Appendix 5 - Alternative Avoidance Analysis Table

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Electric Power Generator (Isola Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Isola Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Isola Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Isola Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Isola Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Inhnown/Other Source) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Wind Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Wind Based) Avoid - Review Site After Routing for Possible Adjustments Ethano Facility Avoid - Review Site After Routing for Possible Adjustments Ethano Facility Ethano Facility Gold Course Avoid - Review Site After Routing for Possible Adjustments Gall Course Avoid - Review Site After Routing for Possible Adjustments Gall Course Avoid - Review Site After Routing for Possible Adjustments Gall Course Avoid - Review Site After Routing for Possible Adjustments Gall Course Avoid - Review Site After Routing for Possible Adjustments </td <td>Nebraska Departmet of Natural Resources</td> <td>April 2021</td>	Nebraska Departmet of Natural Resources	April 2021
Electric Power Generator (Call Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Call Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Coll Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Coll Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Noter Source) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Water Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Water Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Water Based) Avoid - Review Site After Routing for Possible Adjustments Ethanol Facility Avoid - Review Site After Routing for Possible Adjustments Ethanol Facility/(Sasoline And Diesel Producers Low Avoidance - Review Site After Routing for Possible Adjustments Golf Course Avoid - Review Site After Routing for Possible Adjustments Gorornand Lotter Avoid - Review Site After Routing for Possible Adjustments Gorornand Conter Avoid - Review Site After Routing for Possible Adjustments Gorornand Conter Avoid - Review Site After Routing for Possible Adjustments Helicopter Landing Pad Avoid - Review Site	United States Army Corps of Engineers	January 2019
Electric Power Generator (Sia Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Solar Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Solar Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Winknown/Other Source) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Ward Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Ward Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Ward Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Ward Based) Avoid - Review Site After Routing for Possible Adjustments Ethanol Facility/Gasoline And Desel Producers Low Avoidance - Review Site After Routing for Possible Adjustments Golf Course Avoid - Review Site After Routing for Possible Adjustments Goround And Surface Water Site Avoid - Review Site After Routing for Possible Adjustments Helicopter Landing Pad Avoid - Review Site After Routing for Possible Adjustments Hoopsial/Nospice/Urgent Care Facility Avoid - Review Site After Routing for Possible Adjustments Hoopsial Avoid - Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
Electric Power Generator (Dial Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Unknown)(Other Source) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Unknown)(Other Source) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Water Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Water Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Water Based) Avoid - Review Site After Routing for Possible Adjustments Ethanol Facility Avoid - Review Site After Routing for Possible Adjustments Ethanol Facility Avoid - Review Site After Routing for Possible Adjustments Gold Course Low Avoidance- Review Site After Routing for Possible Adjustments Gold Course Avoid - Review Site After Routing for Possible Adjustments Gord Course Avoid - Review Site After Routing for Possible Adjustments Heicopter Landing Pad Avoid - Review Site After Routing for Possible Adjustments Hospital Avoid - Review Site After Routing for Possible Adjustments Hospital/Hospica/Urgent Care Facility Avoid - Review Site After Routing for Possible Adjustments Hospital/Hospica/Urgent Care Facility Avoid - Review Site After Routing for Possible Adju	Environmental Protection Agency	April 2021
Electric Power Generator (Juknown/Other Source) Avoid. Review Site After Routing for Possible Adjustments Electric Power Generator (Water Based) Avoid. Review Site After Routing for Possible Adjustments Electric Power Generator (Water Based) Avoid. Review Site After Routing for Possible Adjustments Electric Power Generator (Water Based) Avoid. Review Site After Routing for Possible Adjustments Electric Power Generator (Water Based) Avoid. Review Site After Routing for Possible Adjustments Electric Power Generator (Water Based) Avoid. Review Site After Routing for Possible Adjustments Ethanol Facility/Gasoline And Diesel Producers Low Avoid.Review Site After Routing for Possible Adjustments Ethanol Facility/Gasoline And Diesel Producers Low Avoid.Review Site After Routing for Possible Adjustments Golf Corse Avoid. Review Site After Routing for Possible Adjustments Golf Corse Avoid. Review Site After Routing for Possible Adjustments Heicopter Landing Pad Avoid. Review Site After Routing for Possible Adjustments Heisoptal Avoid. Review Site After Routing for Possible Adjustments Heisoptal Avoid. Review Site After Routing for Possible Adjustments Hospital Avoid. Review Site After Routing for Possible Adjustments Hospital Avoid. Review Site After Ro	Environmental Protection Agency	April 2021
Electric Power Generator (Wankowr/Other Source) Avoid- Review Site After Routing for Possible Adjustments Electric Power Generator (Wand Based) Avoid- Review Site After Routing for Possible Adjustments Electric Power Generator (Wand Based) Avoid- Review Site After Routing for Possible Adjustments Endrocement/Compliance Activity Avoid- Review Site After Routing for Possible Adjustments Ethanol Facility Avoid- Review Site After Routing for Possible Adjustments Ethanol Facility Low Avoidance- Review Site After Routing for Possible Adjustments Falls Low Avoidance- Review Site After Routing for Possible Adjustments Golf Course Avoid- Review Site After Routing for Possible Adjustments Government Center Avoid- Review Site After Routing for Possible Adjustments Government Center Avoid- Review Site After Routing for Possible Adjustments Helicopter Landing Pad Avoid- Review Site After Routing for Possible Adjustments Hospital/Hospital/Ugent Care Facility Avoid- Review Site After Routing for Possible Adjustments Hospital Avoid- Review Site After Routing for Possible Adjustments Helicopter Landing Pad Avoid- Review Site After Routing for Possible Adjustments Hospital/Hospital/Ugent Care Facility Avoid- Review Site After Routing for Possible Adjustments Island Avoid- Review Site After Routing for Possible Adjustments Landiti Gas (IFG) Recovery Avoid-	Environmental Protection Agency	April 2021
Electric Power Generator (Wird E Based) Avoid - Review Site After Routing for Possible Adjustments Electric Power Generator (Wind Based) Avoid - Review Site After Routing for Possible Adjustments Enforcement/Compliance Activity Avoid - Review Site After Routing for Possible Adjustments Ethanol Facility Avoid - Review Site After Routing for Possible Adjustments Ethanol Facility/Gasolie And Diesel Producers Low Avoid ance: Review Site After Routing for Possible Adjustments Falls Low Avoid ance: Review Site After Routing for Possible Adjustments Golf Course Avoid - Review Site After Routing for Possible Adjustments Government Center Avoid - Review Site After Routing for Possible Adjustments Helicopter Landing Pad Avoid - Review Site After Routing for Possible Adjustments Helicopter Landing Pad Avoid - Review Site After Routing for Possible Adjustments Hospital Avoid - Review Site After Routing for Possible Adjustments Hospital Avoid - Review Site After Routing for Possible Adjustments Hospital Avoid - Review Site After Routing for Possible Adjustments Hospital Avoid - Review Site After Routing for Possible Adjustments Hospital Avoid - Review Site After Routing for Possible Adjustments Incorporated Pikee Pak, Forest, Orest, Or Recreation Area Avoid	Environmental Protection Agency	April 2021
Electric Power Generator (Wind Based) Avoid- Review Site After Routing for Possible Adjustments Enforcement/Compliance Activity Avoid- Review Site After Routing for Possible Adjustments Ethanol Facility Avoid- Review Site After Routing for Possible Adjustments Ethanol Facility Low Avoidance- Review Site After Routing for Possible Adjustments Ethanol Facility Low Avoidance- Review Site After Routing for Possible Adjustments Falls Low Avoidance- Review Site After Routing for Possible Adjustments Golf Course Avoid- Review Site After Routing for Possible Adjustments Gourse Avoid- Review Site After Routing for Possible Adjustments Goroud And Surface Water Site Avoid- Review Site After Routing for Possible Adjustments Helicopter Landing Pad Avoid- Review Site After Routing for Possible Adjustments Hospital Avoid- Review Site After Routing for Possible Adjustments Hospital Avoid- Review Site After Routing for Possible Adjustments Incorporated Place Pat, Forest, Or Recreation Area Avoid- Review Site After Routing for Possible Adjustments Island Landfil Gas (IrG) Recovery Avoid- Review Site After Routing for Possible Adjustments Landfil Gas (IrG) Recovery Avoid- Review Site After Routing for Possible Adjustments Landfil Gas (IrG) Recovery Avoid- Review Site After Routing for Possible Adjustments Landfil Gas (IrG) Recovery Avoid- Revie	Environmental Protection Agency	April 2021
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Ethanol Facility Avoid- Review Site After Routing for Possible Adjustments Ethanol Facility/Gasoline And Diesel Producers Low Avoidance. Review Site After Routing for Possible Adjustments Fails Low Avoidance. Review Site After Routing for Possible Adjustments Golf Course Avoid- Review Site After Routing for Possible Adjustments Gourment Center Avoid- Review Site After Routing for Possible Adjustments Ground Add Surface Water Site Avoid- Review Site After Routing for Possible Adjustments Ground Add Surface Water Site Avoid- Review Site After Routing for Possible Adjustments Helicopter Landing Pad Avoid- Review Site After Routing for Possible Adjustments Helicopter Landing Pad Avoid- Review Site After Routing for Possible Adjustments Hospital Avoid- Review Site After Routing for Possible Adjustments Hospital Avoid- Review Site After Routing for Possible Adjustments Incorporated Piace Park, Forest, Or Recreation Area Avoid- Review Site After Routing for Possible Adjustments Island Avoid- Review Site After Routing for Possible Adjustments Lasking Underground Storage Tank Avoid- Review Site After Routing for Possible Adjustments Lasking Underground Storage Tank - ARRA Avoid- Review Site After Routing for Possible Adjustments Local Joil or Detention Center Avoid- Review Site After Routing for Possible Adjustments Local Joil or Detention Center	Environmental Protection Agency	April 2021
Ethanol Facility/Gasoline And Diesel Producers Low Avoidance- Review Site After Routing for Possible Adjustments Falls Low Avoidance- Review Site After Routing for Possible Adjustments Golf Course Avoid- Review Site After Routing for Possible Adjustments Government Center Avoid- Review Site After Routing for Possible Adjustments Ground And Surface Water Site Avoid- Review Site After Routing for Possible Adjustments Holicopter Landing Pad Avoid- Review Site After Routing for Possible Adjustments Holicopter Landing Pad Avoid- Review Site After Routing for Possible Adjustments Hospital Avoid- Review Site After Routing for Possible Adjustments Hospital/Hospita/Urgent Care Facility Avoid- Review Site After Routing for Possible Adjustments Island Avoid- Review Site After Routing for Possible Adjustments Island Avoid- Review Site After Routing for Possible Adjustments Landfill Gas (LGS) Recovery Avoid- Review Site After Routing for Possible Adjustments Laking Underground Storage Tank Avoid-Review Site After Routing for Possible Adjustments Laking Underground Storage Tank Avoid-Review Site After Routing for Possible Adjustments Local Jail or Detention Center Avoid-Review Site After Routing for Possible Adjustments Lo	Environmental Protection Agency	April 2021 April 2021
Falls Low Avoidance- Review Site After Routing for Possible Adjustments Golf Course Avoid- Review Site After Routing for Possible Adjustments Government Center Avoid- Review Site After Routing for Possible Adjustments Ground And Surface Water Site Avoid- Review Site After Routing for Possible Adjustments Ground And Surface Water Site Avoid- Review Site After Routing for Possible Adjustments Helpoptral Anding Pad Avoid- Review Site After Routing for Possible Adjustments Helpoptral Anding Pad Avoid- Review Site After Routing for Possible Adjustments Hospital/Hospice/Urgent Care Facility Avoid- Review Site After Routing for Possible Adjustments Incorported Place Park, Forest, Or Recreation Area Avoid- Review Site After Routing for Possible Adjustments Island Avoid- Review Site After Routing for Possible Adjustments Laking Underground Storage Tank - ARRA Avoid- Review Site After Routing for Possible Adjustments Laking Underground Storage Tank - ARRA Avoid- Review Site After Routing for Possible Adjustments Library Avoid- Review Site After Routing for Possible Adjustments Local I or Detention Center Avoid- Review Site After Routing for Possible Adjustments Local Point Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency Environmental Protection Agency	April 2021 April 2021
Golf Course Avoid-Review Site After Routing for Possible Adjustments Government Center Avoid-Review Site After Routing for Possible Adjustments Ground And Surface Water Site Avoid-Review Site After Routing for Possible Adjustments Helicopter Landing Pad Avoid-Review Site After Routing for Possible Adjustments Hopstall Avoid-Review Site After Routing for Possible Adjustments Hopstall Avoid-Review Site After Routing for Possible Adjustments Hopstall Avoid-Review Site After Routing for Possible Adjustments Incorporated Place Park, Forest, Or Recreation Area Avoid-Review Site After Routing for Possible Adjustments Island Avoid-Review Site After Routing for Possible Adjustments Landfill Ga (LFG) Recovery Avoid-Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank Avoid-Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank Avoid-Review Site After Routing for Possible Adjustments Local Jail or Detention Center Avoid-Review Site After Routing for Possible Adjustments Local Avoid-Review Site After Routing for Possible Adjustments Local Jail or Detention Center Avoid-Review Site After Routing for Possible Adjustments Local Zail or Detention Center Avoid-Review Site After Routing for Possible Adjustments Local Zail or Detention Center Avoid-Review Site After Routing for Possible Adjustments	Environmental Protection Agency Environmental Protection Agency	April 2021 April 2021
Government Center Avoid- Review Site After Routing for Possible Adjustments Ground And Surface Water Site Avoid- Review Site After Routing for Possible Adjustments Helicopter Landing Pad Avoid- Review Site After Routing for Possible Adjustments Hospital Avoid- Review Site After Routing for Possible Adjustments Hospital/hospite/Urgent Care Facility Avoid- Review Site After Routing for Possible Adjustments Incorporated Mace Park, Forest, Or Recreation Area Avoid- Review Site After Routing for Possible Adjustments Island Avoid- Review Site After Routing for Possible Adjustments Landfill Gas (LFG) Recovery Avoid- Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank Avoid- Review Site After Routing for Possible Adjustments Library Avoid- Review Site After Routing for Possible Adjustments Local Jair Detention Center Avoid- Review Site After Routing for Possible Adjustments Local Jair Detention Center Avoid- Review Site After Routing for Possible Adjustments Local Jair Detention Center Avoid- Review Site After Routing for Possible Adjustments Local Jair Detention Center Avoid- Review Site After Routing for Possible Adjustments Local Jair Detention Center Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency Geographic Names Information System- United States Geological Survey	May 2021
Ground And Surface Water Site Avoid-Review Site After Routing for Possible Adjustments Helicopter Landing Pad Avoid-Review Site After Routing for Possible Adjustments Hospital Avoid-Review Site After Routing for Possible Adjustments Hospital Avoid-Review Site After Routing for Possible Adjustments Hospital Avoid-Review Site After Routing for Possible Adjustments Incorporated Place Park, Foret, Or Recreation Area Avoid-Review Site After Routing for Possible Adjustments Island Avoid-Review Site After Routing for Possible Adjustments Leading Indeground Storage Tank Avoid-Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank - ARRA Avoid-Review Site After Routing for Possible Adjustments Library Avoid-Review Site After Routing for Possible Adjustments Local Jail or Detention Center Avoid-Review Site After Routing for Possible Adjustments Local Avoid-Review Site After Routing for Possible Adjustments Local Avoid-Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Helicopter Landing Pad Avoid- Review Site After Routing for Possible Adjustments Hospital Avoid- Review Site After Routing for Possible Adjustments Hospital/Hospice/Urgent Care Facility Avoid- Review Site After Routing for Possible Adjustments Incorporated Place Park, Forest, Or Recreation Area Avoid- Review Site After Routing for Possible Adjustments Island Avoid- Review Site After Routing for Possible Adjustments Landfill Gas (LFG) Recovery Avoid- Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank Avoid- Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank Avoid- Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank Avoid- Review Site After Routing for Possible Adjustments Local Jail or Detention Center Avoid- Review Site After Routing for Possible Adjustments Locale Avoid- Review Site After Routing for Possible Adjustments Local Jail or Detention Center Avoid- Review Site After Routing for Possible Adjustments Local Fort Avoid- Review Site After Routing for Possible Adjustments Local Fort Avoid- Review Site After Routing for Possible Adjustments Local Fort Avoid- Review Site After Routing for Possible Adjustments Local Fort Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Hospital Avoid- Review Site After Routing for Possible Adjustments Hospital/Hospite/Urgent Care Facility Avoid- Review Site After Routing for Possible Adjustments Incorporated Place Park, Forest, Or Recreation Area Avoid- Review Site After Routing for Possible Adjustments Island Avoid- Review Site After Routing for Possible Adjustments Landfill Gas (LFG) Recovery Avoid- Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank Avoid- Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank - ARRA Avoid- Review Site After Routing for Possible Adjustments Library Avoid- Review Site After Routing for Possible Adjustments Local I or Detention Center Avoid- Review Site After Routing for Possible Adjustments Locale Avoid- Review Site After Routing for Possible Adjustments Locale Avoid- Review Site After Routing for Possible Adjustments	North Dakota GIS Hub	March 2021
Hospital/Hospice/Urgent Care Facility Avoid- Review Site After Routing for Possible Adjustments Incorporated Place Park, Forect, Or Recreation Area Avoid- Review Site After Routing for Possible Adjustments Island Avoid- Review Site After Routing for Possible Adjustments Landfill Gas (LFG) Recovery Avoid- Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank Avoid- Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank - ARRA Avoid- Review Site After Routing for Possible Adjustments Library Avoid- Review Site After Routing for Possible Adjustments Local Jail or Detention Center Avoid- Review Site After Routing for Possible Adjustments Locale Avoid- Review Site After Routing for Possible Adjustments Local Facility Point Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Incorporated Place Park, Forest, Or Recreation Area Avoid- Review Site After Routing for Possible Adjustments Island Avoid- Review Site After Routing for Possible Adjustments Landfill Gas (LFG) Recovery Avoid- Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank Avoid- Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank - ARRA Avoid- Review Site After Routing for Possible Adjustments Library Avoid- Review Site After Routing for Possible Adjustments Local Jair D Detention Center Avoid- Review Site After Routing for Possible Adjustments Locale Avoid- Review Site After Routing for Possible Adjustments Locale Avoid- Review Site After Routing for Possible Adjustments Local Jair D Detention Center Avoid- Review Site After Routing for Possible Adjustments Locale Avoid- Review Site After Routing for Possible Adjustments Localer Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
Island Avoid-Review Site After Routing for Possible Adjustments Landfill Gas (LSG) Recovery Avoid-Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank Avoid-Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank Avoid-Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank - ARRA Avoid-Review Site After Routing for Possible Adjustments Library Avoid-Review Site After Routing for Possible Adjustments Local Jail or Detention Center Avoid-Review Site After Routing for Possible Adjustments Locale Avoid-Review Site After Routing for Possible Adjustments Locale Avoid-Review Site After Routing for Possible Adjustments Locale Avoid-Review Site After Routing for Possible Adjustments Localer Avoid-Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
Landfill Gas (LFG) Recovery Avoid-Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank Avoid-Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank - ARRA Avoid-Review Site After Routing for Possible Adjustments Library Avoid-Review Site After Routing for Possible Adjustments Local Jail or Detention Center Avoid-Review Site After Routing for Possible Adjustments Locale Avoid-Review Site After Routing for Possible Adjustments Localer Avoid-Review Site After Routing for Possible Adjustments Localer Avoid-Review Site After Routing for Possible Adjustments Localer Avoid-Review Site After Routing for Possible Adjustments Locality Point Avoid-Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
Leaking Underground Storage Tank Avoid- Review Site After Routing for Possible Adjustments Leaking Underground Storage Tank - ARRA Avoid- Review Site After Routing for Possible Adjustments Library Avoid- Review Site After Routing for Possible Adjustments Local Jail To Detention Center Avoid- Review Site After Routing for Possible Adjustments Locale Avoid- Review Site After Routing for Possible Adjustments Locale Avoid- Review Site After Routing for Possible Adjustments Localty Point Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
Leaking Underground Storage Tank - ARRA Avoid- Review Site After Routing for Possible Adjustments Ubrary Avoid- Review Site After Routing for Possible Adjustments Local Jail or Detention Center Avoid- Review Site After Routing for Possible Adjustments Local Jail or Detention Center Avoid- Review Site After Routing for Possible Adjustments Locale Avoid- Review Site After Routing for Possible Adjustments Localer Avoid- Review Site After Routing for Possible Adjustments Localty Point Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
Library Avoid-Review Site After Routing for Possible Adjustments Local Jail or Detention Center Avoid-Review Site After Routing for Possible Adjustments Locale Avoid-Review Site After Routing for Possible Adjustments Locality Point Avoid-Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	April 2021
Locale Avoid- Review Site After Routing for Possible Adjustments Locality Point Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
Locale Avoid-Review Site After Routing for Possible Adjustments Locality Point Avoid-Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	United States Census Bureau- TIGER	February 2020
	Geographic Names Information System- United States Geological Survey	May 2021
Military Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Mine Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
Mine Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
Mine Plant Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey- Mineral Resources Data System	March 2017
Mountain Peak Or Summit Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey	February 2020
Museum, Visitor Center, Cultural Center, Or Tourist Attraction Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
NG Transmission Hub Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Non-Transient Non-Community Water System Avoid- Review Site After Routing for Possible Adjustments	U.S. Energy Information Administration	April 2020

		Alternative Avoidance Analysis		
	Routing Data NPDES Pretreatment Program	Routing Data Classification Avoid- Review Site After Routing for Possible Adjustments	Data Source Environmental Protection Agency	Vintage April 2021
	NPDES Pretreatment Program NPDES Stormwater Permit	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency Environmental Protection Agency	April 2021
	NPDES Unpermitted	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	NRIS Cultural Site	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Other Hazardous Waste Activities	Avoid- Review Site After Routing for Possible Adjustments	National Parks Service- National Register of Historic Places	November 2020
	Other Park, Forest, Or Recreation Area (Quasi-Public, Independent Park Commission, E	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Park	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	Petroleum / Alternative Fuels Filling Station	Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
	Petroleum Refinery	Avoid- Review Site After Routing for Possible Adjustments	Alternative Fuels Data Center(USDOE)	November 2020
	Place Of Worship	Avoid- Review Site After Routing for Possible Adjustments	U.S. Energy Information Administration	July 2020
	Post Office	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
	Private Park, Forest, Or Recreation Area Radio Tower	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey United States Census Bureau- TIGER	May 2021 February 2020
	Regional Park, Forest, Or Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	South Dakota Game, Fish and Parks	February 2020
	School	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	School Or Academy	Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
	Sinkhole Site	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	Solid & C&D Waste Landfill	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	February 2021
	Spring	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	State Master	Low Avoidance- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
	State Park, Forest, Or Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Storm Water Construction	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	Storm Water Industrial	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Summit	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Superfund (Non-NPL) Superfund NPL	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021 April 2021
	Superfund NPL Tower	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency Environmental Protection Agency	April 2021 April 2021
	Tower	Avoid- Review Site After Routing for Possible Adjustments	Geographic Names Information System- United States Geological Survey	May 2021
	Traffic Circle	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
	Train Station, Trolley Or Mass Transit Rail Station	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
	Transportation Terminal	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
	Transportation Terminal	Avoid- Review Site After Routing for Possible Adjustments	Streetmap	2009
	Underground Storage Tank	Avoid- Review Site After Routing for Possible Adjustments	United States Department of Transportation	April 2020
	Unspecified Universe	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	April 2021
	US Government Facility	Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency	April 2021
	Wastewater Outfall	Avoid- Review Site After Routing for Possible Adjustments	Bureau of Indian Affairs	June 2018
	Water Monitoring Site	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	April 2021
	Water Treatment Plant	Avoid- Review Site After Routing for Possible Adjustments	South Dakota Game, Fish and Parks	Februaru 2013
	Water Treatment Plant Well	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	March 2020
	Well	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Environmental Protection Agency Iowa Department of Natural Resources	April 2021 November 2020
	Well	Avoid- Review Site After Routing for Possible Adjustments	Minnesota Geological Society	October 2020
	Wind Farm	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	Nebraska Oil and Gas Conservation Commission	March 2021
	Wind Turbine	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	September 2015
	Workforce Lodging	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	January 2019
Karst Topograph				
	Karst Boundary	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Geological Survey	Published 1984; Digitized 2005
	Karst Boundary Karst Rock Type	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Geological Survey United States Geological Survey	Published 1984; Digitized 2005 July 2014
Land Cover	Karst Rock Type	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Geological Survey	July 2014
Land Cover	Karst Rock Type Alfalfa	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance	United States Geological Survey United States Geological Survey United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	July 2014 2020 Edition; Published February 2021
Land Cover	Karst Rock Type Alfolfa Barley	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avoidance	United States Geological Survey United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	July 2014 2020 Edition; Published February 2021 2020 Edition; Published February 2021
Land Cover	Karst Rock Type Alfolfo Barley Borren	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avoidance Low Avoidance	United States Geological Survey United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	July 2014 2020 Edition; Published February 2021 2020 Edition; Published February 2021 2020 Edition; Published February 2021
Land Cover	Karst Rock Type Alfolfo Borley Borren Buckwheat	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance	United States Geological Survey United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Sta	July 2014 2020 Edition; Published February 2021 2020 Edition; Published February 2021 2020 Edition; Published February 2021 2020 Edition; Published February 2021
Land Cover	Karst Rock Type Alfolfo Borley Borren Buckwhoat Canola	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance	United States Geological Survey United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States States States Department of Agriculture/States States States States Department of Agriculture/States States States States Department of Agriculture/States States States States States Department of Agriculture/States States States States States Department of Agriculture/States States Stat	July 2014 2020 Edition; Published February 2021 2020 Edition; Published February 2021 2020 Edition; Published February 2021 2020 Edition; Published February 2021 2020 Edition; Published February 2021
Land Cover	Karst Rock Type Alfolfo Barley Barren Bucksheat Canolo Carrots	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance	United States Geological Survey United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	July 2014 2020 Edition; Published February 2021 2020 Edition; Published February 2021 2020 Edition; Published February 2021 2020 Edition; Published February 2021 2020 Edition; Published February 2021
Land Cover	Karst Rock Type Alfolfo Borley Borren Buckwhoat Canola	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance	United States Geological Survey United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	July 2014 2020 Edition; Published February 2021 2020 Edition; Published February 2021
Land Cover	Karst Rock Type Alfolfo Barley Barley Barren Buckwheat Canola Carrots Chick Peos	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance	United States Geological Survey United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	July 2014 2020 Edition; Published February 2021 2020 Edition; Published February 2021
Land Cover	Karst Rock Type Alfolfo Barley Barren Buckwhaat Canolo Canolo Carots Chick Peos Chicks Trees Extended Chick Stars Trees Extended Canolo Chick Stars Trees Extended Chick Stars Trees Ex	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance Low Avoidance	United States Geological Survey United States Geological Survey United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	July 2014 2020 Edition; Published February 2021 2020 Edition; Published February 2021
Land Cover	Karst Rock Type Affolfo Barley Barren Buckwheat Canolo Carrots Chrick Peas Chrick Reas Christmas Trees Clover/Wildflowers Com Dbil Crop Barley/Corn Enters Dbil Crop Barley/Corn Enters	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avoi	United States Geological Survey United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Sta	July 2014 2020 Edition; Published February 2021 2020 Edition; Published February 2021
and Cover	Karst Rock Type Alfolfo Barley Barren Buckwheat Canola Carrots Chick Peas Chick Neas Chick Neas Chick Peas Chick Peas Chick Peas Dit Crop Barley/Corn Dbl Crop Barley/Corn Dbl Crop Barley/Corn	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avo	United States Geological Survey United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Sta	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Alfolfo Barley Barren Buckwhat Canola Canola Canola Christmas Trees Clover/Wildflowers Can Dbil Crop Barley/Corn Dbil Crop Barley/Sophens Dbil Crop Top/Sophens	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avoi	United States Geological Survey United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Sta	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Affolfo Barley Barren Buckwheat Canola Carots Christmas Trees Clover/WildJovers Corn Dbl Crop Barley/Sophens Dbl Crop Barley/Sophens Dbl Crop Sophens Dbl Crop Sophens Dbl Crop WinktyCorn	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States De	July 2014 2020 Edition; Published February 2021 2020 Edition; Published February 2021
and Cover	Karst Rock Type Alfolfo Barley Barren Buckwheat Canola Carola Carola Christmas Trees Clock Peos Corn Dbl Crop Barley/Corn Dbl Crop Darley/Corn Dbl Crop Carn/Soybeans Dbl Crop Winkt/Corn Dbl Crop Winkt/Sorghum	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avo	United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States De	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
Land Cover	Karst Rock Type Alfolfo Barley Barren Buckwheat Canolo Carots Chick Peas Chick Reas Chick Reas Dibl Crop Barley/Corn Dbl Crop Barley/Soptens Dbl Crop Sarley/Soptens Dbl Crop WinWht/Corn Dbl Crop WinWht/Sorghum Dbl Crop WinWht/Sorghum	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avo	United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States De	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Alfolfo Barley Barren Buckwheat Canola Carots Christmas Trees Clover/WildPowers Corn Dbl Crop Barley/Sopheans Dbl Crop Barley/Sopheans Dbl Crop Barley/Sopheans Dbl Crop WinWht/Songhum Dbl Crop WinWht/Songhum Dbl Crop WinWht/Sopheans Deciduous Forest	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avo	United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States De	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Alfolfo Barley Barren Buckwheat Canola Canola Christmas Trees Clorey Midflowers Com Dbl Crop Barley/Corn Dbl Crop Barley/Sophens Dbl Crop WintlySophens Dbl Crop Wintly Sophens Dbl Crop Wi	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avo	United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States De	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Affolfo Barley Barren Buckwheat Canola Carrots Christmas Trees Clover /Winflowers Corn Dbl Crop Barley/Sophens Dbl Crop Barley/Sophens Dbl Crop WinMth/Zorn Deciduous Forest Deciduous forest Deciduous forest Developed/High Intensity	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States De	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Alfolfo Barley Barren Buckwheat Canola Carots Christmas Trees Clock Peas Christmas Trees Clock Peas Corn Dbl Crop Barley/Corn Dbl Crop Barley/Corn Dbl Crop Winkt/Sorghams Dbl Crop Winkt/Sorgham Dbl Crop Winkt/Sorghams Dbl Crop Sortest Dbl Crop Sortest Dbl Crop Kortest Dbl Crop Kinkt/Korn	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avo	United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States De	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Alfolfo Barley Barren Buckwheat Canola Carots Chrick Peas Chrick Reas Christmas Trees Clover, Mildflowers Carn Dbil Crop Barley/Sopheans Dbil Crop Barley/Sopheans Dbil Crop WinWht/Sorn Dbil Crop WinWht/Sorghum Dbil Crop WinWht/Sorghum Dbil Crop WinWht/Sophans Developed/Low Intensity Developed/Low Intensity Developed/Low Intensity Developed/Low Intensity Developed/Low Intensity Developed/Low Intensity <td>Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avo</td> <td>United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States De</td> <td>July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe</td>	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avo	United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States De	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Alfolfo Barley Barren Buckwheat Canola Carots Christmas Trees Clock Peas Christmas Trees Clock Peas Corn Dbl Crop Barley/Corn Dbl Crop Barley/Corn Dbl Crop Winkt/Sorghams Dbl Crop Winkt/Sorgham Dbl Crop Winkt/Sorghams Dbl Crop Sortest Dbl Crop Sortest Dbl Crop Kortest Dbl Crop Kinkt/Korn	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States De	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Alfolfo Barren Buckwhat Canola Carola Carola Christmas Trees Clover /Widflowers Corn Dbi Crop Barley/Corn Dbi Crop Barley/Corn Dbi Crop Sorley/Sopheans Dbi Crop Sorley/Sopheans Dbi Crop Sortest Dei Crop Sortest Dbi Crop Sortest Dbi Crop Kortest Dbi Crop Kortest Dbi Crop Kortest Dbi Crop Winth/Sorghum Dbi Crop Kortest Developed/fligh Intensity Developed/Med Intensity	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States De	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Alfolfo Barley Barren Buckwheat Canola Canola Carlots Christmas Trees Clover /Widflowers Core Dbi Crop Barley/Corn Dbi Crop Winkt/Sorgheans Dbi Crop Winkt/Sorghum Developed/Low Intensity	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low Avoidance Avoid Avoid Avoid Avoid Avoid Avoid Avoid Avoid Avoid Avoid Avoid Avoid Avoid Avoid Avoid	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricult	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Affolfo Barley Barren Buckwheat Canolo Carrots Chick Peas Chick Peas Chick Peas Chore Darley/Corn Dbl Crop Barley/Soybeans Dbl Crop Barley/Soybeans Dbl Crop Barley/Soybeans Dbl Crop Winkht/Sorghum Dbl Crop Winkht/Sorghum Dbl Crop Winkht/Soybeans Dbl Crop Winkht/Soybeans Dbl Crop Winkht/Soybeans Dbl Crop Winkht/Soybeans Dbl Crop Winkht/Sorghum Dbl Crop Winkht/Soybeans Developed/Alle Intensity Developed/Alled Intensity Developed/Jow Intensity Developed/Jow Intensity Developed/Jow Intensity Developed/Inder Intensity Developed Files Dy Beans Duru Whot Evergreen Forest	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricult	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
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and Cover	Karst Rock Type Alfolfo Barley Barren Buckwhoat Canola Canola Carlots Christmas Trees Clover/Midflovers Corey Aniefflovers Dbl Crop Barley/Corn Dbl Crop Barley/Corn Dbl Crop Barley/Sopteans Dbl Crop WinWht/Con Dbl Crop WinWht/Sopteans Developed/Low Intensity Developed/Lo	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference. Low Avoidance Low A	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricult	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Alfolfo Barren Buckwheat Canola Canola Carola Corres Clocy Widflowers Con Dbl Crop Barley/Corn Dbl Crop Darley/Corn Dbl Crop WinWh/Corn Dbl Crop WinWh/Corn Dbl Crop Sorbeans Dbl Crop NinWh/Corn Dbl Crop NinWh/Corn Dbl Crop Sorbeans Developed/High Intensity Developed/Med Intensity Developed/Med Intensity Developed/Med Intensity Developed/Med Intensity Developed/Med Intensity Developed/Med Intensity Day Bans Ourum Whet Evergreen Forest Falow/alle Cropland Flaxeed Grapes Grapes Grapes Grapes Grapes	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States De	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
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and Cover	Karst Rock Type Alfolfo Barren Buckwheat Canola Carots Carots Christmas Trees Clock Peas Cherky Midflowers Com Dbl Crop Barley/Carn Dbl Crop Barley/Carn Dbl Crop Barley/Carn Dbl Crop Barley/Carn Dbl Crop Winth/Sophens Dbl Crop Winth/Sophens Developed/Aligh Intensity Developed/Aligh Intensity Developed/Aligh Intensity Developed/Aligh Intensity Developed/Joen Soce Dry Bas Grassland/Posture Fallow/Alide Coplond Fallowerk Wetlands Lettils Milet Milet	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States De	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Alfolfo Barren Buckwheat Canola Canola Carrots Chick Peas Chick Peas Chick Peas Chick Peas Corey Midfflowers Carrot Dal Crop Barley/Sopkens Dal Crop Barley/Sopkens Dal Crop WinWht/Sorn Developed/Adv Intensity Developed/Open Space Dry Beans Durum Wheat Evergreen Forest Falow/alle Cropland Flaxeded Gripels Grissland/Pasture Herbocecus Wetlands Lentik Millet Milet	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricult	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Alfolfo Barren Buckwheat Canola Carola Christmas Trees Clover/Wildflovers Con Dbl Crop Barley/Con Dbl Crop Barley/Con Dbl Crop Barley/Con Dbl Crop Winth/Sophens Dbl Crop Winth/Sophens Deciduous Forest Developed/Righ Intensity Developed/Righ Intensity Developed/Que Sopce Dyn Bans Durum Wheat Evergreen Forest Fallow/Idle CropIond Flasseed Grossfand/Pasture Herbaccuss Weitands Lertis Mitet Mitet Mitet Mited Forest	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricult	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Alfolfo Barley Barren Buckwheat Canola Canola Canola Carlots Christmas Trees Clock Peas Dbl Crop Barley/Corn Dbl Crop Barley/Corn Dbl Crop Barley/Corn Dbl Crop Barley/Corn Dbl Crop Winkt/Sorghams Dbl Crop Winkt/Sorgham Developed/Low Intensity	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricult	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe
and Cover	Karst Rock Type Alfolfo Barren Buckwheat Canola Carola Christmas Trees Clover/Wildflovers Con Dbl Crop Barley/Con Dbl Crop Barley/Con Dbl Crop Barley/Con Dbl Crop Winth/Sophens Dbl Crop Winth/Sophens Deciduous Forest Developed/Righ Intensity Developed/Righ Intensity Developed/Que Sopce Dyn Bans Durum Wheat Evergreen Forest Fallow/Idle CropIond Flasseed Grossfand/Pasture Herbaccuss Weitands Lertis Mitet Mitet Mitet Mited Forest	Avoid- Review Karst Area After Routing for Possible Adjustments- Review other pipelines in the same area for reference.	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricult	July 2014 2020 Edition; Published February 2021 2020 Edition; Publishe



	Alternative Avoidance Analysis		
Routing Data	Routing Data Classification	Data Source	Vintage
Other Crops Other Hay/Non Alfalfa	Avoid Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2020 Edition; Published February 2021
Peas	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2020 Edition; Published February 2021
Peppers	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
Pop or Orn Corn	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
Potatoes	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
Pumpkins Radishes	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
Rye	Low Avoidance Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2020 Edition; Published February 2021
Safflower	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
Shrubland	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
Sod/Grass Seed (Review data accuracy for any major route variances)	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
Sorghum	Avoid	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
Saybeans	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2020 Edition; Published February 2021
Spring Wheat Squash	Low Avoidance Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2020 Edition; Published February 2021
Sugarbeets	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
Sunflower	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
Sweet Corn	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
Switchgrass	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
Triticale	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
Vetch Watermelans	Low Avoidance Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2020 Edition; Published February 2021
Winter Wheat	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021 2020 Edition; Published February 2021
Woody Wetlands	Low Avoidance	United States Department of Agriculture/United States Geological Survey - National Agricultural Statistics Service	2020 Edition; Published February 2021
and Ownership Potential Conflicts			
Agricultural Easement	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Airport	Avoid	Streetmap	2009
Airport - Statistical Representation Amusement Center	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER United States Census Bureau- TIGER	February 2020 May 2016
Amusement Center Approved or Proclamation Boundary	Low Avoidance- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
Campground	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Cemetery	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Coal Mine	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	July 2017
Commercial Workplace	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Conservation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Conservation Easement Conservation Easement	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	National Conservation Easement Database United States Geological Survey - PADUS v2_1	August 2020 December 2020
Convent, Monastery, Rectory, Other Religious Group Quarters	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADOS V2_1 United States Census Bureau- TIGER	February 2020
County Park, Forest, or Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Federal Other or Unknown	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Federal Penitentiary, State Prison, or Prison Farm	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Forest Stewardship Easement	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Golf Course Government Center	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER United States Census Bureau- TIGER	February 2020 February 2020
Grazing Allotment - BLM	Avoid- Review Site After Routing for Possible Adjustments	Bureau of Land Management	April 2021
Grazing Allotment - USFS	Avoid- Review Site After Routing for Possible Adjustments	United States Forest Service	April 2021
Historic or Cultural Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Hospital/Hospice/Urgent Care Facility	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Hotel, Motel, Resort, Spa, Hostel, YMCA, or YWCA	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
Incorporated Place Park, Forest, or Recreation Area Industrial Building or Industrial Park	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER United States Census Bureau- TIGER	February 2020 February 2020
Inventoried Roadless Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Juvenile Institution	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Local Conservation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Local Historic or Cultural Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Local Jail or Detention Center	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Local Other or Unknown Local Park	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1 United States Geological Survey - PADUS v2_1	December 2020 December 2020
Local Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS V2_1	December 2020
Local Resource Management Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Military Land	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Museum, Visitor Center, Cultural Center, or Tourist Attraction	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
National Forest or Other Federal Land	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
National Grassland	Avoid- Review Site After Routing for Possible Adjustments	North Dakota GIS Hub	November 2019
National Grassland National Public Lands	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1 United States Geological Survey - PADUS v2_1	December 2020 December 2020
National Public Lands National Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS V2_1	December 2020
National Wildlife Refuge	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Native American Land Area	Avoid- Review Site After Routing for Possible Adjustments	Bureau of Indian Affairs	December 2018
Native American Land Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v1_4	May 2016
Native Prarie Community	Avoid- Review Site After Routing for Possible Adjustments	Minnesota Departmnet of Natural Resources	April 2021
NRIS Cultural Site Nursing Home, Retirement Home, or Home for the Elderly	Avoid- Review Site After Routing for Possible Adjustments	National Parks Service- National Register of Historic Places	November 2020
Nursing Home, Retirement Home, or Home for the Elderly Other Correctional Institution	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER United States Census Bureau- TIGER	February 2020 February 2020
Other Easement	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Other Employment Center	Avoid- Review Site After Routing for Possible Adjustments	United States Ceological Safety - FAOS V2_1 United States Ceological Safety - FAOS V2_1	February 2020
Other Park, Forest, or Recreation Area (quasi-public, independent park commission, et	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Park	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Place of Worship	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Private Conservation	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Private Other or Unknown	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Private Park, Forest, or Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER United States Geological Survey - PADUS v2 1	February 2020
Private Recreation or Education Reclamation Land	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1 North Dakota GIS Hub / North Dakota State Bureau of Reclamation Lands	December 2020 September 2020
Reclamation Land Recreation Management Area	Avoid- Review Site After Routing for Possible Adjustments Avoid- Review Site After Routing for Possible Adjustments	North Dakota GIS Hub / North Dakota State Bureau of Reclamation Lands United States Geological Survey - PADUS v2_1	December 2020
Recreation or Education Easement	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS V2_1 United States Geological Survey - PADUS V2_1	December 2020

	Alternative Avoidance Analysis		
Routing Data	Routing Data Classification	Data Source	Vintage
Regional Park, Forest, or Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Research Natural Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
Research or Educational Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
Resource Management Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
Scenic Byway	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Transportation	July 2020
Scenic Byway	Avoid- Review Site After Routing for Possible Adjustments	North Dakota GIS Hub	February 2017
School or Academy	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Shopping Center or Major Retail Center	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Sinkhole Area	Avoid- Review Site After Routing for Possible Adjustments	Iowa Department of Natural Resources	February 2021
Solid Waste Facility	Avoid- Review Site After Routing for Possible Adjustments	North Dakota GIS Hub	April 2019
State Conservation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
State Historic or Cultural Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
State Other or Unknown	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
State Park	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
State Park, Forest, or Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau-TIGER	February 2020
State Recreation Area	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
State Resource Management Area	Low Avoidance- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
State Wilderness	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2 1	December 2020
Superfund Site	Avoid- Review Site After Routing for Possible Adjustments- Review Arsenic Trioxide Boundary from the project data sources in North Dakota.	The Agency for Toxic Substances and Disease Registry	December 2014
Superiora Site	Very triad and possible agency data inaccuracy.	The Agency for Four Substances and Disease negative	becember 2014
Trailer Court or Mobile Home Park	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
University or College	Avoid- Review Site After Routing for Possible Adjustments	United States Census Bureau- TIGER	February 2020
Unknown	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
Unknown Easement	Avoid- Review Site After Routing for Possible Adjustments	United States Geological Survey - PADUS v2_1	December 2020
USACE Reservoirs	Avoid- Review Site After Routing for Possible Adjustments	United States Army Corps of Engineers	August 2020
Waterfowl Production Area	Avoid- Review Site After Routing for Possible Adjustments	North Dakota GIS Hub	November 2019
Wellhead Protection Area	Avoid- Review Site After Routing for Possible Adjustments	Minnesota Deprtment of Health	July 2019
Wild and Scenic River	Avoid- Review Site After Routing for Possible Adjustments	Minnestoa Department of Natural Resources	November 2006
Wildlife Management Area	Avoid- Review Site After Routing for Possible Adjustments	North Dakota GIS Hub	September 2020
andslide Risk	High to High Moderate Susceptibility- Avoid. Review existing pipelines in the area for any potential previous constraints.	United States Geological Survey	2001
2vee	Avoid	Federal Emergency Management Agency / National Flood Hazard Layer	2021
IHD Flowline	Artificial Path, Stream or River- Perrennial (Avoid) ; Canal/Ditch- (Low Avoidance) ; Connector- (Low Avoidance) ; Stream or River- Ephemeral	United States Geological Survey	June 2020
	(Low Avoidance) : Stream or River- Intermittent (Low Avoidance) : Water Pipeline - Underground (Avoid)		
HD Waterbody	Pond- Low Avoidance ; Lake- Avoid ; Swamp/Marsh- Avoid ; Reservoir- Avoid	United States Geological Survey	June 2020
WI Wetland	Freshwater Emergent Wetland- Low Avoidance ; Freshwater Forested/Shrub Wetland- Avoid ; Freshwater Pond- Low Avoidance ; Lake- Avoid ;	United States Fish and Wildlife Services	October 2020
eak Ground Acceleration	Riverine-Avoid	National Atlas of the United States	2012
HMSA HCAs	Avoid Areas of High/Active PGA	National Atlas of the United States	2012
Other Populated Area	Avoid	Pipeline and Hazardous Materials Safety Administration - National Pipeline Mapping System	February 2017
Highly Populated Area	Avoid		December 2017
owerlines		Pipeline and Hazardous Materials Safety Administration - National Pipeline Mapping System	June 2021
ercent Side Hill Slope	Low Avoidance for Crossings. Identify and review high voltage powerline crossings.	Rextag	Varies
ercent side hill slope	0-15% Preferred; 15-20% Low Avoidance ; 20-30% Avoid ; >30% Avoid	United States Department of Agriculture/United States Geological Survey/Natural Resource Conservation Service- National Geospatial Center of Excellence	Valies
SURGO Soils	Crossing Tables Only- Review For Possible Issues Before Issuing Route	United States Department of Agriculture/United States Geological Survey/Natural Resource Conservation Service- National	Varies
		Geospatial Center of Excellence	
tate Legislative Boundaries	Crossing Tables Only- Review For Possible Issues Before Issuing Route	United States Census Bureau- TIGER	December 2019
ransportation	Bike Path or Trail- Low Avoidance ; Local Neighborhood Road, Rural Road, City Street- Low Avoidance ; Primary Road- Avoid ; Private Road- Low	United States Census Bureau- TIGER	February 2020
	Avoidance : Railroad- Avoid : Ramo- Avoid : Secondary Road- Avoid : Walkway/Pedestrian Trail- Low Avoidance		
/atershed	Crossing Tables Only- Review For Possible Issues Before Issuing Route	United States Geological Survey	February 2020
.S.A.C.E District	Crossing Tables Only- Review For Possible Issues Before Issuing Route	United States Army Corps of Engineers	January 2021
J.S.F.W.S Regional Boundary	Crossing Tables Only- Review For Possible Issues Before Issuing Route	United States Fish and Wildlife Services	May 2021