

APPENDIX A

Communities

Supplemental information collected on communities, population, and distances from the four preliminary corridor alternatives.

- A1. Communities within 50 miles of Preliminary Corridor Alternatives
- A2. - A3. Population within 50 miles of Preliminary Corridor Alternatives
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- A5. - A6. Population within 20 miles of Preliminary Corridor Alternatives
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- A8. Population within 50 miles of Refined Corridor Alternatives
- A9. Population within 20 miles of Refined Corridor Alternatives

Communities within 50 miles of Preliminary Corridor Alternatives

Community	2008 DCCED Population	Straightline Distance Between Community & Corridor (miles)			
		Route 1	Route 2a	Route 2b	Route 3
Alatna	28	7.11	>50	>50	>50
Allakaket	96	9.63	>50	>50	>50
Bettles	22	0.81	>50	>50	>50
Buckland	458	31.94	>50	>50	>50
Candle*	0	44.94	>50	>50	>50
Elim	297	40.86	17.46	17.46	17.46
Evansville	14	1.96	>50	>50	>50
Golovin	160	31.36	22.59	22.59	22.59
Hughes	81	38.13	>50	>50	>50
Huslia	277	34.25	>50	>50	>50
Kobuk	109	36.33	>50	>50	>50
Koyuk	333	22.51	3.2	3.2	3.2
Mary's Igloo*	0	43.93	45.04	45.04	45.04
Shungnak	272	39.06	>50	>50	>50
White Mountain	191	17.37	10.59	10.59	10.59
Telida	3	>50	>50	>50	41.97
Lake Minchumina	17	>50	>50	>50	31.63
Medfra*	0	>50	>50	>50	47.28
Galena	580	>50	6.27	6.27	39.41
Kaltag	188	>50	32.79	32.79	10.16
Nulato	274	>50	7.11	7.11	40.46
Poorman*	0	>50	>50	>50	0.85
Rampart	16	>50	1.53	33.06	44.01
Ruby	160	>50	10.81	10.81	39.51
Shaktoolik	223	>50	33.81	33.81	13.25
Tanana	252	>50	1.77	1.77	28.63
Unalakleet	723	>50	>50	>50	21.94
Koyukuk	88	>50	2.87	2.87	>50

Notes

* Communities with a reported population of 0 not included in tallies.

Distances calculated with GIS software.

The Ratio of Population to Access Road Distance
for Communities within 50 miles of Preliminary Corridor Alternatives

Route 1		
Community	2008 DCCED Population	Straightline Distance
Bettles	22	0.81
Evansville	14	1.96
Alatna	28	7.11
Allakaket	96	9.63
White Mountain	191	17.37
Koyuk	333	22.51
Golovin	160	31.36
Buckland	458	31.94
Huslia	277	34.25
Kobuk	109	36.33
Hughes	81	38.13
Shungnak	272	39.06
Elim	297	40.86
TOTAL	2338	311.32
13 communities w/in 50 mi.	Ratio Pop/Dist =	7.51
Route 1 →7.5 people/mile of access road built		

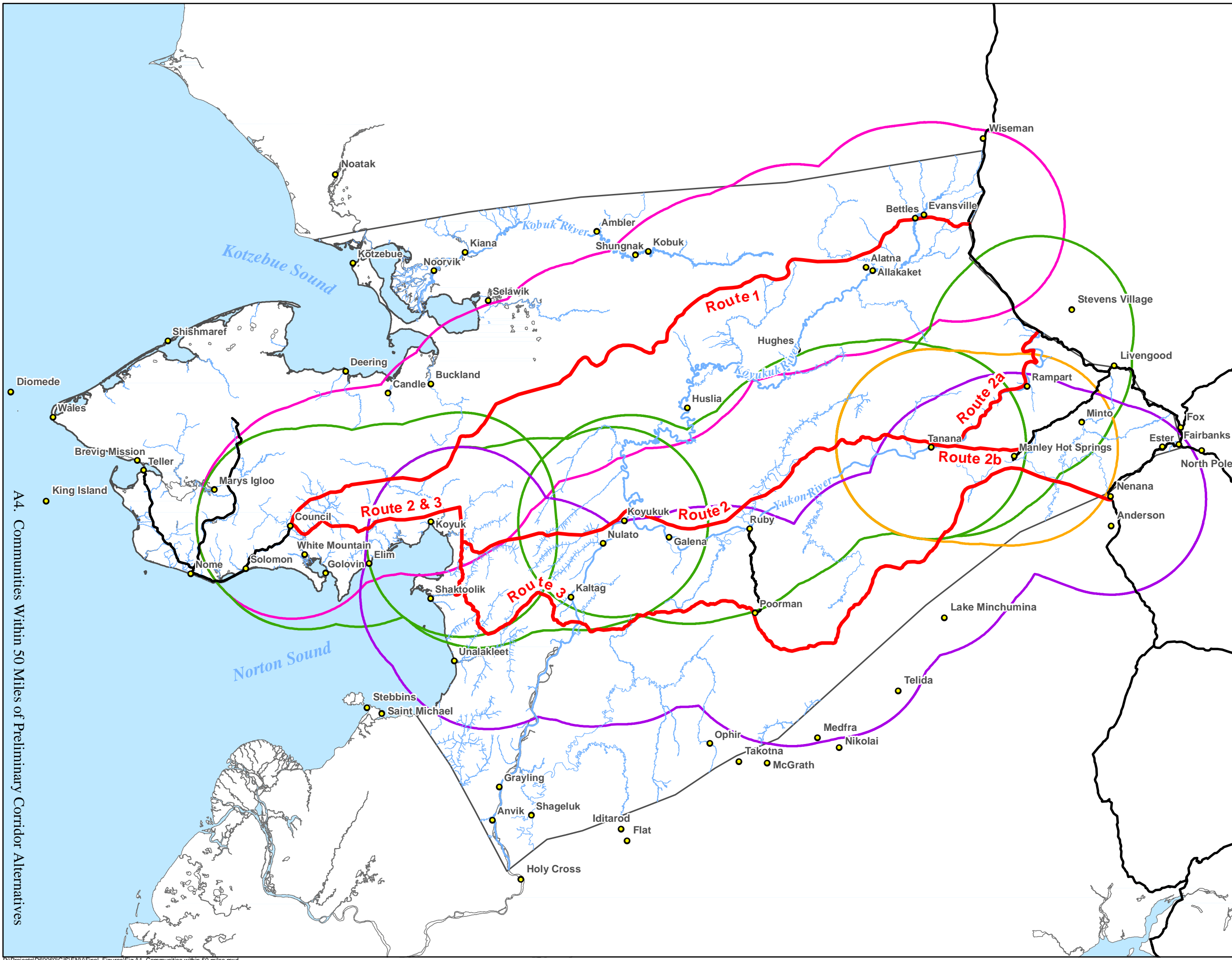
Route 2a		
Community	2008 DCCED Population	Straightline Distance
Rampart	16	1.53
Tanana	252	1.77
Koyukuk	88	2.87
Koyuk	333	3.2
Galena	580	6.27
Nulato	274	7.11
White Mountain	191	10.59
Ruby	160	10.81
Elim	297	17.46
Golovin	160	22.59
Shaktoolik	223	33.81
Kaltag	188	32.79
TOTAL	2762	150.8
12 communities w/in 50 mi.	Ratio Pop/Dist =	18.32
Route 2a →18.5 people/mile of access road built		

Route 2b		
Community	2008 DCCED Population	Straightline Distance
Tanana	252	1.77
Koyukuk	88	2.87
Koyuk	333	3.2
Galena	580	6.27
Nulato	274	7.11
White Mountain	191	10.59
Ruby	160	10.81
Elim	297	17.46
Golovin	160	22.59
Kaltag	188	32.79
Rampart	16	33.06
Shaktoolik	223	33.81
TOTAL	2762	182.33
12 communities w/in 50 mi.	Ratio Pop/Dist =	15.15
Route 2b →15 people/mile of access road built		

Route 3		
Community	2008 DCCED Population	Straightline Distance
Koyuk	333	3.2
Kaltag	188	10.16
White Mountain	191	10.59
Shaktoolik	223	13.25
Elim	297	17.46
Unalakleet	723	21.94
Golovin	160	22.59
Tanana	252	28.63
Lake Minchumina	17	31.63
Galena	580	39.41
Ruby	160	39.51
Nulato	274	40.46
Telida	3	41.97
Rampart	16	44.01
TOTAL	3417	364.81
14 communities w/in 50 mi.	Ratio Pop/Dist =	9.37
Route 3 →9.5 people/mile of access road built		

Western Alaska Access Planning Study

Communities Within 50 Miles of Preliminary Corridor Alternatives



Legend

- Preliminary Corridor Alternatives
- Existing Roads
- Study Area
- Communities

50-Mile Buffer

- Route 1
- Route 2a*
- Route 2b
- Route 3

* Includes overlap with Routes 2b and 3.

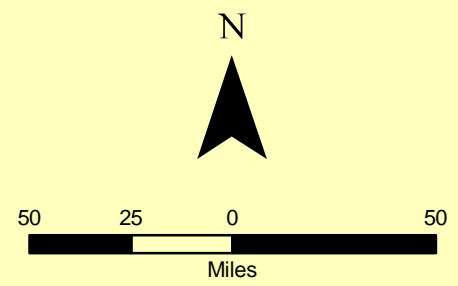


Figure A1

A4. Communities Within 50 Miles of Preliminary Corridor Alternatives

The Ratio of Population to Access Road Distance
for Communities within 20 miles of Preliminary Corridor Alternatives

Route 1		
Community	2008 DCCED Population	Straightline Distance
Bettles	22	0.81
Evansville	14	1.96
Alatna	28	7.11
Allakaket	96	9.63
White Mountain	191	17.37
TOTAL	351	36.88
5 communities w/in 20 mi.	Ratio Pop/Dist =	9.517353579
Route 1	→9.5 people/mile of access road built	

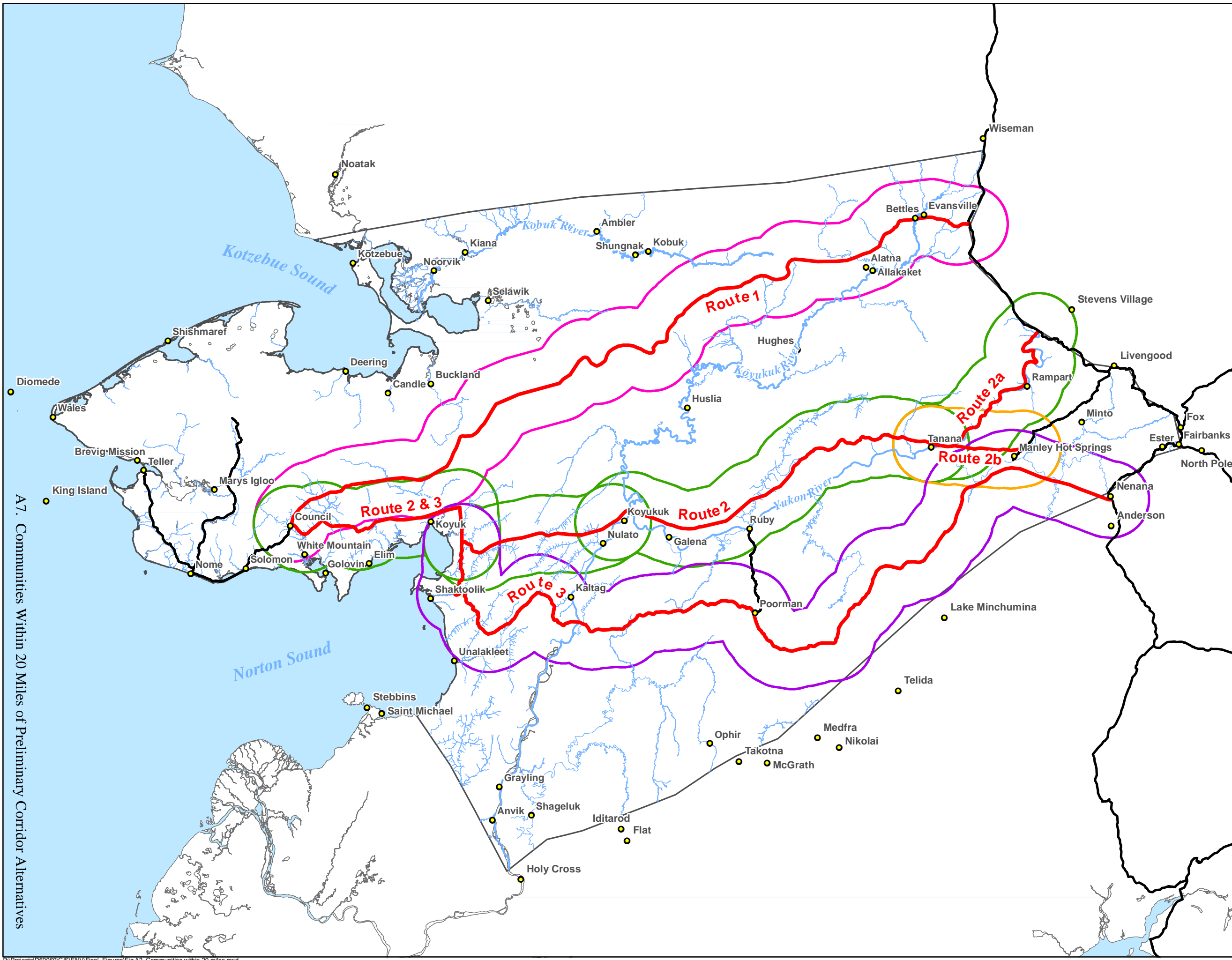
Route 2a		
Community	2008 DCCED Population	Straightline Distance
Rampart	16	1.53
Tanana	252	1.77
Koyukuk	88	2.87
Koyuk	333	3.2
Galena	580	6.27
Nulato	274	7.11
White Mountain	191	10.59
Ruby	160	10.81
Elim	297	17.46
TOTAL	2191	61.61
9 communities w/in 20 mi.	Ratio Pop/Dist =	35.5624087
Route 2a	→35.5 people/mile of access road built	

Route 2b		
Community	2008 DCCED Population	Straightline Distance
Tanana	252	1.77
Koyukuk	88	2.87
Koyuk	333	3.2
Galena	580	6.27
Nulato	274	7.11
White Mountain	191	10.59
Ruby	160	10.81
Elim	297	17.46
TOTAL	2175	60.08
8 communities w/in 20 mi.	Ratio Pop/Dist = 36.20173103	
Route 2b →36 people/mile of access road built		

Route 3		
Community	2008 DCCED Population	Straightline Distance
Koyuk	333	3.2
Kaltag	188	10.16
White Mountain	191	10.59
Shaktoolik	223	13.25
Elim	297	17.46
TOTAL	1232	54.66
5 communities w/in 20 mi.	Ratio Pop/Dist = 22.53933407	
Route 3 →22.5 people/mile of access road built		

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Communities Within 20 Miles of Preliminary Corridor Alternatives



- Preliminary Corridor Alternatives
- Existing Roads
- Study Area
- Communities

20-Mile Buffer

- Route 1
- Route 2a*
- Route 2b
- Route 3

* Includes overlap with Routes 2b and 3.

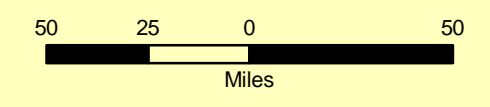


Figure A2

A7. Communities Within 20 Miles of Preliminary Corridor Alternatives

**The Ratio of Population to Access Road Distance
for Communities within 50 miles of Refined Corridor Alternatives**

Route 1		
Community	2008 DCCED Population	Straight Line Distance to Route 1
Bettles	22	0.66
Evansville	14	1.85
Alatna	28	7.02
Allakaket	96	9.64
White Mountain	191	17.42
Koyuk	333	21.97
Kobuk	109	31.08
Buckland	458	31.95
Shungnak	272	32.85
Huslia	277	34.31
Hughes	81	38.02
Elim	297	39.88
Golovin	160	40.93
TOTAL	2338	307.58
13 communities w/in 50 mi.	Ratio Pop/Dist =	7.60
Route 1 →7.5 people/mile of access road built		

Route 2b		
Community	2008 DCCED Population	Straight Line Distance to Route 2b
Koyuk	333	0.51
Tanana	252	1.62
Galena	580	5.18
Koyukuk	88	6.18
Nulato	274	8.43
White Mountain	191	10.28
Ruby	160	16.34
Golovin	160	17.36
Elim	297	17.57
Kaltag	188	24.12
Shaktolik	223	32.74
Solomon	2	34.44
TOTAL	2748	174.76
12 communities w/in 50 mi.	Ratio Pop/Dist =	15.72
Route 2b →15.5 people/mile of access road built		

**The Ratio of Population to Access Road Distance
for Communities within 20 miles of Refined Corridor Alternatives**

Route 1		
Community	2008 DCCED Population	Straight Line Distance to Route 1
Bettles	22	0.66
Evansville	14	1.85
Alatna	28	7.02
Allakaket	96	9.64
White Mountain	191	17.42
TOTAL	351	36.60
5 communities w/in 20 mi.	Ratio Pop/Dist =	9.59
Route 1 →9.5 people/mile of access road built		

Route 2b		
Community	2008 DCCED Population	Straight Line Distance to Route 2b
Koyuk	333	0.51
Tanana	252	1.62
Galena	580	5.18
Koyukuk	88	6.18
Nulato	274	8.43
White Mountain	191	10.28
Ruby	160	16.34
Golovin	160	17.36
Elim	297	17.57
TOTAL	2335	83.47
9 communities w/in 20 mi.	Ratio Pop/Dist =	27.98
Route 2b →28 people/mile of access road built		