

**City of Columbia Water and Light  
Option A vs. Option B  
Route Selection Matrix**

			<b>Perche - McBaine 161-kV Option B</b>									
	Public Feedback	Importance Factor	<b>GREEN LINE</b>			<b>RED LINE</b>			<b>RED-ORANGE-GREEN LINE</b>			
	-41,378	Ranking	(See Note)									
<b>Proximity to Residences</b>		<b>12.5%</b>		<b>Count of Instance</b>	<b>Normalizing Factor</b>	<b>Total impact</b>	<b>Count of Instance</b>	<b>Normalizing Factor</b>	<b>Total impact</b>	<b>Count of Instance</b>	<b>Normalizing Factor</b>	<b>Total impact</b>
Houses 0-100			-10	15	200	-3,750	5	200	-1,250	15	200	-3,750
Houses 100-200			-5	94	200	-11,750	44	200	-5,500	81	200	-10,125
Multi-Family 0-100			-10	24	200	-6,000	42	200	-10,500	40	200	-10,000
Multi-Family 100-200			-5	43	200	-5,375	16	200	-2,000	22	200	-2,750
<b>Proximity to Residences TOTALS</b>						<b>-26,875</b>			<b>-19,250</b>			<b>-26,625</b>
<b>Proximity to Day Cares, Schools, Churches, Hospitals, Nursing Homes</b>		<b>11.3%</b>		<b>Lineal feet of instance</b>		<b>Total impact</b>	<b>Lineal feet of instance</b>		<b>Total impact</b>	<b>Lineal feet of instance</b>		<b>Total impact</b>
Day care 0-100			-10	0		0	0		0	0		0
Day Care 100-200			-5	0		0	0		0	0		0
Schools 0-100			-10	0		0	0		0	0		0
Schools 100-200			-5	0		0	0		0	0		0
Churches 0-100			-5	0		0	0		0	0		0
Churches 100-200			-2	0		0	0		0	0		0
Hospitals 0-100			-10	0		0	0		0	0		0
Hospitals 100-200			-5	0		0	0		0	0		0
Nursing homes 0-100			-10	0		0	0		0	0		0
Nursing homes 100-200			-5	0		0	0		0	0		0
<b>Proximity to Schools TOTALS</b>						<b>0</b>			<b>0</b>			<b>0</b>
<b>Proximity to Environmental Concerns</b>		<b>11.8%</b>		<b>Lineal feet of instance</b>		<b>Total impact</b>	<b>Lineal feet of instance</b>		<b>Total impact</b>	<b>Lineal feet of instance</b>		<b>Total impact</b>
Wooded/forested crossed			-10	2336		-2,756	11054		-13,044	0		0
Streams 0-200			-10	200		-236	600		-708	1100		-1,298
Conservation areas crossed			-10	0		0	0		0	0		0
Wetlands crossed			-10	156		-184	2446		-2,886	691		-815
Agricultural property crossed			3	0		0	0		0	0		0
<b>Proximity to Environmental Concerns TOTALS</b>						<b>-3,177</b>			<b>-16,638</b>			<b>-2,113</b>
<b>Proximity to Recreation Areas</b>		<b>11.7%</b>		<b>Lineal feet of instance</b>		<b>Total impact</b>	<b>Lineal feet of instance</b>		<b>Total impact</b>	<b>Lineal feet of instance</b>		<b>Total impact</b>
Parks 0-100			-10	1050		-1,229	424		-496	424		-496
Parks 100-200			-5	1347		-788	424		-248	1058		-619
Trails 0-100			-10	12		-14	12		-14	12		-14
Trails 100-200			-5	0		0	0		0	0		0
Other recreation areas 0-100			-10	0		0	0		0	0		0
Other recreation areas 100-200			-5	0		0	541		-316	541		-316
<b>Proximity to Recreation Areas TOTALS</b>						<b>-2,031</b>			<b>-1,075</b>			<b>-1,446</b>
<b>Proximity to Businesses</b>		<b>8.6%</b>		<b>Count of Instance</b>	<b>Normalizing Factor</b>	<b>Total impact</b>	<b>Count of Instance</b>	<b>Normalizing Factor</b>	<b>Total impact</b>	<b>Count of Instance</b>	<b>Normalizing Factor</b>	<b>Total impact</b>
Commercial structures 0-100			-5	0	500	0	0	500	0	1	500	-215
Commercial structures 100-200			-2	7	500	-602	1	500	-86	4	500	-344
<b>Proximity to Businesses TOTALS</b>						<b>-602</b>			<b>-86</b>			<b>-559</b>
<b>TOTAL LINEAL FEET PUBLIC FEEDBACK IMPACT</b>						<b>-32,684</b>			<b>-37,049</b>			<b>-30,743</b>
<b>AVERAGE LINEAL FEET FEEDBACK IMPACT</b>			-29,611									
<b>COST</b>		12.6%				\$6,526,142			\$8,343,663			\$7,767,692
<b>COST COMPARISON ADJUSTMENT (Highest cost is 1)</b>						0.77			0.98			0.91
<b>COST COMPARISON ADJUSTED APPLIED TO PUBLIC FEEDBACK</b>						0.10			0.12			0.12
<b>COST AS A NEGATIVE PERCENT IMPACT OF TOTAL LINE FEEDBACK.</b>						<b>-2,865</b>			<b>-3,663</b>			<b>-3,411</b>
<b>LINE SCORE INCLUDING ADJUSTED COST COMPARISON</b>						<b>-35,550</b>			<b>-40,712</b>			<b>-34,154</b>
<b>Reliable Electric Service</b>		16.2%										
<b>Longest-Term Solution</b>		15.3%										
<b>TOTAL SCORE INCLUDING RELIABILITY AND LONG-TERM SOLUTION</b>		100.0%				<b>-35,550</b>			<b>-40,712</b>			<b>-34,154</b>

Note: (Importance factors range from -10 to +10, with negative values indicating negative characteristics and positive values indicating positive characteristics.



:V Transmsion Line (Option B)			Mill Creek - Grindstone (Option A)			Mill Creek - Perche (Option A)			Mill Creek - McBaine (Option A)			Summar	
RED LINE			RED LINE			GREEN LINE			GREEN LINE			McBaine-Perche Blue	Mill Creek - Grindstone Yellow
Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact	Total impact	Total impact
0	200	0	0	200	0	34	200	-8,500	31	200	-7,750	-5,500	0
0	200	0	14	200	-1,750	90	200	-11,250	26	200	-3,250	-7,875	0
0	200	0	2	200	-500	27	200	-6,750	1	200	-250	-5,000	0
0	200	0	19	200	-2,375	52	200	-6,500	23	200	-2,875	-4,375	0
		0			-4,625			-33,000			-14,125	-22,750	0
Lineal feet of instance		Total impact	Lineal feet of instance		Total impact	Lineal feet of instance		Total impact	Lineal feet of instance		Total impact	Total impact	Total impact
0		0	0		0	0		0	0		0	0	0
0		0	0		0	200		-118	200		-118	0	0
600		-708	0		0	600		-708	0		0	0	-708
0		0	0		0	0		0	0		0	0	0
0		0	400		-236	0		0	0		0	0	0
0		0	0		0	800		-189	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	0		0	0		0	0	0
0		0	0		0	0		0	0		0	0	0
		-708			-236			-1,015			-118	0	-708
Lineal feet of instance		Total impact	Lineal feet of instance		Total impact	Lineal feet of instance		Total impact	Lineal feet of instance		Total impact	Total impact	Total impact
0		0	0		0	0		0	0		0	-2,008	0
0		0	200		-236	350		-413	150		-177	-1,888	-118
0		0	0		0	0		0	0		0	0	0
100		-118	0		0	158		-186	0		0	-2,074	-118
0		0	0		0	0		0	0		0	5,228	0
		-118			-236			-599			-177	-743	-236
Lineal feet of instance		Total impact	Lineal feet of instance		Total impact	Lineal feet of instance		Total impact	Lineal feet of instance		Total impact	Total impact	Total impact
0		0	0		0	10		-12	10		-12	-496	0
0		0	0		0	0		0	0		0	-248	0
0		0	0		0	0		0	0		0	-42	0
0		0	0		0	0		0	0		0	0	0
0		0	0		0	0		0	0		0	-468	0
0		0	0		0	0		0	0		0	-234	0
		0			0			-12			-12	-1,488	0
Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact	Count of Instance	Normalizing Factor	Total impact	Total impact	Total impact
5	500	-1,075	8	500	-1,720	6	500	-1,290	6	500	-1,290	-215	-860
6	500	-516	19	500	-1,634	16	500	-1,376	7	500	-602	-516	-688
		-1,591			-3,354			-2,666			-1,892	-731	-1548
		-2,417			-8,451			-37,292			-16,324	-25,712	-2492
		\$1,493,798			\$2,454,343			\$5,590,202			\$3,926,391	\$8,497,379	\$1,493,798
		0.18			0.29			0.66			0.46		
		0.02			0.04			0.08			0.06		
		-656			-1,078			-2,455			-1,724		
		-3,073			-9,529			-39,746			-18,048		
					2253			9400			4268	0	0
					2128			8878			4031	0	0
		-3,073			-5,147			-21,469			-9,748		

y (Option B-2)		Summary (Option B)				Summary (Option A)
Mill Creek - Hinckson Red	Combined Total	Perche - McBaine Red-Blue-Green	Mill Creek - Grindstone Yellow	Mill Creek - Hinckson Red	Combined Total	Combined Total
<b>Total impact</b>		<b>Total impact</b>	<b>Total impact</b>	<b>Total impact</b>		
0	-5,500	-4,000	0	0	-4,000	-16,250
0	-7,875	-6,750	0	0	-6,750	-16,250
0	-5,000	-10,000	0	0	-10,000	-7,500
0	-4,375	-2,625	0	0	-2,625	-11,750
0	<b>-22,750</b>	<b>-23,375</b>	0	0	<b>-23,375</b>	<b>-51,750</b>
<b>Total impact</b>		<b>Total impact</b>	<b>Total impact</b>	<b>Total impact</b>		
0	0	0	0	0	0	0
0	0	0	0	0	0	-236
-708	-1,416	0	-708	-708	-1,416	-708
0	0	0	0	0	0	0
0	0	0	0	0	0	-236
0	0	0	0	0	0	-189
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
-708	<b>-1,416</b>	0	<b>-708</b>	<b>-708</b>	<b>-1,416</b>	<b>-1,369</b>
<b>Total impact</b>		<b>Total impact</b>	<b>Total impact</b>	<b>Total impact</b>		
0	-2,008	0	0	0	0	0
0	-2,006	-1,298	-118	0	-1,416	-826
0	0	0	0	0	0	0
-118	-2,310	-231	-118	-118	-467	-186
0	5,228	0	0	0	0	0
-118	<b>-1,097</b>	<b>-1,529</b>	<b>-236</b>	<b>-118</b>	<b>-1,883</b>	<b>-1,012</b>
<b>Total impact</b>		<b>Total impact</b>	<b>Total impact</b>	<b>Total impact</b>		
0	-496	-496	0	0	-496	-23
0	-248	-248	0	0	-248	0
0	-42	-14	0	0	-14	0
0	0	0	0	0	0	0
0	-468	0	0	0	0	0
0	-234	-316	0	0	-316	0
0	<b>-1,488</b>	<b>-1,075</b>	0	0	<b>-1,075</b>	<b>-23</b>
<b>Total impact</b>		<b>Total impact</b>	<b>Total impact</b>	<b>Total impact</b>		
-1075	-2,150	-215	-860	-1,075	-2,150	-4,300
-516	-1,720	-344	-688	-516	-1,548	-3,612
<b>-1591</b>	<b>-3,870</b>	<b>-559</b>	<b>-1,548</b>	<b>-1,591</b>	<b>-3,698</b>	<b>-7,912</b>
<b>-2417</b>	<b>-30,621</b>	<b>-26,538</b>	<b>-2,492</b>	<b>-2,417</b>	<b>-31,447</b>	<b>-62,067</b>
\$1,493,798	\$ 11,484,975.00	\$ 7,084,854.00	\$ 1,493,798.00	\$ 1,493,798.00	\$ 10,072,450.00	\$ 11,970,936.00
	0.96				0.84	1
	0.121				0.106	0.126
	<b>-5,002</b>				<b>-4,387</b>	<b>-5,214</b>
	<b>-35,623</b>				<b>-35,834</b>	<b>-67,280</b>
0	0	0	0	0	0	15,912
0	0	0	0	0	0	15,028
	<b>-35,623</b>				<b>-35,834</b>	<b>-36,341</b>