
15	Permanent ROW	1.3	0.0	0.0	0.0	0.0	0.0		
	Construction Area	2.6	0.0	0.0	0.0	0.0	0.0	0/0	3/50
16	Permanent ROW	1.1	0.0	0.0	2.4	0.0	0.0		
	Construction Area	2.7	0.0	0.0	4.6	0.0	0.0	0/0	5/79
17	Permanent ROW	0.1	0.0	0.0	0.6	0.0	0.0		
	Construction Area	1.5	0.0	0.0	1.8	0.0	0.0	0/0	3/66
18	Permanent ROW	1.1	0.0	0.0	1.3	0.0	0.0		
	Construction Area	2.2	0.0	0.0	2.7	0.0	0.0	0/0	0/53
19	Permanent ROW	1.8	0.0	0.0	3.1	0.0	0.0		
	Construction Area	3.3	0.0	0.0	5.8	0.0	0.0	0/0	3/79
20	Permanent ROW	0.1	0.0	0.0	2.3	0.0	0.0		
	Construction Area	0.1	0.0	0.0	3.9	0.0	0.0	0/0	6/83
21	Permanent ROW	0.2	0.0	0.0	0.6	0.0	0.0		
	Construction Area	0.3	0.0	0.0	0.8	0.0	0.0	0/0	2/59
22	Permanent ROW	2.3	0.0	0.0	0.5	0.0	0.0		
	Construction Area	3.8	0.0	0.0	0.8	0.0	0.0	0/0	2/80
23	Permanent ROW	0.0	0.0	0.0	1.0	0.1	0.0		
	Construction Area	0.0	0.0	0.0	2.1	0.2	0.0	0/0	0/49
24	Permanent ROW	0.0	0.0	0.0	4.0	0.2	0.0		
	Construction Area	0.0	0.0	0.0	6.5	0.4	0.0	0/1	2/59
25	Permanent ROW	0.8	0.0	0.0	0.0	0.3	0.0		
	Construction Area	1.3	0.0	0.0	0.1	0.5	0.0	0/1	4/46
26	Permanent ROW	0.6	0.0	0.0	2.0	0.1	0.0		
	Construction Area	1.2	0.0	0.0	4.0	0.2	0.0	0/1	1/54
27	Permanent ROW	0.3	0.2	0.0	0.7	0.9	0.2		
	Construction Area	0.5	0.6	0.0	1.4	1.9	0.3	0/1	0/64
28	Permanent ROW	0.0	0.0	0.0	2.2	0.9	0.0		
	Construction Area	0.0	0.0	0.0	3.7	1.9	0.0	0/1	0/60

Segment		Wildlife						Cultural Resources	
		Wildlife Habitat Types (acres)						Previously Recorded Cultural Resource Sites	
		Upland Forest	Wetland Forest	Scrubland	Grasslands	Emergent wetland	Open Water	Number of Architectural Sites (Construction Area/1 Mile Region of Influence)	Number of GLO Sites (Construction Area/1 Mile Region of Influence)
29	Permanent ROW	0.0	0.0	0.0	0.0	0.0	0.0		
	Construction Area	0.0	0.0	0.0	0.8	0.0	0.0	0/2	2/54