

Table 1-3: Alignment Evaluation Matrix

Alignment Selection Criteria		Weight	Proposed Alignment Ranking ¹					
			Alignment No. 1A		Alignment No. 2A		Alignment No. 3A	
			Score	Weighted Score	Score	Weighted Score	Score	Weighted Score
1	Land and Easement Acquisition	15.0%		0.60		0.60		0.30
	1.1 Land and Easement Acquisition	15.0%	4	0.60	4	0.60	2	0.30
2	Environmental & Archeological Considerations	5.0%		0.50		0.50		0.40
	2.1 Environmental Considerations	5.0%	10	0.50	10	0.50	8	0.40
3	Transportation and Utility Crossings	25.0%		1.43		1.65		1.58
	3.1 Construction Access Points	5.0%	6	0.30	6	0.30	7	0.35
	3.2 ODOT Road Requirements	5.0%	6	0.30	6	0.30	8	0.40
	3.3 City, Gas, Electric, and Franchise Utility Crossings	7.5%	7	0.53	6	0.45	7	0.53
	3.4 Traffic Control	7.5%	4	0.30	8	0.60	4	0.30
4	Engineering	5.0%		0.46		0.47		0.44
	4.1 Sizing and Hydraulic Analysis	1.5%	8	0.12	10	0.15	7	0.11
	4.2 Deep Excavation and Trench Cuts	1.5%	9	0.14	8	0.12	9	0.14
	4.3 Geotechnical Considerations (HDD/Boring and Encasement)	2.0%	10	0.20	10	0.20	10	0.20
5	Capital and Operating Cost	25.0%		1.80		1.80		1.65
	5.1 Capital Cost	15.0%	8	1.20	6	0.90	7	1.05
	5.2 Operation and Maintenance Cost	10.0%	6	0.60	9	0.90	6	0.60
6	Socio-Economic Impacts	25.0%		1.90		2.20		1.55
	6.1 Temporary & Permanent Community Impacts							
	6.1.1 Residential	10.0%	10	1.00	10	1.00	5	0.50
	6.1.2 Commercial/Industrial	15.0%	6	0.90	8	1.20	7	1.05
Total		100.0%		6.68		7.22		5.92

Notes:

1. Ranking is based on a 1-10 scale with 10 being the best choice or least impact.