

## ENVIRONMENTAL SITING CRITERIA

### Marion to Carterville Gas Line Project

**OPPORTUNITIES** that are advantageous for siting natural gas pipelines are characterized by corridors with the potential for sharing or running alongside existing linear facilities, infrastructure, and landscape features.

**SENSITIVITIES** are those environmental siting criteria, including point locations, areas, or features, which should be taken into account with regard to routing, construction, or additional licensing/permitting procedures.

<b>OPPORTUNITIES</b>	
Existing Electrical Transmission Line Corridor (69 kV and above)	
Divided and Undivided Highway, and Secondary Road	
Existing Electrical Distribution Line Corridor (below 69 kV)	
Pipeline or other Utility Corridor (including fiber optics)	
Railroad	
Section Line and/or Property Line	
<b>SENSITIVITIES</b>	
<b>High</b>	
Commercial Use Area	Hospital
Communication, Radio, and Microwave Towers	School
Existing Residential Use Area	
<b>Moderate</b>	
Agricultural Use Area	Industrial Use Area
Cemetery	Mine/Quarry
Church	National Historic Landmark
Conservation Management Area	Nursing / Assisted Living Facility
Existing Drainage, River, Stream, Waterway	Potential Special Status Species Habitat
Floodplain (100-Year)	State, Regional and Local Parks, Designated Open Space, and/or Preserve
Geologically Sensitive Area	Wetland
Golf Course	
<b>Low</b>	
Airport/Airstrip	Planned Residential Development
Archaeological Site	Scenic Highway / Byway / Trail
Designated Critical Habitat	Sensitive Management Area
Designated Recreational Use Area	Traditional Cultural Property
Licensed Day-Care Center	Trees/Woodlots
Non-Private Land	Water Well Site

AmerenCIPS Exhibit 4.4  
Summary Comparison of the Proposed Routes

Proposed Route	Route Length (Feet)	Route Length (Miles)	Route Area <sup>1</sup> (Acres)	Transportation Crossings			Environmental Features											
				Railroad <sup>3</sup>	Major Roads <sup>4</sup>	Minor Roads <sup>5</sup>	Agricultural Land <sup>6</sup>		Wooded Areas <sup>6</sup>		National Wildlife Refuge Land <sup>7</sup>		State Listed T&E Species Occurrences <sup>8</sup>	All Wetlands <sup>9</sup>		Forested Wetlands <sup>10</sup>		Stream Crossings <sup>11</sup>
				(Count)	(Count)	(Count)	(Acres)	(% of Area)	(Acres)	(% of Area)	(Acres)	(% of Area)	(Count)	(Acres)	(% of Area)	(Acres)	(% of Area)	(Count)
A	67,573	12.80	387.3	1.0	8.0	25.0	17.9	4.6%	97.6	25.2%	1.3	0.3%	7	19.2	5.0%	4.9	1.3%	5
B	70,582	13.37	403.9	1.0	8.0	25.0	32.1	7.9%	94.9	23.5%	1.3	0.3%	7	10.2	2.5%	5.0	1.2%	4
C	55,833	10.57	319.5	1.0	8.0	20.0	24.4	7.6%	60.2	18.8%	1.3	0.4%	7	3.6	1.1%	0.3	0.1%	1
D	74,876	14.18	428.6	5.0	8.0	24.0	51.6	12.0%	139.4	32.5%	1.3	0.3%	7	15.7	3.7%	10.2	2.4%	7
E	60,127	11.39	344.2	5.0	8.0	19.0	43.9	12.8%	104.7	30.4%	1.3	0.4%	7	9.0	2.6%	5.6	1.6%	4
F	65,825	12.47	377.0	1.0	8.0	20.0	31.2	8.3%	76.0	20.2%	1.3	0.4%	7	14.4	3.8%	0.4	0.1%	2

**Assumptions/Data Sources:**

- For comparative analysis purposes, routes are 250 feet wide (125 feet each side of the potential alignment).
- Values only indicate occurrence of features within the routes.
- Railroads were identified from the 2008 TeleAtlas North America database.
- Major Roads were identified from the 2008 TeleAtlas North America database. Major Roads include: interstates, U.S. highways, state highways and county roads.
- Minor Roads were identified from the 2008 TeleAtlas North America database. Minor Roads are all other roads not considered Major Roads.
- Agricultural Land and Wooded Areas were identified using aerial imagery interpretation. High resolution aerial imagery is from October 2008 and obtained specifically for this project.
- The Crab Orchard Wildlife Refuge boundary was identified by the United States Fish and Wildlife Service (USFWS).
- State listed threatened and endangered species occurrences were identified within the project area using the Illinois Department of Natural Resources Ecological Compliance Assessment Tool (EcoCAT). The tool identifies the location (township, range and section) of known occurrences. An EcoCAT review reflects the information existing in the database at the time of the inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments.
- Wetland data was obtained using the USFWS National Wetland Inventory (NWI) Wetland Mapper website.
- Forested Wetlands are a subset of all wetlands within the NWI database. Wetlands were considered forested if they were designated with a FO (forested) class.
- Streams, rivers, and existing drainages were identified using the United States Geological Survey National Hydrography Dataset.
- 100-year flood plains were identified using FEMA Flood Insurance Rate Map (FIRM) digital data.
- No local parks were identified in the project area according to available land use and zoning information.
- Golf Courses, Cemeteries, Churches, Hospitals, and Schools were identified using the USGS Geographic Names Information System dataset and verified using aerial imagery interpretation and field observations. High resolution aerial imagery is from October 2008 and obtained specifically for this project.
- Nursing Homes were identified by geocoding addresses provided by the Illinois Department of Health.
- Federal Communications Commission (FCC) Towers were obtained from the FCC Antenna Structure Registration database.
- There are no national historic places in the project area according to the National Park Service (www.nps.gov).
- Residential and Non-residential Buildings were identified using aerial imagery interpretation and field observations. High resolution aerial imagery is from October 2008 and obtained specifically for this project.
- Parcels were identified using digitized hard copy tax maps from Williamson County.

AmerenCIPS Exhibit 4.4  
Summary Comparison of the Proposed Routes

Proposed Route	Route Length (Feet)	Route Length (Miles)	Route Area <sup>1</sup> (Acres)	Environmental Features		Land Use Features										Residential Buildings <sup>18</sup> 0 - 75 feet (Count)	Number of Parcels <sup>19</sup> (Count)
				100-Year Floodplain <sup>12</sup>		Local Parks <sup>13</sup>	Golf Courses <sup>14</sup>	Cemeteries <sup>14</sup>	Churches <sup>14</sup>	Hospitals <sup>14</sup>	Schools <sup>14</sup>	Nursing Homes <sup>15</sup>	FCC Towers <sup>16</sup>	National Register of Historic Places <sup>17</sup>			
				(Acres)	(% of Area)	(Count)	(Count)	(Count)	(Count)	(Count)	(Count)	(Count)	(Count)	(Count)			
A	67,573	12.80	387.3	-	-	-	-	2	-	-	-	-	-	-	-	5	174
B	70,582	13.37	403.9	-	-	-	-	1	-	-	-	-	-	-	-	5	204
C	55,833	10.57	319.5	-	-	-	1	-	-	-	-	-	-	-	-	7	196
D	74,876	14.18	428.6	-	-	-	-	2	-	-	-	-	-	-	-	5	248
E	60,127	11.39	344.2	-	-	-	1	1	-	-	-	-	-	-	-	7	240
F	65,825	12.47	377.0	-	-	-	1	1	-	-	-	-	-	-	-	7	204

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**7** Was this an effective way to reach you with information?

Yes \_\_\_\_\_ No \_\_\_\_\_

Do you have any suggestions?

\_\_\_\_\_  
\_\_\_\_\_

***Thank you for your participation***

Please leave your completed form at the comment station or fold and mail.

**For further information please call toll free at 1-888-840-0436 or visit the project website at <http://www.mcgaspipeline.com>.**

Please fold along this line.

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**Natural Resource Group, LLC  
222 S Riverside Plaza, 29<sup>th</sup> Floor  
Chicago, Illinois 60606**