



Spire STL Pipeline Project

July Supplement

FERC Docket Nos. CP17-40-000 and CP17-40-001

July 2017

Public



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Preface

Spire STL Pipeline, LLC (“Spire”) is submitting this Supplement to its Amendment Certification application (filed April 21, 2017; Federal Energy Regulatory Commission (“FERC”) Docket Nos. CP17-40-000 and CP17-40-001) to provide updated information on the proposed Spire STL Pipeline Project (“Project”) located in Scott, Greene, and Jersey Counties, Illinois, and St. Charles and St. Louis Counties, Missouri. Minor route and workspace changes are proposed that were derived from factors such as the results of biological and cultural resource surveys, adjustments based on rectified property boundaries, and geotechnical investigations. Overall, these changes resulted in minimal changes to the Project’s overall footprint. The area affected by construction is estimated to decrease by approximately one acre, and the area affected by operation is estimated to increase by approximately 0.3-acre.

A list of each Project change by milepost with a justification for each change is enclosed. In addition, a description of the information included with this filing is provided below.

Resource Report 1– General Project Description

- Table 1.6-1, Environmental Permits, Approvals and Consultation, was revised to reflect adjusted dates for pending submittals and approvals.
- Select sheets from Appendix 1-B, Construction Alignment Sheets, have been updated to include environmental survey data not previously filed, along with the changes to the Project. Survey data has been included from February 2017 through June 2017.
- Appendix 1-C, Agency Correspondence, includes correspondence not previously filed with the FERC. A summary of new correspondence by agency is included below. Correspondence containing privileged information is included under separate cover.
 - United States Army Corps of Engineers: Submittal of revised Nationwide Permit application and Section 10 request.
 - United States Fish and Wildlife Service: Reporting and coordination on species-specific surveys.
 - Illinois Department of Natural Resources: Reporting and coordination on species-specific surveys.
 - Illinois Department of Agriculture: Copy of related FERC data request response (June 2017).
 - Illinois Historic Preservation Agency: Coordination and reporting on cultural resource surveys.
 - Illinois Environmental Protection Agency (“IEPA”): Submittal of revised Nationwide Permit Joint Permit Application.
 - Missouri Department of Natural Resources: Submittal of revised Nationwide Permit application and application for 401 Water Quality Certification.



- Missouri State Historic Preservation Office: Coordination and reporting on cultural resource surveys.
- Missouri Department of Agriculture: Confirmation that no further coordination with the agency is required.
- Jersey County, Illinois: Coordination regarding local permits.
- St. Charles, County, Missouri: Coordination regarding local permits.
- St. Louis County, Missouri: Coordination regarding local permits.
- Native American Tribes: Communication with Quapaw Tribe regarding correspondence requests, and submittal of Phase I Addendum and Phase II Reports to tribes, where requested.
- Appendix 1-D, Exceptions to the FERC Plan and Procedures, has been updated to reflect the changes to the Project as well as environmental survey data collected through June 2017.
- Revised sheets for the proposed Laclede/Lange Delivery Station and Chain of Rocks Station are included in Appendix 1-F, Typical Facility Plot Plans. Revisions workspace changes and a minor reroute on the North County Extension on the approach to the Chain of Rocks Station.
- Appendix 1-G, Landowner Line List, was revised based on the current Project route and construction work area. This appendix contains privileged information and is included under separate cover.
- Appendix 1-I, Stakeholder Lists, was updated based on changes to agency and other contacts.

Resource Report 2 – Water Use and Quality

- Table 2.2-1, Incomplete Environmental Survey Status, was updated based on environmental surveys completed through June 2017.
- Table 2.2-2, Waterbodies Crossed by the Project; Table 2.3-1, Wetlands Crossed by the Project; and Table 2.3-2, Summary of Wetlands Affected by Construction and Operation of the Project, were updated based on environmental surveys completed through June 2017, as well as the changes to Project workspaces reported herein.
- Appendix 2-D, Site-Specific Waterbody Drawings, includes revised drawings for the Mississippi River, Missouri River, and Spanish Lake Park horizontal directional drills (“HDDs”) based on minor changes to the Project alignment.
- An addendum to Appendix 2-F, Wetland Delineation and Stream Identification Report, is included based on environmental survey data not previously filed.



Resource Report 3 – Fish, Wildlife, and Vegetation

- Appendix 3-B, Species Specific Reports for Rare, Threatened and Endangered Species, includes survey reports for Eastern Prairie Fringed Orchid, Mead’s Milkweed, Large ground-plum, and threatened and endangered bat species. This appendix contains privileged information and is included under separate cover.
- Attachment 1, Biological Assessment, has been prepared to review the extent to which the Project may affect any rare, threatened, or endangered species of plants or wildlife. This attachment contains privileged information and is included under separate cover.

Resource Report 4 – Cultural Resources

- Table 4.3-1, Incomplete Cultural Resource Survey Status, and Table 4.3-3, Archaeological Resources Identified within the APE, were updated based on cultural resource surveys completed through June 2017, as well as the changes to Project workspaces reported herein.
- Appendix 4-A, Illinois Cultural Resources Report, includes the Phase I Addendum II survey report. This appendix contains privileged information and is included under separate cover.
- Appendix 4-B, Missouri Cultural Resources Report, includes a revised Phase I survey report and the Phase I Addendum II survey report. This appendix contains privileged information and is included under separate cover.
- Appendix 4-E, Phase II Report: Site No. 11JY751, includes Phase II survey results. This appendix contains privileged information and is included under separate cover.
- Appendix 4-F, Illinois Phase II Report: Site No. 11JY765, includes Phase II survey results. This appendix contains privileged information and is included under separate cover.

Resource Report 6 – Geological Resources

- Appendix 6-B, Geotechnical Investigations Report, includes the results of investigations for the Coldwater Creek and Spanish Lake Park HDDs completed to date. This appendix contains privileged information and is included under separate cover.

Resource Report 8 – Land Use, Recreation, and Aesthetics

- Appendix 8-C, Site-Specific Residential Construction Details, are included to reflect Project changes at one residence at Milepost (“MP”) 58.7 of the 24-inch pipeline and one residence at MP 6.0R of the North County Extension.
- Appendix 8-D, Land Use Mapping, was updated to reflect the Project workspace changes. A complete set of maps is included for convenience.



Resource Report 9 – Air and Noise Quality

- Table 9.2-1, Measured Ambient Noise Levels, was corrected to resolve minor discrepancies with the noise survey data forms.
- Appendix 9-D, Pre-Construction Noise Survey Data, includes data forms for ambient noise studies at the Chain of Rocks Station – West location, which were not previously filed with the FERC.



List of Project Changes by Milepost

Facility and Approximate MP	Description of Change ^{1,2}	Justification	Drawing Number ³	Alignment Sheet Hexagon Number ⁴
24-Inch Pipeline				
0.2R	Updated design factor, construction method and material band.	Based on open cut road crossing (as filed April 21, 2017).	STLP-A-001	-
1.6R	Construction right-of-way neckdown removed to increase to 90 feet.	No environmental feature found during field study.	STLP-A-003.1	1
10.3	Construction right-of-way neckdown removed to increase to 90 feet.	Crossing of environmental feature found during study is less than 75 feet.	STLP-A-012	2
18.7R	Construction right-of-way neckdown adjusted.	Location of environmental feature confirmed during field study.	STLP-A-022, STLP-A-021	3
25.8R	Construction right-of-way neckdown added to decrease to 75 feet.	Environmental feature confirmed during field study.	STLP-A-030, STLP-031, STLP-AR-002	4
31.0 - 35.0	Minor centerline alignment, construction workspace and ATWS adjustments. Access road PAR-024 shifted. Changes between the current route and Spire's previously filed (April 2017) are minimal and are, therefore, not visible at the scale of the drawings.	Updated based on most recent right-of-way information and property boundary data.	STLP-A-036, STLP-A-037, STLP-A-038, STLP-A-039, STLP-A-040, STLP-SS-006	5
35.1R	ATWS-846 removed.	Maintain 50-foot offset from wetland.	STLP-A-040	6
35.2R	ATWS-288 widened.	Compensate for removal of ATWS-846.	STLP-A-040	7
35.2R	Temporary workspace reduced.	Adhere to 75-foot-wide construction right-of-way in wetland.	STLP-A-040	7
35.2R	ATWS-636 widened.	Compensate for removal of ATWS-848.	STLP-A-040	8
35.3R	ATWS-848 removed.	Maintain 50-foot offset from stream.	STLP-A-041	9
35.4R	ATWS-851 shifted.	Maintain 50-foot offset from wetland.	STLP-A-041	10
35.5R	ATWS-852, ATWS-853, and ATWS-854 shifted.	Maintain 50-foot offset from stream.	STLP-A-041	11
35.7R	Construction right-of-way neckdown added to decrease to 75 feet.	Location of environmental feature confirmed during field study.	STLP-A-041	12
36.2R	ATWS-855 split (now ATWS-855 and ATWS-923).	Maintain 50-foot offset from wetland.	STLP-A-041	13
36.4R	ATWS-856 reduced.	Maintain 50-foot offset from stream confirmed during field study.	STLP-A-041	14
36.6R	ATWS-857 shifted.	Maintain 50-foot offset from stream confirmed during field study.	STLP-A-042	15
36.6R	Access road TAR-015 shifted.	Adjusted to meet ATWS-857 shift.	STLP-A-042, STLP-AR-003	15
36.6R	ATWS-869 shifted.	Maintain 50-foot offset from stream confirmed during field study.	STLP-A-042	15
36.6R	Construction right-of-way neckdown adjusted.	Location of environmental feature confirmed during field study.	STLP-A-042	15
36.6R	ATWS-870 shifted.	Maintain 50-foot offset from stream confirmed during field study.	STLP-A-042	15
36.6R	ATWS-858 shifted.	Maintain 50-foot offset from stream confirmed during field study.	STLP-A-042	15
36.6R	ATWS-871 shifted.	Maintain 50-foot offset from stream confirmed during field study.	STLP-A-042	15
39.1	Updated construction method.	Godar Lane crossing updated to propose open cut.	STLP-A-044	-



List of Project Changes by Milepost (Continued)

Facility and Approximate MP	Description of Change^{1,2}	Justification	Drawing Number³	Alignment Sheet Hexagon Number⁴
24-Inch Pipeline (Continued)				
39.3	ATWS-701 extended.	Topsoil segregation.	STLP-A-045	16
40.5 - 42.3	Minor reroute.	Reduce impacts to environmental resource.	STLP-A-047, STLP-A-048, STLP-A-049	17
40.8R	Access road TAR-016 shifted.	Adjusted to meet minor reroute.	STLP-A-047, STLP-AR-004	17
42.5	Construction right-of-way neckdown removed to increase to 90 feet. Connected ATWS-347 and ATWS-348 into ATWS-348. ATWS-742 and ATWS-743 removed.	No environmental feature found during field study.	STLP-A-049	18
42.6R - 43.1R	Minor reroute.	Avoid impacts to environmental resource.	STLP-A-049	19
43.9 – 46.1	Centerline alignment and construction work area shifts. Includes adjustment to Mississippi River northern HDD workspace (including ATWS-368 and ATWS-369).	Adjustments made to have 50-foot offset from Nustar ammonia line and to have appropriate offsets from streams and wetlands confirmed during field study.	STLP-A-050, STLP-A-051, STLP-A-052, STLP-AR-005, STLP-AR-006, STLP-AR-007, STLP-HDD-003	20
46.3	Construction right-of-way neckdown removed to increase to 90 feet and connected ATWS-748 and ATWS-343.	No environmental feature found during field study.	STLP-A-053	21
57.0 -58.4	Adjustments to Missouri River HDD workspaces, including HDD pullback, and alignment. Changes between the current route and Spire’s previously filed (April 2017) are minimal and are, therefore, not visible at the scale of the drawings.	Accommodate greater depth of HDD below levee per coordination with the Consolidated North County Levee District.	STLP-HDD-005A, STLP-A-067, STLP-A-068	22
58.7	Reduce temporary workspace.	Maintain 10 feet of clearance between construction workspace and residential structure.	STLP-A-068	23
58.8	ATWS-808 removed (adjacent to Laclede/Lange Delivery Station).	Remove workspace spanning Fort Bellefontaine Road.	STLP-A-068, STL-M-200-0200	24
North County Extension				
0.9	Construction right-of-way neckdown added to decrease to 75 feet.	Location of environmental feature confirmed during field study.	STLP-A-1001, STLP-A-1002	1
3.0	Spanish Lake Park HDD pullback reduced.	Bore length shortened due to adjustments at HDD workspace (MP 4.5).	STLP-A-1004	2
4.5	Spanish Lake Park HDD workspace adjusted (including ATWS-902 and ATWS-903).	Adjustment made to improve constructability based on recent geotechnical investigation.	STLP-A-1005	3
6.0R	Minor reroute on approach to Chain of Rocks Station.	Avoid residential structure and minimize impacts by boring Prigge Road.	STLP-A-1007, STL-M-200-0300	4
6.0R	Adjust piping alignment and workspace within Chain of Rocks Station.	Mitigate visual impacts to the Applied Scholastics International parcel. Riverview Drive will be crossed via bore.	STLP-A-1007, STLP-SS-003, STL-M-200-0300, STL-M-200-0301, STL-M-200-0302, STL-M-200-0303	4



List of Project Changes by Milepost (Continued)

Note:

- ¹ This table summarizes changes that have occurred since the amendment Environmental Report was filed on April 21, 2017.
- ² Project changes listed result in negligible impacts and a reduction in the area affected during construction. Overall, the changes listed reduced the acreage affected by construction by approximately one acre, and increased the area affected during operation by 0.3-acre.
- ³ Note: The following drawings are also included as they show updated environmental features based on the field studies: 24-Inch Pipeline sheets STLP-A-043, STLP-A-062, and STLP-A-063; and North County Extension sheets STLP-A-1003 and STLP-A-1006. No centerline or workspace modifications occurred on these drawings.
- ⁴ Hexagon symbols with unique identifiers are included on the construction alignment sheets at locations where changes have occurred to the alignment or workspaces.



TABLES



Table 1.6-1. Environmental Permits, Approvals, and Consultations

Agency or Organization	Permit/Approval	Submittal Date¹ (Anticipated)	Receipt Date¹ (Anticipated)
Federal			
FERC	Certificate of Public Convenience and Necessity	January 2017 April 2017	(December 2017)
United States Fish and Wildlife Service (“USFWS”), Rock Island Field Office	Threatened and Endangered Species Consultation; Migratory Bird Treaty Act, Bald and Golden Eagle Act	June 2016	(December 2017)
USFWS, Columbia Field Office	Threatened and Endangered Species Consultation; Migratory Bird Treaty Act, Bald and Golden Eagle Act	Rock Island will be the lead USFWS office	N/A
United States Army Corps of Engineers (“USACE”), St. Louis District	Section 404, Section 10 [Nationwide Permit (“NWP”) 12]	January 2017 April 2017 July 2017	(January 2018)
	Section 408	January 2017	(January 2018)
	Real Estate Agreement	January 2017	(May 2018)
United States Department of Agriculture	Consultation on Lands Enrolled in Conservation Reserve Program	August 2016	(January 2018)
State-Illinois			
Illinois Department of Natural Resources (“IDNR”)	Statewide Permits #6, #8, and #13	No separate submittal required if general conditions are met.	
	State Species Consultation	June 2016	(August 2017)
	Incidental Take Authorization	(September 2017)	(January 2018)
Illinois Environmental Protection Agency	401 Water Quality Certification (separate submittal required for Section 404 and Section 10 permits; automatic authorization under NWP-12)	January 2017 April 2017 July 2017	(January 2018)
	State Operating Permit for Wastewater Discharges	(August 2017)	(November 2017)
Illinois Historic Preservation Agency (“IHPA”)	Section 106, National Historic Preservation Act (“NHPA”) Clearance	June 2016	(September 2017)



Table 1.6-1. Environmental Permits, Approvals, and Consultations (Continued)

Agency or Organization	Permit/Approval	Submittal Date¹ (Anticipated)	Receipt Date¹ (Anticipated)
State-Illinois (continued)			
Illinois Department of Agriculture (“IDOA”)	AIMA	September 2016	March 2017
Illinois Department of Transportation (“IDOT”)	Utility Permit and Driveway Permit	(August 2017)	(January 2018)
Scott County Highway Department	Utility Permit and Driveway Permit	(September 2017)	(January 2018)
Greene County	Floodplain Permit	(October 2017)	(January 2018)
Greene County Highway Department	Utility Permit and Driveway Permit	(September 2017)	(January 2018)
Jersey County	Floodplain Permit and Stormwater Development Permit	(October 2017)	(January 2018)
Jersey County Highway Department	Utility Permit and Driveway Permit	(September 2017)	(January 2018)
Scott County Road District #2	Road Crossing and Road Use Agreement	(October 2017)	(January 2018)
Roodhouse Township	Road Crossing and Road Use Agreement	(October 2017)	(January 2018)
Whitehall Township	Road Crossing and Road Use Agreement	(October 2017)	(January 2018)
Carrollton Township	Road Crossing and Road Use Agreement	(October 2017)	(January 2018)
Kane Township	Road Crossing and Road Use Agreement	(October 2017)	(January 2018)
English Township	Road Crossing and Road Use Agreement	(October 2017)	(January 2018)
Otter Creek Township	Road Crossing and Road Use Agreement	(October 2017)	(January 2018)
Elsah Township	Road Crossing and Road Use Agreement	(October 2017)	(January 2018)
Kansas City Southern Railroad	Utility Permit and Right of Entry Permit	June 2017	(January 2018)



Table 1.6-1. Environmental Permits, Approvals, and Consultations (Continued)

Agency or Organization	Permit/Approval	Submittal Date ¹ (Anticipated)	Receipt Date ¹ (Anticipated)
State-Missouri			
Missouri Department of Natural Resources ("MDNR"), St. Louis Regional Office	Individual 401 Water Quality Certification	April 2017 July 2017	(July 2017)
	Hydrostatic Discharge Permit	(October 2017)	(November 2017)
	Water Withdrawal Registration	(October 2017)	(October 2017)
	Land Disturbance Permit	Oil and gas activities are exempt from submitting for NPDES Construction Stormwater Permit provided that FERC Plan and Procedures and State Best Management Practices are incorporated into construction activities.	
Missouri Department of Conservation ("MDOC")	State listed species consultation	June 2016	(August 2017)
	Special Use Permit (submit notice 30 days prior to activity)	(October 2017)	N/A
Missouri State Historic Preservation Office ("MO SHPO")	Section 106, NHPA clearance	June 2016	(September 2017)
Consolidated North County Levee District	Letter of Endorsement	January 2017	(January 2018)
Missouri Department of Transportation ("MoDOT")	Utility Permit	(August 2017)	(January 2018)
St. Louis County	Floodplain Permit and Land Disturbance Permit	(October 2017)	(December 2017)
	Building and Zoning Permits and Land Use Permit	(September 2017)	(January 2018)
St. Louis County Highway Department	Utility Permit and Driveway Permit	(September 2017)	(January 2018)
St. Charles County	Floodplain Permit and Land Disturbance Permit	(October 2017)	(December 2017)
	Building and Zoning Permits	(September 2017)	(January 2018)
St. Charles County Highway Department	Utility Permit and Driveway Permit	(September 2017)	(January 2018)
Burlington Northern & Santa Fe Railroad	Utility Permit, Right of Entry Permit, Private Road Crossing Permit, and Structure Crossing Permit	June 2017	(January 2018)

Notes:

N/A - Not Applicable.

¹ Submittal dates and anticipated permit receipt dates are based on schedules discussed with the regulatory agencies.



Table 2.2-1. Incomplete Environmental Survey Status

Facility/County, State	Approximate MP In	Approximate MP Out	Reason for Incomplete Survey ¹	Survey Needed
24-Inch Pipeline				
Greene and Jersey Counties, Illinois	32.4	33.8	Pending Survey Permission	Centerline
Jersey County, Illinois	34.4	34.7	Pending Survey Permission	Centerline
St. Charles County, Missouri	51.1	51.1	Pending Survey Permission ²	Centerline (Railroad Right-of-Way)
St. Charles County, Missouri	56.9	57.1	Pending Survey (crop restrictions; survey after harvest)	HDD Pullback Extension
North County Extension				
St. Louis County, Missouri	2.0	2.3	Pending Survey ³	Centerline
St. Louis County, Missouri	2.7	3.9	Pending Survey ³	Centerline/ATWS/HDD Pullback
Total Survey Remaining (in miles)	3.4			

Notes:

- ¹ Pending Survey Permission - landowners at parcels have not granted survey permission at this time; pending survey-area has been granted permission after harvest.
- ² Railroad right-of-way will be bored under; adjacent workspaces necessary for the crossing were surveyed.
- ³ Survey anticipated July 2017.



Table 2.2-2. Waterbodies Crossed by the Project

Feature ID ¹	MP	Waterbody Name	Flow Regime ²	Average Bank to Bank (Channel) Width (feet)	Average Water Width (feet)	Pipeline or Access Road Crossing Length (feet) ³	State Water Quality Classification ^{4, 5}	County, State	Fishery Type ⁶	Impaired Designated Use (Identified Pollutant) ⁷	Crossing Method ⁸
24-Inch Pipeline											
SIL-JJP-003	1.3	Unnamed Tributary ("UNT") to Little Sandy Creek	IT	10	2	10	GEN, PFPWS	Scott, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-147	1.9R	UNT to Little Sandy Creek	E	4	0	4	GEN, PFPWS	Scott, Illinois	WWF	No	Dry Ditch Flume
SIL-CDK-033	2.7	UNT to Little Sandy Creek	P	20	17	9	GEN, PFPWS	Scott, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-013	3.4	Little Sandy Creek	P	40	15	30	GEN, PFPWS	Scott, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-010	3.5	UNT to Little Sandy Creek	E	6	0	6	GEN, PFPWS	Scott, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-017	3.6	UNT to Little Sandy Creek	E	2	0	0	GEN, PFPWS	Greene, Illinois	WWF	No	Workspace Only
SIL-TMA-011	3.8	UNT to Little Sandy Creek	IT	8	1.5	8	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-018	4.0	UNT to Little Sandy Creek	P	25	6	19	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-016	4.3	UNT to Little Sandy Creek	IT	8	1	0	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-018	4.3	UNT to Little Sandy Creek	P	9	2	9	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-054	4.3	UNT to Little Sandy Creek	E	8	0	0	GEN, PFPWS	Greene, Illinois	WWF	No	Workspace Only
SIL-JJP-026	5.6	UNT to Hurricane Creek	IT	2.5	0	2.5	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-027	5.7	UNT to Hurricane Creek	IT	4	0	4	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-CDK-035	6.3	UNT to Hurricane Creek	IT	4	2	0	GEN, PFPWS	Greene, Illinois	WWF	No	Workspace Only
SIL-TMA-020	6.4	Hurricane Creek	P	12	4	25	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-026	8.8	UNT to Seminary Creek	IT	7	2	7	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume



Table 2.2-2. Waterbodies Crossed by the Project (Continued)

Feature ID ¹	MP	Waterbody Name	Flow Regime ²	Average Bank to Bank (Channel) Width (feet)	Average Water Width (feet)	Pipeline or Access Road Crossing Length (feet) ³	State Water Quality Classification ^{4, 5}	County, State	Fishery Type ⁶	Impaired Designated Use (Identified Pollutant) ⁷	Crossing Method ⁸
24-Inch Pipeline (Continued)											
SIL-JJP-031	10.3	UNT to Seminary Creek	E	4	0	0	GEN, PFPWS	Greene, Illinois	WWF	No	Workspace Only
SIL-TMA-021	10.3	UNT to Seminary Creek	P	30	22	28	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-022	10.8	UNT to Seminary Creek	E	4	0	4	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-024	11.3	UNT to Seminary Creek	E	4	0	4	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-031	13.2	UNT to Apple Creek	P	15	12	14	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-033	13.9	Apple Creek	P	67	35	67	GEN, PFPWS	Greene, Illinois	WWF	Aquatic Life (Dissolved Oxygen) Primary Contact Recreation (Fecal Coliform)	Dry Ditch Flume
SIL-TMA-035	17.1	UNT to Coates Creek	P	3	2	0	GEN, PFPWS	Greene, Illinois	WWF	No	Workspace Only
SIL-TMA-036	17.6	UNT to Coates Creek	P	5	3	5	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-143	18.7 R	Coates Creek	P	15	4	13	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-042	19.1	UNT to Coates Creek	P	6	3.5	6	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-100	19.1	UNT to Coates Creek	E	4	0	0	GEN, PFPWS	Greene, Illinois	WWF	No	Workspace Only
SIL-JJP-110	20.8	UNT to Link Branch	P	7	2.5	7	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-111	20.9	UNT to Link Branch	E	5	0	0	GEN, PFPWS	Greene, Illinois	WWF	No	Workspace Only
SIL-TMA-051	20.9	UNT to Link Branch	IT	6	2	6	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-078	22.4	UNT to Link Branch	IT	2	1.5	2	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume



Table 2.2-2. Waterbodies Crossed by the Project (Continued)

Feature ID ¹	MP	Waterbody Name	Flow Regime ²	Average Bank to Bank (Channel) Width (feet)	Average Water Width (feet)	Pipeline or Access Road Crossing Length (feet) ³	State Water Quality Classification ^{4, 5}	County, State	Fishery Type ⁶	Impaired Designated Use (Identified Pollutant) ⁷	Crossing Method ⁸
24-Inch Pipeline (Continued)											
SIL-CDK-016	23.5	UNT to Macoupin Creek	IT	9	4	9	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-148	25.3R	Macoupin Creek	P	145	0	145	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-141	25.3R	UNT to Macoupin Creek	E	4	2	4	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-104	25.8R	UNT to Macoupin Creek	P	8	3	8	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-145	26.7	UNT to Macoupin Creek	P	4	N/A	4	GEN, PFPWS	Greene, Illinois	WWF	No	Dry Ditch Flume
SIL-DFW-002	31.6	UNT to Wines Branch	IT	3.5	1	3.5	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-DFW-001	31.6	Wines Branch	P	25	3.5	13	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
NHD-761	33.7	UNT to Otter Creek	IT	N/A	N/A	N/A	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-CDK-012	35.2R	UNT to Otter Creek	P	23	12	34	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-117	35.2R	UNT to Otter Creek	E	6	0	6	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-058	35.5R	UNT to Otter Creek	P	8	4	8	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-148A	35.7R	UNT to Otter Creek	E	6	N/A	6	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-060	35.7R	UNT to Otter Creek	IT	8	3	8	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-052	36.3R	UNT to Otter Creek	E	3	N/A	3	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-CDK-022	36.6R	Otter Creek	P	65	20	56	GEN, PFPWS	Jersey, Illinois	WWF	Aquatic Life (Dissolved Oxygen)	Dry Ditch Flume
SIL-JJP-136	38.9	UNT to South Fork Otter Creek	E	4	0	4	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-074	39.0	UNT to South Fork Otter Creek	P	5	2.5	5	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume



Table 2.2-2. Waterbodies Crossed by the Project (Continued)

Feature ID ¹	MP	Waterbody Name	Flow Regime ²	Average Bank to Bank (Channel) Width (feet)	Average Water Width (feet)	Pipeline or Access Road Crossing Length (feet) ³	State Water Quality Classification ^{4, 5}	County, State	Fishery Type ⁶	Impaired Designated Use (Identified Pollutant) ⁷	Crossing Method ⁸
24-Inch Pipeline (Continued)											
SIL-TMA-073	39.0	UNT to South Fork Otter Creek	E	4	0	4	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-134	39.2	UNT to South Fork Otter Creek	P	8	1	8	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-131	39.4	UNT to South Fork Otter Creek	E	4	0	0	GEN, PFPWS	Jersey, Illinois	WWF	No	Workspace Only
SIL-JJP-132	39.4	UNT to South Fork Otter Creek	E	4	0	0	GEN, PFPWS	Jersey, Illinois	WWF	No	Workspace Only
SIL-JJP-130	39.4	UNT to South Fork Otter Creek	P	8	1	8	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-072	39.5	UNT to South Fork Otter Creek	E	3	0	3	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-070	39.6	UNT to South Fork Otter Creek	E	5	0	5	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-127	39.7	UNT to South Fork Otter Creek	E	4	0	4	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-TMA-066	39.8R	UNT to South Fork Otter Creek	P	12	6	13	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-WJW-006	40.9R	UNT to South Fork Otter Creek	IT	5	0.75	5	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-WJW-007	41.0R	UNT to South Fork Otter Creek	IT	5	2	5	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-CDK-001	41.5R	UNT to South Fork Otter Creek	P	25	3	32	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-CDK-002	41.5R	UNT to South Fork Otter Creek	IT	4	2	4	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-CDK-003	41.6R	UNT to South Fork Otter Creek	E	5	0	5	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-WJW-008	42.0R	UNT to South Fork Otter Creek	IT	6	4	6	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-WJW-020	42.0R	UNT to South Fork Otter Creek	IT	8	1	8	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-WJW-009	42.1R	UNT to South Fork Otter Creek	IT	5	0.5	5	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume



Table 2.2-2. Waterbodies Crossed by the Project (Continued)

Feature ID ¹	MP	Waterbody Name	Flow Regime ²	Average Bank to Bank (Channel) Width (feet)	Average Water Width (feet)	Pipeline or Access Road Crossing Length (feet) ³	State Water Quality Classification ^{4, 5}	County, State	Fishery Type ⁶	Impaired Designated Use (Identified Pollutant) ⁷	Crossing Method ⁸
24-Inch Pipeline (Continued)											
SIL-WJW-016	44.2	UNT to Mississippi River	IT	8	0.5	8	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-WJW-014	44.5	UNT to Mississippi River	E	5	0	0	GEN, PFPWS	Jersey, Illinois	WWF	No	Workspace Only
SIL-JJP-209	44.5	UNT to Mississippi River	P	12	4	17	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-WJW-013	44.5	UNT to Mississippi River	E	6	0	0	GEN, PFPWS	Jersey, Illinois	WWF	No	Workspace Only
SIL-JJP-206	44.7	UNT to Mississippi River	E	5	0	5	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-207	44.7	UNT to Mississippi River	E	4	0	0	GEN, PFPWS	Jersey, Illinois	WWF	No	Workspace Only
SIL-JJP-203	44.9	UNT to Mississippi River	IT	5	1.5	5	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-201	45.0	UNT to Mississippi River	IT	6	1	6	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-202	45.0	UNT to Mississippi River	E	2	0.4	0	GEN, PFPWS	Jersey, Illinois	WWF	No	Workspace Only
SIL-WJW-011	45.0	UNT to Mississippi River	P	20	3	176	GEN, PFPWS	Jersey, Illinois	WWF	No	Dry Ditch Flume
SIL-JJP-200	45.1	UNT to Mississippi River	P	5	1	5	GEN, PFPWS	Jersey, Illinois	WWF	No	HDD and Workspace Only
SIL-WJW-010	45.3	Mississippi River	P	4,500	3,020*	3,020*	Illinois: GEN, PFPWS	Jersey, Illinois	WWF	Illinois: Fish Consumption [Polychlorinated Biphenyls ("PCBs") and Mercury], Primary Contact Recreation (Fecal Coliform)	HDD
							Missouri: LWV, AQL, WBC-Category A, SCR, DWS, IND	St. Charles, Missouri	WWF	Missouri: Category B (<i>E. coli</i>)	



Table 2.2-2. Waterbodies Crossed by the Project (Continued)

Feature ID ¹	MP	Waterbody Name	Flow Regime ²	Average Bank to Bank (Channel) Width (feet)	Average Water Width (feet)	Pipeline or Access Road Crossing Length (feet) ³	State Water Quality Classification ^{4, 5}	County, State	Fishery Type ⁶	Impaired Designated Use (Identified Pollutant) ⁷	Crossing Method ⁸
24-Inch Pipeline (Continued)											
SMO-WJW-001, NHD-924	46.0	Luesse Lake	P	300*	300*	300*	AQL, WBC - Category B, SCR, LWW, IRR	St. Charles, Missouri	WWF	No	HDD
SMO-TMA-008	46.3	UNT to Mississippi River	E	2	0	0	AQL, WBC - Category B, SCR, LWW, IRR	St. Charles, Missouri	WWF	No	Workspace Only
SMO-JJP-030	46.5	UNT to Mississippi River	E	3	0	0	AQL, WBC - Category B, SCR, LWW, IRR	St. Charles, Missouri	WWF	No	Workspace Only
SMO-TMA-011	46.7	UNT to Mississippi River	E	2	0	0	AQL, WBC - Category B, SCR, LWW, IRR	St. Charles, Missouri	WWF	No	Workspace Only
SMO-JJP-004	47.0R	UNT to Mississippi River	E	2	0	2	AQL, WBC - Category B, SCR, LWW, IRR	St. Charles, Missouri	WWF	No	Dry Ditch Flume
SMO-JJP-003	47.7R	UNT to Mississippi River	E	4	0	4	AQL, WBC - Category B, SCR, LWW, IRR	St. Charles, Missouri	WWF	No	Dry Ditch Flume
SMO-TMA-006	47.8R	UNT to Mississippi River	P	60	20	60	AQL, WBC - Category B, SCR, LWW, IRR	St. Charles, Missouri	WWF	No	Dry Ditch Flume
SMO-JJP-001	48.5	UNT to Mississippi River	E	4	0	4	AQL, WBC - Category B, SCR, LWW, IRR	St. Charles, Missouri	WWF	No	Dry Ditch Flume
SMO-TMA-009	49.6	UNT to Mississippi River	E	6	0	6	AQL, WBC - Category B, SCR, LWW, IRR	St. Charles, Missouri	WWF	No	Dry Ditch Flume
SMO-TMA-005	52.0	UNT to Missouri River	E	4	0	4	AQL, WBC - Category B, SCR, LWW, IRR	St. Charles, Missouri	WWF	No	Dry Ditch Flume



Table 2.2-2. Waterbodies Crossed by the Project (Continued)

Feature ID ¹	MP	Waterbody Name	Flow Regime ²	Average Bank to Bank (Channel) Width (feet)	Average Water Width (feet)	Pipeline or Access Road Crossing Length (feet) ³	State Water Quality Classification ^{4, 5}	County, State	Fishery Type ⁶	Impaired Designated Use (Identified Pollutant) ⁷	Crossing Method ⁸
24-Inch Pipeline (Continued)											
SMO-TMA-004	52.1	UNT to Missouri River	E	3	0	3	AQL, WBC - Category B, SCR, LWW, IRR	St. Charles, Missouri	WWF	No	Dry Ditch Flume
SMO-TMA-003	52.2	UNT to Missouri River	E	3	0	2	AQL, WBC - Category B, SCR, LWW, IRR	St. Charles, Missouri	WWF	No	Dry Ditch Flume
SMO-TMA-002	52.3	UNT to Missouri River	E	2	0	2	AQL, WBC - Category B, SCR, LWW, IRR	St. Charles, Missouri	WWF	No	Dry Ditch Flume
PMO-TMA-001	54.5	None	Pond	N/A	N/A	73	N/A	St. Charles, Missouri	WWF	No	Dry Ditch Flume
SMO-TMA-001	57.9	Missouri River (oxbow)	P	175*	165*	345*	AQL, WBC - Category B, SCR, LWW, IRR	St. Charles, Missouri	WWF	No	HDD
SMO-CDK-001	58.2	Missouri River	P	1,335*	1,300*	1,320*	IRR, LWW, AQL, WBC – Category B, SCR, DWS, IND	St. Louis, Missouri	WWF	WBC-Category B (<i>E. coli</i>)	HDD
North County Extension											
SMO-JJP-023	0.6	UNT to Missouri River	E	4	0	0	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	Workspace Only
SMO-JJP-022	0.9	UNT to Missouri River	P	6	2	6	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	Dry Ditch Flume
SMO-JJP-024	1.1	UNT to Missouri River	E	4	0	4	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	Dry Ditch Flume



Table 2.2-2. Waterbodies Crossed by the Project (Continued)

Feature ID ¹	MP	Waterbody Name	Flow Regime ²	Average Bank to Bank (Channel) Width (feet)	Average Water Width (feet)	Pipeline or Access Road Crossing Length (feet) ³	State Water Quality Classification ^{4, 5}	County, State	Fishery Type ⁶	Impaired Designated Use (Identified Pollutant) ⁷	Crossing Method ⁸
North County Extension (Continued)											
SMO-JJP-022	1.1 - 1.2	UNT to Missouri River	P	6	2	35	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	Dry Ditch Flume
SMO-JJP-026	1.2	UNT to Missouri River	E	6	0	6	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	Dry Ditch Flume
SMO-JJP-027	1.2	UNT to Missouri River	E	6	1	6	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	Dry Ditch Flume
SMO-JJP-020	1.9	Coldwater Creek	P	125	80	160	LWW, AQL, WBC - Category B, IND ⁹	St. Louis, Missouri	WWF	AQL (Chloride) and WBC-Category B, SCR (<i>E. coli</i>)	HDD
SMO-JJP-032	2.0	UNT to Coldwater Creek	P	15	4	14	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	HDD
NHD-955	2.9	UNT to Coldwater Creek	IT	N/A	N/A	N/A	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	Dry Ditch Flume
NHD-962	3.4	UNT to Coldwater Creek	IT	N/A	N/A	N/A	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	Dry Ditch Flume
PMO-JJP-001	4.0	Carp Lake	Pond	N/A	N/A	334	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	HDD
PMO-JJP-001	4.1	Sunfish Lake	Pond	N/A	N/A	433	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	HDD



Table 2.2-2. Waterbodies Crossed by the Project (Continued)

Feature ID ¹	MP	Waterbody Name	Flow Regime ²	Average Bank to Bank (Channel) Width (feet)	Average Water Width (feet)	Pipeline or Access Road Crossing Length (feet) ³	State Water Quality Classification ^{4, 5}	County, State	Fishery Type ⁶	Impaired Designated Use (Identified Pollutant) ⁷	Crossing Method ⁸
North County Extension (Continued)											
PMO-JJP-002	4.3	Emerald Greens Golf Course	Pond	N/A	N/A	210	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	HDD
SMO-JJP-015	5.3	UNT to Mississippi River	P	14	5	14	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	Dry Ditch Flume
SMO-JJP-012	5.5	UNT to Mississippi River	P	35	5	40	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	Dry Ditch Flume
SMO-DFW-015	5.9	UNT to Watkins Creek	P	4	2.3	0	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	Workspace Only
SMO-JJP-007	5.9	UNT to Watkins Creek	IT	6	0	0	AQL, WBC - Category B, SCR, LWW, IRR	St. Louis, Missouri	WWF	No	Workspace Only
Laclede/Lange Delivery											
SMO-DFW-002	-	UNT to Missouri River	E	6	0	0	N/A	St. Louis, Missouri	WWF	No	Workspace Only ¹⁰
Access Roads											
SIL-TMA-049	24.8R	UNT to Macoupin Creek	IT	5	1.5	5	GEN, PFPWS	Greene, Illinois	WWF	No	TAR-012 - Existing Road/Stream Culverted
SIL-JJP-104	25.8R	UNT to Macoupin Creek	P	8	3	0	GEN, PFPWS	Greene, Illinois	WWF	No	TAR-018 - Workspace Only



Table 2.2-2. Waterbodies Crossed by the Project (Continued)

Feature ID ¹	MP	Waterbody Name	Flow Regime ²	Average Bank to Bank (Channel) Width (feet)	Average Water Width (feet)	Pipeline or Access Road Crossing Length (feet) ³	State Water Quality Classification ^{4, 5}	County, State	Fishery Type ⁶	Impaired Designated Use (Identified Pollutant) ⁷	Crossing Method ⁸
Access Roads (Continued)											
SIL-JJP-103	26.1	UNT to Macoupin Creek	IT	4	0.5	4	GEN, PFPWS	Greene, Illinois	WWF	No	TAR-014 - Existing Road/Stream Culverted
SIL-TMA-044	26.1	UNT to Macoupin Creek	IT	7	4	7	GEN, PFPWS	Greene, Illinois	WWF	No	TAR-014 - Existing Road/Stream Culverted
SIL-CDK-029	36.6R	UNT to Otter Creek	IT	5	3	5	GEN, PFPWS	Jersey, Illinois	WWF	No	TAR-015 - Existing Access/Stream Culverted
SMO-JJP-002	46.9R	UNT to Mississippi River	E	5	0.2	0	AQL, WBC - Category B, SCR, LWW, IRR	St. Charles, Missouri	WWF	No	PAR-018 – Workspace Only

Notes:

- ¹ Map Designation - the unique code designated to the waterbodies identified during the field surveys. A unique identifier was also assigned to NHD data that was used to supplement field delineations on properties without survey permissions or in areas that are pending studies. Project facilities not listed do not impact streams.
- ² Flow regime based on USGS topographic mapping and onsite field review. IT - Intermittent; E - Ephemeral; and P - Perennial.
- ³ Crossing width is the bank-to-bank width of stream at the pipeline or access road centerline crossing unless noted otherwise. N/A-Not applicable indicates that these waterbodies are desktop identified and therefore no crossing lengths are currently known.
- ⁴ Water quality standards are contained in 35 IAC Section 302. Water use designation and site-specific water quality standards are contained in 35 IAC Section 303. General Use Waters (GEN) - Except as otherwise specifically provided, all waters of the State (Illinois) must meet the general use standards of Subpart B of Part 302. The General Use standards will protect the State's (Illinois) water for aquatic life (except as provided in Section 302.213), wildlife, agricultural use, secondary contact use and most industrial uses and ensure the aesthetic quality of the State's (Illinois) aquatic environment. Public and Food Processing Water Supplies (PFPWS) - Except as otherwise specifically provided and in addition to the general use standards of Subpart B, Part 302, waters of the State shall meet the public and food processing water supply standards of Subpart C, Part 302, at any point at which water is withdrawn for treatment and distribution as potable supply for food processing.
- ⁵ Water quality classifications in Missouri are contained in 10 CSR 20-7.031. Last revised January 29, 2014 (MDNR. 2014. *Water Quality*. Accessed September 2016 from <https://dnr.mo.gov/env/wpp/wqstandards/index.html>). Codes for the designated uses are as follows: IRR - Irrigation, LWW - Livestock & Wildlife Watering, AQL - Protection of Warm Water Aquatic Life and Human Health-Fish Consumption, SCR - Secondary Contact Recreation, DWS - Drinking Water Supply, WBC - Whole Body Contact Recreation, IND - Industrial.



Table 2.2-2. Waterbodies Crossed by the Project (Continued)

- ⁶ Initial consultation with the IEPA have indicated that all waters of Illinois are considered general use waters and no waters of the state are designated as cold water fisheries (IEPA. 2016d. *Water Use Designations and Site-Specific Water Quality Standards*. Accessed September 2016 from <ftp://www.ilga.gov/JCAR/AdminCode/035/03500303sections.html>). Water Quality Standards Table C of Missouri 10CSR20.7 lists Waters Designated for Cold-Water Fisheries (MDNR. 2014. *Water Quality*. Accessed September 2016 from <https://dnr.mo.gov/env/wpp/wqstandards/index.html>). Luesse Lake is contained within the Mississippi River valley and was designated by the NWI layer as a L1UBHH - Lacustrine, Limnetic, Unconsolidated Bottom.
- ⁷ State impaired waters have been defined by the Section 303(d) lists for Illinois (IEPA. 2016c. *Illinois Integrated Water Quality Monitoring and Assessment Report*. Accessed September 2016 from <http://www.epa.illinois.gov/topics/water-quality/watershed-management/tmdls/303d-list/index>) and Missouri (MDNR. 2016d. *Missouri Integrated Water Quality Monitoring and Assessment Report*. Accessed September 2016 from <http://dnr.mo.gov/env/wpp/waterquality/303d/303d.htm>).
- ⁸ With the exception of those listed as HDD, Spire will assume a dry ditch flume crossing method unless the feature has no discernable flow at the time of construction. Conventional open cut method will be employed, where allowable, if the feature is dry.
- ⁹ Classified by the MDNR as a Metropolitan No-Discharge Stream, located in Chapter 7 10 CSR 20-7.031 of the Clean Water Commission created by the MDNR. Last revised January 29, 2014 (MDNR. 2014. *Water Quality*. Accessed September 2016 from <https://dnr.mo.gov/env/wpp/wqstandards/index.html>).
- ¹⁰ Feature avoided by final facility design as shown in Appendix 1-F.
- ¹¹ Measured using aerial photography (2016).



Table 2.3-1 Wetlands Crossed by the Project

Wetland ID ¹	Approximate MP	NWI/Cowardin Classification ²	Source ³	Approximate Crossing Length (feet) ⁴	Area Affected by Permanent Easement (acres) ⁵	Area Affected by ATWS (acres) ⁶	Area Affected by Construction (acres) ⁷	Area Affected by Operation (acres) ⁸	Crossing Method ⁹
24-Inch Pipeline									
<i>Scott County, Illinois</i>									
WIL-JJP-002	1.1	PEM	FD	0	< 0.01	0	< 0.01	0	Workspace Only
WIL-TMA-001	2.2	PEM	FD	84	0.09	0	0.14	0	Open Cut
WIL-TMA-002	3.4	PFO	FD	0	< 0.01	0	< 0.01	0	Workspace Only
WIL-JJP-005	3.4	PFO	FD	39	0.04	0	0.07	0.03	Open Cut
<i>Greene County, Illinois</i>									
WIL-JJP-009	4.4	PEM	FD	0	0	0	< 0.01	0	Workspace Only
WIL-JJP-010	5.1	PEM	FD	0	0	0	0.01	0	Workspace Only
WIL-JJP-012A	5.6	PEM	FD	47	0.04	0	0.08	0	Open Cut
WIL-JJP-012	5.6	PFO	FD	4	< 0.01	0	0.03	< 0.01	Open Cut
WIL-TMA-005	5.7	PEM	FD	11	0.02	0	0.02	0	Open Cut
WIL-JJP-015B	10.8	PEM	FD	6	0.03	0	0.03	0	Open Cut
WIL-JJP-015	10.8	PSS	FD	39	0.04	0	0.05	0.01	Open Cut
WIL-JJP-015A	10.8	PEM	FD	22	0.03	0	0.05	0	Open Cut
WIL-JJP-107	13	PEM	FD	0	0.01	0	0.01	0	Workspace Only



Table 2.3-1 Wetlands Crossed by the Project (Continued)

Wetland ID ¹	Approximate MP	NWI/Cowardin Classification ²	Source ³	Approximate Crossing Length (feet) ⁴	Area Affected by Permanent Easement (acres) ⁵	Area Affected by ATWS (acres) ⁶	Area Affected by Construction (acres) ⁷	Area Affected by Operation (acres) ⁸	Crossing Method ⁹
24-Inch Pipeline (Continued)									
WIL-JJP-101	13.9	PEM	FD	195	0.22	0.00	0.33	0.00	Open Cut
WIL-JJP-101A	13.9	PFO	FD	42	0.05	0.00	0.07	0.03	Open Cut
WIL-JJP-001	14	PEM	FD	46	0.06	0.00	0.07	0.00	Open Cut
WIL-TMA-006	14.1	PEM	FD	72	0.06	0.00	0.20	0.00	Open Cut
WIL-TMA-007	14.3	PEM	FD	22	0.03	0.00	0.04	0.00	Open Cut
WIL-TMA-008	14.4	PEM	FD	307	0.33	0.00	0.49	0.00	Open Cut
WIL-TMA-007	14.4	PEM	FD	29	0.03	0.00	0.05	0.00	Open Cut
WIL-TMA-009	17.1	PEM	FD	62	0.07	0.00	0.11	0.00	Open Cut
WIL-TMA-017	24.6R	PEM	FD	14	0.02	0.00	0.02	0.00	Open Cut
WIL-JJP-120	24.9R	PEM	FD	41	0.05	0.00	0.08	0.00	Open Cut
WIL-TMA-014	25R	PEM	FD	153	0.18	0.00	0.26	0.00	Open Cut
WIL-JJP-121	25R	PEM	FD	4	0.01	0.00	0.01	0.00	Open Cut
WIL-TMA-021	25.8R	PEM	FD	56	0.07	0.00	0.10	0.00	Open Cut
WIL-TMA-018	26.1	PEM	FD	11	0.01	0.00	0.02	0.00	Open Cut
WIL-JJP-122	26.4	PEM	FD	0	< 0.01	0.00	< 0.01	0.00	Workspace Only
WIL-JJP-123	26.7	PEM	FD	76	0.09	0.00	0.13	0.00	Open Cut
<i>Jersey County, Illinois</i>									
WIL-CDK-010	31.9	PEM	FD	70	0.08	0.00	0.12	0.00	Open Cut
WIL-CDK-007	35.2R	PUB	FD	35	0.08	0.00	0.08	0.00	Open Cut



Table 2.3-1 Wetlands Crossed by the Project (Continued)

Wetland ID ¹	Approximate MP	NWI/Cowardin Classification ²	Source ³	Approximate Crossing Length (feet) ⁴	Area Affected by Permanent Easement (acres) ⁵	Area Affected by ATWS (acres) ⁶	Area Affected by Construction (acres) ⁷	Area Affected by Operation (acres) ⁸	Crossing Method ⁹
24-Inch Pipeline (Continued)									
WIL-CDK-008	35.2R	PEM	FD	8	0.01	0.00	0.01	0.00	Open Cut
WIL-JJP-109	35.5R	PEM	FD	0	0.00	0.00	< 0.01	0.00	Workspace Only
WIL-JJP-149	35.5R	PEM	FD	0	< 0.01	0.00	< 0.01	0.00	Workspace Only
WIL-CDK-100	36.2R	PEM	FD	27	0.03	0.00	0.03	0.00	Open Cut
WIL-JJP-151	36.7R	PEM	FD	0	0.01	0.00	0.01	0.00	Workspace Only
WIL-JJP-115	37.2	PEM	FD	28	0.03	0.00	0.05	0.00	Open Cut
WIL-JJP-116	37.2	PEM	FD	9	0.01	0.00	0.03	0.00	Open Cut
WIL-JJP-112	39.1	PEM	FD	0	0.00	0.00	< 0.01	0.00	Workspace Only
WIL-JJP-114	41.2R	PEM	FD	23	0.02	0.00	0.04	0.00	Open Cut
WIL-TMA-028	41.3R	PEM	FD	22	0.01	0.00	0.03	0.00	Open Cut
WIL-DFW-002	43.8	PEM	FD	49	0.03	0.00	0.08	0.00	Open Cut
<i>St. Charles County, Missouri</i>									
WIL-JJP-148	45	PFO	FD	71	0.05	0.20	0.36	0.04	Open Cut
NWI-105	45.7	PFO1Ah	NWI	388	0.53	0.00	0.00	0.00	HDD ¹⁰
WMO-JJP-001A	46	PFO	FD	0	0.02	0.00	0.00	0.00	HDD ¹⁰



Table 2.3-1 Wetlands Crossed by the Project (Continued)

Wetland ID ¹	Approximate MP	NWI/Cowardin Classification ²	Source ³	Approximate Crossing Length (feet) ⁴	Area Affected by Permanent Easement (acres) ⁵	Area Affected by ATWS (acres) ⁶	Area Affected by Construction (acres) ⁷	Area Affected by Operation (acres) ⁸	Crossing Method ⁹
24-Inch Pipeline (Continued)									
WMO-WJW-001	46.1	PFO	FD	331	0.38	0.00	0.00	0.00	HDD ¹⁰
WMO-JJP-012	49.7	PEM	FD	1,491	1.72	0.54	3.38	0.00	Open Cut
WMO-TMA-010	49.9	PEM	FD	359	0.25	0.01	0.26	0.00	Open Cut
WMO-JJP-010	50.2	PEM	FD	67	0.07	0.00	0.11	0.00	Open Cut
WMO-JJP-007	53.9	PEM	FD	555	0.67	< 0.01	0.8	0.00	Open Cut
WMO-JJP-131	54.5	PEM	FD	0	0.00	0.00	<0.01	0.00	Workspace Only
WMO-TMA-006	54.8	PEM	FD	235	0.20	0.12	0.55	0.00	Open Cut
WMO-TMA-005A	55.7	PEM	FD	199	0.24	0.00	0.37	0.00	Open Cut
WMO-TMA-005	55.8	PUB	FD	378	0.43	0.00	0.61	0.00	Open Cut
WMO-JJP-002	56	PEM	FD	0	0.1	0.00	0.10	0.00	Workspace Only
WMO-JJP-005	56.8	PEM	FD	62	0.07	0.00	0.11	0.00	Open Cut
WMO-TMA-004	57.2	PEM	FD	39	0.05	0.00	0.07	0.00	Open Cut
WMO-TMA-003A	57.2	PEM	FD	0	0.00	0.09	0.09	0.00	Workspace Only
WMO-TMA-003	57.2	PUB	FD	0	0.00	0.15	0.15	0.00	Workspace Only
WMO-TMA-002	57.4	PEM	FD	0	0.00	0.13	0.13	0.00	Workspace Only
WMO-TMA-001A	57.9	PFO	FD	140	0.16	0.00	0.00	0.00	HDD ¹⁰



Table 2.3-1 Wetlands Crossed by the Project (Continued)

Wetland ID ¹	Approximate MP	NWI/Cowardin Classification ²	Source ³	Approximate Crossing Length (feet) ⁴	Area Affected by Permanent Easement (acres) ⁵	Area Affected by ATWS (acres) ⁶	Area Affected by Construction (acres) ⁷	Area Affected by Operation (acres) ⁸	Crossing Method ⁹
24-Inch Pipeline (Continued)									
WMO-TMA-001	57.9	PEM	FD	37	0.04	0.00	0.00	0.00	HDD ¹⁰
<i>St. Louis County, Missouri</i>									
WMO-CDK-005	58.3	PEM	FD	0	0	0.01	0.01	0.00	Workspace Only
WMO-CDK-004	58.4	PEM	FD	62	0.03	0.00	0.04	0.00	Open Cut
WMO-CDK-003	58.4	PEM	FD	0	0.00	0.00	0.02	0.00	Workspace Only
North County Extension									
<i>St. Louis County, Missouri</i>									
WMO-JJP-120	0.4	PEM	FD	0.2	< 0.01	0.00	0.01	0.00	Open Cut
WMO-JJP-120	0.4	PFO	FD	22	0.03	0.00	0.05	0.02	Open Cut
WMO-JJP-120	0.5	PEM	FD	131	0.14	0.00	0.21	0.00	Open Cut
WMO-JJP-120	0.5	PFO	FD	96	0.12	0.00	0.17	0.07	Open Cut
WMO-JJP-122	1.1	PEM	FD	0	0.03	0.00	0.03	0.00	Workspace Only
WMO-JJP-123	1.2	PEM	FD	0	0.02	0.00	0.02	0.00	Workspace Only
WMO-JJP-125	1.8	PEM	FD	36	0.02	0.00	0.00	0.00	HDD ¹⁰
WMO-JJP-126	2.4	PEM	FD	28	0.03	0.02	0.06	0.00	Open Cut
WMO-JJP-119	2.6	PEM	FD	156	0.08	0.00	0.15	0.00	Open Cut



Table 2.3-1 Wetlands Crossed by the Project (Continued)

Wetland ID ¹	Approximate MP	NWI/Cowardin Classification ²	Source ³	Approximate Crossing Length (feet) ⁴	Area Affected by Permanent Easement (acres) ⁵	Area Affected by ATWS (acres) ⁶	Area Affected by Construction (acres) ⁷	Area Affected by Operation (acres) ⁸	Crossing Method ⁹
North County Extension (Continued)									
WMO-DFW-002	3.2	PEM	FD	0	0.02	0.00	0.02	0.00	Workspace Only
NWI-204	3.8	PFO1C	NWI	22	0.02	0.01	0.05	0.01	Open Cut
WMO-JJP-132	4.2	PSS	FD	20	0.03	0.00	0.00	0.00	HDD ¹⁰
WMO-JJP-129	4.4	PUB	FD	73	0.10	0.00	0.00	0.00	HDD ¹⁰
WMO-DFW-007	6R	PEM	FD	28	0.04	0.00	0.05	0.00	Open Cut

Notes:

- ¹ Map Designation - the unique code designated to the wetlands identified during the field surveys. A unique identifier was also assigned to National Wetland Inventory (“NWI”) data that was used to supplement field delineations on properties that lack access permission or in areas that are pending delineation data. Facilities not listed (i.e. staging areas, mainline valve sites, and access roads) do not impact wetlands.
- ² Cowardin classification: PEM - Palustrine Emergent; PFO - Palustrine Forested; PSS - Palustrine Scrub-Shrub; and PUB - Palustrine Unconsolidated Bottom.
- ³ FD - Field Delineation. NWI used where field surveys have not been conducted due to lack of access.
- ⁴ Length of Crossing is representative of the centerline crossing length. Where the crossing length is zero, the wetland is crossed by construction workspace but not the pipeline.
- ⁵ Area affected by Permanent Easement is the area of wetlands identified within the 50-foot-wide permanent easement. For example, acreages at HDDs would be visible here but not in the Construction or Operation column where impacts are avoided by the HDD.
- ⁶ Area affected by ATWS is also included within Area Affected by Construction acreages.
- ⁷ Area affected by Construction is the total area of wetland within the construction right-of-way.
- ⁸ Area affected by Operation on PEM and PUB wetlands are 0.0 acres as these wetlands will revert back to the same type following construction. Operational impacts on PSS wetlands in this column are based on a 10-foot-wide operational impact that will be converted to herbaceous wetlands due to pipeline maintenance. Operational impacts on PFO wetlands in this column reflect potential for selective thinning of trees within 15 feet of the pipeline (30-foot-wide operational impact) that have roots that could compromise the integrity of the pipeline coating.
- ⁹ Timber mats will be utilized at saturated wetlands for equipment crossings within the construction right-of-way and access roads. Pipeline crossings will be open cut or trenchless (HDD). "Workspace Only" designates those wetlands within the construction workspace though not crossed by centerline and will be avoided where possible or matted for equipment crossing.
- ¹⁰ Wetland is crossed by the HDD. Spire does not intend to clear vegetation within the permanent right-of-way above the HDD path; therefore impacts to this wetland are not anticipated.



Table 2.3-2. Summary of Wetlands Affected by Construction and Operations

Cowardin and NWI Classification ¹	Length of Each Type Crossed (feet) ²	Area Affected by Permanent Easement (acres) ³	Area Affected by ATWS (acres) ⁴	Area Affected During Construction (acres) ^{5, 6}	Area Affected During Operation (acres) ^{6, 7}
24-Inch Pipeline					
PFO	1,014	1.23	0.20	0.52	0.10
PSS	39	0.04	0.00	0.05	0.01
PEM	4,600	5.14	0.90	8.71	0.00
PUB	413	0.50	0.15	0.83	0.00
Subtotals⁸	6,066	6.91	1.25	10.11	0.11
North County Extension					
PFO	140	0.17	0.00	0.27	0.10
PSS	20	0.03	0.00	0.00	0.00
PEM	379	0.37	0.02	0.55	0.00
PUB	73	0.10	0.00	0.00	0.00
Subtotals⁸	612	0.67	0.02	0.82	0.10
Totals					
Subtotals PFO	1153	1.41	0.20	0.79	0.19
Subtotals PSS	59	0.06	0.00	0.05	0.01
Subtotals PEM	4979	5.51	0.92	9.26	0.00
Subtotals PUB	486	0.60	0.15	0.83	0.00
Totals⁸	6678	7.58	1.27	10.93	0.20

Notes:

- ¹ NWI Wetland Type: PFO - Palustrine Forested; PSS - Palustrine Scrub-Shrub; PEM - Palustrine Emergent; and PUB - Palustrine Unconsolidated Bottom. Facilities not listed do not impact wetlands.
- ² The length of the crossing was calculated from field delineated or NWI polygons, rounded to the nearest foot. These may not equal the sum of this column due to rounding.
- ³ Area affected by Permanent Easement is the area of wetland identified at the 50-foot-wide permanent easement, which includes the permanent easement above the path of the HDD where impacts are avoided.
- ⁴ Area at ATWS is also included within Area Affected by Construction acreages.
- ⁵ Area affected by construction is the total area of wetland within the construction right-of-way.
- ⁶ Excludes wetlands avoided by trenchless crossings (HDDs).
- ⁷ Area affected by operation on PEM wetlands are zero acres as these wetlands will revert back to the same type following construction. Operational impacts on PSS wetlands in this column are based on a 10-foot-wide operational impact that will be converted to herbaceous wetlands due to pipeline maintenance. Operational impacts on PFO wetlands in this column reflect potential for selective thinning of trees within 15 feet of the pipeline (30-foot-wide operational impact) that have roots that could compromise the integrity of the pipeline coating.
- ⁸ May not equal the sum of the column due to rounding.



Table 4.3-1. Incomplete Cultural Resource Survey Status

Facility/County, State	Approximate MP In	Approximate MP Out	Reason for Incomplete Survey ¹	Survey Need
24-Inch Pipeline				
Greene County, Illinois	9.1	9.2	Pending Survey (crop restrictions; survey after harvest)	New ATWS
Jersey County, Illinois	32.4	32.9	Pending Survey Permission	Centerline
Jersey County, Illinois	40.2R	40.3	Pending Survey Permission	Centerline
Jersey County, Illinois	43.9	45.1	Pending Survey Permission	Centerline, New ATWS, and Access Road
St. Charles County, Missouri	48.6	48.7	Pending Survey Permission	Centerline
St. Charles County, Missouri	56.9	57.1	Pending Survey (crop restrictions; survey after harvest)	HDD Pullback Extension
North County Extension				
St. Louis County, Missouri	2.0	2.3	Pending Survey Data	Centerline
St. Louis County, Missouri	2.7	3.9	Pending Survey Data	Centerline (sporadic testing between MP 3.0 and 3.2), Centerline (outside construction ROW), and ATWS
Total Survey Remaining	2.2 Miles (approximate)²			

Notes

- ¹ Pending Survey Permission - landowners at parcels have not granted cultural resources survey permission at this time; Pending Survey Data – area has been surveyed recently and survey data is currently being processed; Pending Survey – area has been granted permission after harvest.
- ² Total survey miles remaining includes areas "pending survey permission" and "pending survey"; the total does not include "pending survey data" mileage for which survey is already complete at.



Table 4.3-3. Archaeological Resources Identified within the APE

Facility, County, and Resource ID	Site ID #	Resource Type	Temporal Affiliation	Applicant NRHP Assessment	Avoided (Y or N)	Applicant Recommendations	SHPO Comments
24-Inch Pipeline							
<i>Scott County, Illinois</i>							
FD#203	11ST622	Site	Precontact	Not Eligible	N	No further study	TBD
FD#202	11ST621	Site	Precontact	Not Eligible	N	No further study	TBD
FD#201	11ST620	Site	Precontact	Not Eligible	N	No further study	TBD
FD#200	11ST619	Site	Precontact	Not Eligible	N	No further study	TBD
FD#199	11ST618	Site	Precontact	Not Eligible	N	No further study	TBD
FD#204	11ST623	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#198	11ST617	Site	Precontact	Not Eligible	N	No further study	TBD
FD#1	11ST603	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#2	11ST604	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#5	11ST612	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#6	11ST614	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#7	11ST616	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#8	11ST606	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#9	11ST608	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#10	11ST609	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#11	11ST607	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#12	11ST611	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#13	11ST610	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#14	11ST605	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#205	11ST624	Site	Precontact	Not Eligible	N	No further study	TBD



Table 4.3-3. Archaeological Resources Identified within the APE (Continued)

Facility, County, and Resource ID	Site ID #	Resource Type	Temporal Affiliation	Applicant NRHP Assessment	Avoided (Y or N)	Applicant Recommendations	SHPO Comments
24-Inch Pipeline (Continued)							
FD#206	11ST625	Site	Precontact	Not Eligible	Y	No further study	TBD
FD#207	11ST626	Site	Precontact	Not Eligible	N	No further study	TBD
FD#208	11ST627	Site	Precontact	Not Eligible	N	No further study	TBD
<i>Greene County, Illinois</i>							
FD#209	11ST628	Site	Precontact	Not Eligible	Y	No further study	TBD
FD#210	11GE822	Site	Precontact	Not Eligible	N	No further study	TBD
FD#211	11GE812	Site	Precontact	Not Eligible	N	No further study	TBD
FD#15	11GE752	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#16	11GE728	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#17	11GE727	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#19	11GE804	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#18	11GE729	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#20	11GE808	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#21	11GE719	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#22	11GE726	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#24	11GE807	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#23	11GE725	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#25	11GE806	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#26	11GE805	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#27	11GE720	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#28	11GE721	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations



Table 4.3-3. Archaeological Resources Identified within the APE (Continued)

Facility, County, and Resource ID	Site ID #	Resource Type	Temporal Affiliation	Applicant NRHP Assessment	Avoided (Y or N)	Applicant Recommendations	SHPO Comments
24-Inch Pipeline (Continued)							
FD#29	11GE722	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#30	11GE730	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#31	11GE734	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#32	11GE733	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#33	11GE736	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#34	11GE735	Site	Precontact and Historic	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#35	11GE803	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#36	11GE759	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#37	11GE781	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#38	11GE783	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#39	11GE784	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#40	11GE786	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#41	11GE785	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#42	11GE787	Site	Precontact and Historic	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#43	11GE782	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#44	11GE788	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#45	11GE789	Site	Precontact	Potentially Eligible	Y	No effect; avoided by construction right-of-way; No further study	IHPA concurs with applicant recommendations
FD#46	11GE790	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#47	11GE765	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations



Table 4.3-3. Archaeological Resources Identified within the APE (Continued)

Facility, County, and Resource ID	Site ID #	Resource Type	Temporal Affiliation	Applicant NRHP Assessment	Avoided (Y or N)	Applicant Recommendations	SHPO Comments
24-Inch Pipeline (Continued)							
FD#48	11GE763	Site	Historic	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#49	11GE760	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#50	11GE762	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#53	11GE791	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#54	11GE794	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#55	11GE802	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#56	11GE795	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#57	11GE796	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#58	11GE797	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#59	11GE798	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#60	11GE799	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#61	11GE800	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#62	11GE801	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#63	11GE793	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#64	11GE792	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#65	11GE764	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#66	11GE775	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#212	11GE819	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#213	11GE820	Isolated Find	Precontact	Not Eligible	Y	No further study	TBD
FD#214	11GE747	Site	Precontact and Historic	Not Eligible	N	No further study	TBD
FD#67	11GE746	Site	Precontact and Historic	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations



Table 4.3-3. Archaeological Resources Identified within the APE (Continued)

Facility, County, and Resource ID	Site ID #	Resource Type	Temporal Affiliation	Applicant NRHP Assessment	Avoided (Y or N)	Applicant Recommendations	SHPO Comments
24-Inch Pipeline (Continued)							
FD#68	11GE744	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#69	11GE743	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#70	11GE741	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#71	11GE742	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#72	11GE740	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#73	11GE739	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#74	11GE745	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#75	11GE737	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#215	11GE821	Isolated Find	Precontact	Not Eligible	Y	No further study	TBD
FD#76	11GE738	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#77	11GE768	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#78	11GE766	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#79	11GE767	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#80	11GE769	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#81	11GE731	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#82	11GE751	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#83	11GE748	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#84	11GE749	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#85	11GE750	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#86	11GE723	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#87	11GE732	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations



Table 4.3-3. Archaeological Resources Identified within the APE (Continued)

Facility, County, and Resource ID	Site ID #	Resource Type	Temporal Affiliation	Applicant NRHP Assessment	Avoided (Y or N)	Applicant Recommendations	SHPO Comments
24-Inch Pipeline (Continued)							
FD#89	11GE773	Site	Precontact and Historic	Potentially Eligible	Y	No effect; avoided by construction right-of-way; No further study	IHPA concurs with applicant recommendations
FD#91	11GE753	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#92	11GE754	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#95	11GE757	Site	Precontact	Potentially Eligible	Y	No effect; avoided by construction right-of-way; No further study	IHPA concurs with applicant recommendations
FD#216	11GE810	Site	Precontact	Not Eligible	N	No further study	TBD
FD#96	11GE758	Site	Precontact	Potentially Eligible	Y	No effect; avoided by construction right-of-way; No further study	IHPA concurs with applicant recommendations
FD#217	11GE813	Site	Precontact	Not Eligible	Y	No further study	TBD
FD#218	11GE818	Site	Precontact	Not Eligible	Y	No further study	TBD
FD#100	11GE779	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#101	11GE780	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#219	11GE809	Site	Precontact	Not Eligible	N	No further study	TBD
FD#102	11GE755	Site	Historic	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#103	11GE771	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#104	11GE770	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
<i>Jersey County, Illinois</i>							
FD#105	11JY659	Site	Historic	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#106	11JY653	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#107	11JY654	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations



Table 4.3-3. Archaeological Resources Identified within the APE (Continued)

Facility, County, and Resource ID	Site ID #	Resource Type	Temporal Affiliation	Applicant NRHP Assessment	Avoided (Y or N)	Applicant Recommendations	SHPO Comments
24-Inch Pipeline (Continued)							
FD#108	11JY655	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#110	11JY658	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#111	11JY657	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#112	11JY656	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#113	11JY665	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#114	11JY696	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#220	11JY748	Site	Precontact	Not Eligible	Y	No further study	TBD
FD#115	11JY695	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#116	11JY709	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#117	11JY710	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#118	11JY711	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#221	11JY743	Isolated Find	Precontact	Not Eligible	Y	No further study	TBD
FD#222	11JY730	Site	Precontact	Not Eligible	N	No further study	TBD
FD#223	11JY747	Site	Precontact	Not Eligible	Y	No further study	TBD
FD#121	11JY714	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#224	11JY746	Site	Precontact	Not Eligible	N	No further study	TBD
FD#225	11JY745	Site	Precontact	Not Eligible	N	No further study	TBD
FD#226	11JY744	Site	Precontact	Not Eligible	Y	No further study	TBD
FD#227	11JY721	Site	Precontact	Not Eligible	Y	No further study	TBD
FD#228	11JY722	Site	Precontact	Not Eligible	N	No further study	TBD
FD#229	11JY738	Site	Precontact	Not Eligible	Y	No further study	TBD
FD#230	11JY740	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations



Table 4.3-3. Archaeological Resources Identified within the APE (Continued)

Facility, County, and Resource ID	Site ID #	Resource Type	Temporal Affiliation	Applicant NRHP Assessment	Avoided (Y or N)	Applicant Recommendations	SHPO Comments
24-Inch Pipeline (Continued)							
FD#231	11JY739	Site	Precontact	Not Eligible	N	No further study	TBD
FD#232	11JY736	Site	Precontact	Not Eligible	Y	No further study	TBD
FD#233	11JY734	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#130	11JY705	Site	Historic	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#131	11JY706	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#132	11JY707	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#133	11JY708	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#134	11JY663	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#135	11JY681	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#136	11JY679	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#137	11JY674	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#138	11JY675	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#139	11JY676	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#140	11JY677	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#141	11JY678	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#142	11JY702	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#143	11JY703	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#144	11JY701	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#145	11JY704	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#146	11JY683	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#148	11JY684	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#149	11JY688	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations



Table 4.3-3. Archaeological Resources Identified within the APE (Continued)

Facility, County, and Resource ID	Site ID #	Resource Type	Temporal Affiliation	Applicant NRHP Assessment	Avoided (Y or N)	Applicant Recommendations	SHPO Comments
24-Inch Pipeline (Continued)							
FD#150	11JY685	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#151	11JY693	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#152	11JY694	Isolated Find	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#153	11JY686	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#154	11JY689	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#155	11JY690	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#156	11JY691	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#157	11JY692	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#158	11JY687	Site	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#159	11JY669	Isolated Find	Precontact	Not Eligible	Y	No further study	IHPA concurs with applicant recommendations
FD#160	11JY667	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#161	11JY668	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#162	11JY664	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#163	11JY718	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#164	11JY717	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#165	11JY670	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#166	11JY660	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#167	11JY671	Site	Precontact and Historic	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#168	11JY673	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#169	11JY672	Site	Precontact	Not Eligible	N	No further study	IHPA concurs with applicant recommendations
FD#170	11JY666	Site	Precontact and Historic	Not Eligible	N	No further study	IHPA concurs with applicant recommendations



Table 4.3-3. Archaeological Resources Identified within the APE (Continued)

Facility, County, and Resource ID	Site ID #	Resource Type	Temporal Affiliation	Applicant NRHP Assessment	Avoided (Y or N)	Applicant Recommendations	SHPO Comments
24-Inch Pipeline (Continued)							
FD#245	11JY774	Site	Precontact	Not Eligible	N	No further study	TBD
FD#246	11JY752	Site	Precontact	Not Eligible	Y	No further study	TBD
FD#247	11JY753	Site	Precontact	Not Eligible	N	No further study	TBD
FD#248	11JY750	Site	Precontact	Not Eligible	N	No further study	TBD
FD#249	11JY751	Site	Precontact	Potentially Eligible	N	Avoidance or Phase II evaluation	Evaluation in Progress
FD#250	11JY777	Site	Precontact and Historic	Not Eligible	N	No further study	TBD
FD#251	11JY778	Site	Precontact and Historic	Potentially Eligible	Y (Via Timber Mattin g)	Avoidance or Phase II evaluation	TBD
FD#252	11JY760	Site	Precontact and Historic	Not Eligible	N	No further study	TBD
FD#253	11JY761	Isolated Find	Precontact	Not Eligible	Y	No further study	TBD
FD#254	11JY759	Site	Precontact and Historic	Not Eligible	N	No further study	TBD
FD#255	11JY754	Site	Precontact	Not Eligible	N	No further study	TBD
FD#256	11JY755	Site	Precontact	Not Eligible	N	No further study	TBD
FD#257	11JY779	Site	Precontact	Not Eligible	N	No further study	TBD
FD#258	11JY780	Site	Precontact and Historic	Not Eligible	N	No further study	TBD
FD#259	11JY758	Site	Precontact	Not Eligible	N	No further study	TBD
FD#260	11JY765	Site	Precontact	Potentially Eligible	N	Avoidance or Phase II evaluation	Evaluation in Progress



Table 4.3-3. Archaeological Resources Identified within the APE (Continued)

Facility, County, and Resource ID	Site ID #	Resource Type	Temporal Affiliation	Applicant NRHP Assessment	Avoided (Y or N)	Applicant Recommendations	SHPO Comments
24-Inch Pipeline (Continued)							
FD#261	11JY764	Site	Precontact	Not Eligible	N	No further study	TBD
FD#262	11JY775	Site	Precontact	Not Eligible	N	No further study	TBD
FD#263	11JY776	Site	Precontact	Not Eligible	N	No further study	TBD
FD#264	11JY773	Site	Precontact	Not Eligible	Y	No further study	TBD
FD#265	11JY772	Site	Precontact	Not Eligible	N	No further study	TBD
FD#266	11JY771	Site	Precontact	Not Eligible	N	No further study	TBD
FD#267	11JY770	Site	Precontact	Not Eligible	N	No further study	TBD
FD#268	11JY769	Site	Precontact	Not Eligible	N	No further study	TBD
FD#269	11JY768	Site	Precontact and Historic	Not Eligible	N	No further study	TBD
FD#270	11JY766	Site	Precontact and Historic	Not Eligible	N	No further study	TBD
FD#271	11JY767	Site	Precontact and Historic	Not Eligible	N	No further study	TBD
<i>St. Charles County, Missouri</i>							
FD#171	NA	Isolated Find	Precontact	Not Eligible	Y	No further study	TBD
FD#234	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#172	23SC2219	Site	Precontact	Potentially Eligible; Portion with APE Not Eligible	N	No further testing Phase II tested portion of the site.	TBD
FD#235	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD



Table 4.3-3. Archaeological Resources Identified within the APE (Continued)

Facility, County, and Resource ID	Site ID #	Resource Type	Temporal Affiliation	Applicant NRHP Assessment	Avoided (Y or N)	Applicant Recommendations	SHPO Comments
24-Inch Pipeline (Continued)							
FD#173	23SC2218	Site	Precontact	Potentially Eligible	Y	No effect; avoided by construction right-of-way; No further study	TBD
FD#174	23SC2213	Site	Precontact	Not Eligible	N	No further study	TBD
FD#176	NA	Isolated Find	Precontact	Not Eligible	Y	No further study	TBD
FD#177	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#178	23SC2214	Site	Precontact	Not Eligible	N	No further study	TBD
FD#179	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#180	NA	Isolated Find	Precontact	Not Eligible	Y	No further study	TBD
FD#181	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#182	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#183	NA	Isolated Find	Precontact	Not Eligible	Y	No further study	TBD
FD#236	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#184	23SC2220	Site	Historic	Not Eligible	Y	No further study	TBD
FD#237	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#185	NA	Isolated Find	Historic	Not Eligible	N	No further study	TBD
FD#186	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#187	NA	Isolated Find	Precontact	Not Eligible	Y	No further study	TBD
FD#188	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#189	NA	Isolated Find	Precontact	Not Eligible	Y	No further study	TBD
FD#190	NA	Isolated Find	Precontact	Not Eligible	Y	No further study	TBD
FD#191	23SC2217	Site	Precontact	Not Eligible	N	No further study	TBD



Table 4.3-3. Archaeological Resources Identified within the APE (Continued)

Facility, County, and Resource ID	Site ID #	Resource Type	Temporal Affiliation	Applicant NRHP Assessment	Avoided (Y or N)	Applicant Recommendations	SHPO Comments
24-Inch Pipeline (Continued)							
FD#192	23SC2216	Site	Historic	Potentially Eligible	Y	No effect; avoided by construction right-of-way; No further study	TBD
North County Extension							
<i>St. Louis County, Missouri</i>							
FD#238	23SL2403	Site	Historic	Not Eligible	N	No further study	TBD
FD#239	23SL524	Site	Precontact	Not Eligible	Y	No further study	TBD
FD#240	NA	Isolated Find	Precontact	Not Eligible	Y	No further study	TBD
FD#241	NA	Isolated Find	Precontact	Not Eligible	Y	No further study	TBD
FD#242	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#243	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#244	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#195	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#196	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD
FD#197	NA	Isolated Find	Precontact	Not Eligible	N	No further study	TBD



Table 9.2-1. Measured Ambient Noise Levels

Location	Start	Stop	LAeq
Aboveground Facilities			
REX Receipt Station	12:45 PM	1:00 PM	53.7
	1:01 PM	1:16 PM	49.7
Laclede/Lange Delivery Station	8:07 AM	8:22 AM	54.5
	4:58 PM	5:13 PM	52.7
Chain of Rocks Station (western portion)	6:57 AM	7:12 AM	57.0
	5:52 PM	6:07 PM	54.7
Chain of Rocks Station (eastern portion)	6:12 PM	6:27 PM	48.3
	6:30 AM	6:46 AM	61.0
HDD Entry/Exit Locations			
Mississippi River North HDD Location ¹	11:19 AM	11:34 AM	58.3
	2:28 PM	2:43 PM	61.5
Mississippi River South HDD Location	10:09 AM	10:24 AM	40.0
	3:25 PM	3:40 PM	46.5
Missouri River North HDD Location	9:27 AM	9:42 AM	43.7
	4:03 PM	4:18 PM	58.9
Missouri River South HDD Location	8:56 AM	9:11 AM	50.2
	4:30 PM	4:45 PM	47.3
Coldwater Creek West HDD Location ²	7:08 AM	7:23 PM	53.5
	5:18 PM	5:32 PM	56.6
Coldwater Creek East HDD Location ²	8:02 AM	8:17 AM	50.0
	4:13 PM	4:28 PM	49.7
Spanish Lake Park West HDD Location	7:28 AM	7:43 AM	49.4
	7:20 PM	7:35 PM	43.6
Spanish Lake Park East HDD Location	7:00 AM	7:15 AM	48.0
	6:49 PM	7:04 PM	45.4

Notes:

- ¹ Due to restricted site access, ambient noise surveys were performed in the public right-of-way.
- ² Due to restricted site access, ambient noise surveys were performed on neighboring property.



APPENDICES



Appendix 1-B
Construction Alignment Sheets



Appendix 1-C Agency Correspondence

**Spire STL Pipeline
Agency Correspondence Tracking List
Appendix 1-C**

Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
FEDERAL													
United States Army Corps of Engineers ("USACE")													
USACE	St. Louis District	Chuck Frerker, PM	1222 Spruce Street	St. Louis	MO	63103-2833	314-331-8583	Charles.F.Frerker@usace.army.mil	Section 401/404, Section 10	6/3/2016	6/3/2016	Mr. Frerker	Telephone
										6/8/2016	6/20/2016	Mr. Frerker	Email
										6/24/2016	6/24/2016	Mr. Frerker	Email
										8/3/2016	8/3/2016	Mr. Frerker	Meeting
USACE	St. Louis District	Edward Rodriguez Robles	1222 Spruce Street	St. Louis	MO	63103-2833	314-331-8568	edward.c.rodriguezrobles@usace.army.mil	Section 408	6/27/2016	6/27/2016		Meeting
										6/30/2016	7/7/2016	Mr. Rodriguez Robles	Email
											7/13/2016		Email
										7/14/2016	7/14/2016	Mr. Rodriguez Robles	Telephone
										7/22/2016	7/28/2016	Mr. Rodriguez Robles	Telephone and Email
										8/2/2016			Email
										8/3/2016	8/3/2016	Mr. Rodriguez Robles	Meeting
										8/4/2016	8/4/2016	Mr. Rodriguez Robles	Email
										8/5/2016			Open House Invitation Letter
										8/19/2016			Letter
										9/1/2016			Email
										9/15/2016			Email
										-	9/21/2016	Mr. Rodriguez Robles	Email
										11/10/2016			Email
										11/29/2016			Email
										1/27/2017			Section 408 Application
										3/8/2017			Supplemental Information
										3/28/2017			Supplemental Information
										3/31/2017	4/5/2017	Mr. Rodriguez Robles	Email
										-	4/12/2017	Mr. Rodriguez Robles	Email
4/13/2017	4/13/2017	Mr. Rodriguez Robles	Meeting										
5/16/2017		Mr. Rodriguez Robles	Voicemail and Email										
8/3/2016	8/3/2016	Mr. Meyer	Meeting										
8/4/2016	8/8/2016	Mr. Meyer	Email										
8/5/2016			Open House Invitation Letter										
-	10/7/2016	Mr. Meyer	Email										
11/29/2016			Email										
12/13/2016	12/13/2016	Mr. Meyer	Meeting										
1/27/2017			Letter and NWP-12 Preconstruction Notification										
1/27/2017			Letter and NWP-12 Joint Permit Application										
3/28/2017			Supplemental Information Letter										
4/28/2017			Addendum to NWP-12 Joint Permit Application										
4/28/2017			Addendum to NWP12 Preconstruction Notification and Section 10 Letter of Permission Request										
5/25/2017			Email										
7/14/2017			Addendum II to NWP-12 Joint Permit Application										
7/14/2017			Addendum II to NWP-12 Preconstruction Notification and Section 10 Letter of Permission Request										
USACE	St. Louis District	Keith McMullen	1222 Spruce Street	St. Louis	MO	63103-2833	314-331-8582	Keith.A.McMullen@usace.army.mil	USACE Illinois Section Chief	6/27/2016	6/27/2016		Meeting
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter
USACE	St. Louis District	Charlie Deutsch	1222 Spruce Street	St. Louis	MO	63103-2833	636-899-0082	charlie.deutsch@usace.army.mil	Biologist, Rivers Project Office	6/27/2016	6/27/2016		Meeting
										8/19/2016	8/23/2016	Mr. Deutsch	Email
										8/24/2016			Email

**Spire STL Pipeline
Agency Correspondence Tracking List
Appendix 1-C**

Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
USACE	St. Louis District	Lynn Hoerner	1222 Spruce Street	St. Louis	MO	63103-2833	314-331-8157	melissa.l.hoerner@usace.army.mil	Real Estate Division	6/27/2016	6/27/2016		Meeting
										7/21/2016	7/21/2016	Ms. Hoerner	Telephone
										7/20/2016	7/21/2016	Ms. Hoerner	Email
										7/29/2016	7/29/2016	Ms. Hoerner	Email
										8/3/2016	8/3/2016	Ms. Hoerner	Meeting
										8/5/2016			Open House Invitation Letter
										8/11/2016	8/19/2016	Ms. Hoerner	Email
										8/19/2016			Letter
										9/1/2016			Email
										9/20/2016	9/20/2016	Ms. Hoerner	Email
										11/29/2016			Email
										1/27/2017			Real Estate Easement Documents
										2/27/2017			Supplemental Information
										3/28/2017			Supplemental Information Letter
4/14/2017	4/17/2017	Ms. Hoerner	Email										
USACE	St. Louis District	Lanny Pricer	1222 Spruce Street	St. Louis	MO	63103-2833	314-331-8157	Lanny.M.Pricer@usace.army.mil	Real Estate Division	-	5/24/2017	Mr. Pricer	Email
USACE	St. Louis District	Dr. Teri Allen	1222 Spruce Street	St. Louis	MO	63103-2833	614-331-8084	Teri.C.Allen@usace.army.mil		8/3/2016	8/3/2016		Meeting
										11/1/2016			CD of Draft Environmental Report
										11/29/2016			Email
										3/28/2017			Supplemental Information Letter
										4/25/2017			CD of Environmental Report
USACE	FUSRAP	Susan Adams	1222 Spruce Street	St. Louis	MO	63103-2833	314-422-7205	Susan.L.Adams@usace.army.mil	FUSRAP	7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
USACE	St. Louis District	Jacob Prebianca	1222 Spruce Street	St. Louis	MO	63103-2833	314-731-7661	jacob.a.prebianca@usace.army.mil	FUSRAP	9/8/2016	9/13/2016	Mr. Prebianca	Email
										9/28/2016	9/28/2016	Mr. Prebianca	Telephone
										9/29/2016	10/6/2016	Mr. Prebianca	Email
										-	10/12/2016	Mr. Prebianca	Email
										3/28/2017			Supplemental Information Letter
USACE	St. Louis District	Jonathan Rankins	1222 Spruce Street	St. Louis	MO	63103-2833		Jonathan.E.Rankins@usace.army.mil		10/12/2016	10/12/2016	Mr. Rankins	Email
										3/28/2017			Supplemental Information Letter
										3/29/2017	3/29/2017	Mr. Rankins	Email
										3/29/2017	3/29/2017	Mr. Rankins	Email
USACE	St. Louis District	Matthew Hunn	1222 Spruce Street	St. Louis	MO	63103-2833		Matthew.J.Hunn@usace.army.mil	Chief, Emergency Management	11/29/2016			Email
										5/25/2017	5/25/2017	Mr. Hunn	Email and Telephone
USACE	St. Louis District - Missouri Section Chief	Robert S. Gramke	1222 Spruce Street	St. Louis	MO	63103-2833			NWP for Geotech Bores	-	10/7/2016	Mr. Gramke	Letter
USACE	Kansas City District	Michael Chapman	601 E 12th Street	Kansas City	MO	64106	816-389-3310	Michael.d.chapman@usace.army.mil	Missouri River Recovery Program	6/30/2016			Voicecall
										7/15/2016	7/15/2016	Mr. Chapman	Telephone
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
3/28/2017			Supplemental Information Letter										
United States Fish and Wildlife ("USFWS")													
USFWS	Marion County Sub-Office	Matthew Mangan	8588 Route 148	Marion	IL	62959	618-997-3344, ext. 340	matthew_mangan@fws.gov	Federal-listed species	6/3/2016	6/3/2016	Mr. Mangan	Telephone
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter

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Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
USFWS	Rock Island Field Office	Kristen Lundh	1511 47th Avenue	Moline	IL	61265	309-757-5800	kristen_lundh@fws.gov	Federal-listed species	6/3/2016			Voicemail
										11/2/2016			Voicemail and Email
										11/7/2016	11/7/2016	Ms. Lundh	Telephone and Email
										12/29/2016			Email
										1/4/2017	1/4/2017	Ms. Lundh	Teleconference with FERC
										1/20/2017			Email
										1/25/2017			Email
										2/7/2017	2/17/2017	Ms. Lundh	Email and Telephone
										3/2/2017	3/6/2017	Ms. Lundh	Email
										3/8/2017	3/8/2017	Ms. Lundh	Email
										3/10/2017			Email
										3/22/2017	3/22/2017	Ms. Lundh	Email
										3/23/2017	3/23/2017	Ms. Lundh	Telephone
										3/24/2017			Letter and Study Plan
										4/4/2017			Email
										4/4/2017			Email and Draft Biological Assessment
										4/5/2017			Supplemental InformationLetter
										4/13/2017	4/13/2017	Ms. Lundh	Conference Call
										4/13/2017			Email
										5/4/2017	5/4/2017	Ms. Lundh	Email
										5/5/2017	5/9/2017	Ms. Lundh	Email
										5/18/2017			Email
										5/23/2017			Email
										5/29/2017			Email
										6/1/2017	6/1/2017	Staff	Voicemail
										-	6/6/2017	Ms. Lundh	Email
										6/6/2017	6/6/2017	Ms. Lundh	Email
										6/6/2017	6/7/2017	Ms. Lundh	Email and Telephone
										-	6/12/2017	Ms. Lundh	Email
										6/13/2017			Email
6/13/2017	6/16/2017	Ms. Lundh	Email										
6/16/2017	6/16/2017	Ms. Lundh	Email										
6/14/2017			Email										
6/28/2017			Email										
6/29/2017	6/29/2017	Ms. Lundh	Meeting										
7/13/2017	7/13/2017	Ms. Lundh	Email										
7/13/2017	7/13/2017	Ms. Lundh	Telephone										
7/14/2017			Species Survey Reports and Biological Assessment										
USFWS	Rock Island Field Office	Kraig McPeek	1511 47th Avenue	Moline	IL	61265	309-757-5800 ext. 202		Federal-listed species	6/8/2016	6/8/2016	Mr. McPeek	Telephone
										6/8/2016	6/8/2016	Mr. McPeek	Email
										7/8/2016	7/8/2016	Mr. McPeek	Meeting
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										8/12/2016	12/8/2016	Mr. McPeek	Consultation Letter and Letter Response
										1/25/2017			Letter and Plant Survey Report
										4/5/2017			Supplemental InformationLetter
6/29/2017	6/29/2017	Mr. McPeek	Meeting										
USFWS	Rock Island Field Office	Chase Allred	1511 47th Avenue	Moline	IL	61265	309-757-5800, ext. 221	chase_allred@fws.gov	Federal-listed species	7/8/2016	7/8/2016	Mr. Allred	Meeting
										8/2/2016	8/2/2016	Mr. Allred	Telephone and Email
										8/8/2016			Email
										8/5/2016			Open House Invitation Letter
										9/29/2016	9/30/2016	Mr. Allred	Letter and Email
										10/11/2016	10/14/2016	Mr. Allred	Email
10/14/2016			Email										
USFWS	Rock Island Field Office	Ryan Anthony	1511 47th Avenue	Moline	IL	61265			6/29/2017	6/29/2017	Mr. Anthony	Meeting	

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USFWS	Two Rivers National Wildlife Refuge	Justin Sexton	HC 82, Box 107	Brussels	IL	62013	618-883-2524, ext. 24	justin_sexton@fws.gov	Federal-listed species and migratory birds	6/30/2016			Voicemail and Email
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
USFWS	Columbia Field Office	Trisha Crabill	101 Park De Ville Dr, Suite A	Columbia	MO	65203	573-234-2132	trisha_crabill@fws.gov		9/29/2016			cc on Letter to Chase Allred
										1/25/2017			Email
										4/5/2017			Supplemental Information Letter
										-	4/25/2017		
										7/14/2017			Species Survey Reports and Biological Assessment
National Oceanic and Atmospheric Administration ("NOAA")													
NOAA Fisheries	NOAA NEPA Coordinator		Office of General Counsel, 1315 East- West Highway, Room 15132	Silver Springs	MD	20910	301-713-9668	noaa.nepa@noaa.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter
United States Environmental Protection Agency ("USEPA")													
USEPA	Region 5, Acting Regional Administrator	Robert Kaplan	77 W. Jackson Blvd	Chicago	IL	60604	312-353-2000			7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
USEPA	Region 5 Environmental Impact Statements Contact	Virginia Laszewski	77 W. Jackson Blvd	Chicago	IL	60604	312-886-7501	Laszewski.virginia@epa.gov		9/16/2016	9/16/2016	Ms. Laszewski	Telephone
										10/6/2016	10/6/2016	Ms. Laszewski	Telephone
										-	10/6/2016	Ms. Laszewski	Email
										10/12/2016			Email
										11/1/2016			CD and Hardcopy of Draft Environmental Report
										11/4/2016			Voicemail and Email
										11/7/2016	11/7/2016	Ms. Laszewski	Telephone
										12/29/2016			Email
USEPA	Region 5	Elizabeth Poole	77 W. Jackson Blvd	Chicago	IL	60604	312-353-2087	poole.elizabeth.epa.gov		3/28/2017			Supplemental Information Letter
										4/25/2017			CD of Environmental Report
USEPA	Region 7, Regional Administrator	Mark J. Hague	11201 Renner Blvd	Lenexa	KS	66219	913-551-7003			10/6/2016	10/6/2016	Ms. Poole	Telephone
										7/29/2016			Notice of Prefiling Letter
USEPA	Region 7 Environmental Impact Statements Contact	Joe Summerlin	11201 Renner Blvd	Lenexa	KS	66219	913-551-7029	Summerlin.joe@epa.gov		8/5/2016			Open House Invitation Letter
										9/16/2016	9/16/2016	Mr. Summerlin	Telephone
										10/6/2016	10/6/2016	Mr. Summerlin	Telephone
										11/1/2016			CD of Draft Environmental Report
										3/28/2017			Supplemental Information Letter
USEPA	Region 7	Althea Moses	11201 Renner Blvd	Lenexa	KS	66219	913-551-7649	Moses.Althea@epa.gov		4/25/2017			CD of Environmental Report
										9/30/2016	9/30/2016	Ms. Moses	Telephone
										10/4/2016	10/6/2016	Ms. Moses	Email
										10/6/2016	10/6/2016	Ms. Moses	Telephone
USEPA	Region 7	Tamara Freeman						Freeman.Tamara@epa.gov		10/6/2016	10/6/2016	Ms. Freeman	Telephone
United States Department of Agriculture ("USDA")													
Natural Resources Conservation Service ("NRCS") Offices													
NRCS	Illinois State Office	Ivan Dozier	2118 W. Park Court	Champaign	IL	61821	217-353-6600			7/29/2016			Notice of Prefiling Letter
										8/5/2016	8/10/2016	Mr. Dozier	Open House Invitation Letter; Letter Response
										3/28/2017			Supplemental Information Letter
NRCS	Scott County/ Winchester Field Office	Johanna Fuller	656 North Main	Winchester	IL	62694	217-742-9561, ext. 3	johanna.fuller@il.usda.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										9/30/2016	9/30/2016	Ms. Fuller	Telephone
										1/24/2017			Email
										1/26/2017			Email
										3/28/2017			Supplemental Information Letter

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NRCs	Greene County/Carrollton Field Office	Brad Behymer	R.R. 3, Box 129, Route 67 North	Carrollton	IL	62016	217-942-5464, ext. 3	Bradley.Behymer@il.usda.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										10/3/2016	10/3/2016	Mr. Behymer	Telephone
										10/5/2016	10/5/2016	Mr. Behymer	Telephone
										10/5/2016			Email
										10/12/2016	10/13/2016	Mr. Behymer	Email
										1/24/2017	1/25/2017	Mr. Behymer	Email
										1/26/2017			Email
										3/28/2017			Supplemental Information Letter
NRCs	Jersey County/ Jerseyville Lincoln Field Office	Brad Behymer	604 East Franklin	Jerseyville	IL	62052	217-942-5464, ext. 3	Bradley.Behymer@il.usda.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter
NRCs	Missouri State Office	J.R. Flores	Parkade Center 601 Business Loop 70 West, Suite 250	Columbia	MO	65203	573-876-0901			7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter
NRCs	Service Center- Office	Connie Gibson	160 Saint-Peters Centre Blvd	St. Peters	MO	63376	636-952-2833, ext- 405	Connie.Gibson@mo.usda.gov		7/29/2016			Notice of Prefiling Letter
NRCs	Service Center Office	Renee L. Cook	160 Saint Peters Centre Blvd	St. Peters	MO	63376	636-922-2833, ext. 3	renee.cook@mo.usda.gov		8/5/2016			Open House Invitation Letter
										-	9/28/2016	Ms. Cook	Email
										-	10/11/2016	Ms. Cook	Email
										3/28/2017			Supplemental Information Letter
Farm Service Agency ("FSA") Offices													
FSA	Scott County	Rebecca D. Walls	656 North Main St	Winchester	IL	62694	217-742-9561, ext. 2	rebecca.walls@il.usda.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter
FSA	Carrollton Service Center		Route 267 North	Carrollton	IL	62016				7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter
FSA	Jerseyville Service Center		604 E Franklin	Jerseyville	IL	62052				7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter
FSA	St-Charles-County	Connie Gibson	160 Saint-Peters Centre Blvd	St. Peters	MO	63376	636-922-2833, ext- 405	Connie.Gibson@mo.usda.gov	GRP	7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										9/7/2016			Email
										9/28/2016	9/28/2016	Ms. Gibson	Email
										10/11/2016			Email
										12/2/2016	12/2/2016	Ms. Gibson	Voicemail and Emails
FSA	St-Louis-County	Connie Gibson	160 Saint-Peters Centre Blvd	St. Peters	MO	63376	636-922-2833, ext- 405	Connie.Gibson@mo.usda.gov	GRP	12/5/2016	12/27/2017	Ms. Gibson	Email
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										9/7/2016			Email
										9/28/2016	9/28/2016	Ms. Gibson	Email
										10/11/2016			Email
FSA	St. Charles and St. Louis County	Eric Niemeyer	160 Saint Peters Centre Blvd	St. Peters	MO	63376	636-922-2833, ext. 105	eric.niemeyer@mo.usda.gov	CRP	12/2/2016	12/2/2016	Ms. Gibson	Voicemail and Emails
										12/5/2016	12/27/2017	Ms. Gibson	Email
										3/24/2017	3/24/2017	Mr. Niemeyer	Telephone
										3/24/2017	3/31/2017	Mr. Niemeyer	Email
FSA	Illinois State Office	Jamie Diebal	3500 Wabash Ave	Springfield	IL	62711	217-331-6872	jamie.diebal@il.usda.gov	CRP	3/28/2017			Supplemental Information Letter
										9/21/2016	9/22/2016	Ms. Diebal	Email
										9/26/2016			Email
										10/12/2016	10/17/2016	Ms. Diebal	Email
										10/19/2016	10/31/2016	Ms. Diebal	Email
										3/24/2017	3/31/2017	Ms. Diebal	Email
										3/28/2017			Supplemental Information Letter
										4/4/2017			Email
5/16/2017			Voicemail										

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Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
FSA	Illinois State Office	Kimberly Martin	3500 Wabash Ave	Springfield	IL	62711	217-241-6600	kimberly.martin@il.usda.gov		3/28/2017			Supplemental Information Letter
										5/19/2017	5/19/2017	Ms. Martin	Telephone
United States Department of the Interior National Park Service ("NPS")													
NPS	Lewis and Clark National Historic Trail	Dan Wiley	601 Riverfront Drive	Omaha	NE	68102-4226	402-661-1830	dan_wiley@nps.gov		3/9/2017	3/9/2017	Mr. Wiley	Telephone and Email
										3/10/2017			Email
										3/29/2017			Supplemental Information Letter
NPS	Lewis and Clark National Historic Trail	Linda S. Helm, JD	601 Riverfront Drive	Omaha	NE	68102	402-661-1812	linda_helm@nps.gov		-	3/15/2017	Ms. Helm	Email
NPS	Lewis and Clark National Historic Trail	Mark Weekly	601 Riverfront Drive	Omaha	NE	68102				-	3/13/2017	Mr. Weekly	Letter
STATE - Illinois													
Illinois Department of Natural Resources ("IDNR")													
IDNR	Endangered- Species	Pat Malone	One Springfield Way	Springfield	IL	62702-1271	217-785-4991	pat.malone@illinois.gov	State Listed Species	6/8/2016	6/8/2016		Telephone and Email
										6/21/2016	6/21/2016	Mr. Malone	Meeting
										6/16/2016	7/6/2016	Mr. Malone	Email
										7/15/2016	7/15/2016	Mr. Malone	Email
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										8/12/2016			Consultation Letter
										8/15/2016	8/15/2016	Mr. Malone	Email
										9/26/2016	9/26/2016	Mr. Malone	Telephone
										9/27/2016	9/27/2016	Mr. Malone	Telephone
										10/5/2016	10/5/2016	Mr. Malone	Telephone
										10/5/2016	10/14/2016	Mr. Malone	Email
										10/14/2016	10/14/2016	Mr. Malone	Email
										-	10/26/2016	Mr. Malone	Email
12/13/2016	12/13/2016	Mr. Malone	Meeting										
IDNR	Impact Assessment Section	Keith Shank	One Natural Resources Way	Springfield	IL	62702		Keith.Shank@illinois.gov	State Listed Species	1/20/2017	1/20/2017	Mr. Shank	Telephone
										3/28/2017			Supplemental Information Letter
										7/14/2017			Species Survey Reports and Biological Assessment
IDNR	Water Resources	Mike Diedrichsen	One Springfield Way	Springfield	IL	62702-1271	217-782-4426	mike.diedrichsen@illinois.gov		6/8/2016	6/9/2016	Mr. Diedrichsen	Telephone and Email
										6/14/2016	6/15/2016	Mr. Diedrichsen	Email
										6/21/2016	6/21/2016	Mr. Diedrichsen	Meeting
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										8/12/2016			Consultation Letter
										9/28/2016	9/28/2016	Mr. Diedrichsen	Telephone
IDNR	Water Resources	Steve Altman	One Natural Resources Way	Springfield	IL	62702-1271		steve.altman@illinois.gov		1/27/2017	3/17/2017	Mr. Altman	Letter and NWP-12 Joint Permit Application; Approval for Statewide Permits 6, 8, and 13
										3/3/2017			Email
										3/1/2017			Email
										3/2/2017			Email
										3/28/2017			Supplemental Information Letter
										4/28/2017			Addendum to NWP-12 Joint Permit Application
										7/14/2017			Addendum II to NWP-12 Joint Permit Application

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IDNR	Water Resources	Jesse Tinch	One Natural Resources Way	Springfield	IL	62702-1271	217-782-4545	jesse.tinch@illinois.gov	Statewide Permits	-	2/3/2017	Mr. Tinch	Email
										2/6/2017			Email
										2/9/2017	2/9/2017	Mr. Tinch	Email
										2/14/2017	2/17/2017	Mr. Tinch	Email
										2/20/2017	2/21/2017	Mr. Tinch	Email and Telephone
										3/1/2017	3/1/2017	Mr. Tinch	Email
										3/2/2017			Email
										3/7/2017			Email
										3/16/2017	3/16/2017	Mr. Tinch	Telephone
										3/17/2017	3/17/2017	Mr. Tinch	Email
IDNR	Conservation Program	Mike Chandler					217-785-8773	mike.chandler@illinois.gov		8/4/2016			Voicemail and Email
IDNR	CREP Program Coordinator	Luke Garver	One Natural Resources Way	Springfield	IL	62702-1721	217-524-3200	Luke.Garver@illinois.gov	CREP	-	8/8/2016		Voicemail
										8/9/2016	8/10/2016	Mr. Garver	Telephone and Email
										9/9/2016	9/9/2016	Mr. Garver	Email
										12/2/2016			Voicemail and Email
IDNR	CREP	Robert Bedient	One Natural Resources Way	Springfield	IL	62702	217-557-6525	DNR.CREP@illinois.gov	CREP	-	12/6/2016	Mr. Bedient	Email
IDNR		Nathan Grider					217-524-0501			3/23/2017	3/24/2017	Mr. Bedient	Email
IDNR	Chief of Staff	Brent Krebs	One Natural Resources Way	Springfield	IL	62702	217-785-7953	brent.krebs@illinois.gov		10/7/2016	10/7/2016	Mr. Grider	Telephone
IDNR	Heritage Database Program Manager	Tara Kieninger	One Natural Resources Way	Springfield	IL	62702	217-782-2685	tara.kieninger@illinois.gov		12/13/2016	12/13/2016	Mr. Krebs	Meeting
										12/19/2016	12/19/2016	Mr. Krebs	Telephone
										3/1/2017	3/1/2017	Mr. Krebs	Telephone
										6/17/2016	6/20/2016	Ms. Kieninger	Email
										6/21/2016	6/21/2016	Ms. Kieninger	Email
										12/23/2016	12/27/2016	Ms. Kieninger	Voicemail and Email
										12/27/2016	12/27/2016	Ms. Kieninger	Telephone
										12/29/2016	1/5/2017	Ms. Kieninger	Email
										5/18/2017			Email
										5/23/2017			Email
IDNR	Incidental Take Authorization Coordinator	Jenny Skufca	One Natural Resources Way	Springfield	IL	62702	217-557-8243	Jenny.Skufca@illinois.gov		12/19/2016	12/19/2016	Ms. Skufca	Telephone
										-	12/19/2016	Ms. Skufca	Email
										1/19/2017	1/19/2017	Ms. Skufca	Telephone
										1/30/2017	2/1/2017	Ms. Skufca	Voicemail and Telephone
										3/1/2017	3/1/2017	Ms. Skufca	Telephone
										3/28/2017			Supplemental Information Letter
										4/6/2017			Voicemail and Email
										4/12/2017	4/12/2017	Ms. Skufca	Telephone
										6/2/2017			Email with Draft Conservation Plan
										7/14/2017			Species Survey Reports and Biological Assessment
IDNR	Endangered Species Program Manager	Joe Kath						Joe.Kath@illinois.gov		5/18/2017			Email
										5/23/2017			Email
										5/29/2017			Email
										6/14/2017			Email
IDNR	Scientific Collection Permits	Nancy Rogers					Nancy.S.Rogers@illinois.gov						

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Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
Illinois Department of Agriculture ("IDOA")													
IDOA	Bureau of Land and Water Resources	Terry Savko	Statefairgrounds P.O. Box 19281	Springfield	IL	62794-9281	217-785-4458	terry.savko@illinois.gov	Agricultural Impact Mitigation Agreement	6/9/2016	6/9/2016	Ms. Savko	Telephone and Email
										6/22/2016	6/22/2016	Ms. Savko	Meeting
										7/29/2016			Notice of Prefiling Letter
										8/15/2016			Consultation Letter
										8/5/2016			Open House Invitation Letter
										9/7/2016	9/7/2016	Ms. Savko	Email
										9/23/2016	9/26/2016	Ms. Savko	Email
										9/26/2016	10/6/2016	Ms. Savko	Email
											11/9/2016	Ms. Savko	Email
										11/22/2016	11/22/2016	Ms. Savko	Telephone
										11/29/2016			Email
										12/2/2016			Email
										12/13/2016	12/13/2016	Ms. Savko	Meeting
										1/24/2017	2/23/2017	Ms. Savko	Email
										2/28/2017	3/1/2017	Ms. Savko	Email
										3/8/2017	3/8/2017	Ms. Savko	Email
										3/17/2017	3/17/2017	Ms. Savko	Email
										3/21/2017	3/21/2017	Ms. Savko	Email
										3/28/2017			Supplemental Information Letter
										4/5/2017	4/5/2017	Ms. Savko	Email
4/6/2017	4/7/2017	Ms. Savko	Email										
4/7/2017	4/7/2017	Ms. Savko	Telephone										
5/3/2017	5/3/2017	Ms. Savko	Email										
	6/2/2017		Email										
IDOA	Bureau of Land and Water Resources	Steve Chard	PO Box 19281	Springfield	IL	62794-9281	217-782-6297	Steve.Chard@illinois.gov	Agricultural Impact Mitigation Agreement	11/22/2016	11/22/2016	Mr. Chard	Telephone
										11/29/2016			Email
										12/2/2016			Email
										1/24/2017			Email
										2/28/2017			Email
	6/2/2017		Email										
IDOA	General Counsel	Craig Sondgeroth					217-558-0014	craig.sondgeroth@illinois.gov		12/13/2016	12/13/2016	Mr. Sondgeroth	Meeting
IDOA	Land and Water Resource Specialist	John Lohse	PO Box 19281	Springfield	IL	62794-9281	217-785-4389	john.lohse@illinois.gov		12/13/2016	12/13/2016	Mr. Lohse	Meeting
IDOA	Deputy Director	Warren Goetsch	PO Box 19281	Springfield	IL	62794-9281	217-785-4747	warren.goetsch@illinois.gov		12/13/2016	12/13/2016	Mr. Goetsch	Meeting
IDOA	COS	Grant Hammer	PO Box 19281	Springfield	IL	62794-9281	217-782-5051	grant.hammer@illinois.gov		12/13/2016	12/13/2016	Mr. Hammer	Meeting
Illinois Historic Preservation Agency ("IHPA")													
IHPA	Division Manager & Deputy SHPO	Rachel Leibowitz	One Natural Resources Way	Springfield	IL	62702	217-782-7534	rachel.leibowitz@illinois.gov	Section 106	6/21/2016	6/21/2016	Ms. Leibowitz	Meeting
										7/29/2016			Notice of Prefiling Letter
										-	8/4/2016		Letter
										8/5/2016			Open House Invitation Letter
										8/29/2016			Consultation Letter
										10/28/2016			Letter
										11/1/2016			Hardcopy of Draft RR4
										12/13/2016	12/13/2016	Ms. Leibowitz	Meeting
										1/26/2017			Letter and Phase I Archaeological Survey Report with Architectural/Historical Resources Survey
										3/28/2017			Supplemental Information Letter
										4/10/2017			Unanticipated Discoveries Plan
										4/21/2017			Phase I Addendum
										5/23/2017	5/23/2017	Ms. Leibowitz	Telephone
										6/1/2017			Revised Cover Letter
	6/22/2017	Ms. Leibowitz	Letter										
	7/14/2017		Phase I Addendum II and Phase II Reports										
IHPA		David Halpin	One Natural Resources Way	Springfield	IL	62702	217-785-4998		Section 106	11/7/2016	11/7/2016	Mr. Halpin	Telephone
IHPA	Deputy Director	Ryan Prehn	313 S 6th Street	Springfield	IL	62701	217-558-8950	ryan.prehn@illinois.gov		12/13/2016	12/13/2016	Mr. Prehn	Meeting

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IHPA		Tina Blankenship	One Natural Resources Way	Springfield	IL	62702				2/10/2017			Archaeological Survey Short Report
IHPA	Director	Heidi Brown-McCreery	One Natural Resources Way	Springfield	IL	62702				3/28/2017			Supplemental Information Letter
IHPA	Archaeologist	Joe Phillippe	One Natural Resources Way	Springfield	IL	62702	217-785-1279	joephillippe@illinois.gov		3/28/2017			Supplemental Information Letter
										5/23/2017	5/23/2017	Mr. Phillippe	Telephone
										5/31/2017	5/31/2017	Mr. Phillippe	Telephone
										5/31/2017			Email
Illinois Environmental Protection Agency ("IEPA")													
IEPA	Bureau of Water	Alan Keller	1021 North Grand Avenue East P.O. Box 19276	Springfield	IL	62794-9276	217-782-0610	al.keller@illinois.gov		6/9/2016	6/9/2016		Telephone
										8/12/2016			Consultation Letter
IEPA	Bureau of Water	Dan Heacock	1021 North Grand Avenue East P.O. Box 19276	Springfield	IL	62794		dan.heacock@illinois.gov		1/27/2017			Letter and NWP-12 Joint Permit Application
										3/3/2017			Email
										3/28/2017			Supplemental Information Letter
										4/28/2017			Addendum to NWP-12 Joint Permit Application
										7/14/2017			Addendum II to NWP-12 Joint Permit Application
IEPA	Industrial Engineer on call	Mark Liska					217-782-0610		Hydrostatic Test Withdrawals and Discharge	7/11/2016	7/11/2016	Mr. Liska	Telephone
IEPA	Bureau of Water - Industrial Unit Manager	Darin LeCrone	1021 North Grand Avenue East	Springfield	IL	62794	217-782-0610	darin.lecrone@illinois.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										12/13/2016	12/13/2016	Mr. LeCrone	Meeting
										3/28/2017			Supplemental Information Letter
IEPA	GIS	Joe Konczyk					217-785-2271	Joe.Konczyk@illinois.gov	Illinois Drinking Water Resources	9/21/2016	9/21/2016	Mr. Konczyk	Telephone
										9/22/2016	9/22/2016	Mr. Konczyk	Email
IEPA		Scott Twait	1021 North Grand Avenue East	Springfield	IL	62794	217-558-2012	Scott.Twait@illinois.gov		10/20/2016		Mr. Konczyk	Email
										9/28/2016	9/28/2016	Mr. Twait	Telephone
										10/7/2016	10/17/2016	Mr. Twait	Email
										10/17/2016	10/17/2016	Mr. Twait	Telephone
										12/9/2016	12/9/2016	Mr. Twait	Telephone and Email
IEPA	Public Water Supply	David Cook					217-782-0078			10/17/2016			Voicemail
										10/18/2016	10/18/2016	Mr. Cook	Telephone
IEPA	Bow Permit Section	Darren Gove	1021 North Grand Avenue East	Springfield	IL	62794	217-524-3033	darren.gove@illinois.gov		12/13/2016	12/13/2016	Mr. Gove	Meeting
IEPA	Deputy Director	Ryan McCreery	1021 North Grand Avenue East	Springfield	IL	62794	217-782-1679	ryan.mcCreery@illinois.gov		12/13/2016	12/13/2016	Mr. McCreery	Meeting
IEPA	Bureau of Land, Permit Section	Thomas W. Hubbard	1021 North Grand Avenue East	Springfield	IL	62794	217-524-3286	Thomas.Hubbard@illinois.gov		2/21/2017	2/21/2017	Mr. Hubbard	Telephone and Email
										2/22/2017			Email
IEPA	Bureau of Land	Mohammed Zillur Rahman	1021 North Grand Avenue East	Springfield	IL	62794	217-782-9848	mohammed.rahman@illinois.gov		-	3/20/2017	Mr. Rahman	Email
										3/28/2017			Email
										4/5/2017	4/5/2017	Mr. Rahman	Telephone
STATE - Missouri													
Missouri Department of Natural Resources ("MDNR")													
MDNR	Water Resources Center - Surface Water, Wetlands and Planning	Steve McIntosh	PO Box 176	Jefferson City	MO	65102	573-751-7823	steve.mcintosh@dnr.mo.gov	Major Water User Registration	6/16/2016	6/16/2016	Mr. McIntosh	Telephone and Email
										8/3/2016	8/3/2016		Meeting
MDNR	Water Resources Center	Scott Kaden	PO Box 176	Jefferson City	MO	65102	573-368-2175			7/8/2016	7/8/2016	Mr. Kaden	Telephone

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MDNR	Water Protection Program	Robert Voss	PO Box 176	Jefferson City	MO	65102	573-751-1300			7/8/2016	7/8/2016	Mr. Voss	Telephone
MDNR	Water Protection Program	Chris Wieberg	PO Box 176	Jefferson City	MO	65102	573-526-5781	chris.wieberg@dnr.mo.gov	Hydrostatic Discharge Permit	7/11/2016	7/11/2016	Mr. Wieberg	Telephone
										8/3/2016	8/3/2016	Mr. Wieberg	Meeting
										-	11/29/2016	Mr. Wieberg	Letter - 401 Water Quality Certification
MDNR	Director	Sara Parker Pauley	PO Box 176	Jefferson City	MO	65102	573-522-6221			7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter
MDNR		Paul Mueller	PO Box 176	Jefferson City	MO	65102	314-416-2960			7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter
MDNR	Environmental Scientist	Mike Irwin	PO Box 176	Jefferson City	MO	65102	573-522-1131	mike.irwin@dnr.mo.gov	401 Water Quality Certification	8/3/2016	8/3/2016	Mr. Irwin	Meeting
										8/4/2016	8/4/2016	Mr. Irwin	Email
										8/4/2016	8/5/2016	Mr. Irwin	Email
										8/5/2016			Open House Invitation Letter
										12/9/2016	12/9/2016	Mr. Irwin	Voicemail and Telephone
										12/9/2016	12/15/2016	Mr. Irwin	Email
										12/23/2016			Email
										3/28/2017			Supplemental Information Letter
										4/28/2017			Addendum to NWP-12 Preconstruction Notification and Application for 401 Water Quality Certification
										7/14/2017			Addendum II NWP-12 Preconstruction Notification and Application for 401 Water Quality Certification
MDNR		Lorisa Smith	PO Box 176	Jefferson City	MO	65102	573-751-7370	Lorisa.Smith@dnr.mo.gov	Permitting Contact	8/3/2016	8/3/2016	Ms. Smith	Meeting
										8/4/2016			Email
										8/5/2016			Open House Invitation Letter
										9/8/2016			Consultation Letter
										8/3/2016	8/3/2016	Mr. Bopp	Meeting
MDNR	Katy Trail	Denny Bopp	PO Box 176	Jefferson City	MO	65102	573-751-9392	denny.bopp@dnr.mo.gov	Katy Trail	9/28/2016			Voicemail
MDNR		Brad Harris	PO Box 176	Jefferson City	MO	65102	573-644-3226	brad.harris@dnr.mo.gov	Env. Emergency Response Plan	8/3/2016	8/3/2016	Mr. Harris	Meeting
MDNR		Robert Stout	PO Box 176	Jefferson City	MO	65102	573-751-7402	robert.stout@dnr.mo.gov	Policy Contact	8/3/2016	8/3/2016	Mr. Stout	Meeting
MDNR	Geology	Peter Price	PO Box 176	Jefferson City	MO	65102	573-368-2131	peter.price@dnr.mo.gov	Well drilling	8/3/2016	8/3/2016	Mr. Price	Meeting
MDNR	Geology	Peter Bachle	PO Box 176	Jefferson City	MO	65102	573-368-2472	peter.bachle@dnr.mo.gov		8/3/2016	8/3/2016	Mr. Bachle	Meeting
MDNR	Well Heads Department	Justin Davis	PO Box 176	Jefferson City	MO	65102	573-368-2167		Registration of Geotech				
MDNR	GIS	David Erickson					573-368-2332	david.erickson@dnr.mo.gov	Missouri Drinking Water Resources	9/21/2016	9/21/2016	Mr. Erickson	Telephone
MDNR	Cultural Resource Management Section, State Parks	Kim Dillon					573-526-0976	kim.dillon@dnr.mo.gov		10/3/2016	10/3/2016	Ms. Dillon	Email
MDNR	Public Drinking Water Branch	Maher Jaafari					573-751-1127	maher.jaafari@dnr.mo.gov		10/18/2016	10/19/2016	Mr. Jaafari	Email
										2/2/2017			Email
										2/3/2017			Email
MDNR	Public Drinking Water Branch	Everett Baker						Everett.Baker@dnr.mo.gov		-	10/24/2016	Mr. Baker	Email
										1/17/2017			Email
										1/23/2017	1/23/2017	Mr. Baker	Telephone
										2/2/2017			Email
										2/3/2017			Email

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Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
MDNR	Public Drinking Water Branch	Ken Tomlin					573-526-0269			12/22/2016			Voicemail
										-	1/24/2017	Mr. Tomlin	Email
										-	1/24/2017	Mr. Tomlin	Email
										2/2/2017	2/3/2017	Mr. Tomlin	Email
2/3/2017			Email										
MDNR	Wellhead Protection Program Chief	Kyle Rollins					573-368-2171			12/21/2016	12/22/2016	Mr. Rollins	Voicemail and Telephone
MDNR	Wellhead Protection Compliance and Enforcement	Amber Steele					573-368-2115			12/21/2016	12/22/2016	Ms. Steele	Voicemail and Telephone
MDNR	Geological Survey	Pat Mulvany					573-368-2370			12/14/2016	12/14/2016	Mr. Mulvany	Telephone
MDNR	Engineering and Compliance Assistance	Eric Gilstrap					314-416-2960	eric.gilstrap@dnr.mo.gov		-	1/25/2017	Mr. Gilstrap	Email
										2/1/2017	2/1/2017	Mr. Gilstrap	Telephone
										2/3/2017			Email
MDNR	FUSRAP Project Oversight	Daniel Carey					314-877-3047	daniel.carey@dnr.mo.gov		-	2/3/2017	Mr. Carey	Email
										3/30/2017	3/30/2017	Mr. Carey	Email
MDNR	Water Protection Program	Logan Cole	PO Box 176	Jefferson City	MO	65102	573-751-5827	logan.cole@dnr.mo.gov	Di Minimus Exemption for HDD Drilling Mud Disposal	-	2/23/2017	Mr. Cole	Email
										3/9/2017	3/9/2017	Mr. Cole	Email
										3/9/2017	3/9/2017	Mr. Cole	Email
MDNR	Solid Waste Management	Brian Newby					681-245-8854		HDD Drilling Mud Disposal	2/24/2017	2/24/2017	Mr. Newby	Telephone
										2/28/2017	2/28/2017	Mr. Newby	Telephone
Missouri State Historic Preservation Office (MO SHPO)	Compliance Coordinator	Judith Deel	PO Box 176	Jefferson City	MO	65102	573-751-7862	judith.deel@dnr.mo.gov	Section 106	7/8/2016	7/8/2016	Ms. Deel	Meeting
										7/29/2016			Notice of Prefiling Letter
										8/3/2016	8/3/2016	Ms. Deel	Meeting
										8/5/2016			Open House Invitation Letter
										8/29/2016			Consultation Letter
										9/12/2016	9/13/2016	Ms. Deel	Email
										9/14/2016	9/14/2016	Ms. Deel	Email
										9/20/2016	9/20/2016	Ms. Deel	Email
										10/28/2016			Letter
										11/1/2016			Hardcopy of Draft RR4
										11/7/2016			Voicemail
										11/14/2016	11/14/2016	Ms. Deel	Telephone
										1/26/2017			Letter and Phase I Archaeological Survey Report
										1/26/2017			Letter and Architectural/Historical Resources Survey Report
										3/28/2017			Supplemental Information Letter
										4/10/2017			Unanticipated Discoveries Plan
										4/21/2017			Phase I Addendum I Archaeological Report
										4/21/2017			Phase I Addendum Architectural Report
										4/21/2017			Phase II Report
										6/1/2017			Revised Cover Letter
				7/14/2017			Phase I Addendum II Report						
				7/14/2017			Revised Phase I Archaeological Survey Report						

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MO SHPO	Archaeologist/ Records Manager	Heather Gibb	PO Box 176	Jefferson City	MO	65102	573-751-4589	heather.gibb@dnr.mo.gov	Section 106	7/8/2016	7/8/2016	Ms. Gibb	Meeting
			1101 Riverside Drive	Jefferson City	MO	65101				8/3/2016	8/3/2016	Ms. Gibb	Meeting
										9/28/2016	9/28/2016	Ms. Gibb	Email
										9/29/2016	9/30/2016	Ms. Gibb	Email
										11/1/2016			Hardcopy of Draft RR4
										3/8/2017			Email
										3/16/2017	3/16/2017	Ms. Gibb	Email
										3/16/2017	3/16/2017	Ms. Gibb	Email
3/17/2017	3/22/2017	Ms. Gibb	Email										
3/23/2017	4/11/2017	Ms. Gibb	Email										
MO SHPO	Director and Deputy SHPO	Toni M. Prawl	1101 Riverside Drive	Jefferson City	MO	65101			Section 106	-	11/17/2016	Dr. Prawl	Letter
										-	11/17/2016	Dr. Prawl	Letter
										-	3/23/2017	Dr. Prawl	Letter
MO SHPO		Amanda Burke	1101 Riverside Drive	Jefferson City	MO	65101	573-751-7862		Section 106	11/15/2016	11/15/2016	Ms. Burke	Telephone
Missouri Department of Conservation (MDOC)													
MDOC	Wildlife	Raenhard Wesselschmidt	2360 Hwy D	St. Charles	MO	63304	636-441-4554 ext. 4132	raenhard.wesselschmidt@mds.mo.gov		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter
MDOC	Wildlife	Audrey Beres	2901 West Truman Blvd	Jefferson City	MO	65109	573-522-4115, ext. 3346	audrey.beres@mdc.mo.gov	RTE	6/17/2016	6/17/2016	Ms. Beres	Telephone
										6/27/2016	6/27/2016	Ms. Beres	Meeting
										6/17/2016	7/6/2016	Ms. Beres	Email
										8/12/2016			Consultation Letter
										11/29/2016			Email
										-	12/5/2016	Ms. Beres	Email
										1/10/2017	1/10/2017	Ms. Beres	Telephone
										1/11/2017	1/17/2017	Ms. Beres	Email
										-	1/17/2017	Ms. Beres	Email
										1/20/2017			Email
										3/10/2017			Email
3/28/2017			Supplemental Information Letter										
5/19/2017	5/22/2017	Ms. Beres	Email										
MDOC	Pools 24.25 and 26 of Upper Mississippi Conservation Area	Gary Calvert	P.O. Box 201 3333 North Highway 79	Elsberry	MO	63343	573-898-5905, ext. 1890	Gary.Calvert@mdc.mo.gov	Migratory Bird and Setback requirements	7/6/2016	7/6/2016	Mr. Calvert	Telephone
										7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/23/2017	3/23/2017	Mr. Calvert	Telephone
3/28/2017			Supplemental Information Letter										
MDOC	Policy Coordinator	Jennifer Campbell	PO Box 176	Jefferson City	MO	65102	573-522-4115	jennifer.campbell@mdc.mo.gov	Permitting Contact	9/16/2016			Voicemail
										9/22/2016			Voicemail
										10/14/2016	10/17/2016	Ms. Campbell	Voicemail and Email
										10/17/2016	10/17/2016	Ms. Campbell	Email
										-	10/18/2016	Ms. Campbell	Email
										-	10/25/2016	Ms. Campbell	Email
										10/28/2016	11/3/2016	Ms. Campbell	Email
										11/4/2016	11/4/2016	Ms. Campbell	Email
11/7/2016			Email										
MDOC		Nate Muenks					573-751-4115, ext. 3371		Noxious Weeds	9/30/2016	9/30/2016	Mr. Muenks	Telephone
MDOC	Resource Scientist	Janet Haslerig	2901 W. Truman Boulevard	Jefferson City	MO	65109	573-522-4115, ext. 3198	Janet.Haslerig@mdc.mo.gov	Bald Eagles	12/5/2016	12/5/2016	Ms. Haslerig	Telephone and Email
										-	12/12/2016	Ms. Haslerig	Email
Missouri Department of Agriculture ("MDA")													
MDA		Collin Wamsley					412-399-5251		Noxious Weeds	9/30/2016	9/30/2016	Mr. Wamsley	Telephone
MDA	Legal Counsel									6/24/2016	6/24/2016	Legal Counsel	Telephone

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MDA	Administrative Assistant, Director's Office	Jacqui Conatser					573-751-2613	Jacqui.Conatser@mda.mo.gov		5/16/2017	5/16/2017	Ms. Conatser	Telephone
										5/17/2017			Email
										5/24/2017 6/5/2017			Voice Email
MDA	General Counsel	Darryl M. Chatman	1616 Missouri Blvd	Jefferson City	MO	65102	573-751-5625	darryl.chatman@mda.mo.gov		-	6/6/2017	Mr. Chatman	Email
LOCAL													
Scott County, Illinois													
Scott County Soil and Water Conservation District ("SWCD")	Resource Conservationist	Lance Mueller	656 North Main	Winchester	IL	62694	217-742-9561	lance.mueller@il.nacdnet.net		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										9/7/2016	9/28/2016	Mr. Mueller	Email
										9/28/2016	9/28/2016	Mr. Mueller	Email
										3/28/2017			Supplemental Information Letter
Scott County	Chief County Assessment Officer	Lorrie Koch	35 E Market Street	Winchester	IL	62694	217-742-5751	scottcoassessor@frontier.com		10/6/2016	10/6/2016	Ms. Koch	Telephone
Greene County, Illinois													
Greene County SWCD	Administrative Coordinator	Annyce Winters	RR3, Box 129	Carrollton	IL	62016	217-942-5464	annyce.winters@il.nacdnet.net		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter
Greene County	Floodplain Management	Stan Crusius	519 N. Main St	Carrollton	IL	62016	217-942-5443		Floodplain Permit	7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter
Greene County	Clerk	Debbie Banghart					217-942-5443			10/12/2016	10/12/2016	Ms. Banghart	Telephone
Roodhouse, Illinois	City Clerk	Patty Plahn					217-589-4351			10/12/2016	10/12/2016	Ms. Plahn	Telephone
White Hall, Illinois	City Clerk	Mona McMillan	116 East Sherman Street	White Hall	IL	62092	217-374-2345			10/12/2016	10/12/2016	Ms. McMillan	Telephone
Carrollton, Illinois	City Clerk	Mike Schneider					217-942-3814			10/12/2016	10/12/2016		Telephone
										10/17/2016	10/17/2016	Mr. Schneider	Telephone
Jersey County, Illinois													
Jersey County SWCD	Resource Conservationist	Jeff Blackorby	604 E. Franklin	Jerseyville	IL	62052	618-498-3712	jeff.blackorby@il.nacdnet.net		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										9/7/2016			Email
										9/28/2016	11/3/2016	Mr. Blackorby	Email
										3/28/2017			Supplemental Information Letter
Jersey County	Code Administrator	Cindy Cregmiles	200 N. Lafayette, Suite 6	Jerseyville	IL	62052	618-498-5571 x146	codeadmin1@jerseycounty-il.us	Floodplain and Stormwater Development Permits	7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										12/12/2016	12/12/2016	Ms. Cregmiles	Telephone
										3/28/2017			Supplemental Information Letter
										6/7/2017	6/7/2017	Ms. Cregmiles	Telephone
7/10/2017	7/10/2017	Ms. Cregmiles	Telephone										
Jersey County	Planning and Zoning	Craig McGraw					618-498-5571, ext-112	codeadmin1@jerseycounty-il.us		10/6/2016	10/6/2016	Mr. McGraw	Telephone
										10/6/2016	10/6/2016	Mr. McGraw	Email
										12/8/2016	12/9/2016	Mr. McGraw	Email
Jersey County	Highway Department	Tom Klasner					618-498-6074			6/7/2017	6/7/2017	Mr. Klasner	Telephone
University of Illinois	Illinois Natural History Survey - Prairie Research Institute	Christopher Phillips	1885 Natural Resources Bldg, 607 E. Peabody Dr	Champaign	IL	61820	217-244-7077	caphill@illinois.edu , lithasia@gmail.com	Timber Rattlesnake Survey Information	8/26/2016	8/26/2016	Mr. Phillips	Telephone
										8/29/2016	8/29/2016	Mr. Phillips	Email
										9/1/2016	9/1/2016	Mr. Phillips	Email
										9/1/2016	9/1/2016	Mr. Phillips	Telephone
										10/17/2016	10/17/2016	Mr. Phillips	Email
St. Charles County, Missouri													
St. Charles County SWCD	District Manager	Frankie Coleman	160 St. Peters Centre Blvd	St. Peters	MO	63376	636-922-2833	frankie.coleman@swcd.mo.gov		9/7/2016	9/16/2016	Mr. Coleman	Email
										9/28/2016			Email
										3/28/2017			Supplemental Information Letter

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Agency Correspondence Tracking List
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Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
St. Charles County SWCD		Charles Perkins									9/30/2016	Mr. Perkins	Telephone
St. Charles County	Community Development Department	Rich Gnecco	201 N Second St	St. Charles	MO	63301	636-949-1814 x7160	development@sccmo.org		7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter
										6/8/2017			Voicemail
										6/13/2017	6/13/2017	Mr. Gnecco	Voicemail and Telephone
St. Charles County	Development Review Department	John Baron	201 N Second St	St. Charles	MO	63301	636-949-1817	jbaron@sccmo.org	Land Disturbance Permits, Natural Watercourse Permits	8/10/2016	8/10/2016	Mr. Baron	Telephone
										-	8/12/2016	Mr. Baron	Email
										-	8/17/2016	Mr. Baron	Email
										7/7/2017	7/7/2017	Mr. Baron	Telephone
										7/29/2016			Notice of Prefiling Letter
St. Charles County	Floodplain Vision Board	Ellie Marr	201 N Second St	St. Charles	MO	63301	636-949-7900 x7235	emarr@sccmo.org	Floodplain Permits	8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter
St. Charles County		Mick Zerr	201 N Second St	St. Charles	MO	63301	636-234-1192	mzerr@sccmo.org	Building Permits (if needed)				
St. Charles County	Highway Department	Charles Kuehler	201 N Second St	St. Charles	MO	63301	636-949-7305	ckuehler@sccmo.org	Special Use Permits	6/8/2017	6/8/2017	Mr. Kuehler	Telephone
St. Charles County	Community Development Department	Robert Myers	201 N Second St, Suite 420	St. Charles	MO	63301	636-949-7335, ext. 7225	rmyers@sccmo.org	Planned Developments	9/13/2016	9/26/2016	Mr. Myers	Email
										9/28/2016	9/28/2016	Mr. Myers	Email
										12/8/2016	12/8/2016	Mr. Meyers	Email
City of West Alton	Planning and Zoning Commissioner	Jason Farley	P.O. Box 42, West Alton City Hall	West Alton	MO	63386	314-306-4695		Land Use Permit	7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										10/6/2016	10/12/2016	Mr. Farley	Voicemail and Telephone
										3/28/2017			Supplemental Information Letter
City of West Alton	Floodplain Administrator	Janet Neustadt	P.O. Box 42, West Alton City Hall	West Alton	MO	63386	636-899-0233		Floodplain Permit	7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017			Supplemental Information Letter
										7/14/2016			Voicemail and Email
Consolidated North County Levee District	President	Kevin Machens	135 Payne Road	Portage Des Sioux	MO	63373	314-750-2519	skmachens@live.com	Letter of Endorsement	7/29/2016			Notice of Prefiling Letter
										8/3/2016	8/3/2016		Meeting
										8/5/2016			Open House Invitation Letter
										9/15/2016	9/15/2016	Mr. Machens	Telephone and Email
										9/29/2016	9/29/2016	Mr. Machens	Telephone
	3/28/2017			Supplemental Information Letter									
	Legal Counsel	Kevin Wibbenmeyer	1049 First Capitol Drive	St. Charles	MO	63301	636-724-3355	kwibbenmeyer@wibbenmeyerlaw.com	Letter of Endorsement	-	2/15/2017	Mr. Wibbenmeyer	Email and Letter
										2/20/2017	2/20/2017	Mr. Wibbenmeyer	Telephone
										2/23/2017	3/24/2017	Mr. Wibbenmeyer	Email and Letter
										-	3/24/2017	Mr. Wibbenmeyer	Email
4/14/2017										4/17/2017	Mr. Wibbenmeyer	Email	
-	5/5/2017	Mr. Wibbenmeyer	Email										
City of Cottleville	Public Works Engineer	Rich Francis					636-498-6565		Planned Developments	12/12/2016			Voicemail
City of Dardenne Prairie	Public Works Engineer	Luke Kehoe					636-561-1718		Planned Developments	12/12/2016			Voicemail
City of Flint Hill	City Engineer	Tom Rothermich					636-327-4441		Planned Developments	12/12/2016			Voicemail
City of Foristell	City Engineer	Dale Stokes					636-463-2123		Planned Developments	12/12/2016			Voicemail
City of Lake Saint Louis	Community Development Manager	Brenda Qwellen					636-463-1200		Planned Developments	12/12/2016			Voicemail
City of New Melle		TBD					636-828-4807		Planned Developments	12/15/2016			Voicemail
City of Portage des Sioux	Mayor	Mark Warner					636-899-0640		Planned Developments	12/12/2016	12/12/2016	Mr. Warner	Telephone
										2/3/2017	2/3/2017	Mr. Warner	Telephone
City of St. Charles	Director of Economic Development	David Leezer					636-949-3200		Planned Developments	12/12/2016	12/12/2016	Mr. Leezer	Voicemail and Telephone

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City of St. Paul		TBD					636-980-1063		Planned Developments	12/12/2016			Voicemail
City of St. Peters		Melissa Vullmer					636-477-6600		Planned Developments	12/12/2016			Voicemail
City of O'Fallon	Assistant Planning and Development Director	Shannon Gerard					636-379-5467		Planned Developments	12/15/2016			Voicemail
City of Weldon Spring	City Engineer	Joe Nichols					636-441-2110		Planned Developments	12/12/2016	12/13/2016	Mr. Nichols	Voicemail and Telephone
City of Wentzville	City Marketing Director	Dan Lang					636-332-5101		Planned Developments	12/12/2016	12/12/2016	Mr. Lang	Telephone
Town of Augusta		TBD					636-228-4689		Planned Developments	12/15/2016			Voicemail
Cadre Development, LLC		Rowdy Montgomery					314-608-7915		Planned Developments	12/15/2016	12/15/2016	Mr. Montgomery	Telephone
St. Louis County/City, Missouri													
St. Louis County	Department of Highways and Traffic	James M. Knoll	41 South Central Ave	Clayton	MO	63105	314-615-8554	jmknoll@stlouisco.com	Floodplain, Land Disturbance Permits	7/29/2016			Notice of Prefiling Letter
										8/5/2016			Open House Invitation Letter
										3/28/2017	4/4/2017	Mr. Knoll	Supplemental Information Letter and Email
										6/8/2017			Voicemail
6/13/2017	6/13/2017	Mr. Knoll	Telephone										
St. Louis County	Department of Planning	Gail Choate					314-615-2520			10/6/2016	10/6/2016	Ms. Choate	Telephone
Spanish Lake Community Association		TBD	11726 Larimore Rd	St. Louis	MO	63138				8/5/2016			Open House Invitation Letter
Explore St. Louis	Senior Administrative Assistant	Linda Mattus	701 Convention Plaza, Suite 300	St. Louis	MO	63101	314-992-0633	lmattus@explorestlouis.com		12/13/2016	12/13/2016	Ms. Mattus	Telephone and Email
City of St. Louis Water Division	Director of Public Utilities	Curtis Skouby, PE	1640 S. Kingshighway	St. Louis	MO	63110	314-633-9000			2/2/2017	2/2/2017	Mr. Skouby	Telephone
St. Louis County SWCD		Jennifer Fear	160 St. Peters Centre Blvd	St. Peters	MO	63376	636-922-2833			3/1/2017	3/1/2017	Ms. Fear	Telephone
										3/28/2017			Supplemental Information Letter
Native American Tribes													
Absentee-Shawnee Tribe of Indians of Oklahoma	Tribal Historic Preservation Officer	Leonard Longhorn	2025 South Gordon Cooper Drive	Shawnee	OK	74801	405-275-4030	leonard.longhorn@astribe.com	Native American Coordination	6/30/2016			Telephone Message
										7/29/2016			Notice of Prefiling Letter
	8/16/2016			Open House Invitation Letter									
	3/24/2017			Voicemail									
	3/31/2017			Supplemental Information Letter									
Governor	Ms. Edwina Bulter- Wolfe	2025 South Gordon Cooper Drive	Shawnee	OK	74801				3/31/2017			Supplemental Information Letter	
Cherokee Nation	Cultural Resources	Dr. Richard Allen	PO Box 948	Tahlequah	OK	74465	918-456-6485		Native American Coordination	10/19/2016			Voicemail
										10/27/2016			Letter
										3/28/2017			Attempted Telephone Call, No Response
	3/31/2017			Supplemental Information Letter									
	3/31/2017			Supplemental Information Letter									
	Administrative Liaison	Pat Gwin	PO Box 948	Tahlequah	OK	74465	918-453-5000				-	4/4/2017	
Special Projects Officer	Elizabeth Toombs	PO Box 948	Tahlequah	OK	74465	918-453-5389	elizabeth-toombs@cherokee.org			4/12/2017			Email
										-	5/18/2017	Ms. Toombs	Email with Letter

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Delaware Nation	Director of Cultural Preservation	Ms. Nekole Alligood	P.O. Box 825 31064 State Highway 281	Anadarko	OK	73005	405-247-2448	nalligood@delawarenation.com	Native American Coordination	6/30/2016			Telephone Message		
										7/29/2016			Notice of Prefiling Letter		
										8/16/2016			Open House Invitation Letter		
	3/24/2017	3/24/2017	Reception	Telephone Message and Voicemail											
	3/31/2017			Supplemental Information Letter											
	3/31/2017			Supplemental Information Letter											
President	Mr. Kerry Holton	PO Box 825	Anadarko	OK	73005										
Section 106 Manager	Mr. John Ross	PO Box 825	Anadarko	OK	73005								Supplemental Information Letter		
Delaware Tribe of Indians	Historic Preservation Office	Dr. Brice Obermeyer	1200 Commercial Street Roosevelt Hall, Room 212	Emporia	KS	66801	918-335-7026	bobermeyer@delawaretribe.org	Native American Coordination	6/30/2016			Attempted Telephone Call, No Response		
										7/29/2016			Notice of Prefiling Letter		
										8/16/2016			Open House Invitation Letter		
	3/24/2017	3/24/2017		Telephone											
	3/31/2017			Supplemental Information Letter											
Chief	Chet Brooks	1200 Commercial Street Roosevelt Hall, Room 212	Emporia	KS	66801								Supplemental Information Letter		
Eastern Shawnee Tribe of Oklahoma	Cultural Preservation Director	Ms. Robin Dushane	P.O. Box 350 127 West Oneida	Seneca	MO	64865	918-666-2435, ext. 247 (Office) 918-801-6677 (Cell)	radushane@gmail.com	Native American Coordination	6/30/2016			Voicemail		
										7/29/2016			Notice of Prefiling Letter		
										8/16/2016			Open House Invitation Letter		
	3/24/2017			Voicemail											
	3/31/2017			Supplemental Information Letter											
Chief	Glenna J Wallace	12755 S 705 Rd	Wyandotte	OK	74370								Supplemental Information Letter		
Ho-Chunk Nation	THPO	Bill Quackenbush	PO Box 667	Black River Falls	WI	54615	715-284-7181 x1121	bill.quackenbush@ho-chunk.com	Native American Coordination	10/19/2016	10/19/2016	Mr. Quackenbush	Telephone		
										10/27/2016			Letter		
										10/28/2016			Email		
										1/31/2017			Hardcopy of Phase I Reports		
										3/28/2017	3/28/2017	Staff	Telephone Message		
										3/31/2017			Supplemental Information Letter		
										4/13/2017			Email		
	4/21/2017			Hardcopy of Phase I Addendum Reports											
	7/14/2017			Hardcopy of Phase I Addendum II and Phase II Reports											
	President	Mr. Wilford Cleveland	PO Box 667	Black River Falls	WI	54615									Supplemental Information Letter
Huron Potawatomi Nation	Council/Board	Robyn Burlingham	1484 Mno-Bmadzewen Way	Fulton	MI	49502	269-704-8373	rburlingham@nhbpi.com	Native American Coordination	10/19/2016	10/19/2016	Ms. Burlingham	Telephone		
										10/27/2016			Letter		
										3/28/2017			Voicemail		
	3/31/2017			Supplemental Information Letter											
	Cultural Specialist	Mon-ee Zapata	311 State Street	Grand Rapids	MI	49503								Supplemental Information Letter	
Chairman	Jamie Stuck	2221 1 1/2 Mile Road	Fulton	MI	49052							Supplemental Information Letter			
Iowa Tribe of Kansas and Nebraska	Tribal Historic Preservation Officer	Mr. Lance M. Foster	3345 B. Thrasher Road	White Cloud	KS	66094	785-595-3258	lfoster@iowas.org	Native American Coordination	6/30/2016	7/6/2016	Mr. Foster	Telephone		
										7/29/2016			Notice of Prefiling Letter		
										8/16/2016			Open House Invitation Letter		
										1/31/2017			Hardcopy of Phase I Reports		
										3/27/2017	3/27/2017	Reception	Telephone Message		
										3/31/2017			Supplemental Information Letter		
										4/21/2017			Hardcopy of Phase I Addendum Reports		
	7/14/2017			Hardcopy of Phase I Addendum II and Phase II Reports											
	Chairman	Mr. Timothy Rhodd	3345 B. Thrasher Road	White Cloud	KS	66094	785-595-3347								Supplemental Information Letter

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Iowa Tribe of Oklahoma	Division Director	Patrick Durham	R.R. 1, Box 721	Perkins	OK	74059-9599	405-547-5433, ext. 350	pdurham@iowanation.org	Native American Coordination	6/30/2016	6/30/2016	Mr. Durham	Telephone										
										7/29/2016			Notice of Prefiling Letter										
										8/16/2016			Open House Invitation Letter										
										3/27/2017			Voicemail										
										3/31/2017			Supplemental Information Letter										
										4/21/2017			Hardcopy of Phase I Addendum Reports										
	7/14/2017			Hardcopy of Phase I Addendum II and Phase II Reports																			
Iowa Tribe of Oklahoma	Chairman/ THPO	Mr. Bobby Walkup	335588 E. 750 Road	Perkins	OK	74059				3/31/2017			Supplemental Information Letter										
	Kaw Indian Nation of Oklahoma	Museum Director	Ms. Crystal Douglas	Drawer 50	Kaw City	OK	74641	580-269-2552	Crystal_douglas@kawnation.com	Native American Coordination	6/30/2016	6/30/2016	Ms. Douglas	Telephone									
8/16/2016													Open House Invitation Letter										
8/30/2016													Voicemail										
9/6/2016													Email										
9/21/2016											9/21/2016	Ms. Douglas	Telephone										
12/19/2016											12/19/2016	Ms. Douglas	Telephone										
1/31/2017													Hardcopy of Phase I Reports										
3/27/2017											3/27/2017	Ms. Douglas	Telephone										
3/29/2017													Email										
3/31/2017													Supplemental Information Letter										
-											4/4/2017	Ms. Douglas	Voicemail										
4/7/2017											4/7/2017	Ms. Douglas	Telephone										
4/21/2017													Hardcopy of Phase I Addendum Reports										
7/14/2017													Hardcopy of Phase I Addendum II and Phase II Reports										
Kaw Indian Nation of Oklahoma	Chairman	Ms. Jacqlyn Secondine Hensley	Drawer 50	Kaw City	OK	74641		execsec@kawnation.com	Native American Coordination	7/29/2016, 8/9/16			Notice of Prefiling Letter, courtesy follow up copy by email										
										8/16/2016			Open House Invitation Letter										
										9/6/2016			Email										
										1/31/2017			Hardcopy of Phase I Reports										
										3/29/2017			Email										
										3/31/2017			Supplemental Information Letter										
										4/21/2017			Hardcopy of Phase I Addendum Reports										
										7/14/2017			Hardcopy of Phase I Addendum II and Phase II Reports										
										Kickapoo Tribe in Kansas	NAGPRA Director	Ms. Nellie Cadue	1107 Gold Finch Road P.O. Box 271	Horton	KS	64439	785-486-2601, ext.-5		Native American Coordination	6/30/2016			Voicemail
											Legal	Eric Sheets					785-748-4281			7/29/2016			Notice of Prefiling Letter
Section 106	Ms. Bernadette Thomas	1107 Gold Finch Road	Horton	KS	64439-9537	785-486-3404		8/16/2016				Open House Invitation Letter											
Chairman	Lester Randall	1107 Gold Finch Road	Horton	KS	64439-9537			3/27/2017	3/27/2017		Mr. Sheets	Telephone											
Kickapoo Traditional Tribe of Texas	Director	Mr. Juan Garza, Jr.	HCR 1, Box 9700	Eagle Pass	TX	78852	830-758-1936	juangarza73@yahoo.com	Native American Coordination	3/31/2017			Supplemental Information Letter										
										6/30/2016			Voicemail										
										7/29/2016	Delivery Refused		Notice of Prefiling Letter										
										8/16/2016			Open House Invitation Letter										
	Paralegal, Legal Department	Mr. Hector H. Gonzalez	PO Box 2505	Eagle Pass	TX	78852	830-421-5899	hector.gonzalez@kttribe.org		3/27/2017			Voicemail										
3/31/2017			Supplemental Information Letter																				
Kickapoo Tribe of Oklahoma	Attorney/ Preservation Rep	Kent Collier	PO Box 70	McCloud	OK	74851	405-964-4227	kcollier@kickapootribeofoklahoma.com	Native American Coordination	-	5/10/2017	Mr. Gonzalez	Email										
										6/30/2016			Attempted Telephone Call, No Response										
										7/29/2016			Notice of Prefiling Letter										
										8/16/2016			Open House Invitation Letter										
	Chairman	Mr. Gilbert Salazar	PO Box 70	McCloud	OK	74851			3/27/2017	3/27/2017	Staff	Telephone Message											
3/31/2017			Supplemental Information Letter																				
3/31/2017			Supplemental Information Letter																				

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Match-e-be-nash-she-wish Band of Potawatomi Indians of Michigan	THPO	DJ Hoffman	PO Box 218	Dorr	MI	49323	906-632-6896		Native American Coordination	10/19/2016			Telephone, Voicemail
										10/27/2016	Unable to Forward		Letter
										3/28/2017			Voicemail
	3/31/2017		Returned	Supplemental Information Letter									
	3/31/2017			Supplemental Information Letter									
	3/31/2017			Supplemental Information Letter									
Miami Tribe of Oklahoma	Acting Tribal Historic Preservation Officer	Ms. Diane Hunter	P.O. Box 1326	Miami	OK	74355	918-541-8966	dhunter@miamination.com	Native American Coordination	6/30/2016	6/30/2016	Ms. Hunter	Telephone
										7/29/2016, 8/9/16			Notice of Prefiling Letter, courtesy follow up copy by email
										-	8/12/2016	Ms. Hunter	Email
										8/16/2016			Open House Invitation Letter
										3/7/2017	3/7/2017	Ms. Hunter	Voicemail and Telephone
	3/7/2017			Hardcopy of Phase I Reports									
	3/31/2017			Supplemental Information Letter									
	4/21/2017			Hardcopy of Phase I Addendum Reports									
	7/14/2017			Hardcopy of Phase I Addendum II and Phase II Reports									
	3/31/2017			Supplemental Information Letter									
Chief	Douglas Lankford	PO Box 1326	Miami	OK	74355				6/30/2016	6/30/2016	Mr. Fox	Telephone	
									7/29/2016	8/16/2016	Mr. Fox	Notice of Prefiling Letter; Email Response	
Osage Nation	Archaeologist	John Fox	P.O. Box 779 627 Grandview	Pawhuska	OK	74056	918-287-5328	ahunter@osagetribe.org	Native American Coordination	8/16/2016			Open House Invitation Letter
										8/18/2016	8/18/2016	Mr. Fox	Telephone
										9/6/2016			Email
										12/19/2016	12/19/2016	Mr. Fox	Telephone
										1/31/2017		Rejected	Hardcopy of Phase I Reports
										3/3/2017	3/3/2017	Mr. Fox	Telephone
										3/6/2017	3/6/2017	Reception	Resend Hardcopy of Phase I Reports and Telephone Message
	3/31/2017			Supplemental Information Letter									
	4/21/2017			Hardcopy of Phase I Addendum Reports									
	-	3/1/2017	Dr. Hunter	Email									
	3/31/2017			Supplemental Information Letter									
	4/21/2017			Hardcopy of Phase I Addendum Reports									
	7/14/2017			Hardcopy of Phase I Addendum II and Phase II Reports									
Peoria Tribe of Indians of Oklahoma	Logan Pappenfort		PO Box 1527 118 S. Eight Tribes Trails	Miami	OK	74355	918-540-2535	lpappenfort@peoriatribe.com	Native American Coordination	3/31/2017			Supplemental Information Letter
										7/1/2016			Voicemail
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
										3/28/2017	3/28/2017	Mr. Pappenfort	Telephone
										3/31/2017			Supplemental Information Letter
										4/13/2017			CD of Phase I Reports
										4/21/2017			Hardcopy of Phase I Addendum Reports
	7/14/2017			Hardcopy of Phase I Addendum II and Phase II Reports									
	3/31/2017			Supplemental Information Letter									
Repatriation/ NAGPRA Committee, Chairperson	Mr. Jason Dollarhide	118 S Eight Tribes Trails	Miami	OK	74355				3/31/2017			Supplemental Information Letter	

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Ponca Tribe of Nebraska	Tribal Historic Preservation Officer	Mr. Shannon Wright	P.O. Box 288	Niobrara	NE	68760	402-857-3519	swright@poncatribes-ne.org	Native American Coordination	7/1/2016	7/1/2016	Mr. Wright	Telephone
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
										1/31/2017			Hardcopy of Phase I Reports
										3/28/2017	3/28/2017	Mr. Wright	Telephone
										3/31/2017			Supplemental Information Letter
										4/21/2017			Hardcopy of Phase I Addendum Reports
7/14/2017			Hardcopy of Phase I Addendum II and Phase II Reports										
Ponca Tribe of Oklahoma	Tribal Historic Preservation Officer	Ms. Halona Clawson	20 White Eagle Drive	Ponca City	OK	74601	580-762-8104	halona.clawson@ponca.com	Native American Coordination	7/1/2016			Attempted Telephone Call, No Response
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
Ponca Tribe of Oklahoma	Chairman	Mr. Earl S. Howe III	20 White Eagle Drive	Ponca City	OK	74601			Native American Coordination	3/28/2017			Voicemail
										3/31/2017			Supplemental Information Letter
										3/31/2017			Supplemental Information Letter
Citizen Potawatomi Nation	THPO	Dr. Kelli Mosteller	1601 S. Gordon Cooper Drive	Shawnee	OK	74801	405-878-5830	andrew.gourd@potawatomi.org	Native American Coordination	7/1/2016			Voicemail
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
										3/28/2017			Voicemail
										3/31/2017			Supplemental Information Letter
										3/31/2017			Supplemental Information Letter
Citizen Potawatomi Nation	Chairman	Mr. John Barrett, Jr.	1601 S. Gordon Cooper Drive	Shawnee	OK	74801			Native American Coordination	3/31/2017			Supplemental Information Letter
										7/1/2016			Attempted Telephone Call, No Response
										7/29/2016			Notice of Prefiling Letter
Forest County Potawatomi	Tribal Historic Preservation Officer	Ms. Melissa Cook	Cultural Center, Library & Museum PO Box 340 8130 Mishkoswen Drive	Crandon	WI	54520	800-960-5479	melissa.cook@fcpotawatomi-nsn.gov	Native American Coordination	8/16/2016			Open House Invitation Letter
										7/29/2016			Notice of Prefiling Letter
										3/28/2017			Voicemail
										3/31/2017			Supplemental Information Letter
Forest County Potawatomi	Chairman	Mr. Harold Frank	PO Box 340	Crandon	WI	54520			Native American Coordination	3/31/2017			Supplemental Information Letter
										7/1/2016			Attempted Telephone Call, No Response
Potawatomi Nation- Hannahville Indian Community (Hannahville Indian Community of Michigan)	Council/Board	Mr. Kenneth Meshigaud	N14911 Hannahville B-1 Road	Wilson	MI	49896	906-466-9933	kennethmeshigaud@hannahville.org	Native American Coordination	7/1/2016			Attempted Telephone Call, No Response
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
										10/19/2016			Voicemail
										3/28/2017			Voicemail
										3/31/2017			Supplemental Information Letter
Potawatomi Nation- Hannahville Indian Community (Hannahville Indian Community of Michigan)	THPO	Mr. Earl Meshigaud	N14911 Hannahville B-1 Road	Wilson	MI	49896			Native American Coordination	3/31/2017			Supplemental Information Letter
										7/1/2016			Voicemail
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
										3/28/2017			Voicemail
Pokagon Band of Potawatomi Indians	Tribal Historic Preservation Officer	Mr. Marcus Winchester	PO Box 180 58620 Sink Road,	Dowagiac	MI	49047	269-462-4224	marcus.winchester@pokagonband- nsn.gov	Native American Coordination	7/1/2016			Voicemail
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
										3/28/2017			Voicemail
										3/31/2017			Supplemental Information Letter
Pokagon Band of Potawatomi Indians	Chairman	Mr. John Warren	PO Box 180	Dowagiac	MI	49047			Native American Coordination	3/31/2017			Supplemental Information Letter
										3/31/2017			Supplemental Information Letter
Prairie Band Potawatomi Nation	THPO	Mr Jason Scott Wesaw	PO Box 180	Dowagiac	MI	49047			Native American Coordination	7/1/2016			Voicemail
										7/29/2016			Notice of Prefiling Letter
										8/16/2016			Open House Invitation Letter
										3/28/2017			Voicemail
										3/31/2017			Supplemental Information Letter
										3/31/2017			Supplemental Information Letter
Prairie Band Potawatomi Nation	Chairperson	Ms. Liana Onnen	16281 Q Road	Mayetta	KS	66509			Native American Coordination	3/31/2017			Supplemental Information Letter
										3/31/2017			Supplemental Information Letter

**Spire STL Pipeline
Agency Correspondence Tracking List
Appendix 1-C**

Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence										
Quapaw Tribe of Oklahoma	Chairman	Mr. John Berrey	P.O. Box 765	Quapaw	OK	74363	888-641-4724		Native American Coordination	7/1/2016			Attempted Telephone Call, No Response										
										7/29/2016			Notice of Prefiling Letter										
										8/16/2016			Open House Invitation Letter										
										3/28/2017			Voicemail										
										3/31/2017			Supplemental Information Letter										
	THPO	Mr. Everett Bandy	P.O. Box 765	Quapaw	OK	74363		ebandy@quapawtribe.com	Native American Coordination	-	8/24/2016	Mr. Bandy	Letter										
										1/31/2017			Hardcopy of Phase I Reports										
										3/31/2017	4/28/2017	Mr. Bandy	Supplemental Information Letter and Letter Response										
										4/21/2017			Hardcopy of Phase I Addendum Reports										
										6/28/2017			Voicemail and Email										
Sac and Fox Tribe of the Missouri in Kansas and Nebraska	Chair	Mr. Edmore Green	305 North Main	Reserve	KS	66434	785-742-7471	egreen@sacandfoxcasino.com	Native American Coordination	7/1/2016			Voicemail										
										7/29/2016			Notice of Prefiling Letter										
										8/16/2016			Open House Invitation Letter										
										3/28/2017	3/28/2017	Reception	Voicemail and Telephone Message										
										3/31/2017			Supplemental Information Letter										
										4/21/2017			Hardcopy of Phase I Addendum Reports										
										7/14/2017			Hardcopy of Phase I Addendum II and Phase II Reports										
										Sac and Fox Tribe of the Mississippi in Iowa	Historic Preservation Director	Mr. Johnathan L. Buffalo	349 Meskwaki Road	Tama	IA	52339	641-484-3185	Director.historic@meskwaki-nsn.gov	Native American Coordination	7/1/2016	7/1/2016	Mr. Buffalo	Telephone
																				7/29/2016, 8/9/16			Notice of Prefiling Letter, courtesy follow up copy by email
																				8/16/2016			Open House Invitation Letter
1/31/2017			Hardcopy of Phase I Reports																				
3/28/2017	3/28/2017	Mr. Buffalo	Telephone																				
3/31/2017			Supplemental Information Letter																				
4/13/2017			Email																				
4/21/2017			Hardcopy of Phase I Addendum Reports (c/o Carol Butler)																				
7/14/2017			Hardcopy of Phase I Addendum II and Phase II Reports																				
Chief	Troy Wanatee	349 Meskwaki Road	Tama	IA	52339				3/31/2017				Supplemental Information Letter										
Sac and Fox Nation of Oklahoma	Cultural Resources	Ms. Sandra Kaye Massey	920883 S. Hwy 99, Building A	Stroud	OK	74079	918-968-3526	smassey@sacandfoxnation-nsn.gov	Native American Coordination	7/1/2016			Voicemail										
										7/29/2016			Notice of Prefiling Letter										
										8/16/2016			Open House Invitation Letter										
										3/28/2017	3/28/2017	Ms. Carol Butler	Telephone										
										3/31/2017			Supplemental Information Letter										
										4/21/2017			Hardcopy of Phase I Addendum Reports (c/o Carol Butler)										
										7/14/2017			Hardcopy of Phase I Addendum II and Phase II Reports (c/o Carol Butler)										
	Chief	Elizabeth Kay Rhoads	920883 S. Hwy 99, Building A	Stroud	OK	74079				3/31/2017			Supplemental Information Letter										
Repatriation/ NAGPRA Committee, Chairperson	Mr. Elvis E. Ellis	920883 S. Hwy 99, Building A	Stroud	OK	74079				3/31/2017			Supplemental Information Letter											
Shawnee Tribe	Cultural Resources	Jodi Hayes	PO Box 189	Miami	OK	74355	918-542-2441		Native American Coordination	10/19/2016			Telephone, Voicemail										
										10/27/2016			Letter										
										3/28/2017			Voicemail										
										3/31/2017			Supplemental Information Letter										
	Chief	Ron Sparkman Tonya Tipton	PO Box 189	Miami	OK	74355		tonya@shawnee-tribe.com		-	5/8/2017		Email										

**Spire STL Pipeline
Agency Correspondence Tracking List
Appendix 1-C**

Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence	
United Keetoowah Band of Cherokee Indians of Oklahoma	THPO	Eric Oosahwee-Voss	PO Box 746	Tahlequah	OK	74465	918-456-8698		Native American Coordination	10/19/2016			Voicemail	
										10/27/2016			Letter	
										1/31/2017			Hardcopy of Phase I Reports	
										3/28/2017			Voicemail	
										3/31/2017			Supplemental Information Letter	
										4/21/2017			Hardcopy of Phase I Addendum Reports (c/o Carol Butler)	
	7/14/2017			Hardcopy of Phase I Addendum II and Phase II Reports										
	Chief	Joe Bunch	PO Box 746	Tahlequah	OK	74465				3/31/2017			Supplemental Information Letter	
Winnebago Tribe of Nebraska	THPO/ Chairman	John Blackhawk	PO Box 687	Winnebago	NE	68071	402-878-3103	jblackhawk@aol.com	Native American Coordination	10/19/2016			Telephone, Voicemail	
										10/27/2016			Letter	
										3/28/2017	3/28/2017	Staff	Telephone Message	
		THPO	Mr. Henry Payer	PO Box 687	Winnebago	NE	68071			Native American Coordination	3/31/2017			Supplemental Information Letter
	3/31/2017												Supplemental Information Letter	
	4/10/2017												Voicemail	
	7/14/2017												Hardcopy of Phase I Addendum II and Phase II Reports	
Non-Governmental Organizations ("NGOs") and Environmental NGOs														
Alton Fire Department	Chief	Bernie Sebold	333 E 20th Street	Alton	IL	62002	618-463-3565			10/6/2016			Letter	
Alton Volunteer Emergency Corps	President	Harold Waggoner	2400 Bloomer Dr	Alton	IL	62002	618-462-2202			10/6/2016			Letter	
American Bottomlands Conservancy		TBD	527 Washington Place	East St. Louis	IL	62205				10/6/2016			Letter	
Audubon Missouri	VP and Executive Director	Patricia Hagen	301 Riverlands Way	West Alton	MO	63386	636-899-0090	phagen@audubon.org		10/6/2016			Letter	
Audubon Society-Illinois	Executive Director	Tom Clay	2315 Clear Lake Ave	Springfield	IL	62706	217-544-2473	tclay@illinoisaudubon.org		10/6/2016			Letter	
Audubon Society-Missouri	President	Shari Harden	2101 W Broadway PMB 122	Columbia	MO	65203				10/6/2016			Letter	
Center for American Archaeology		TBD	P.O. Box 366	Kampsville	IL	62053	618-653-4316	caa@caa-archeology.org		10/6/2016			Letter	
Chicago 350	Executive Director	May Boeve	20 Jay Street Suite 732	Brooklyn	NY	11201		may@350.org		10/6/2016			Letter	
City of Jerseyville Economic Development	Director of Building & Zoning and Director of Economic Development	Jeff Soer	115 East Prarie Street	Jerseyville	IL	62052	618-498-3312	jeffsoer@jerseyville-il.us		10/6/2016			Letter	
Ducks Unlimited - Illinois	Manager of Conservation	Mark Flaspohler	101 Park De Ville Dr, Suite B	Columbia	MO	65203	573-234-2132 EX: 178	mflasphler@ducks.org		10/6/2016			Letter	
Ducks Unlimited -Missouri	Manager of Conservation	Mark Flaspohler	101 Park De Ville Dr, Suite B	Columbia	MO	65203	573-234-2132 EX: 178	mflasphler@ducks.org		10/6/2016			Letter	
Earthjustice	President	Trip Van Noppen	50 California Street Suite 500	San Francisco	CA	94111	800-584-6460	headquarters@earthjustice.org		10/6/2016			Letter	
Environment Illinois	Energy Program Director	Rob Sargent	328 S. Jefferson St Suite 620	Chicago	IL	60661	617-747-4317			10/6/2016			Letter	
Great Rivers Greenway	Executive Director	Susan Trautman	6178 Delmar Boulevard	St. Louis	MO	63112	314-436-7009	strauman@grgstl.org		10/6/2016			Letter	
Great Rivers Habitat Alliance	Executive Director	David Stokes	P.O. Box 50014	St. Louis	MO	63150	314-918-1351	info@grha.org		10/6/2016			Letter	
Great Rivers Land Trust	President	John Williams	P.O. Box 821	Alton	IL	62002	618-467-2265			10/6/2016			Letter	
Greene County Economic Development Group	Director	Jim Mager	314 5th St	Carrollton	IL	62016	618-980-5036	gcedginc@gmail.com		10/6/2016			Letter	
Heartwood	Heartwood Coordinator, Illinois	Tabatha Tripp	P.O. Box 1926	Bloomington	IN	47402	740-591-8166	info@heartwood.org		10/6/2016			Letter	
Illinois Chamber of Commerce	President and CEO	Todd Maisch	215 E Adams St	Springfield	IL	62701	217-522-5512 EX: 233	tmaisch@ilchamber.org		10/6/2016			Letter	

**Spire STL Pipeline
Agency Correspondence Tracking List
Appendix 1-C**

Agency Correspondence - Federal, State, Local Agencies, and Native American Tribes

Agency	Region/ Division	Contact Name	Address	City	State	Zip	Contact Phone	Contact Email	Permit/Clearance/ Approval	Date Sent	Response Type/ Date	Responding Contact	Correspondence
Illinois Energy Council		Katie Stonewater	215 E Adams St	Springfield	IL	62701				10/6/2016			Letter
Jacksonville Regional Economic Development Council	Vice President	Bonni Waters	221 E State St	Jacksonville	IL	62650	217.479.4627	bonni@redc.org		10/6/2016			Letter
Missouri Caves and Karst Conservancy	President	Alicia Wallace	P.O. Box 190456	St. Louis	MO	63119		president@mocavesandkarst.org		10/6/2016			Letter
Missouri Chamber of Commerce	President and CEO	Daniel Mehan	428 East Capitol Ave	Jefferson City	MO	65101	573-634-3511			10/6/2016			Letter
Missouri Coalition for the Environment	Executive Director	Heather Navarro	3115 S Grand Blvd Suite 650	St. Louis	MO	63118	314-727-0600	hnavarro@moenviron.org		10/6/2016			Letter
Nature Conservancy - Missouri	State Director	Adam McLane	2800 S Brentwood Blvd	St. Louis	MO	63144	314-968-1105	missouri@tnc.org		10/6/2016			Letter
Nature Conservancy - Illinois	State Director	Michelle Carr	8 S Michigan Ave Suite 900	Chicago	IL	60603	312-580-2100	illinois@tnc.org		10/6/2016			Letter
Old Jamestown Association	President	Ellen Lutzow	P.O. Box 2223	Florissant	MO	63032	314-550-0184			10/6/2016			Letter
One Mississippi Campaign	Campaign Coordinator	Brooke Thurau	14 N Peoria St Suite 4F	Chicago	IL	60607	312-754-0402	bthurau@bluestemcommunications.org		10/6/2016			Letter
Rivers Pointe Fire Department	Chief	Richard Pender	100 Firehouse Drive	West Alton	MO	63386	636-899-1122	info@rppd.com		10/6/2016			Letter
Scott County Development Corporation	President	Pat Van DeVelde	35 E Market Street	Winchester	IL	62694		pat@peakinsuranceagency.net		10/6/2016			Letter
Sierra Club - Illinois Chapter	Chapter Director	Jack Darin	70 E Lake Street Suite 1500	Chicago	IL	60601	312-251-1680 ext. 112	jack.darin@sierraclub.org		10/6/2016			Letter
Sierra Club - Missouri Chapter	Chapter Director	John Hickey	2818 Sutton Blvd	St. Louis	MO	63143	314-644-1011	missouri.chapter@sierraclub.org		10/6/2016			Letter
St. Charles County Economic Development Center	President and CEO	Greg Prestemon	5988 Mid Rivers Mall Drive	St. Charles	MO	63304	636-441-6880	gprestemon@edcsc.com		10/6/2016			Letter
St. Louis Economic Development Partnership	Staff Contact	Kelly Applegate	7733 Forsyth Blvd Suites 2200 & 2300	St. Louis	MO	63105	314.615.7688	info@stipartnership.com		10/6/2016			Letter
Trout Unlimited Mid-Missouri	President	Ryan Verkamp	1777 N Kent Street Suite 100	Arlington	VA	22209	573-817-0631	Ryan.Verkamp@gmail.com		10/6/2016			Letter

Note:
Yellow highlighting indicates correspondence that was sent/received after Spire filed its Response to Environmental Data Request Dated May 11, 2017 on June 1, 2017.



United States Army Corps of Engineers



Indianapolis Office
6420 Castleway West Drive
Indianapolis, IN 46250

T 317.570.6800
F 317.570.6810

July 14, 2017

Project E160438.00

David Meyer
U.S. Army Corps of Engineers
St. Louis District
1222 Spruce Street
St. Louis, Missouri 63103-2833

**Addendum II to Nationwide Permit 12 Pre-Construction Notification and Section 10 Letter of Permission Request
Spire STL Pipeline LLC
Spire STL Pipeline Project (MVS-2016-582)
Scott, Greene, and Jersey Counties, Illinois, and St. Charles and St. Louis Counties, Missouri**

Dear Mr. Meyer:

On behalf of Spire STL Pipeline LLC ("Spire"), GAI Consultants, Inc. ("GAI") submitted a Nationwide Permit 12 Pre-Construction Notification ("PCN") and Section 10 letter of permission request for the Spire STL Pipeline Project ("Project"), located in Scott, Greene, and Jersey Counties, Illinois ("IL"), and St. Charles and St. Louis Counties, Missouri ("MO") to your office on January 27, 2017. An addendum to the PCN was submitted to your office on April 21, 2017. Due to minor changes in the Project alignment, and obtaining additional survey permission, GAI has prepared this addendum to the previously submitted PCN and Section 10 Letter of Permission.

The revised Project will consist of approximately 65 miles of new 24-inch-diameter steel pipeline in two segments. The first segment (referred to as the "24-inch pipeline" portion of the Project) will originate at a new interconnect with the Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois and extend approximately 59 miles through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east through St. Charles County, Missouri. The 24-inch pipeline then crosses the Mississippi River into St. Louis County, Missouri, and terminates at a new interconnect with Laclede Gas Company ("LGC"). The second segment of pipeline (referred to as the "North County Extension"), will consist of a new 24-inch-diameter steel pipeline which will extend approximately six miles from the LGC interconnect through the northern portion of St. Louis County and terminate at a new interconnect with Enable Mississippi River Transmission, LLC ("Enable MRT") and LGC. The total length of the Project pipeline will be approximately 65 miles. The Project also includes the construction of three new metering and regulating ("M&R") stations that provide interconnects with (1) REX in Illinois, (2) LGC in Missouri, and (3) Enable MRT and LGC in Missouri. This Project, as proposed, falls under the oversight of the Federal Energy Regulatory Commission ("FERC").

GAI, on behalf of Spire, is hereby submitting for review a hard copy and an electronic copy of the Project's Nationwide Permit ("NWP") 12 PCN Addendum. This package has been prepared based on the Project adhering to the general and regional conditions of a NWP-12 and Section 401 Water Quality Certification General and Specific Conditions within the State of Illinois and Missouri. Individual water quality certification is now required for all crossings by the Missouri Department of Natural Resources for proposed impacts associated with the North County Extension based on the 2017 Section 401 General and Specific Conditions. Coordination with Missouri Department of Natural Resources ("MDNR") in regard to the individual 401 is ongoing. An Illinois-specific copy of this PCN Addendum has also been provided to the Illinois Department of Natural Resources and the Illinois Environmental Protection Agency concurrently with this submittal for their confirmation of General Section 401 coverage.

United States Fish and Wildlife Service ("USFWS") consultation was initiated on August 29, 2016 and an initial response was received on December 8, 2016. A bat study plan for the Project was submitted on March 24, 2017, and an amendment letter to correspond with the Project changes was sent to USFWS on April 5, 2017. Authorization to proceed with mist net surveys was received from USFWS on May 9, 2017. On June 11, 2017, a modification to the mist net survey plan was submitted to USFWS, and authorization to proceed was received on June 12, 2017.

Correspondence with the Illinois Historic Preservation Agency ("IHPA") and the Missouri Historic Preservation Agency ("MHPA") was initiated on August 29, 2016. Subsequently, a Phase I archaeological investigation was conducted and

results submitted to both IHPA and MHPA. A response from MHPA was received on March 23, 2017 in regard to the Phase I investigation. A Project addendum Report was submitted to both IHPA and MHPA on April 21, 2017 regarding the recent changes in the Project alignment, as well as the addition of the North County Extension. A concurrence letter was received from IHPA on June 22, 2017. Additional investigations were conducted in March and April 2017, as property access became available to survey. Information regarding these investigations will be provided to IHPA and MHPA concurrently with the July 2017 FERC filing. Additional responses from these agencies will be provided once received in the anticipation that this permit application's review can be initiated without those documents in hand. Since a portion of the Project is currently unavailable for cultural resources investigation access at this time, we are requesting authorization of Single and Complete Projects that receive this concurrence on a time-staggered basis. Agency correspondence is included as Attachment B in the attached PCN addendum.

Nationwide Permit (NWP) 12 and Section 10 Letter of Permission Request

As currently proposed, temporary impacts to 80 streams and 47 wetlands will be necessary to construct the Project. Impacted streams and wetlands will be crossed using the dry-ditch open-cut method. A dam and flume method of dewatering is installed to create a dry work area, the trenches are dug, the pipeline is placed, and the trench is then refilled and the work area reclaimed. Additionally, temporary crossings of 26 streams and 21 wetlands located within the Project workspace and along associated access roads will be required during construction of the Project. Other aquatic resources, including the Mississippi and Missouri Rivers, Coldwater Creek, Spanish Lake, and Sunfish Lake, will be crossed using a Horizontal Directional Drill ("HDD") method. This method involves boring a tunnel beneath the aquatic resources through which the pipeline will be pulled and installed. No physical impacts to the aquatic resources are anticipated to occur with this construction method. Detailed information regarding these impacts can be found in Tables 1 and 2 in the attached PCN addendum.

Avoiding stream and wetland impacts has been one of the driving factors in designing the proposed Project, and the currently proposed alignment represents an alternative that reduces stream and wetland impacts to the furthest extent practicable, while still meeting the purpose and need of the Project. Spire intends to utilize mitigation banking programs in IL and MO should the District Engineer determine that compensatory mitigation is required for proposed impacts. Further avoidance and minimization includes the placement of timber mats for equipment crossings of streams and wetlands, and the Limit of Disturbance ("LOD") width will be generally narrowed to a 75-foot width at the majority of the resource crossings.

Streams and Wetlands

Fieldwork associated with stream and wetland investigations for the Project was conducted between September 2016 and June 2017. The surveys identified streams and wetlands within a approximately 300-foot wide corridor centered on the proposed pipeline, and a 50-foot wide corridor surrounding the proposed access roads. Field investigations identified 118 wetlands, 216 waterbodies, and 12 ponds within the current Project study area. These features are outlined in the Addendum II to the Wetland Delineation and Stream Identification Report, included in the attached PCN Addendum. Approximately 1.7 miles of the 24-inch pipeline and 1.3 miles of the North County Extension remain unsurveyed due to property access constraints. Desktop identified aquatic resources have been included in these areas to supplement the stream and wetland delineation field efforts.

Closing

Spire and GAI thank you in advance for your review of this NWP-12 PCN package. Please feel free to contact me at 614-499-6258, or at j.fuller@gaiconsultants.com if there are any questions or concerns.

Sincerely,

GAI Consultants, Inc.



Jayne Fuller
Environmental Manager

Attachments: Nationwide Permit 12 Pre-Construction Notification

CC: Illinois Department of Natural Resources, Illinois Environmental Protection Agency, Missouri Department of Natural Resources



Indianapolis Office
6420 Castleway West Drive
Indianapolis, IN 46250

T 317.570.6800
F 317.570.6810

July 14, 2017
Project E160438.00

David Meyer
U.S. Army Corps of Engineers
St. Louis District
1222 Spruce Street
St. Louis, Missouri 63103-2833

**Addendum II to Nationwide Permit 12 Joint Permit Application
Spire STL Pipeline LLC
Spire STL Pipeline Project (MVS-2016-582)
Scott, Greene, and Jersey Counties, Illinois**

Dear Mr. Meyer:

On behalf of Spire STL Pipeline LLC ("Spire"), GAI Consultants, Inc. ("GAI") submitted a Nationwide Permit 12 Joint Permit Application ("JPA") and Section 10 letter of permission request for the Spire STL Pipeline Project ("Project"), located in Scott, Greene, and Jersey Counties, Illinois ("IL"), and St. Charles and St. Louis Counties, Missouri ("MO") to your office on January 27, 2017. An addendum to the JPA application was submitted to your office on April 21, 2017. Due to minor changes in the Project alignment, and obtaining additional survey permissions, GAI has prepared this addendum to the previously submitted JPA.

The revised Project will consist of approximately 65 miles of new 24-inch-diameter steel pipeline in two segments. The first segment (referred to as the "24-inch pipeline" portion of the Project) will originate at a new interconnect with the Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois and extend approximately 59 miles through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east through St. Charles County, Missouri. The 24-inch pipeline then crosses the Missouri River into St. Louis County, Missouri, and terminates at a new interconnect with Laclede Gas Company ("LGC"). The second segment of pipeline (referred to as the "North County Extension"), will consist of a new 24-inch-diameter steel pipeline which will extend approximately six miles from the LGC interconnect through the northern portion of St. Louis County and terminate at a new interconnect with Enable Mississippi River Transmission, LLC ("Enable MRT") and LGC. The total length of the Project pipeline will be approximately 65 miles. The Project also includes the construction of three new metering and regulating ("M&R") stations that provide interconnects with (1) REX in Illinois, (2) LGC in Missouri, and (3) Enable MRT and LGC in Missouri. This Project, as proposed, falls under the oversight of the Federal Energy Regulatory Commission (FERC).

GAI, on behalf of Spire, is hereby submitting for review two hard copies and an electronic copy of the Project's Nationwide Permit ("NWP") 12 JPA Addendum. This package has been prepared based on the Project adhering to the general and regional conditions of a NWP-12 and Section 401 Water Quality Certification General and Specific Conditions within the State of Illinois. A copy of this JPA Addendum has also been provided to the Illinois Department of Natural Resources and the Illinois Environmental Protection Agency concurrently with this submittal for their confirmation of General Section 401 coverage.

United States Fish and Wildlife Service ("USFWS") consultation was initiated on August 29, 2016 and an initial response was received on December 8, 2016. A bat study plan for the Project was submitted on March 24, 2017, and an amendment letter to correspond with the Project changes was sent to USFWS on April 5, 2017. Authorization to proceed with mist net surveys was received from USFWS on May 9, 2017. On June 11, 2017, a modification to the mist net survey plan was submitted to USFWS, and authorization to proceed was received on June 12, 2017.

Correspondence with the Illinois Historic Preservation Agency ("IHPA") was initiated on August 29, 2016. Subsequently, a Phase I archaeological investigation was conducted and results submitted to IHPA. A Project addendum Report was submitted to IHPA on April 21, 2017 regarding the recent changes in the Project alignment, as well as the addition of the North County Extension. A concurrence letter was received from IHPA on June 22, 2017.

Additional investigations were conducted in March and April 2017, as property access became available to survey. Information regarding these investigations will be provided to IHPA concurrently with the July 2017 FERC filing. Additional responses from these agencies will be provided once received in the anticipation that this permit application's review can be initiated without those documents in hand. Since a portion of the Project is currently unavailable for cultural resources investigation access at this time, we are requesting authorization of Single and Complete Projects that receive this concurrence on a time-staggered basis. Agency correspondence is included as Attachment B in the attached PCN addendum.

Nationwide Permit (NWP) 12 Joint Permit Application

As currently proposed, temporary impacts to 62 streams and 32 wetlands will be necessary to construct the Project in Illinois. Impacted streams and wetlands will be crossed using the dry-ditch open-cut method. A dam and flume method of dewatering is installed to create a dry work area, the trenches are dug, the pipeline is placed, and the trench is then refilled and the work area reclaimed. Additionally, temporary crossings of 18 streams and 10 wetlands located within the Project workspace and along associated access roads will be required during construction of the Project. Other aquatic resources, including the Mississippi River, will be crossed using a Horizontal Directional Drill (HDD) method. This method involves boring a tunnel beneath the aquatic resources through which the pipeline will be pulled and installed. No physical impacts to the aquatic resources are anticipated to occur with this construction method. Detailed information regarding these impacts can be found in Tables 1 and 2 in the attached JPA addendum.

Avoiding stream and wetland impacts has been one of the driving factors in designing the proposed Project, and the currently proposed alignment represents an alternative that reduces stream and wetland impacts to the furthest extent practicable, while still meeting the purpose and need of the Project. Spire intends to utilize mitigation banking programs in IL should the District Engineer determine that compensatory mitigation is required for proposed impacts. Further avoidance and minimization includes the placement of timber mats for equipment crossings of streams and wetlands, and the Limit of Disturbance (LOD) width will be narrowed to a 75-foot width at all resource crossings.

Streams and Wetlands

Fieldwork associated with stream and wetland investigations for the Project was conducted between September 2016 and June 2017. The surveys identified streams and wetlands within a approximately 300-foot wide corridor centered on the proposed pipeline, and a 50-foot wide corridor surrounding the proposed access roads. Field investigations identified 68 wetlands, 168 waterbodies, and 8 ponds within the current Project study area. These features are outlined in the Addendum II to the Wetland Delineation and Stream Identification Report, included in the attached JPA Addendum. Approximately 1.7 miles of the 24-inch pipeline in Illinois remains unsurveyed due to property access constraints. Desktop identified aquatic resources have been included in these areas to supplement the stream and wetland delineation field efforts.

Closing

Spire and GAI thank you in advance for your review of this NWP-12 JPA addendum. Please feel free to contact me at 614-499-6258, or at j.fuller@gaiconsultants.com if there are any questions or concerns.

Sincerely,

GAI Consultants, Inc.



Jayme Fuller
Environmental Manager

Attachments: Nationwide Permit 12 Joint Permit Application

CC: Illinois Department of Natural Resources, Illinois Environmental Protection Agency



United States Fish and Wildlife Service

GAI Consultants, Inc.

Chicago Office
 2300 Cabot Drive, Suite 395
 Lisle, Illinois 60532
 T 313.301.2001
www.gaiconsultants.com

Letter of Transmittal

TRANSMITTAL NO.	T027
DATE:	7/14/2017
PROJECT NO.	E160438.00

United States Fish and Wildlife Service
Rock Island Field Office
1511 47th Avenue
Moline, Illinois 61265
Attention: Ms. Kristen Lundh

PROJECT TITLE:

Spire STL Pipeline
Spire STL Pipeline Project
Scott, Greene, and Jersey County, Illinois
and St. Charles and St. Louis Counties, Missouri

SUBJECT:

Survey Reports and Biological Assessment

WE ARE SENDING YOU: Paper Documents
VIA: Next Day Delivery
PURPOSE: For Review and Comment

COMMENTS:

ATTACHMENTS:

Quantity	Document No.	Rev.	Document Date	Document Description/Title	Status*
1	-	-	July 2017	Bat Survey Report	-
1	-	-	July 2017	Botanical Presence/Absence Survey Report for Mead's Milkweed (<i>Asclepias meadii</i>) and Large Ground-Plum (<i>Astragalus crassicaerpus</i> var. <i>trichocalyx</i>)	-
1	-	-	July 13, 2017	Eatern Prairie Fringed Orchid Survey Report	-
1	-	-	July 2017	Biological Assessment	-

*Status Codes for Submittal Package Reviews: NE=No Exceptions; EN=Exceptions Noted; RR=Revise & Resubmit; RJ=Rejected

DISTRIBUTION:

Name	Company	Transmittal (Y/N)	Attachments (Y/N)
Ms. Trisha Crabill	United States Fish and Wildlife Service, Columbia Field Office	Y	Y
Mr. Keith Shank	Illinois Department of Natural Resources	Y	Y
Ms. Jenny Skufca	Illinois Department of Natural Resources	Y	Y

Sincerely,



Lori M. Ferry, MS
 Environmental Manager



July 14, 2017

Project E160438.00

Ms. Kristen Lundh
United States Fish and Wildlife Service
Rock Island Field Office
1511 47th Avenue
Moline, Illinois 61265

**Re: Survey Reports and Biological Assessment
Spire STL Pipeline LLC
Spire STL Pipeline
Scott, Greene, and Jersey Counties, Illinois
and St. Charles and St. Louis Counties, Missouri**

Dear Ms. Lundh:

GAI Consultants, Inc. ("GAI") completed species-specific surveys on behalf of Spire STL Pipeline LLC ("Spire"), for the Spire STL Pipeline Project ("Project") located in Scott, Greene, and Jersey Counties, Illinois, and St. Charles and St. Louis Counties, Missouri. The attached Bat Survey Report includes the results of the presence/absence bat survey. Also attached are botanical presence/absence survey reports for Mead's Milkweed (*Asclepias meadii*) (which also includes Large ground-plum (*Astragalus crassicaarpus* var. *trichocalyx*) which is not under federal review), as well as Eastern Prairie Fringed Orchid (*Platanthera leucophaea*).

At this time, Spire and GAI are providing the reports to supplement ongoing consultation with your office. Spire and GAI are also providing a courtesy copy of the Biological Assessment, which has been filed with the Federal Energy Regulatory Commission ("FERC") on July 14, 2017. The FERC will be submitting the Biological Assessment to USFWS to initiate formal consultation at a later date.

GAI and Spire thank you in advance for your assistance. If you have any questions regarding this submission, please feel free to contact me at 331.301.2002 or by e-mail at l.ferry@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.

Lori M. Ferry, MS
Environmental Manager

LMF/vev

Attachments: Attachment 1 (Bat Survey Report); Attachment 2 (Botanical Presence/Absence Survey Report for Mead's Milkweed and Large Ground-Plum); Attachment 3 (Botanical Presence/Absence Survey Report for Eastern Prairie Fringed Orchid); Attachment 4 (Biological Assessment)

cc: Ms. Trisha Crabill, USFWS, Columbia Field Office
Ms. Jenny Skufca, IDNR
Mr. Keith Shank, IDNR

GAI Consultants, Inc.

Chicago Office
 2300 Cabot Drive, Suite 395
 Lisle, Illinois 60532
 T 313.301.2001
www.gaiconsultants.com

Letter of Transmittal

TRANSMITTAL NO.	T030
DATE:	7/14/2017
PROJECT NO.	E160438.00

United States Fish and Wildlife Service
Columbia Field Office
101 Park De Ville Drive
Suite A
Columbia, Missouri 65203
Attention: Ms. Trisha Crabill

PROJECT TITLE:

Spire STL Pipeline
Spire STL Pipeline Project
Scott, Greene, and Jersey County, Illinois
and St. Charles and St. Louis Counties, Missouri

SUBJECT:

Survey Reports and Biological Assessment

WE ARE SENDING YOU: Paper Documents
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PURPOSE: For Review and Comment

COMMENTS:

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1	-	-	July 13, 2017	Eatern Prairie Fringed Orchid Survey Report	-
1	-	-	July 2017	Biological Assessment	-

*Status Codes for Submittal Package Reviews: NE=No Exceptions; EN=Exceptions Noted; RR=Revise & Resubmit; RJ=Rejected

DISTRIBUTION:

Name	Company	Transmittal (Y/N)	Attachments (Y/N)
Ms. Kristen Lundh	United States Fish and Wildlife Service, Rock Island Field Office	Y	Y
Mr. Keith Shank	Illinois Department of Natural Resources	Y	Y
Ms. Jenny Skufca	Illinois Department of Natural Resources	Y	Y

Sincerely,



Lori M. Ferry, MS
 Environmental Manager



July 14, 2017

Project E160438.00

Ms. Kristen Lundh
United States Fish and Wildlife Service
Rock Island Field Office
1511 47th Avenue
Moline, Illinois 61265

**Re: Survey Reports and Biological Assessment
Spire STL Pipeline LLC
Spire STL Pipeline
Scott, Greene, and Jersey Counties, Illinois
and St. Charles and St. Louis Counties, Missouri**

Dear Ms. Lundh:

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At this time, Spire and GAI are providing the reports to supplement ongoing consultation with your office. Spire and GAI are also providing a courtesy copy of the Biological Assessment, which has been filed with the Federal Energy Regulatory Commission ("FERC") on July 14, 2017. The FERC will be submitting the Biological Assessment to USFWS to initiate formal consultation at a later date.

GAI and Spire thank you in advance for your assistance. If you have any questions regarding this submission, please feel free to contact me at 331.301.2002 or by e-mail at l.ferry@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.

A handwritten signature in blue ink that reads 'Lori M. Ferry'.

Lori M. Ferry, MS
Environmental Manager

LMF/vev

Attachments: Attachment 1 (Bat Survey Report); Attachment 2 (Botanical Presence/Absence Survey Report for Mead's Milkweed and Large Ground-Plum); Attachment 3 (Botanical Presence/Absence Survey Report for Eastern Prairie Fringed Orchid); Attachment 4 (Biological Assessment)

cc: Ms. Trisha Crabill, USFWS, Columbia Field Office
Ms. Jenny Skufca, IDNR
Mr. Keith Shank, IDNR

telephone log



gai consultants

Date: 7/13/2017

Project / Admin. No.: E160438.00

Call From: Lori Ferry, Jason Duffey

Company: GAI Consultants

Phone No.: 331.301.2002

Call To: Kristen Lundh

Company: USFWS

Phone No.: 309-757-5800 x 215

Subject: Biological Assessment

cc:

Summary of Discussion, Decisions, and Commitments:

USFWS indicated that GAI could provide details of a previously-proposed Eastern Prairie Fringed Orchid survey site determined to be unsuitable. GAI would provide an email demonstrating the site is not within or near remnant prairie and USFWS would provide concurrence via email. This email was sent on 7/14/17.

GAI will provide a courtesy copy of the BA to USFWS.

USFWS agrees that effects determinations for the species associated with the horizontal directional drills should be NLAA. Indiana bat and northern long-eared bat should be LAA, gray bat should be NLAA. Decurrent false aster should be LAA. The plants for which surveys were negative (Eastern Prairie Fringed Orchid and Mead's Milkweed) should be No Effect.

Decurrent false aster avoidance measures could include mowing after the seed has been spread. USFWS will send a recent BO on decurrent false aster to GAI for reference.

USFWS has discussed with FERC and they will append the BA to its EA. USFWS will consult for 60 days following FERC's request for formal consultation, and can gather additional information if needed.

Ali Trunzo

From: Jason Duffey
Sent: Wednesday, June 28, 2017 4:20 PM
To: Kristen'
Cc: Lori Ferry; Ali Trunzo
Subject: Updated Spire Bat Capture and Roost Maps
Attachments: Tables and Figures.pdf; Spire_Shapefile_06282017.zip

Hi Kristen,

Attached are some updated tables and figures showing the final mist net survey results. All mist net surveys are completed.

Attached are tables showing acreages of bat buffers, roost tree information, and emergence count data. An overview figure showing Indiana bat capture sites, roost trees, and buffers is also attached.

Finally, we included a detailed figure showing all mist net sites, roost trees, and bat buffers. We included the shapefiles that were used to create this figure.

Please let me know if you have any questions or would like any additional information prior to tomorrow's meeting.

Thanks,

Jason

Ali Trunzo

From: Lori Ferry
Sent: Thursday, June 22, 2017 3:40 PM
To: Ali Trunzo
Subject: FW: Spire STL Pipeline-Rock Island Office Meeting

From: Lundh, Kristen [mailto:kristen_lundh@fws.gov]
Sent: Friday, June 16, 2017 12:03 PM
To: Lori Ferry <L.Ferry@gaiconsultants.com>
Cc: Douglas Sipe <dsipe@mdmcorp.com>; Kraig McPeek <Kraig_McPeek@fws.gov>; Ryan Anthony <ryan_anthony@fws.gov>; Karen Herrington <karen_herrington@fws.gov>; Trisha Crabill <trisha_crabill@fws.gov>
Subject: Re: Spire STL Pipeline-Rock Island Office Meeting

I'm sorry I was thinking it was the 29th. Will that work?

Kristen Lundh
U.S. Fish and Wildlife Service
Illinois & Iowa Ecological Services Field Office
1511 47th Avenue
Moline, IL 61265
309-757-5800 x 215
kristen_lundh@fws.gov

On Fri, Jun 16, 2017 at 12:00 PM, Lori Ferry <L.Ferry@gaiconsultants.com> wrote:

Thanks Kristen.

To confirm, we had indicated a June 27th meeting but your email indicates June 29th. Are we moving to the 29th or is the 27th still a-go?

Thank you for the information! I will send you our GIS landuse file based on field survey and aerial interpretation (where we have not otherwise had field survey access). Again, this file will be limited to our LOD/survey areas.

Lori

From: Lundh, Kristen [mailto:kristen_lundh@fws.gov]

Sent: Friday, June 16, 2017 11:51 AM

To: Lori Ferry <L.Ferry@gaiconsultants.com>

Cc: Douglas Sipe <dsipe@mdmcorp.com>; Kraig McPeek <Kraig_McPeek@fws.gov>; Ryan Anthony <ryan_anthony@fws.gov>; Karen Herrington <karen_herrington@fws.gov>; Trisha Crabill <trisha_crabill@fws.gov>

Subject: Re: Spire STL Pipeline-Rock Island Office Meeting

Hi Lori,

That works for us. I have the conference room reserved starting at 9:00 CST.

I have attached a cut from an in-office document from another project analyzing impacts to interior forest areas from ROW clearing. As you can see we have digitized the forested habitat to reveal interior forest areas. We used these maps to help determine how the ROW clearing may impact different migratory bird species. It would be helpful for us if you have the forested areas that will be impacted by the Spire Pipeline digitized for use in our analysis for this project. If you could let us know if you have digitized GIS files available we would appreciate it.

I have copied Kraig McPeek our Field Supervisor, and Ryan Anthony our migratory bird biologist. As we talked about yesterday, I will be gone next week on vacation. If you have any questions related to how we have done this analysis for migratory birds or listed bats, please contact Kraig or Ryan. Kraig will be back in on Monday.

I look forward to this next conversation on the 29th.

Kristen

Kristen Lundh

U.S. Fish and Wildlife Service

Illinois & Iowa Ecological Services Field Office

1511 47th Avenue

Moline, IL 61265

309-757-5800 x 215

kristen_lundh@fws.gov

On Tue, Jun 13, 2017 at 2:02 PM, Lori Ferry <L.Ferry@gaiconsultants.com> wrote:

Hi Kristen

Please reserve June 27th for us to come into your offices to meet with you. Can I get back with you on a time? I'm assuming it will be early in the morning around 9am if that works for you.

Thanks,

Lori

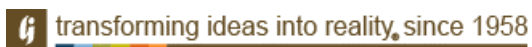
Lori Ferry
Environmental Manager-Energy Business Unit

GAI Consultants

Chicago Office | 2300 Cabot Drive, Suite 395 Lisle, Illinois 60532

T 331.301.2002 M 630.605.5255 | gaiconsultants.com |    

l.ferry@gaiconsultants.com



CONFIDENTIALITY NOTICE: This communication contains confidential information belonging to the sender and may be legally privileged. This communication is solely for the use of its intended recipient. If you are not the intended recipient, inform the sender of the error and remove this email from your system. If this transmission includes any technical information, design data, and/or recommendations, they are provided only as a matter of convenience and may not be used for final design and/or construction.

Ali Trunzo

From: Jason Duffey
Sent: Tuesday, June 13, 2017 12:06 PM
To: Lundh, Kristen
Cc: Lori Ferry; Ali Trunzo
Subject: Updated Spire Mist Net Site and Bat Capture Maps
Attachments: Figure 2 Mist Net Sites Roosts and Buffer.pdf

Hi Kristen,

Attached is an updated map showing all completed mist net sites, including Indiana bat capture sites and roost trees. The mapping includes a buffer of all areas within 2.5 miles of all roost trees. Please let me know if you have any questions or would like any additional information.

Thanks,

Jason



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Illinois – Iowa Field Office

1511 47th Avenue

Moline, Illinois 61265

Phone: (309) 757-5800 Fax: (309) 757-5807

IN REPLY REFER
TO:

Mr. Jason Duffy
GAI Consultants

June 12, 2017
Electronic Mail

Mr. Duffy,

GAI and associated sub-contractors are authorized to conduct additional mist netting sites on the Principia College property as part of the northern long-eared bat and Indiana bat mist netting surveys for the Spire STL Pipeline Project. These additional survey nights are an amendment to the study plan submitted by you on March 24, 2017. All activities should conform to the conditions of the U.S. Fish and Wildlife Service (Service) permits TE0394B-1 (GAI Consultants), TE88797B-0 (Amber Nolder) and TE1041B-0 (Vona Kuczynska).

We strongly encourage you to report data from this survey to the Illinois - Iowa Field Office utilizing the 2017 Bat Reporting Spreadsheets for Region 3, to fulfill the reporting requirements of your permit. The spreadsheet and instructions can be found on the Service's website <http://www.fws.gov/midwest/angered/mammals/inba/inbasummersurveyguidance.html>.

Kristen Lundh
U.S. Fish & Wildlife Service
Illinois – Iowa Ecological Services Field Office
1511 47th Ave
Moline, IL 61265
ph: 309-757-5800 x 215
fax: 309-757-5807

telephone log



gai consultants

Date: 06/07/17

Project / Admin. No.: E160438.00

Call From: Kristen Lundh (Rock Island Field Office)

Company: USFWS

Phone No.:

Call To: Jason Duffey (GAI)

Company: GAI Consultants

Phone No.:

Subject: Spire STL Pipeline Mist Net Survey

cc:

Summary of Discussion, Decisions, and Commitments:

As a follow up to the 06/01/2017 call, Ms. Lundh sent an email on 06/06/2017 to Mr. Duffey requesting an update on the mist net survey and radio-telemetry. Mr. Duffey sent an email on 06/06/2017 containing the updated map and roost tree table.

Ms. Lundh followed up with a call to Mr. Duffey on 06/07/2017. Mr. Duffey summarized the results of telemetry and emergence counts.

Ms. Lundh indicated that, based on the current results, formal consultation could be avoided if seasonal clearing restrictions are implemented. If not, formal consultation would be likely.

Ms. Lundh indicated that the additional mist net surveys on Principia could be authorized through email.

In regard to GAI's request to review a Draft BA, Ms. Lundh indicated that it looks fine, but could not be thoroughly reviewed for effects until the mist net survey is complete and effects have been included in the BA.

telephone log



gai consultants

Date: 06/01/17

Project / Admin. No.: E160438.00

Call From: Jason Duffey (GAI)

Company: GAI Consultants

Phone No.:

Call To: Kristen Lundh (Rock Island Field Office)

Company: USFWS

Phone No.:

Subject: Spire STL Pipeline Mist Net Survey Study Plan

cc:

Summary of Discussion, Decisions, and Commitments:

GAI called USFWS to request an amendment to the previously submitted study plan to include extensive additional mist net surveys requested by Principia. GAI left a voice message. USFWS returned the call and left a voice message indicating that the amendment could be requested via email; however, could only be processed when Kristen is in the office. It cannot be processed over the weekend. GAI returned the call and left a voice message indicating that the surveys would most likely proceed next week and GAI would send an email requesting the change.

telephone log



gai consultants

Date: 2/14/2017

Project / Admin. No.: E160438.00

Call From: Kristen Lundh

Company: USFWS

Phone No.: 309-757-5800 x 215

Call To: Jason Duffey

Company: GAI Consultants

Phone No.: 937-554-8488

Subject: Mist Net Survey and Biological Assessment

cc:

Summary of Discussion, Decisions, and Commitments:

USFWS's Kristen Lundh returned GAI's Jason Duffey's message and email from February 7, 2017.

USFWS agreed that GAI could do a habitat survey to exclude areas of poor habitat / non-habitat to exclude these areas from mist netting.

Regarding mist net surveys around properties where no landowner access can be obtained, GAI may submit plans to USFWS for alternate sites for review prior to netting or conducting acoustics. Alternate sites should be representative of the area of impact and in close enough proximity. USFWS may not guarantee a negative survey farther from the Project would suggest absence of the species within the Project.

USFWS agreed to the general process that species determined to be absent from the Project by species-specific surveys would not need a full analysis in a biological assessment.



Illinois Department of Natural Resources

GAI Consultants, Inc.

Chicago Office
 2300 Cabot Drive, Suite 395
 Lisle, Illinois 60532
 T 313.301.2001
www.gaiconsultants.com

Letter of Transmittal

TRANSMITTAL NO.	T028
DATE:	7/14/2017
PROJECT NO.	E160438.00

Illinois Department of Natural Resources
One Natural Resources Way
Springfield, Illinois 62702
Attention: Ms. Jenny Skufca

PROJECT TITLE:

Spire STL Pipeline
Spire STL Pipeline Project
Scott, Greene, and Jersey County, Illinois
and St. Charles and St. Louis Counties, Missouri

SUBJECT:

Survey Reports and Biological Assessment

WE ARE SENDING YOU: Paper Documents
VIA: Next Day Delivery
PURPOSE: For Review and Comment

COMMENTS:

ATTACHMENTS:

Quantity	Document No.	Rev.	Document Date	Document Description/Title	Status*
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1	-	-	July 2017	Biological Assessment	-

*Status Codes for Submittal Package Reviews: NE=No Exceptions; EN=Exceptions Noted; RR=Revise & Resubmit; RJ=Rejected

DISTRIBUTION:

Name	Company	Transmittal (Y/N)	Attachments (Y/N)
Mr. Keith Shank	Illinois Department of Natural Resources	Y	Y
Ms. Kristen Lundh	United States Fish and Wildlife Service	Y	Y
Ms. Trisha Crabill	United States Fish and Wildlife Service, Columbia Field Office	Y	Y

Sincerely,



Lori M. Ferry, MS
 Environmental Manager



July 14, 2017

Project E160438.00

Ms. Kristen Lundh
United States Fish and Wildlife Service
Rock Island Field Office
1511 47th Avenue
Moline, Illinois 61265

**Re: Survey Reports and Biological Assessment
Spire STL Pipeline LLC
Spire STL Pipeline
Scott, Greene, and Jersey Counties, Illinois
and St. Charles and St. Louis Counties, Missouri**

Dear Ms. Lundh:

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At this time, Spire and GAI are providing the reports to supplement ongoing consultation with your office. Spire and GAI are also providing a courtesy copy of the Biological Assessment, which has been filed with the Federal Energy Regulatory Commission ("FERC") on July 14, 2017. The FERC will be submitting the Biological Assessment to USFWS to initiate formal consultation at a later date.

GAI and Spire thank you in advance for your assistance. If you have any questions regarding this submission, please feel free to contact me at 331.301.2002 or by e-mail at l.ferry@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.

Lori M. Ferry, MS
Environmental Manager

LMF/vev

Attachments: Attachment 1 (Bat Survey Report); Attachment 2 (Botanical Presence/Absence Survey Report for Mead's Milkweed and Large Ground-Plum); Attachment 3 (Botanical Presence/Absence Survey Report for Eastern Prairie Fringed Orchid); Attachment 4 (Biological Assessment)

cc: Ms. Trisha Crabill, USFWS, Columbia Field Office
Ms. Jenny Skufca, IDNR
Mr. Keith Shank, IDNR

GAI Consultants, Inc.

Chicago Office
 2300 Cabot Drive, Suite 395
 Lisle, Illinois 60532
 T 313.301.2001
www.gaiconsultants.com

Letter of Transmittal

TRANSMITTAL NO.	T029
DATE:	7/14/2017
PROJECT NO.	E160438.00

Illinois Department of Natural Resources
One Natural Resources Way
Springfield, Illinois 62702
Attention: Mr. Keith Shank

PROJECT TITLE:
Spire STL Pipeline
Spire STL Pipeline Project
Scott, Greene, and Jersey County, Illinois
and St. Charles and St. Louis Counties, Missouri

SUBJECT:
Survey Reports and Biological Assessment

WE ARE SENDING YOU: Paper Documents
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DISTRIBUTION:

Name	Company	Transmittal (Y/N)	Attachments (Y/N)
Ms. Jenny Skufca	Illinois Department of Natural Resources	Y	Y
Ms. Kristen Lundh	United States Fish and Wildlife Service	Y	Y
Ms. Trisha Crabill	United States Fish and Wildlife Service, Columbia Field Office	Y	Y

Sincerely,



Lori M. Ferry, MS
 Environmental Manager



July 14, 2017

Project E160438.00

Ms. Kristen Lundh
United States Fish and Wildlife Service
Rock Island Field Office
1511 47th Avenue
Moline, Illinois 61265

**Re: Survey Reports and Biological Assessment
Spire STL Pipeline LLC
Spire STL Pipeline
Scott, Greene, and Jersey Counties, Illinois
and St. Charles and St. Louis Counties, Missouri**

Dear Ms. Lundh:

GAI Consultants, Inc. ("GAI") completed species-specific surveys on behalf of Spire STL Pipeline LLC ("Spire"), for the Spire STL Pipeline Project ("Project") located in Scott, Greene, and Jersey Counties, Illinois, and St. Charles and St. Louis Counties, Missouri. The attached Bat Survey Report includes the results of the presence/absence bat survey. Also attached are botanical presence/absence survey reports for Mead's Milkweed (*Asclepias meadii*) (which also includes Large ground-plum (*Astragalus crassicaarpus* var. *trichocalyx*) which is not under federal review), as well as Eastern Prairie Fringed Orchid (*Platanthera leucophaea*).

At this time, Spire and GAI are providing the reports to supplement ongoing consultation with your office. Spire and GAI are also providing a courtesy copy of the Biological Assessment, which has been filed with the Federal Energy Regulatory Commission ("FERC") on July 14, 2017. The FERC will be submitting the Biological Assessment to USFWS to initiate formal consultation at a later date.

GAI and Spire thank you in advance for your assistance. If you have any questions regarding this submission, please feel free to contact me at 331.301.2002 or by e-mail at l.ferry@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.

Lori M. Ferry, MS
Environmental Manager

LMF/vev

Attachments: Attachment 1 (Bat Survey Report); Attachment 2 (Botanical Presence/Absence Survey Report for Mead's Milkweed and Large Ground-Plum); Attachment 3 (Botanical Presence/Absence Survey Report for Eastern Prairie Fringed Orchid); Attachment 4 (Biological Assessment)

cc: Ms. Trisha Crabill, USFWS, Columbia Field Office
Ms. Jenny Skufca, IDNR
Mr. Keith Shank, IDNR



Indianapolis Office
6420 Castleway West Drive
Indianapolis, IN 46250

T 317.570.6800
F 317.570.6810

July 14, 2017

Project E160438.00

Mr. Steve Altman
Illinois Department of Natural Resources
Office of Water Resources
Downstate Regulatory Programs Section
One Natural Resource Way
Springfield, IL 62702

**Addendum II to Nationwide Permit 12 Joint Permit Application
Spire STL Pipeline LLC
Spire STL Pipeline Project (MVS-2016-582)
Scott, Greene, and Jersey Counties, Illinois**

Dear Mr. Altman:

On behalf of Spire STL Pipeline LLC ("Spire"), GAI Consultants, Inc. ("GAI") submitted a Nationwide Permit 12 Joint Permit Application ("JPA") and Section 10 letter of permission request for the Spire STL Pipeline Project ("Project"), located in Scott, Greene, and Jersey Counties, Illinois ("IL"), and St. Charles and St. Louis Counties, Missouri ("MO") to your office on January 27, 2017. An addendum to the JPA application was submitted to your office on April 21, 2017. Due to minor changes in the Project alignment, and obtaining additional survey permissions, GAI has prepared this addendum to the previously submitted JPA.

The revised Project will consist of approximately 65 miles of new 24-inch-diameter steel pipeline in two segments. The first segment (referred to as the "24-inch pipeline" portion of the Project) will originate at a new interconnect with the Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois and extend approximately 59 miles through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east through St. Charles County, Missouri. The 24-inch pipeline then crosses the Missouri River into St. Louis County, Missouri, and terminates at a new interconnect with Laclede Gas Company ("LGC"). The second segment of pipeline (referred to as the "North County Extension"), will consist of a new 24-inch-diameter steel pipeline which will extend approximately six miles from the LGC interconnect through the northern portion of St. Louis County and terminate at a new interconnect with Enable Mississippi River Transmission, LLC ("Enable MRT") and LGC. The total length of the Project pipeline will be approximately 65 miles. The Project also includes the construction of three new metering and regulating ("M&R") stations that provide interconnects with (1) REX in Illinois, (2) LGC in Missouri, and (3) Enable MRT and LGC in Missouri. This Project, as proposed, falls under the oversight of the Federal Energy Regulatory Commission (FERC).

GAI, on behalf of Spire, is hereby submitting for review two hard copies and an electronic copy of the Project's Nationwide Permit ("NWP") 12 JPA Addendum. This package has been prepared based on the Project adhering to the general and regional conditions of a NWP-12 and Section 401 Water Quality Certification General and Specific Conditions within the State of Illinois. A copy of this JPA Addendum has also been provided to the Illinois Department of Natural Resources and the Illinois Environmental Protection Agency concurrently with this submittal for their confirmation of General Section 401 coverage.

United States Fish and Wildlife Service ("USFWS") consultation was initiated on August 29, 2016 and an initial response was received on December 8, 2016. A bat study plan for the Project was submitted on March 24, 2017, and an amendment letter to correspond with the Project changes was sent to USFWS on April 5, 2017. Authorization to proceed with mist net surveys was received from USFWS on May 9, 2017. On June 11, 2017, a modification to the mist net survey plan was submitted to USFWS, and authorization to proceed was received on June 12, 2017.

Correspondence with the Illinois Historic Preservation Agency ("IHPA") was initiated on August 29, 2016. Subsequently, a Phase I archaeological investigation was conducted and results submitted to IHPA. A Project addendum Report was submitted to IHPA on April 21, 2017 regarding the recent changes in the Project alignment, as

well as the addition of the North County Extension. A concurrence letter was received from IHPA on June 22, 2017. Additional investigations were conducted in March and April 2017, as property access became available to survey. Information regarding these investigations will be provided to IHPA concurrently with the July 2017 FERC filing. Additional responses from these agencies will be provided once received in the anticipation that this permit application's review can be initiated without those documents in hand. Since a portion of the Project is currently unavailable for cultural resources investigation access at this time, we are requesting authorization of Single and Complete Projects that receive this concurrence on a time-staggered basis. Agency correspondence is included as Attachment B in the attached PCN addendum.

Nationwide Permit (NWP) 12 Joint Permit Application

As currently proposed, temporary impacts to 62 streams and 32 wetlands will be necessary to construct the Project. Impacted streams and wetlands will be crossed using the dry-ditch open-cut method. A dam and flume method of dewatering is installed to create a dry work area, the trenches are dug, the pipeline is placed, and the trench is then refilled and the work area reclaimed. Additionally, temporary crossings of 18 streams and 10 wetlands located within the Project workspace and along associated access roads will be required during construction of the Project. Other aquatic resources, including the Mississippi River, will be crossed using a Horizontal Directional Drill (HDD) method. This method involves boring a tunnel beneath the aquatic resources through which the pipeline will be pulled and installed. No physical impacts to the aquatic resources are anticipated to occur with this construction method. Detailed information regarding these impacts can be found in Tables 1 and 2 in the attached JPA addendum.

Avoiding stream and wetland impacts has been one of the driving factors in designing the proposed Project, and the currently proposed alignment represents an alternative that reduces stream and wetland impacts to the furthest extent practicable, while still meeting the purpose and need of the Project. Spire intends to utilize mitigation banking programs in IL should the District Engineer determine that compensatory mitigation is required for proposed impacts. Further avoidance and minimization includes the placement of timber mats for equipment crossings of streams and wetlands, and the Limit of Disturbance (LOD) width will be narrowed to a 75-foot width at all resource crossings.

Streams and Wetlands

Fieldwork associated with stream and wetland investigations for the Project was conducted between September 2016 and June 2017. The surveys identified streams and wetlands within a approximately 300-foot wide corridor centered on the proposed pipeline, and a 50-foot wide corridor surrounding the proposed access roads. Field investigations identified 68 wetlands, 168 waterbodies, and 8 ponds within the current Project study area. These features are outlined in the Addendum II to the Wetland Delineation and Stream Identification Report, included in the attached JPA Addendum. Approximately 1.7 miles of the 24-inch pipeline in Illinois remains unsurveyed due to property access constraints. Desktop identified aquatic resources have been included in these areas to supplement the stream and wetland delineation field efforts.

Closing

Spire and GAI thank you in advance for your review of this NWP-12 JPA addendum. Please feel free to contact me at 614-499-6258, or at j.fuller@gaiconsultants.com if there are any questions or concerns.

Sincerely,

GAI Consultants, Inc.



Jayme Fuller
Environmental Manager

Attachments: Nationwide Permit 12 Joint Permit Application

CC: Illinois Environmental Protection Agency, U.S. Army Corps of Engineers, St. Louis District

Ali Trunzo

From: Lori Ferry
Sent: Friday, June 02, 2017 4:59 PM
To: Ali Trunzo
Subject: FW: Spire STL Pipeline Draft Conservation Plan
Attachments: E16043800T005007-DRAFT CONSERVATION PLAN - 20170601 reduced.pdf

From: Jason Duffey
Sent: Friday, June 02, 2017 12:43 PM
To: Skufca, Jenny <Jenny.Skufca@Illinois.gov>
Cc: Lori Ferry <L.Ferry@gaiconsultants.com>
Subject: Spire STL Pipeline Draft Conservation Plan

Hi Jenny,

Attached is an electronic copy of the Spire STL Pipeline Draft Conservation Plan. A bound copy has also been sent to your office. As previously discussed, Spire is requesting your comments, suggestions, and guidance on the development of the Conservation Plan. Please do not hesitate to contact us if you have any questions or would like any additional information. We will be updating the Conservation Plan as we complete mist net surveys over the next few weeks.

Thanks,

Jason A. Duffey

Senior Project Environmental Specialist

1830 Airport Exchange Blvd., Suite 220, Erlanger, KY 41018

T 859.647.6647 **D** 859.692.4152 **M** 937.554.8488

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June 2, 2017

Project E160438.00, Task 005.007

Ms. Jenny Skufca
Incidental Take Authorization Coordinator
Illinois Department of Natural Resources
One Natural Resources Way
Springfield, IL 62702

**Re: Draft Conservation Plan
Spire STL Pipeline LLC
Spire STL Pipeline
Scott, Greene, and Jersey Counties, Illinois**

Dear Ms. Skufca:

GAI Consultants, Inc. ("GAI") has completed a draft Conservation Plan on behalf of Spire STL Pipeline LLC ("Spire"), for the portion of the Spire STL Pipeline Project ("Project") in Scott, Jersey, and Greene Counties, Illinois. This Conservation Plan is considered a draft Conservation Plan for the purposes of informal review, as previously discussed. It is not an initiation document, nor does it assume presence of, or effects to, any listed species. All Project descriptions and effects analyses will be re-evaluated following summer presence/absence bat surveys.

At this time, Spire and GAI are requesting your review and comment on the attached report. GAI and Spire thank you in advance for your assistance. If you have any questions regarding this submission, please feel free to contact me at 331.301.2002 or by e-mail at l.ferry@gaiconsultants.com.

Sincerely,

GAI Consultants, Inc.

A handwritten signature in blue ink that reads 'Lori M. Ferry'.

Lori M. Ferry, MS
Environmental Manager

Attachment: Attachment 1 (Draft Conservation Plan)

Ali Trunzo

From: Tinch, Jesse <Jesse.Tinch@illinois.gov>
Sent: Thursday, February 09, 2017 2:20 PM
To: Todd Wheaton
Cc: Altman, Steve
Subject: RE: Spire STL Pipeline Project

Todd,

Thank you for providing the locations of the three aboveground facilities and confirming the amount of cover above the stream crossings.

As to your question regarding Special Condition No. 4 of Statewide 13, we would consider the embankments, since they are already existing, as satisfying this condition. We are assuming the thickness of the temporary geotextile and gravel would be minimal, however, in this case if it is greater than 6 inches it would be appropriate for a registered engineer to document that no buildings or structures will be impacted by the backwater caused by the additional material that may be added on to the temporary embankment. This brings us to your next question about Special Condition No. 5. You are not required to submit any further plans regarding these temporary structures as long as an engineer documents and confirms that the temporary structures (i.e. dam and flume crossings) will impact no buildings and structures upstream or that all water profile increases will be contained within the channel banks. If these conditions are met then the documentation would not be required for submittal to our office.

If you agree to check the temporary work for its compliance to Statewide Permit No. 13 and inform us if the work does not comply, then please let me know and our office will be ready to send a formal determination letter regarding this project.

If you aren't sure on compliance with a special condition you are welcome to submit. Feel free to contact me if you have any questions.

Sincerely,

Jesse Tinch, EIT
Permit Engineer
IDNR, Office of Water Resources
One Natural Resources Way
Springfield, IL 62702-1271
Tel: 217/782-4545
Jesse.Tinch@illinois.gov

From: Todd Wheaton [mailto:T.Wheaton@gaiconsultants.com]
Sent: Thursday, February 09, 2017 7:46 AM
To: Tinch, Jesse
Cc: Ali Trunzo; Jayme Fuller; Lori Ferry
Subject: [External] RE: Spire STL Pipeline Project

Good Morning Jesse,

I am reaching out to you in response to an information request for the Spire STL Pipeline Project we received last week. I've included your original request below for reference. Please let me know if you have any additional questions or need further clarification.

1. Three aboveground facilities are located within the State of Illinois, none of which are located within a designated floodplain or floodway. Their locations are as follows: Rex Receipt Station (M&R Facility) 39.566098, -90.415567 (1-mile south of North Little Sandy Creek – Scott County); MLV 1 (Mainline Valve Facility) 39.352328, -90.413138 (1.3 –miles south of Apple Creek – Greene County); MLV 2 (Mainline Valve Facility) 39.116647, -90.388953 (3.2–miles north of Otter Creek –Jersey County).
2. The project involves the following work within jurisdictional bodies of water (drainage area > 1 sq. mile in urban areas or drainage area > 10 sq. miles in rural areas):

Open Cut – Apple Creek SIL-TMA-033
Workspace – Apple Creek SIL-TMA-034
Open Cut – Macoupin Creek SIL-TMA-039
Temporary Access Road – Otter Creek NHD-784
Open Cut – Otter Creek SIL-CDK-022
Directional Boring – Mississippi River
Workspace – Mississippi River

3.
 - a) A minimum of 5 feet of cover below the stream bed will be maintained at all stream crossings.
 - b) In regard to Statewide Permit #13, there are a couple questions we had regarding Special Conditions 4 and 5. The clarification would help in the determination of whether the condition would be met or if an additional permit would be necessary.
 - Special Condition 4 states: **“This permit does not authorize the placement or construction of any solid embankment or wall such as a dam, roadway, levee, or dike across any channel or floodway”**. Two temporary access roads are located within a designated floodplain. A small segment of TAR-009 is located within the Apple Creek floodplain, and the entirety of TAR-015 is located within the Otter Creek floodplain. Both of these temporary access roads are existing dirt roads. However, to accommodate construction traffic, these temporary access roads may require an application of a geotextile fabric and gravel which would be removed in its entirety following construction. Since no embankment is proposed to be constructed for the temporary access road we feel that this condition would be satisfied. Could you please confirm?
 - Special Condition 5 states: **“No temporary structure shall be placed within any river or stream channel until a registered professional engineer determines and documents that the temporary structure will meet the requirements of Special Condition 3 of this statewide permit. Such documentation shall include, at a minimum, confirmation that no buildings or structures will be impacted by the backwater induced by the temporary structure.”** Most of the proposed stream crossings associated with the Project will be a dam and flume crossing (typical attached). We would like to request clarification as to whether each of these temporary structures would require a separate plan to be submitted for each, or if this type of structure was authorized therefore satisfying Special Condition 5?

Thanks,
Todd

Todd C. Wheaton
Assistant Environmental Technical Leader

3720 Dressler Road NW, Canton, OH 44718

T 330.433.2680 **D** 234.203.0765 **M** 330.415.8364



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From: Tinch, Jesse [<mailto:Jesse.Tinch@illinois.gov>]
Sent: Friday, February 03, 2017 3:14 PM
To: Jayme Fuller <J.Fuller@gaiconsultants.com>
Cc: Altman, Steve <Steve.Altman@illinois.gov>
Subject: Spire STL Pipeline Project

Jayme Fuller,

After a cursory review of the Spire STL Pipeline Project, our office requests the following:

1. The location of the metering and regulating facilities in Illinois as we discussed in the conference call. We will need additional plan and profile drawings if the facility is located within the floodway of an IDNR, Office of Water Resources jurisdictional waterway, or floodplain if the floodway is not delineated.
2. It appears the project involves the following work within jurisdictional bodies of water (drainage area > 1 sq. mile in urban areas or drainage area > 10 sq. miles in rural areas):

Open Cut – Apple Creek SIL-TMA-033
Workspace – Apple Creek SIL-TMA-034
Open Cut – Macoupin Creek SIL-TMA-039
Temporary Access Road – Otter Creek NHD-784
Open Cut – Otter Creek SIL-CDK-022
Directional Boring – Mississippi River
Workspace – Mississippi River

- a) Please confirm (a short email statement would be sufficient) that the pipeline crossings of the above waterways will provide at least 3 feet of cover below the stream bed.
- b) Regarding the workspaces and temporary access roads, you will eventually be asked to review IDNR, Office of Water Resources' Statewide Permit No. 13 to determine whether they comply with its conditions. The Statewide Permit can be viewed at <https://www.dnr.illinois.gov/WaterResources/Pages/PermitsStatewideRegionalGeneral.aspx>. If you chose to review this now, you can inform our office if any of the conditions cannot be met for the workspaces and the temporary access road.

Sincerely,

Jesse Tinch, EIT
Permit Engineer
IDNR, Office of Water Resources
One Natural Resources Way
Springfield, IL 62702-1271

Tel: 217/782-4545

Jesse.Tinch@illinois.gov

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Illinois Department of Agriculture

Ali Trunzo

From: Lori Ferry
Sent: Friday, June 02, 2017 11:55 AM
To: Ali Trunzo
Subject: FW: Spire STL Pipeline-Data Request Response
Attachments: Spire Data Request Response 6-1-17.pdf

From: Lori Ferry
Sent: Friday, June 02, 2017 10:52 AM
To: 'Savko, Terry' <Terry.Savko@Illinois.gov>; Chard, Steve <Steve.Chard@Illinois.gov>
Cc: Douglas Sipe <dsipe@mdmcorp.com>
Subject: Spire STL Pipeline-Data Request Response

Hi Terry and Steve

As we discussed, attached is the Spire response to the FERC data request regarding off center placement of the pipeline in the permanent easement.

Please let us know if you should have further questions on this.

Thank you again for your time this morning,

Thanks,
Lori

Lori Ferry
Environmental Manager-Energy Business Unit

GAI Consultants
Chicago Office | 2300 Cabot Drive, Suite 395 Lisle, Illinois 60532
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Resource Report 1 – General Project Description

Request 2: *Provide an explanation for the design of the pipeline’s off-centered placement within the permanent right-of-way (including any pertinent construction or operational considerations).*

Response 2: The pipeline’s off-centered placement within the permanent right-of-way (35 feet on one side of the pipeline centerline and 15 feet on the other side of the pipeline centerline) eliminates the need for additional temporary workspace (“ATWS”) during construction on the spoil side of the right-of-way, which is required for subsoil spoil storage associated with extra ditch depth (minimum of five feet) per the Project-specific Agricultural Impact Mitigation Agreement for Illinois, required by the Illinois Department of Agriculture. After construction and during normal operational maintenance that requires exposing the pipe, the pipeline placement allows for a greater working area within the confines of the permanent easement, decreasing the need to request additional temporary workspace and subsequent landowner impact.

Respondent(s): Russ English
Director, Pipeline Projects (Spire)
844-885-7234



Illinois Historic Preservation Agency



July 14, 2017

Ms. Rachel Leibowitz
Division Manager and Deputy SHPO
Illinois Historic Preservation Agency
1 Old State Capitol Plaza
Springfield, Illinois 62701-1507

**Re: Submittal of Technical Reports – Phase I Addendum II, Site 11JY751 Phase II, and Site 11JY765 Phase II
IHPA Log #: 005080216
Spire STL Pipeline Project
Scott, Greene, and Jersey Counties, Illinois**

Dear Ms. Leibowitz:

On behalf of Spire STL Pipeline LLC ("Spire"), a wholly owned subsidiary of Spire Inc., GAI Consultants, Inc. ("GAI") is submitting for your review and comment the enclosed three reports: Phase I Addendum II Report, Phase II Archaeological Testing at Site 11JY751, and Phase II Archaeological Testing at Site 11JY765. Spire is seeking authorization from the Federal Energy Regulatory Commission pursuant to Section 7(c) of the Natural Gas Act to construct and operate the proposed Spire STL Pipeline Project ("Project") located in Scott, Greene, and Jersey Counties, Illinois, and St. Charles and St. Louis Counties, Missouri. The total length of the Project pipelines will be approximately 65 miles, of which approximately 45.35 miles are in Illinois.

The Phase I Addendum II report includes results from a supplemental Phase I archaeological survey conducted between March and June 2017 of alternative Project alignments to avoid impacts to archaeological sites Potentially Eligible for listing in the National Register of Historic Places ("NRHP"), and parcels where survey permission has been granted since the last Phase I field session concluded on March 3, 2017.

Sites 11JY751 and 11JY765 were identified during GAI's Phase I survey of the Project in April 2017, the results of which are included in the attached Addendum II Report. At Spire's request, GAI conducted Phase II testing at Sites 11JY751 and 11JY765 in June 2017 within the Area of Potential Effect ("APE"), defined as the proposed pipeline's limit of disturbance, which ranged in width from 115 to 140 feet. Based on Phase II testing results, both Sites 11JY751 and 11JY765 have moderate integrity and a low research potential. It is concluded that archaeological investigations conducted to date have exhausted the sites' information potential within the Phase II Project APE. Accordingly, GAI recommends that the site is not eligible for listing in the NRHP under Criterion D. No further work is recommended for Sites 11JY751 and 11JY765 within the Phase II APE.

Prior reports submitted to the IHPA for the proposed Project include an initial Phase I Archaeological Survey and Architectural and Historical Resources Reconnaissance Survey Report sent to your office on January 25, 2017 (Scuoteguazza et al. 2017a), and an Addendum I Phase I Archaeological Survey Report submitted on April 21, 2017 (Scuoteguazza et al. 2017b). In a letter dated June 22, 2017, the IHPA concurred with the recommendations presented in the initial Phase I report. GAI and Spire have not received a response from the IHPA regarding the Addendum I Phase I Archaeological Survey Report submitted on April 21, 2017.

GAI, on behalf of Spire, is requesting your review and concurrence of the attached Phase I Addendum II Report, Phase II Archaeological Testing at Site 11JY751 Report, and Phase II Archaeological Testing at Site 11JY765 Report. GAI is also requesting your review and concurrence of the Phase I Addendum I Archaeological Survey Report submitted on April 21, 2017.


We look forward to continuing to work with you on this Project. Please contact Mr. Eric Scuoteguazza at 412.399.5188 or e.scuoteguazza@gaiconsultants.com, if there are questions regarding this report.

Sincerely,

GAI Consultants, Inc.



Eric P. Scuoteguazza, M.A., M.B.A., RPA
Senior Manager, Cultural Resources



Lori M. Ferry
Environmental Project Manager

EPS:LMF/gmg

Attachments: Attachment 1 (Technical Report - Addendum II Report, Phase I Archaeological Survey), Attachment 2 (Archaeological Survey Short Report), Attachment 3 (Technical Report - Phase II Archaeological Testing at Site 11JY751), and Attachment 4 (Technical Report - Phase II Archaeological Testing at Site 11JY765)

Reference

Scuoteguazza, Eric P., Richard B. Duncan, Jonathan Glenn, Angela Hood, Meghan Mooney, Susan Pugh-Rose, Evelyn M. Tidlow, and Elizabeth Williams

2017a *Technical Report, Phase I Archaeological Survey and Architectural and Historical Resources Reconnaissance Survey*. GAI Consultants, Inc. Submitted to Spire STL Pipeline LLC. Copies available from the Illinois Historic Preservation Agency, Springfield, Illinois.

Scuoteguazza, Eric P., Lee Arco, Angela Hood, Susan Pugh-Rose, and Sam Williams

2017b *Technical Report - Addendum I Phase I Archaeological Survey*. GAI Consultants, Inc. Submitted to Spire STL Pipeline LLC. Copies available from the Illinois Historic Preservation Agency, Springfield.



Illinois Historic Preservation Agency

1 Old State Capitol Plaza, Springfield, IL 62701-1512

www.illinoishistory.gov

CP17-40-000
CP17-40-001
ORIGINAL

Various County PLEASE REFER TO: IHPA LOG #005080216
Scott, Greene & Jersey Co.
Illinois: Scott, Greene & Jersey Counties; Missouri: St. Charles & St. Louis Counties
Sites: 11JY654-660, 662-679, 681-697, 701-704, 706-713, 715-718, Jersey County
Sites: 11ST603, 604, 605-612, 614-616, Scott County
Sites: 11GE18, 719-746, 748-756, 759-772, 774-788, 790-808, Greene County
FERC-CP17-40-000-001, GAIC-E160438.00
New construction, Spire STL Pipeline

June 22, 2017

Eric Scuoteguazza
GAI Consultants, Inc./Spire
1444 Farnsworth Avenue, Suite 303
Aurora, IL 60505

Dear Mr. Scuoteguazza:

Re: Results of Phase I Survey --
Acre(s): 1337.4
Archaeological Site(s): 170
Contractor: GAI/Hood

FILED
SECRETARY OF THE
COMMISSION
2017 JUL -5 P 12:31
FEDERAL ENERGY
REGULATORY COMMISSION

Thank you for requesting comments from our office concerning the possible effects of the referenced project on cultural resources. Our comments are required by Section 106 of the National Historic Preservation Act of 1966, as amended, and its implementing regulations, 36 CFR 800: "Protection of Historic Properties".

Our staff has reviewed the archaeological Phase I reconnaissance report performed for the above referenced project. The Phase I survey and assessment of the archaeological resources appear to be adequate.

The archaeological sites listed above are not eligible for the National Register of Historic Places. No further archaeological investigation is necessary at the location of these sites and no architectural resources are affected.

Archaeological sites 11ST613, Scott County; 11GE11GE789, 773, 757, 758, Greene County; 11JY700, 698, 699, 661, 680, Jersey County are potentially significant and, consequently, may be eligible for listing on the National Register of Historic Places under criterion "d". If your project will not affect these sites, then we can make a determination of "no adverse effect" for this project provided that the following conditions are met: 1) a deed covenant is placed on the parcel of property that contains sites to ensure that no construction/development activity will occur without the consent of the Illinois State Historic Preservation Agency and the federal agency shall be provided with a copy of the executed covenant with evidence of its recordation at the appropriate county office. Please call if you wish a copy of a sample covenant to review.

If your project can not avoid the potentially eligible sites, then Phase II archaeological investigations to evaluate the significance of these sites will be necessary prior to construction. If the sites are determined not to be eligible for the National Register after the Phase II work, then no further investigation will be required. If the sites are determined to have met National Register eligibility criteria after the Phase II work, then you have two (2) options. You may preserve the site location through a Deed Covenant as described above. Alternately, you may request initiation of a Memorandum of Agreement (MOA) which must be signed by IHPA and the Federal Agency. The MOA will include a Data Recovery Plan for archaeological excavation, analysis of the site, a written final report and plans for artifact curation.



Illinois Historic Preservation Agency

1 Old State Capitol Plaza, Springfield, IL 62701-1512

www.illinoishistory.gov

A COPY OF THIS LETTER INCLUDING THE IHPA LOG NUMBER SHOULD BE PROVIDED TO THE PROFESSIONAL ARCHAEOLOGICAL CONTRACTOR WHOSE SERVICES ARE OBTAINED TO CONDUCT THE PHASE II INVESTIGATIONS TO ENSURE THAT THEIR REPORT IS CONNECTED WITH YOUR PROJECT PAPERWORK.

If you have any questions, please contact Joe Phillippe at 217/785-1279 or joe.philippe@illinois.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'Rachel', with a long, sweeping horizontal line extending to the right.

Rachel Leibowitz, Ph.D.
Deputy State Historic
Preservation Officer

c: Donna M. Caton, Illinois Commerce Commission
Kimberly D. Bose, Federal Energy Regulatory Commission

telephone log



gai consultants

Date: 5/31/2017

Project / Admin. No.: Spire Pipeline / E160438.00

Call From: Eric P. Scuteguazza

Company: GAI Consultants

Phone No.: (412) 399-5188

Call To: Joseph Phillippe

Company: Illinois Historic Preservation Agency

Phone No.: (217) 785-5031

Subject: Phase I cultural studies report review

cc: Ali Trunzo

Summary of Discussion, Decisions, and Commitments:

I received a call from Joseph Phillippe today (May 31, 2017). The purpose of his call was to request an excerpted report table listing all of the archaeological sites (and their recommendations) discussed within the initial Phase I cultural resources report (dated January 25, 2017), which he is currently reviewing.

On the same day (May 31, 2017), I sent him two excerpted tables (both archaeological and architectural) showing eligible sites versus those not considered to be eligible. I also provided page numbers where he can find this table in the report.

As a side note to the conversation, Mr. Phillippe mentioned that the report of investigations looked good so far and did not anticipate major issues.



Illinois Environmental Protection Agency



Indianapolis Office
6420 Castleway West Drive
Indianapolis, IN 46250

T 317.570.6800
F 317.570.6810

July 14, 2017

Project E160438.00

Mr. Dan Heacock
Illinois Environmental Protection Agency
Bureau of Water
Division of Water Pollution Control Permit Section #15
Facility Evaluation Unit
1021 North Grand Avenue East
Post Office Box 19276
Springfield, IL 62794

**Addendum II to Nationwide Permit 12 Joint Permit Application
Spire STL Pipeline LLC
Spire STL Pipeline Project (MVS-2016-582)
Scott, Greene, and Jersey Counties, Illinois**

Dear Mr. Heacock:

On behalf of Spire STL Pipeline LLC ("Spire"), GAI Consultants, Inc. ("GAI") submitted a Nationwide Permit 12 Joint Permit Application ("JPA") and Section 10 letter of permission request for the Spire STL Pipeline Project ("Project"), located in Scott, Greene, and Jersey Counties, Illinois ("IL"), and St. Charles and St. Louis Counties, Missouri ("MO") to your office on January 27, 2017. An addendum to the JPA application was submitted to your office on April 21, 2017. Due to minor changes in the Project alignment, and obtaining additional survey permissions, GAI has prepared this addendum to the previously submitted JPA.

The revised Project will consist of approximately 65 miles of new 24-inch-diameter steel pipeline in two segments. The first segment (referred to as the "24-inch pipeline" portion of the Project) will originate at a new interconnect with the Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois and extend approximately 59 miles through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east through St. Charles County, Missouri. The 24-inch pipeline then crosses the Missouri River into St. Louis County, Missouri, and terminates at a new interconnect with Laclede Gas Company ("LGC"). The second segment of pipeline (referred to as the "North County Extension"), will consist of a new 24-inch-diameter steel pipeline which will extend approximately six miles from the LGC interconnect through the northern portion of St. Louis County and terminate at a new interconnect with Enable Mississippi River Transmission, LLC ("Enable MRT") and LGC. The total length of the Project pipeline will be approximately 65 miles. The Project also includes the construction of three new metering and regulating ("M&R") stations that provide interconnects with (1) REX in Illinois, (2) LGC in Missouri, and (3) Enable MRT and LGC in Missouri. This Project, as proposed, falls under the oversight of the Federal Energy Regulatory Commission (FERC).

GAI, on behalf of Spire, is hereby submitting for review two hard copies and an electronic copy of the Project's Nationwide Permit ("NWP") 12 JPA Addendum. This package has been prepared based on the Project adhering to the general and regional conditions of a NWP-12 and Section 401 Water Quality Certification General and Specific Conditions within the State of Illinois. A copy of this JPA Addendum has also been provided to the Illinois Department of Natural Resources and the Illinois Environmental Protection Agency concurrently with this submittal for their confirmation of General Section 401 coverage.

United States Fish and Wildlife Service ("USFWS") consultation was initiated on August 29, 2016 and an initial response was received on December 8, 2016. A bat study plan for the Project was submitted on March 24, 2017, and an amendment letter to correspond with the Project changes was sent to USFWS on April 5, 2017. Authorization to proceed with mist net surveys was received from USFWS on May 9, 2017. On June 11, 2017, a modification to the mist net survey plan was submitted to USFWS, and authorization to proceed was received on June 12, 2017.

Correspondence with the Illinois Historic Preservation Agency ("IHPA") was initiated on August 29, 2016. Subsequently, a Phase I archaeological investigation was conducted and results submitted to IHPA. A Project addendum Report was submitted to IHPA on April 21, 2017 regarding the recent changes in the Project alignment, as well as the addition of the North County Extension. A concurrence letter was received from IHPA on June 22, 2017. Additional investigations were conducted in March and April 2017, as property access became available to survey. Information regarding these investigations will be provided to IHPA concurrently with the July 2017 FERC filing. Additional responses from these agencies will be provided once received in the anticipation that this permit application's review can be initiated without those documents in hand. Since a portion of the Project is currently unavailable for cultural resources investigation access at this time, we are requesting authorization of Single and Complete Projects that receive this concurrence on a time-staggered basis. Agency correspondence is included as Attachment B in the attached PCN addendum.

Nationwide Permit (NWP) 12 Joint Permit Application

As currently proposed, temporary impacts to 62 streams and 32 wetlands will be necessary to construct the Project. Impacted streams and wetlands will be crossed using the dry-ditch open-cut method. A dam and flume method of dewatering is installed to create a dry work area, the trenches are dug, the pipeline is placed, and the trench is then refilled and the work area reclaimed. Additionally, temporary crossings of 18 streams and 10 wetlands located within the Project workspace and along associated access roads will be required during construction of the Project. Other aquatic resources, including the Mississippi River, will be crossed using a Horizontal Directional Drill (HDD) method. This method involves boring a tunnel beneath the aquatic resources through which the pipeline will be pulled and installed. No physical impacts to the aquatic resources are anticipated to occur with this construction method. Detailed information regarding these impacts can be found in Tables 1 and 2 in the attached JPA addendum.

Avoiding stream and wetland impacts has been one of the driving factors in designing the proposed Project, and the currently proposed alignment represents an alternative that reduces stream and wetland impacts to the furthest extent practicable, while still meeting the purpose and need of the Project. Spire intends to utilize mitigation banking programs in IL should the District Engineer determine that compensatory mitigation is required for proposed impacts. Further avoidance and minimization includes the placement of timber mats for equipment crossings of streams and wetlands, and the Limit of Disturbance (LOD) width will be narrowed to a 75-foot width at all resource crossings.

Streams and Wetlands

Fieldwork associated with stream and wetland investigations for the Project was conducted between September 2016 and June 2017. The surveys identified streams and wetlands within a approximately 300-foot wide corridor centered on the proposed pipeline, and a 50-foot wide corridor surrounding the proposed access roads. Field investigations identified 68 wetlands, 168 waterbodies, and 8 ponds within the current Project study area. These features are outlined in the Addendum II to the Wetland Delineation and Stream Identification Report, included in the attached JPA Addendum. Approximately 1.7 miles of the 24-inch pipeline in Illinois remains unsurveyed due to property access constraints. Desktop identified aquatic resources have been included in these areas to supplement the stream and wetland delineation field efforts.

Closing

Spire and GAI thank you in advance for your review of this NWP-12 JPA addendum. Please feel free to contact me at 614-499-6258, or at j.fuller@gaiconsultants.com if there are any questions or concerns.

Sincerely,

GAI Consultants, Inc.



Jayme Fuller
Environmental Manager

Attachments: Nationwide Permit 12 Joint Permit Application

CC: Illinois Department of Natural Resources, U.S. Army Corps of Engineers, St. Louis District



Missouri Department of Natural Resources



Indianapolis Office
6420 Castleway West Drive
Indianapolis, IN 46250

T 317.570.6800
F 317.570.6810

July 14, 2017

Project E160438.00

Mike Irwin
Environmental Scientist
Clean Water Act Section 401 Water Quality Certification, Operating Permits section, Water Protection Program
Missouri Department of Natural Resources
P.O. Box 176, 1101 Riverside Drive
Jefferson City, Missouri 65102

**Addendum II to Nationwide Permit 12 Pre-Construction Notification
and Application for State of Missouri 401 Water Quality Certification
Spire STL Pipeline LLC
Spire STL Pipeline Project (USACE Project MVS-2016-582)
Scott, Greene, and Jersey Counties, Illinois, and St. Charles and St. Louis Counties, Missouri**

Dear Mr. Irwin:

On behalf of Spire STL Pipeline LLC ("Spire"), GAI Consultants, Inc. ("GAI") submitted a Nationwide Permit 12 Pre-Construction Notification ("PCN") and Section 10 letter of permission request for the Spire STL Pipeline Project ("Project"), located in Scott, Greene, and Jersey Counties, Illinois ("IL"), and St. Charles and St. Louis Counties, Missouri ("MO") to the U.S. Army Corps of Engineers, St Louis District on January 27, 2017. An addendum to the PCN was submitted to your office on April 21, 2017. Due to minor changes in the Project alignment, and obtaining additional survey permission, GAI has prepared this addendum to the previously submitted PCN and Section 10 Letter of Permission.

The revised Project will consist of approximately 65 miles of new 24-inch-diameter steel pipeline in two segments. The first segment (referred to as the "24-inch pipeline" portion of the Project) will originate at a new interconnect with the Rockies Express Pipeline LLC ("REX") pipeline in Scott County, Illinois and extend approximately 59 miles through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east through St. Charles County, Missouri. The 24-inch pipeline then crosses the Missouri River into St. Louis County, Missouri, and terminates at a new interconnect with Laclede Gas Company ("LGC"). The second segment of pipeline (referred to as the "North County Extension"), will consist of a new 24-inch-diameter steel pipeline which will extend approximately six miles from the LGC interconnect through the northern portion of St. Louis County and terminate at a new interconnect with Enable Mississippi River Transmission, LLC ("Enable MRT") and LGC. The total length of the Project pipeline will be approximately 65 miles. The Project also includes the construction of three new metering and regulating ("M&R") stations that provide interconnects with (1) REX in Illinois, (2) LGC in Missouri, and (3) Enable MRT and LGC in Missouri. This Project, as proposed, falls under the oversight of the Federal Energy Regulatory Commission (FERC).

GAI, on behalf of Spire, is hereby submitting for review a hard copy and an electronic copy of the Project's Nationwide Permit ("NWP") 12 PCN Addendum. This package has been prepared based on the Project adhering to the general and regional conditions of a NWP-12 and Section 401 Water Quality Certification General and Specific Conditions within the State of Missouri. Individual water quality certification is now required for all crossings by the Missouri Department of Natural Resources for proposed impacts associated with the 24-inch pipeline and North County Extension based on the 2017 Section 401 General and Specific Conditions. An Illinois-specific copy of this PCN Addendum has also been provided to the Illinois Department of Natural Resources and the Illinois Environmental Protection Agency concurrently with this submittal for their confirmation of General Section 401 coverage.

United States Fish and Wildlife Service ("USFWS") consultation was initiated on August 29, 2016 and an initial response was received on December 8, 2016. A bat study plan for the Project was submitted on March 24, 2017, and an amendment letter to correspond with the Project changes was sent to USFWS on April 5, 2017. Authorization to proceed with mist net surveys was received from USFWS on May 9, 2017. On June 11, 2017, a modification to the mist net survey plan was submitted to USFWS, and authorization to proceed was received on June 12, 2017.

Correspondence with the Missouri Historic Preservation Agency ("MHPA") was initiated on August 29, 2016. Subsequently, a Phase I archaeological investigation was conducted and results submitted to MHPA. A response from MHPA was received on March 23, 2017 in regard to the Phase I investigation. A Project addendum Report was submitted to MHPA on April 21, 2017 regarding the recent changes in the Project alignment, as well as the addition of the North County Extension. Additional investigations were conducted in March and April 2017, as property access became available to survey. Information regarding these investigations will be provided to MHPA concurrently with the July 2017 FERC filing. Additional responses from these agencies will be provided once received in the anticipation that this permit application's review can be initiated without those documents in hand. Since a portion of the Project is currently unavailable for cultural resources investigation access at this time, we are requesting authorization of Single and Complete Projects that receive this concurrence on a time-staggered basis. Agency correspondence is included as Attachment B in the attached PCN addendum.

Nationwide Permit (NWP) 12 and Section 401 Water Quality Certification

Within the State of Missouri, temporary impacts to 18 streams and 15 wetlands will be necessary to construct the Project. Impacted streams and wetlands will be crossed using the dry-ditch open-cut method. A dam and flume method of dewatering is installed to create a dry work area, the trenches are dug, the pipeline is placed, and the trench is then refilled and the work area reclaimed. Other aquatic resources, including the Mississippi and Missouri Rivers, Coldwater Creek, Spanish Lake, and Sunfish Lake, will be crossed using a Horizontal Directional Drill (HDD) method. This method involves boring a tunnel beneath the aquatic resources through which the pipeline will be pulled and installed. No physical impacts to the aquatic resources are anticipated to occur with this construction method. Detailed information regarding these impacts can be found in Tables 1 and 2 in the attached PCN addendum. Additionally, Missouri specific impacts have been outlined in Tables A and B below.

Avoiding stream and wetland impacts has been one of the driving factors in designing the proposed Project, and the currently proposed alignment represents an alternative that reduces stream and wetland impacts to the furthest extent practicable, while still meeting the purpose and need of the Project. Spire intends to utilize mitigation banking programs in IL and MO should the District Engineer determine that compensatory mitigation is required for proposed impacts. Further avoidance and minimization includes the placement of timber mats for equipment crossings of streams and wetlands, and the Limit of Disturbance (LOD) width will be narrowed to a 75-foot width at the majority of the resource crossings.

Streams and Wetlands

Fieldwork associated with stream and wetland investigations for the Project was conducted between September 2016 and June 2017. The surveys identified streams and wetlands within a approximately 300-foot wide corridor centered on the proposed pipeline, and a 50-foot wide corridor surrounding the proposed access roads. Field investigations identified 118 wetlands, 216 waterbodies, and 12 ponds within the current Project study area. These features are outlined in the Addendum II to the Wetland Delineation and Stream Identification Report, included in the attached PCN Addendum. Approximately 1.7 miles of the 24-inch pipeline and 1.3 miles of the North County Extension remain unsurveyed due to property access constraints. Desktop identified aquatic resources have been included in these areas to supplement the stream and wetland delineation field efforts.

Closing

Spire and GAI thank you in advance for your review of this NWP-12 PCN package. Please feel free to contact me at 614-499-6258, or at j.fuller@gaiconsultants.com if there are any questions or concerns.

Sincerely,

GAI Consultants, Inc.



Jayme Fuller
Environmental Manager

Attachments: Nationwide Permit 12 Pre-Construction Notification

CC: U.S. Army Corps of Engineers, St. Louis District; Illinois Department of Natural Resources; Illinois Environmental Protection Agency

Table A
Missouri Waterbodies Crossed by the Project

Stream ID ¹	Waterbody	Waterbody Type	Bank-to-Bank Width (feet) ²	Proposed Crossing Type	Latitude ³	Longitude ³	Potential USACE Classification ⁴	Temporary Stream Impacts (linear feet) ⁵
<i>24-Inch Pipeline (Missouri)</i>								
SMO-WJW-001	UNT to Mississippi River	Perennial	200	Pipeline (HDD)	38.944857	-90.381521	RPW	0
SMO-TMA-008	UNT to Mississippi River	Ephemeral	2	Workspace	38.940068	-90.384597	Non-RPW	0
SMO-JJP-030	UNT to Mississippi River	Ephemeral	3	Workspace	38.937686	-90.386248	Non-RPW	0
SMO-JJP-002	UNT to Mississippi River	Ephemeral	6	Temporary Access Road	38.933983	-90.380515	Non-RPW	0
SMO-JJP-004	UNT to Mississippi River	Ephemeral	2	Open Cut	38.931508	-90.381833	Non-RPW	7
SMO-TMA-011	UNT to Mississippi River	Ephemeral	2	Workspace	38.929824	-90.392509	Non-RPW	0
SMO-JJP-003	UNT to Mississippi River	Ephemeral	4	Open Cut	38.927284	-90.368486	Non-RPW	7
SMO-TMA-006	UNT to Mississippi River	Perennial	60	Open Cut	38.927169	-90.368124	RPW	7
SMO-JJP-001	UNT to Mississippi River	Ephemeral	4	Open Cut	38.923365	-90.354474	Non-RPW	8
SMO-TMA-009	UNT to Mississippi River	Ephemeral	6	Open Cut	38.917738	-90.336713	Non-RPW	7
SMO-TMA-005	UNT to Missouri River	Ephemeral	4	Open Cut	38.898931	-90.302949	Non-RPW	7
SMO-TMA-004	UNT to Missouri River	Ephemeral	3	Open Cut	38.898066	-90.300374	Non-RPW	7
SMO-TMA-003	UNT to Missouri River	Ephemeral	3	Open Cut	38.898045	-90.300312	Non-RPW	7

Stream ID¹	Waterbody	Waterbody Type	Bank-to-Bank Width (feet)²	Crossed By	Latitude³	Longitude³	Potential USACE Classification⁴	Temporary Stream Impacts (linear feet)⁵
SMO-TMA-002	UNT to Missouri River	Ephemeral	2	Open Cut	38.897628	-90.298545	Non-RPW	7
SMO-TMA-001	UNT To Missouri River	Perennial	175	Pipeline (HDD)	38.847918	-90.238377	RPW	0
SMO-CDK-001	Missouri River	Section 10 Perennial	1335	Pipeline (HDD)	38.843320	-90.241912	Section 10 TNW	0
SMO-DFW-002	UNT to Missouri River	Ephemeral	6	Workspace	38.836896	-90.246716	Non-RPW	0
<i>North County Extension (Missouri)</i>								
SMO-JJP-023	UNT to Missouri River	Ephemeral	4	Workspace	38.828428	-90.245983	Non-RPW	0
SMO-JJP-022	UNT to Missouri River	Perennial	6	Open Cut	38.824110	-90.244645	RPW	18
SMO-JJP-024	UNT to Missouri River	Ephemeral	4	Open Cut	38.822514	-90.242031	Non-RPW	9
SMO-JJP-026	UNT to Missouri River	Ephemeral	6	Open Cut	38.821875	-90.241189	Non-RPW	10
SMO-JJP-027	UNT to Missouri River	Ephemeral	6	Open Cut	38.821789	-90.241076	Non-RPW	12
SMO-JJP-022	UNT to Missouri River	Perennial	6	Open Cut	38.821257	-90.240384	RPW	37
SMO-JJP-020	Coldwater Creek	Perennial	125	Pipeline (HDD)	38.817449	-90.228457	RPW	0
SMO-JJP-032	UNT to Coldwater Creek	Perennial	15	Pipeline (HDD)	38.817339	-90.228069	RPW	0
NHD-955*	UNT to Missouri River	Intermittent	ND	Open Cut	38.808993	-90.214068	RPW	7
NHD-962*	UNT to Missouri River	Intermittent	ND	Open Cut	38.806289	-90.207221	RPW	8

Stream ID¹	Waterbody	Waterbody Type	Bank-to-Bank Width (feet)²	Crossed By	Latitude³	Longitude³	Potential USACE Classification⁴	Temporary Stream Impacts (linear feet)⁵
SMO-JJP-015	UNT to Mississippi River	Perennial	14	Open Cut	38.788604	-90.186586	RPW	7
SMO-JJP-012	UNT to Mississippi River	Perennial	35	Open Cut	38.786005	-90.186201	RPW	7
SMO-JJP-007	UNT to Watkins Creek	Intermittent	6	Workspace	38.779962	-90.185939	RPW	0
SMO-DFW-015	UNT to Watkins Creek	Perennial	4	Workspace	38.779930	-90.186038	RPW	0
Total Impact (Linear Feet)								179

Notes:

- 1 GAI Consultants, Inc. (GAI) map designation. Features designated with an asterisk (*) were located using desktop methods and have not been field verified due to property access constraints.
- 2 Stream width as measured from top of banks. ND – No Data was collected for these features as they were remotely located using desktop methods.
- 3 Coordinates are North American Datum 1983.
- 4 RPW – Relatively Permanent Waters; Non-RPW – Non-Relatively Permanent Waters.
- 5 Linear footage of stream within the impact (ditch) area, measured along the stream centerline.

Table B
Missouri Wetlands Crossed by the Project

Wetland ID ¹	Latitude ²	Longitude ²	Proximal Waterbody	NWI Classification ³	Proposed Crossing Method	Wetland Impact (acres) ⁴
<i>24-Inch Pipeline (Missouri)</i>						
WMO-JJP-001A	38.944432	-90.381903	Mississippi River	PFO	HDD	0
WMO-WJW-001	38.943525	-90.382315	Mississippi River	PFO	HDD	0
WMO-JJP-012	38.916734	-90.333545	UNT to Mississippi River	PEM	Open Cut	0.240
WMO-TMA-010	38.915756	-90.330459	UNT to Mississippi River	PEM	Open Cut	0.057
WMO-JJP-010	38.912696	-90.328022	UNT to Mississippi River	PEM	Open Cut	0.011
WMO-JJP-007	38.886885	-90.271932	UNT to Missouri River	PEM	Open Cut	0.086
WMO-JJP-131	38.881853	-90.262336	UNT to Missouri River	PEM	Workspace	0
PMO-TMA-001	38.881822	-90.262085	UNT to Missouri River	PUB	Open Cut	0.012
WMO-TMA-006	38.880209	-90.257433	UNT to Missouri River	PEM	Open Cut	0.038
WMO-TMA-005A	38.873341	-90.242547	UNT to Missouri River	PEM	Open Cut	0.032
WMO-TMA-005	38.873163	-90.242161	UNT to Missouri River	PUB	Open Cut	0.061
WMO-JJP-002	38.871524	-90.238417	UNT to Missouri River	PEM	Workspace	0
WMO-JJP-005	38.863283	-90.233034	UNT to Missouri River	PEM	Open Cut	0.010

Wetland ID¹	Latitude²	Longitude²	Proximal Waterbody	NWI Classification³	Proposed Crossing Method	Wetland Impact (acres)⁴
WMO-TMA-004	38.856662	-90.234419	UNT to Missouri River	PEM	Open Cut	0.006
WMO-TMA-003A	38.856484	-90.231543	UNT to Missouri River	PEM	Workspace	0
WMO-TMA-003	38.856323	-90.231677	UNT to Missouri River	PUB	Workspace	0
WMO-TMA-002	38.853991	-90.233572	UNT to Missouri River	PEM	Workspace	0
WMO-TMA-001A	38.848171	-90.238184	UNT to Missouri River	PFO	HDD	0
WMO-TMA-001	38.847961	-90.238343	UNT to Missouri River	PEM	HDD	0
WMO-CDK-005	38.842018	-90.242741	Missouri River	PEM	Workspace	0
WMO-CDK-004	38.841626	-90.243251	Missouri River	PEM	Open Cut	0.010
WMO-CDK-003	38.841033	-90.243851	Missouri River	PEM	Workspace	0
<i>North County Extension (Missouri)</i>						
WMO-JJP-120	38.830034	-90.245966	UNT to Missouri River	PEM	Open cut	0.021
	38.829729	-90.245945		PFO		0.019
WMO-JJP-122	38.822293	-90.241608	UNT to Missouri River	PEM	Workspace	0
WMO-JJP-123	38.821436	-90.240481	UNT to Missouri River	PEM	Workspace	0
WMO-JJP-125	38.818400	-90.230588	UNT to Coldwater Creek	PEM	HDD	0
WMO-JJP-126	38.814411	-90.221321	UNT to Coldwater Creek	PEM	Open Cut	0.005

Wetland ID¹	Latitude²	Longitude²	Proximal Waterbody	NWI Classification³	Proposed Crossing Method	Wetland Impact (acres)⁴
WMO-JJP-119	38.813343	-90.218070	UNT to Missouri River	PEM	Open Cut	0.024
WMO-DFW-002	38.806278	-90.212327	UNT to Missouri River	PEM	Workspace	0
NWI-204*	38.803512	-90.201881	UNT to Missouri River	PFO1C	Open Cut	0.004
PMO-JJP-001	38.801574	-90.198481	UNT to Missouri River	PUB	HDD	0
WMO-JJP-132	38.800341	-90.196143	UNT to Missouri River	PSS	HDD	0
PMO-JJP-002	38.799294	-90.193386	UNT to Missouri River	PUB	HDD	0
WMO-JJP-129	38.799133	-90.193011	UNT to Missouri River	PUB	HDD	0
WMO-DFW-007	38.779667	-90.184974	UNT to Watkins Creek	PEM	Open Cut	0.004
Total Impact (acres)						0.640

Notes:

- ¹ GAI Consultants, Inc. (GAI) map designation. Features designated with an asterisk (*) were located using desktop methods and have not been field verified due to property access constraints
- ² Coordinates are North American Datum 1983.
- ³ PEM – Palustrine Emergent; PSS – Palustrine Scrub-Shrub; PFO – Palustrine Forested.
- ⁴ Total area of wetland located within the Project limits of disturbance (LOD).
- ⁵ Total area of wetland located within the 50-foot wide permanent right-of-way (ROW)
- ⁶ Acreage of wetland conversion from PSS/PFO to PEM within LOD.
- ⁷ Acreage of wetland conversion within 50-foot permanent ROW



Missouri State Historic Preservation Office



July 14, 2017

Ms. Judith Deel
Missouri State Historic Preservation Office
1101 Riverside Drive
Jefferson City, Missouri 65101

**Re: Submittal of Technical Report - Addendum II
Phase I Archaeological Survey
SHPO Log #: 061-MLT-16
Spire STL Pipeline Project
St. Charles and St. Louis Counties, Missouri**

Dear Ms. Deel:

Spire STL Pipeline LLC ("Spire"), a wholly owned subsidiary of Spire Inc., is seeking authorization from the Federal Energy Regulatory Commission pursuant to Section 7(c) of the Natural Gas Act to construct and operate the proposed Spire STL Pipeline Project ("Project") located in Scott, Greene, and Jersey Counties, Illinois, and St. Charles and St. Louis Counties, Missouri. The total length of the Project pipelines will be approximately 65 miles, of which 19.53 miles are in Missouri.

GAI Consultants, Inc. ("GAI") conducted a supplemental Phase I archaeological survey between March and June 2017 to survey parcels where survey permission has been granted since the last Phase I field session concluded on March 3, 2017. The Area of Potential Effect ("APE") for the supplemental archaeological investigations was defined as the area of ground disturbance anticipated for construction activities. For the purposes of the supplemental Phase I archaeological survey, the APE consisted of a 300-foot-wide study corridor centered on the proposed pipeline route for both the 24-inch pipeline and the North County Extension, a study corridor ranging in width from 25 feet to 100 feet for proposed access roads, and the footprint of workspace needed for a cathodic protection groundbed.

The total APE for the Missouri portion of the Project was 314.82 hectares (777.95 acres). Of this, 17.19 hectares (42.48 acres) were surveyed during the supplemental Phase I investigation conducted between March and June 2017, 249.24 hectares (615.9 acres) were previously surveyed, and 30.02 hectares (74.18 acres) was not surveyed due to land access restrictions or avoidance via HDD.

Background research results indicate that no previously recorded cultural resources are mapped within the supplemental APE. No cultural resources were identified during supplemental Phase I survey of the Missouri APE in March-June 2017. The Addendum II report also includes an update regarding recent Project design changes in the vicinity of Site 23SC2216, an early twentieth century residential occupation that may meet the requirements for listing in the National Register of Historic Places. GAI recommends that temporary construction fencing be placed along the western edge of a proposed additional temporary workspace located approximately 5 feet east of Site 23SC2216 as an avoidance measure to protect the site from potential impacts during Project construction activities. Given that impacts to the site will be avoided, GAI recommends no further work at Site 23SC2216.

GAI, on behalf of Spire, is requesting your review and concurrence of the attached addendum technical report presenting the archaeological results and recommendations for the Project.

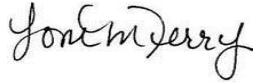
We look forward to continuing to work with you on this Project. Please contact Mr. Eric Scuoteguazza at 412.399.5188 or e.scuoteguazza@gaiconsultants.com, if there are questions regarding this report.

Sincerely,

GAI Consultants, Inc.



Eric P. Scuoteguazza, M.A., M.B.A., RPA
Senior Manager, Cultural Resources



Lori M. Ferry
Environmental Project Manager

EPS:LMF/gmg

Attachments: Attachment 1 (Technical Report - Addendum II, Phase I Archaeological Survey) and Attachment 2 (Section 106 Survey Memo)



July 14, 2017

Ms. Judith Deel
Missouri State Historic Preservation Office
1101 Riverside Drive
Jefferson City, Missouri 65101

**Re: Submittal of Revised Technical Report – Phase I Archaeological Survey
SHPO Log #: 061-MLT-16
Spire STL Pipeline Project
St. Charles and St. Louis Counties, Missouri**

Dear Ms. Deel:

In response to a letter from the Missouri State Historic Preservation Office ("MO SHPO") dated March 23, 2017, GAI Consultants, Inc. ("GAI"), on behalf of Spire STL Pipeline LLC ("Spire"), a wholly owned subsidiary of Spire Inc., is submitting a revised Phase I Archaeological Survey Technical Report for your review and concurrence. The draft version of this revised report was initially submitted to the MO SHPO on January 26, 2017. As requested, the attached revised report addresses the following comments:

- ▶ Site descriptions include: all transects; the percentage of ground surface visibility; discussion regarding shovel testing (number of shovel tests excavated and overall results); and whether site boundaries extend outside the right-of-way (Chapter 6).
- ▶ References to sheet numbers for Figures 1.2 and 6.1 are included in the revised report. Site location figures showing resource boundaries in relation to the Project are included in the site description section (Chapter 6, Figures 6.2-6.9).
- ▶ Official trinomials are included on site form maps (Appendix C).
- ▶ Artifact illustrations and photographs are included in the site descriptions (Chapter 6) and site forms (Appendix C).
- ▶ The potential extent of Site 23SC2213 that is located outside the Project right-of-way is addressed (Chapter 6, page 66).
- ▶ The intact integrity of Site 23SC2218 is discussed (Chapter 6, page 63).
- ▶ The description of Site 23SC2219 states that the historic component does not have the potential to contribute to the possible eligibility of the site (Chapter 6, page 59).
- ▶ The intact integrity and potential for buried deposits at Site 23SC2215 are discussed (Chapter 6, pages 68-71).
- ▶ Phase I survey methods at Site 23SC2216 are discussed (Chapter 6, pages 79-83).
- ▶ Historical records reviewed to determine if the mapped location of Site 23SC5 is accurate are presented. Landscape changes in the vicinity of Site 23SC5 are also discussed (Chapter 6, page 83).
- ▶ For Sites 23SL157 and 23SL158, the revised report states that there is no evidence of the sites within the Project area, and that there will be no effect (Chapter 6, page 90).

GAI, on behalf of Spire, is requesting your review and concurrence of the attached revised technical report presenting the archaeological results and recommendations for the Project.

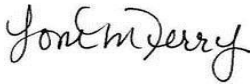
We look forward to continuing to work with you on this Project. Please contact Mr. Eric Scuoteguazza at 412.399.5188 or e.scuoteguazza@gaiconsultants.com, if there are questions regarding this report.

Sincerely,

GAI Consultants, Inc.



Eric P. Scuoteguazza, M.A., M.B.A., RPA
Senior Manager, Cultural Resources



Lori M. Ferry
Environmental Project Manager

EPS:LMF/gmg

Attachments: Attachment 1 (Revised Technical Report - Phase I Archaeological Survey)



Missouri Department of Agriculture

Ali Trunzo

From: Chatman, Darryl <Darryl.Chatman@mda.mo.gov>
Sent: Tuesday, June 06, 2017 5:48 PM
To: Ali Trunzo

The Missouri Department of Agriculture does not require further coordination regarding the Project.

Thank you.

Sincerely,

Darryl M. Chatman
General Counsel
Missouri Department of Agriculture
1616 Missouri Blvd., PO Box 630
Jefferson City, MO 65102
Office: (573) 751-5625
Cell: (573) 289-6386
darryl.chatman@mda.mo.gov
agriculture.mo.gov



From: Ali Trunzo
Sent: Wednesday, May 17, 2017 11:22 AM
To: 'Jacqui.Conatser@mda.mo.gov' <Jacqui.Conatser@mda.mo.gov>
Cc: Lori Ferry <L.Ferry@gaiconsultants.com>
Subject: Spire STL Pipeline Project

Jacqui,

Spire STL Pipeline LLC's ("Spire's") proposed Spire STL Pipeline Project ("Project") crosses agricultural areas in St. Charles and St. Louis Counties, Missouri. In the planning stages of the Project in June, we had spoken with legal counsel for the Department of Agriculture, and they confirmed that no mitigation plan agreement was required for construction through agricultural lands. Since this Project is under the jurisdiction of the Federal Energy Regulatory Commission ("FERC"), FERC has asked Spire to re-consult to confirm that the state permitting and state protected species consultations that Spire is pursuing with the Department of Natural Resources and Department of Conservation are sufficient and that no further coordination with your office is required.

Can you confirm in writing that the Department of Agriculture does not require further coordination regarding the Project? A brief description of the proposed Project is below for your reference.

Thank you for your assistance.

Best,

Ali

Alessandra M. Trunzo

Project Environmental Specialist

385 E. Waterfront Drive, Homestead, PA 15120-5005

Direct 412.399.5096 **Office** 412.476.2000 **Email** a.trunzo@gaiconsultants.com

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<image001.png>

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Project Description

Spire STL Pipeline LLC (“Spire”), a wholly owned subsidiary of Spire Inc.,^[1] is seeking authorization from the Federal Energy Regulatory Commission (“FERC”) pursuant to Section 7(c) of the Natural Gas Act to construct and operate the proposed Spire STL Pipeline Project (“Project”) located in Scott, Greene, and Jersey Counties, Illinois, and St. Charles and St. Louis Counties, Missouri. The Project as proposed will consist of approximately 65 miles of new, greenfield, 24-inch-diameter steel pipeline in two segments. The first segment (referred to as the “24-inch pipeline” portion of the Project) will originate at a new interconnect with the Rockies Express Pipeline LLC (“REX”) pipeline in Scott County, Illinois and extend approximately 59 miles through Greene and Jersey Counties in Illinois before crossing the Mississippi River and extending east through St. Charles County, Missouri. The 24-inch pipeline then crosses the Missouri River into St. Louis County, Missouri, and terminates at a new interconnect with Laclede Gas Company (“LGC”). The second segment of new, greenfield pipeline (referred to as the “North County Extension”) will consist of a 24-inch-diameter steel pipeline which will extend approximately six miles from the LGC interconnect through the northern portion of St. Louis County and terminate at a new interconnect with Enable Mississippi River Transmission, LLC (“Enable MRT”) and LGC. The total length of the Project pipeline will be approximately 65 miles. The overall design capacity of the Project pipeline is expected to be 400,000 dekatherms per day (“Dth/d”). No compression will be required. The Project also includes the construction of three new metering and regulating (“M&R”) stations that provide interconnects with (1) REX in Illinois, (2) LGC in Missouri, and (3) Enable MRT and LGC in Missouri.

ATTORNEY/CLIENT PRIVILEGED COMMUNICATION

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permission of the sender. If you have received this correspondence in error, please return it to the author immediately. If you have any questions regarding the confidentiality of this document, you may call me at 573-751-5625.

^[1] Spire Inc. is the new name of The Laclede Group, a natural gas company with over 150 years of experience providing natural gas service in the St. Louis, Missouri area, with current natural gas distribution operations serving 1.7 million customers in Missouri, Alabama, and Mississippi.

Ali Trunzo

From: Ali Trunzo
Sent: Monday, June 05, 2017 11:32 AM
To: Ali Trunzo
Subject: FW: Spire STL Pipeline Project

From: Ali Trunzo
Sent: Monday, June 05, 2017 11:32 AM
To: 'Jacqui.Conatser@mda.mo.gov' <Jacqui.Conatser@mda.mo.gov>
Cc: Lori Ferry <L.Ferry@gaiconsultants.com>
Subject: RE: Spire STL Pipeline Project

Hello Jacqui,

Just checking in to see if you had a chance to discuss the question below. Please let us know if you should have questions.

Thank you again for your assistance.

Ali

Alessandra M. Trunzo
D 412.399.5096 Email a.trunzo@gaiconsultants.com



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From: Ali Trunzo
Sent: Wednesday, May 17, 2017 11:22 AM
To: 'Jacqui.Conatser@mda.mo.gov' <Jacqui.Conatser@mda.mo.gov>
Cc: Lori Ferry <L.Ferry@gaiconsultants.com>
Subject: Spire STL Pipeline Project

Jacqui,

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Can you confirm in writing that the Department of Agriculture does not require further coordination regarding the Project? A brief description of the proposed Project is below for your reference.

Thank you for your assistance.

Best,

Ali

Alessandra M. Trunzo
Project Environmental Specialist

385 E. Waterfront Drive, Homestead, PA 15120-5005

Direct 412.399.5096 **Office** 412.476.2000 **Email** a.trunzo@gaiconsultants.com

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^[1] Spire Inc. is the new name of The Laclede Group, a natural gas company with over 150 years of experience providing natural gas service in the St. Louis, Missouri area, with current natural gas distribution operations serving 1.7 million customers in Missouri, Alabama, and Mississippi.



Local Agencies and Governments - Jersey County, Illinois

telephone log



gai consultants

Date: 07/10/2017

Project / Admin. No.: E160438.00

Call From: Cindy Cregmiles, Code Administrator

Company: Jersey County, Illinois

Phone No.: 618-498-5571 x146

Call To: Matt Tanner

Company: GAI Consultants

Phone No.: 681-245-8854

Subject: E&S Variance Request and Culvert Replacement Permitting

cc:

Summary of Discussion, Decisions, and Commitments:

I called Ms. Cindy Cregmiles as a follow up to the conversation that I had with her on June 7, 2017 regarding Jersey County's process for requesting a variance for the stormwater development permit. I initially left her a voicemail on July 7, 2017. She then returned my call on July 10, 2017. When she called me back, I reminded her that we had discussed variances during my previous call and that she had told me that the variance request would need to be reviewed by the Jersey County Subdivision and Land Use Committee and then also by the County Board, if the Committee determines that the variance is warranted. I asked her for the meeting schedule of both the Subdivision and Land Use Committee and the County Board. Ms. Cregmiles told me that the Board meets the 2nd Tuesday of every month, except for July due to July 4th holiday and the County Fair. She told me that the next scheduled meeting was the day after we spoke (July 11, 2017). She said that Subdivision and Land Use Committee meets on an as needed basis if called for a meeting. The open meetings regulations require them to publish notice of the meeting for 3 days prior to the meeting. The secretary will also need several days to coordinate attendance of the committee members to make sure that there is a quorum. Ms. Cregmiles recommended submitting the meeting request a week to 2 weeks in advance of the desired Committee meeting date.

telephone log



gai consultants

Date: 06/07/2017

Project / Admin. No.: E160438.00

Call From: Tom Klasner

Company: Jersey County Highway Department

Phone No.: 618-498-9074

Call To: Matt Tanner

Company: GAI Consultants

Phone No.: 681-245-8854

Subject: Culvert Replacement Permitting

cc:

Summary of Discussion, Decisions, and Commitments:

I contacted Mr. Tom Klasner at the Jersey County Highway Department to discuss permitting requirements for culvert replacements. When I initially called Mr. Klasner was in a meeting and the receptionist took my name and number and said that she'd have him call me back. Mr. Klasner called back later that afternoon. I explained that we were assisting Spire with permitting for the STL pipeline and were working to determine what permitting requirements the County has for replacement of existing culverts. I told him that Spire was currently planning to primarily use existing access roads, but plan to replace culverts that are in poor condition with a culvert of equal or larger diameter. Mr. Klasner said that this type of project is new to both him and the County and they don't currently have permitting requirements in place for this. The County is working on developing road use agreements that they can use with Spire for maintenance and repair of the roads and culverts for damage caused by construction traffic. He said that the County will need to evaluate the condition of each culvert on a case by case basis. He mentioned the County may need to hire a consultant to evaluate the culverts. Mr. Klasner asked if GAI was going to be evaluating the culverts for Spire. I told him that we were assisting Spire with environmental permitting, but that another engineering firm, Mott McDonald, was assisting them with design of the pipeline and access roads.

The requirements and agreement being developed by the County will apply to any culverts within their ROW. It would not apply to access road culverts outside of their ROW. Mr. Klasner said that on some roads, the County owns the roads out to the edge of the ROW. On others, the land owners own to the middle of the road, but the County has the right to use and maintain the road. He also said that on township roads the land owners own to the middle of the road and the township has the right to use and maintain the road.

He asked if GAI was working for Mott McDonald or for Spire. I told him that we were working for Spire, but we were working with Mott McDonald for the permitting. Mr. Klasner asked if Spire was still looking at going to construction in 2018. I told him that the last that I had heard they were planning to start construction in 2018.

telephone log



gai consultants

Date: 06/07/2017

Project / Admin. No.: E160438.00

Call From: Matt Tanner

Company: GAI Consultants

Phone No.: 681-245-8854

Call To: Cindy Cregmiles, Code Administrator

Company: Jersey County, Illinois

Phone No.: 618-498-5571 x146

Subject: E&S Variance Request and Culvert Replacement Permitting

cc:

Summary of Discussion, Decisions, and Commitments:

I called Ms. Cindy Cregmiles regarding Jersey County's process for requesting a variance for the stormwater development permit. I told her that we were working with Spire on the STL Pipeline Project and that we were working to standardize the erosion and sediment control best management practice requirements across the entire project. I asked her what the process was to request a variance if some of the BMPs differed from what was specified in the Illinois Urban Manual. I gave the example of a reduction in the length of a construction entrance from 70 feet to 50 feet as the type of variance that we plan to request.

Ms. Cregmiles told me that we will need to submit the variance requests to the Jersey County Subdivision and Land Use Committee for review. The request will need to include a detailed explanation of the variance being requested, the reason for the variance, and potential impacts that may result from the variance. The Committee will include members of the County Board. Representatives from the Soil and Water Conservation District and Highway Department will be included at the review as guests to provide input. If the Committee determines that the variance is warranted, then it will be sent to the full County Board for review. If the Committee decides that the variance is not warranted, then they will deny the request. Ms. Cregmiles said that the variances should be requested prior to any permitting.

For my questions regarding permitting for culvert replacements, Ms. Cregmiles said that I would need to speak with Mr. Tom Klasner at the Jersey County Highway Department (Phone Number 618-498-9074).



Local Agencies and Governments - St. Charles County, Missouri

telephone log



gai consultants

Date: 07/07/2017

Project / Admin. No.: E160438.00

Call From: Matt Tanner

Company: GAI Consultants

Phone No.: 681-245-8854

Call To: John Barron

Company: St. Charles County, Missouri

Phone No.: 636-949-1817

Subject: E&S Variance Request and Culvert Replacement Permitting Conversation

cc:

Summary of Discussion, Decisions, and Commitments:

Mr. John Barron from St. Charles County left a message on July 7, 2017 asking me to call him regarding the Spire STL-Pipeline Project. I called Mr. Barron back the same day. He asked which day I had previously spoken with him and Mr. Rich Gnecco regarding St. Charles County's process for requesting a variance for the erosion and sediment control requirements. I told him that we'd had that conversation on June 13, 2017. This was the only question that he had.

telephone log



gai consultants

Date: 06/13/2017

Project / Admin. No.: E160438.00

Call From: Matt Tanner

Company: GAI Consultants

Phone No.: 681-245-8854

Call To: Rich Gnecco

Company: St. Charles County, Missouri

Phone No.: 636-949-7900 x7160

Subject: E&S Variance Request and Culvert Replacement Permitting

cc:

Summary of Discussion, Decisions, and Commitments:

I called Mr. Rich Gnecco regarding St. Charles County's process for requesting a variance for the erosion and sediment control requirements. I initially received his voicemail, but he called me back within an hour of my call. John Barren from St. Charles County was in the room with Mr. Gnecco during the call. I told them that we were working with Spire for environmental permitting on the STL Pipeline Project and that we were working to standardize the erosion and sediment control best management practice requirements across the entire project. I asked him what the process was to request a variance if some of the BMPs differed from what was specified in the County Design Manual. He said that we do not have to use the exact details that are in the manual, but the details that we use do have to meet the standards at the front of the manual. The County provides the standard details because they know that the details meet the requirements. Mr. Gnecco said that we can email the details to him for review prior to the land disturbance permit application. They would let us know if the details are acceptable. Detailed information on why a best management practice can't meet the requirements would need to be submitted if a detail doesn't meet County requirements. Mr. Gnecco said that he didn't see why we shouldn't be able to meet the County requirements on a linear construction project like this. He said that he wouldn't anticipate needing sediment basins or other more complicated best management practices. I told him that we're primarily looking at using silt fence, construction entrances, waterbars, and trench plugs. Mr. Gnecco said that he figured that it would primarily be farm land and he didn't seem too concerned. I confirmed that the majority of the route is through farm fields with some road crossings. He said that they will be most concerned about the areas around the road crossings and near streams and wetlands. They will looking for the construction to be stabilized as soon as possible.

During the call I also mentioned to him that I'd spoken with Charlie Kuehler (St. Charles Highway Department) about the requirement for special use permits for culvert replacement with the County Road right of way. I asked if there were also permits required if a stream culvert outside of the right of way needed to be replaced. He said that they would need to issue a County permit for replacement of stream culverts. The County will evaluate all of the permit applications (land disturbance, special use, stream culvert, etc.) at the same time and issue the permits together. The average timeframe for review of the initial submittal is 2 weeks. Subsequent reviews are typically about 7 days.

telephone log



gai consultants

Date: 06/08/2017

Project / Admin. No.: E160438.00

Call From: Charlie Kuehler

Company: St. Charles County Highway Department

Phone No.: 636-949-7305

Call To: Matt Tanner

Company: GAI Consultants

Phone No.: 681-245-8854

Subject: Culvert Replacement Permitting

cc:

Summary of Discussion, Decisions, and Commitments:

I contacted Mr. Charlie Kuehler at the St. Charles County Highway Department to discuss permitting requirements for culvert replacements. When I initially called Mr. Kuehler, I received his voicemail and left him a message asking him to call me back. Mr. Kuehler called back later that afternoon. I explained that we were assisting Spire with permitting for the STL pipeline and were working to determine what permitting requirements the County has for replacement of existing culverts. I told him that Spire was currently planning to primarily use existing access roads, but plans to replace existing culverts that are in poor condition with a culvert of equal or larger diameter. I told him that based on my review of the County website and manuals, it appeared that a Special Use Permit would be required for replacement of any culverts within the County right-of-way. He said that that was correct. As part of the Special Use Permit application, Spire would need to submit information on which culverts would be proposed to be replaced and what material and diameter culvert it would replace it. If the replacement culverts are equal or better than the existing culverts than the application process will be straightforward. If there are any new culverts proposed, information for those would also need to be included. They want to make sure that the culverts will last. As part of their review the County will perform site visits to review the culvert locations.

The Special Use Permit information can be submitted to the County along with the Land Disturbance Permit Application. When a Land Disturbance Permit Application is submitted to the County, the Highway Department will receive a copy of that information from Planning and Zoning and the culvert replacements will be evaluated as part of the Land Disturbance Permit application review. Mr. Kuehler said that a copy of the information could also be emailed to him once the land disturbance permit application is submitted to ensure that he receives a copy of the information quickly. The time for County Highway Department review and conducting the site visits will depend on how many culverts are proposed. Mr. Kuehler asked if I knew how many locations there were. I told him that I didn't know right off hand. I told him that the current proposed location was in the northern part of the County and that it was primarily agricultural fields without a large number of roads. He said that if it is only a couple of culverts, the review may take 2 or 3 days. If it's closer to a dozen locations, it could take a week to 10 days. He said that the Special Use permit applies only to those culverts within the County right-of-way. Replacement of stream culverts outside of the County right-of-way will be evaluated by the County during the Land Disturbance Permit application review.

Mr. Kuehler asked when we plan to submit the application. I told him that we are in the process of developing erosion and sediment control plans and plan to submit to the County in the fall around October.



Local Agencies and Governments - St. Louis County, Missouri

telephone log



gai consultants

Date: 06/13/2017

Project / Admin. No.: E160438.00

Call From: Matt Tanner

Company: GAI Consultants

Phone No.: 681-245-8854

Call To: Jim Knoll

Company: St. Louis County, Missouri

Phone No.: 314-615-8554

Subject: E&S Variance Request and Culvert Replacement Permitting

cc:

Summary of Discussion, Decisions, and Commitments:

I called Mr. Jim Knoll regarding St. Louis County's process for requesting a variance for the erosion and sediment control requirements. I initially received his voicemail, but he called me back immediately after I left a message. I told Mr. Knoll that we were working with Spire for environmental permitting on the STL Pipeline Project and that we were working to standardize the erosion and sediment control best management practice requirements across the entire project. I asked him what the process was to request a variance or modification, if some of the BMPs differed from what was specified in the County Erosion and Sediment Control Manual. Mr. Knoll told me that he had not had a request like this before and that he would need to look into what the ordinance says about what the County can allow and the process for review. He said that they do have latitude to allow modifications if a proposed substitution is equal to or better than what is required in the County manual and ordinances. He asked which best management practices we would be asking for variances on. I told him that there were several, but gave the example of the construction entrance detail. In the example, I told him that the current detail has a width of 20 feet whereas the County has a required width of 24 feet. Mr. Knoll told me that we will need to submit a list of best management practices/details that will require variances, which County requirements are not being met, and a description of how meeting the requirements would be a hardship. I told him that we would pull together that information and send it to him for his review. Mr. Knoll said that the list can be submitted ahead of the land disturbance permit application. During the conversation, I mentioned to him that I had seen a section in the County Erosion and Sediment Control Manual regarding modifications. That section says that an application would need to be submitted in writing for review by the Department of Transportation. Mr. Knoll emphasized several times during the conversation that they will be looking for the BMPs proposed to be equal to or better than the County minimum requirements, unless we can demonstrate how meeting the requirements would be a hardship.

I also asked Mr. Knoll about culvert replacement permitting. I told him that my understanding was that a special use permit would be needed for those. He said yes, but stated that the special use permits are required for any construction activity within the County right of way, not only for culverts. I mentioned that Spire plans to primarily use existing access roads, that some of the existing culverts may need to be replaced if they are found to be in poor condition, and that the replacement culverts would be of equal diameter or larger. Mr. Knoll said that the County Standard for culverts is to use RCP (Reinforced

Concrete Pipe) and any replacements would need to be that material. Even if replacement culvert is equal diameter or larger than the existing culvert, the culvert replacements may need a flow analysis performed for special use permit approval. This would especially be true if there were existing drainage issues. I asked him if there were additional permit requirements for stream culvert replacements outside of the County right of way. He said that we'd need to be sure to identify the ordinary high water mark and contact the US Army Corp and other relevant agencies for permitting of stream culverts. I told him that we were aware of permitting requirements at the state and federal level, but wanted to make sure we knew what the county requirements were. He said that we would need to submit flow analyses for the stream culverts. This would be especially important if the culvert was in a floodplain. The information would be submitted along with the information for the land disturbance and special use permits.



Native American Tribes

GAI Consultants, Inc.

Chicago Office
 2300 Cabot Drive, Suite 395
 Lisle, IL 60532
 T 313.301.2001
www.gaiconsultants.com

Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

Winnebago Tribe of Nebraska
Tribal Historic Preservation Office
PO Box 687
Winnebago, Nebraska 68071
Attention: Mr. Henry Payer
Tribal Historic Preservation Officer

PROJECT TITLE:
Spire STL Pipeline Project

SUBJECT:
Spire STL Pipeline Project Addendum II Phase I Archaeological Survey Reports, Illinois and Missouri; Illinois Phase II Reports, Sites 11JY751 and 11JY765

WE ARE SENDING YOU: Electronic Files
VIA: Regular US Mail
PURPOSE: For Review and Comment

COMMENTS:

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1	--	--	July 14, 2017	Cover Letter – Addendum II Phase I Report, Sites 11JY751 and 11JY765 Phase II Reports Submittal to IHPA	--
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1	--	--	July 14, 2017	Illinois Phase II Archaeological Testing at Site 11JY751	--
1	--	--	July 14, 2017	Illinois Phase II Archaeological Testing at Site 11JY765	--
1	--	--	July 14, 2017	Cover Letter – Addendum II Phase I Report Submittal to MO SHPO	--
1	--	--	July 14, 2017	Missouri Addendum II Phase I Archaeological Survey Report	--

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DISTRIBUTION:

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Sincerely,



Eric P. Scuoteguazza, M.A., M.B.A., RPA
 Senior Cultural Resources Manager

GAI Consultants, Inc.

Chicago Office
 2300 Cabot Drive, Suite 395
 Lisle, IL 60532
 T 313.301.2001
www.gaiconsultants.com

Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

United Keetoowah Band of Cherokee Indians of Oklahoma
PO Box 746
Tahlequah, Oklahoma 74465
Attention: Mr. Eric Oosahwee-Voss
Tribal Historic Preservation Officer

PROJECT TITLE:
Spire STL Pipeline Project

SUBJECT:
Spire STL Pipeline Project Addendum II Phase I Archaeological Survey Reports, Illinois and Missouri; Illinois Phase II Reports, Sites 11JY751 and 11JY765

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Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

Sac and Fox Tribe of the Missouri in Kansas and Nebraska

**305 North Main
Reserve, Kansas 66434**

**Attention: Mr. Edmore Green
Chair**

PROJECT TITLE:

Spire STL Pipeline Project

SUBJECT:

**Spire STL Pipeline Project Addendum II Phase I
Archaeological Survey Reports, Illinois and Missouri;
Illinois Phase II Reports, Sites 11JY751 and 11JY765**

WE ARE SENDING YOU: Electronic Files
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Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

Quapaw Tribe of Oklahoma
P.O. Box 765
Quapaw, Oklahoma 74363

Attention: Mr. Everett Bandy
Tribal Historic Preservation Officer

PROJECT TITLE:
Spire STL Pipeline Project

SUBJECT:
Spire STL Pipeline Project Addendum II Phase I Archaeological Survey Reports, Illinois and Missouri; Illinois Phase II Reports, Sites 11JY751 and 11JY765

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1	--	--	Various	Spire STL Pipeline Project Correspondence	--

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Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

Sac and Fox Tribe of the Mississippi in Iowa
349 Meskwaki Road
Tama, Iowa 52339

Attention: Mr. Johnathan L. Buffalo
Historic Preservation Director

PROJECT TITLE:
Spire STL Pipeline Project

SUBJECT:
Spire STL Pipeline Project Addendum II Phase I Archaeological Survey Reports, Illinois and Missouri; Illinois Phase II Reports, Sites 11JY751 and 11JY765

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Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

Sac and Fox Nation of Oklahoma
920883 S. Hwy 99, Building A
Stroud, Oklahoma 74079

Attention: Ms. Sandra Kaye Massey c/o Carol Butler

PROJECT TITLE:

Spire STL Pipeline Project

SUBJECT:

**Spire STL Pipeline Project Addendum II Phase I
Archaeological Survey Reports, Illinois and Missouri;
Illinois Phase II Reports, Sites 11JY751 and 11JY765**

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Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

Ponca Tribe of Nebraska
P.O. Box 288
Niobrara, Nebraska 68760

Attention: Mr. Shannon Wright
Tribal Historic Preservation Officer

PROJECT TITLE:
Spire STL Pipeline Project

SUBJECT:
Spire STL Pipeline Project Addendum II Phase I Archaeological Survey Reports, Illinois and Missouri; Illinois Phase II Reports, Sites 11JY751 and 11JY765

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Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

Peoria Tribe of Indians of Oklahoma
PO Box 1527 118 S. Eight Tribes Trails
Miami, Oklahoma 74355

Attention: Mr. Logan Pappenfort

PROJECT TITLE:

Spire STL Pipeline Project

SUBJECT:

Spire STL Pipeline Project Addendum II Phase I
Archaeological Survey Reports, Illinois and Missouri;
Illinois Phase II Reports, Sites 11JY751 and 11JY765

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Senior Cultural Resources Manager

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Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

Osage Nation
P.O. Box 779 627 Grandview Avenue
Pawhuska, Oklahoma 74056

Attention: Mr. John Fox
Archaeologist

PROJECT TITLE:
Spire STL Pipeline Project

SUBJECT:
**Spire STL Pipeline Project Addendum II Phase I
Archaeological Survey Reports, Illinois and Missouri;
Illinois Phase II Reports, Sites 11JY751 and 11JY765**

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Senior Cultural Resources Manager

GAI Consultants, Inc.

Chicago Office
 2300 Cabot Drive, Suite 395
 Lisle, IL 60532
 T 313.301.2001
www.gaiconsultants.com

Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

Miami Tribe of Oklahoma
3410 P Street NW
Miami, Oklahoma 74354

Attention: Ms. Diane Hunter
Acting Tribal Historic Preservation Officer

PROJECT TITLE:
Spire STL Pipeline Project

SUBJECT:
Spire STL Pipeline Project Addendum II Phase I Archaeological Survey Reports, Illinois and Missouri; Illinois Phase II Reports, Sites 11JY751 and 11JY765

WE ARE SENDING YOU: Electronic Files
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 Senior Cultural Resources Manager

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 Lisle, IL 60532
 T 313.301.2001
www.gaiconsultants.com

Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

Osage Nation
P.O. Box 779 627 Grandview Avenue
Pawhuska, Oklahoma 74056

Attention: Ms. Andrea Hunter
Director/Tribal Historic Preservation Officer

PROJECT TITLE:
Spire STL Pipeline Project

SUBJECT:
Spire STL Pipeline Project Addendum II Phase I Archaeological Survey Reports, Illinois and Missouri; Illinois Phase II Reports, Sites 11JY751 and 11JY765

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 Senior Cultural Resources Manager

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 Lisle, IL 60532
 T 313.301.2001
www.gaiconsultants.com

Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

Kaw Indian Nation of Oklahoma
Drawer 50
Kaw City, Oklahoma 74641

Attention: Ms. Jacqlyn Secondine Hensley
Chairman

PROJECT TITLE:
Spire STL Pipeline Project

SUBJECT:
Spire STL Pipeline Project Addendum II Phase I
Archaeological Survey Reports, Illinois and Missouri;
Illinois Phase II Reports, Sites 11JY751 and 11JY765

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 Senior Cultural Resources Manager

GAI Consultants, Inc.

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 Lisle, IL 60532
 T 313.301.2001
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Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

Kaw Indian Nation of Oklahoma
Drawer 50
Kaw City, Oklahoma 74641

Attention: Ms. Crystal Douglas
Museum Director

PROJECT TITLE:
Spire STL Pipeline Project

SUBJECT:
Spire STL Pipeline Project Addendum II Phase I
Archaeological Survey Reports, Illinois and Missouri;
Illinois Phase II Reports, Sites 11JY751 and 11JY765

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 Senior Cultural Resources Manager

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Lisle, IL 60532
T 313.301.2001
www.gaiconsultants.com

Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

Iowa Tribe of Oklahoma
R.R. 1, Box 721
Perkins, Oklahoma 74059-9599

Attention: Mr. Patrick Durham
Division Director

PROJECT TITLE:
Spire STL Pipeline Project

SUBJECT:
Spire STL Pipeline Project Addendum II Phase I Archaeological Survey Reports, Illinois and Missouri; Illinois Phase II Reports, Sites 11JY751 and 11JY765

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Senior Cultural Resources Manager

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 Lisle, IL 60532
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www.gaiconsultants.com

Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

Iowa Tribe of Kansas and Nebraska
3345 B. Thrasher Road
White Cloud, Kansas 66094

Attention: Mr. Lance M. Foster
Tribal Historic Preservation Officer

PROJECT TITLE:
Spire STL Pipeline Project

SUBJECT:
Spire STL Pipeline Project Addendum II Phase I Archaeological Survey Reports, Illinois and Missouri; Illinois Phase II Reports, Sites 11JY751 and 11JY765

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 Senior Cultural Resources Manager

GAI Consultants, Inc.

Chicago Office
 2300 Cabot Drive, Suite 395
 Lisle, IL 60532
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Letter of Transmittal

TRANSMITTAL NO.	
DATE:	7/14/2017
PROJECT NO.	E160438.00

Ho-Chunk Nation
P.O. Box 667
Black River Falls, Wisconsin 54815

Attention: Mr. Bill Quackenbush
Tribal Historic Preservation Officer

PROJECT TITLE:
Spire STL Pipeline Project

SUBJECT:
Spire STL Pipeline Project Addendum II Phase I Archaeological Survey Reports, Illinois and Missouri; Illinois Phase II Reports, Sites 11JY751 and 11JY765

WE ARE SENDING YOU: Electronic Files
VIA: Regular US Mail
PURPOSE: For Review and Comment

COMMENTS:

ATTACHMENTS:

Qty	Document No.	Rev	Document Date	Document Description/Title	Status*
1	--	--	July 14, 2017	Cover Letter – Addendum II Phase I Report, Sites 11JY751 and 11JY765 Phase II Reports Submittal to IHPA	--
1	--	--	July 14, 2017	Illinois Addendum II Phase I Archaeological Survey Report	--
1	--	--	July 14, 2017	Illinois Phase II Archaeological Testing at Site 11JY751	--
1	--	--	July 14, 2017	Illinois Phase II Archaeological Testing at Site 11JY765	--
1	--	--	July 14, 2017	Cover Letter – Addendum II Phase I Report Submittal to MO SHPO	--
1	--	--	July 14, 2017	Missouri Addendum II Phase I Archaeological Survey Report	--

*Status Codes for Submittal Package Reviews: NE=No Exceptions; EN=Exceptions Noted; RR=Revise & Resubmit; RJ=Rejected

DISTRIBUTION:

Name	Company	Transmittal (Y/N)	Attachments (Y/N)

Sincerely,



Eric P. Scuoteguazza, M.A., M.B.A., RPA
 Senior Cultural Resources Manager

Ali Trunzo






From: Eric Scuoteguazza
Sent: Wednesday, June 28, 2017 2:22 PM
To: ebandy@quapawtribe.com
Cc: Lori Ferry; Angela Hood; Ali Trunzo
Subject: Spire STL Pipeline Project - IL and MO (Quapaw)

Good afternoon, Mr. Bandy. I left you a voicemail, but as you requested, I am also following up with an e-mail for your records. I have received a letter dated April 28, 2017, in which you had requested copies of SHPO correspondence regarding the Spire STL Pipeline Project in Illinois and Missouri. I just wanted to let you know that we will be sending copies of this correspondence ASAP. Feel free to call or e-mail me if you need anything else at this time, and thank you for your interest.

Eric

Please note new office telephone number.

Eric P. Scuoteguazza, M.A., M.B.A., RPA
Senior Manager, Cultural Resources

GAI Consultants, Inc.
385 East Waterfront Drive, Homestead, PA 15120-5005
412.399.5188 | C 412.216.4640 |     

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QUAPAW TRIBE OF OKLAHOMA

P.O. Box 765
Quapaw, OK 74363-0765

(918) 542-1853
FAX (918) 542-4694

April 28, 2017

Attn: Eric P. Scuoteguazza, M.A., M.B.A., RPA
GAI Consultants, Inc. – Chicago Office
2300 Cabot Drive, Suite 395
Lisle, Illinois 60530-4644

Re: Submittal of Technical Report – Addendum I Phase I Archaeological Survey/ SHPO LOG #: 061-MLT-16/ Spire STL Pipeline Project / St. Louis, and St. Charles Counties, Missouri

Dear Eric,

The Quapaw Tribe Historic Preservation Office has received notification of the proposed project listed as project name.

In accordance with the National Historic Preservation Act, (NHPA) [16 U.S.C. 470 §§ 470-470w-6] 1966, undertakings subject to the review process are referred to in S101 (d) (6) (A), which clarifies that historic properties may have religious and cultural significance to Indian tribes. Additionally, Section 106 of NHPA requires Federal agencies to consider the effects of their actions on historic properties (36 CFR Part 800) as does the National Environmental Policy Act (43 U.S.C. 4321 and 4331-35 and 40 CFR 1501.7(a) of 1969).

The Quapaw Tribe has a vital interest in protecting its historic and ancestral cultural resources. The Quapaw Tribe requests a copy of all SHPO correspondence received for the project listed as project name.

Please contact the Quapaw Tribe Historic Preservation Office with your response to this request. Should you have any questions or need any additional information, please feel free to contact me at the number listed below. Thank you for consulting with the Quapaw Tribe on this matter.

Sincerely,



Everett Bandy
Tribal Historic Preservation Officer
Quapaw Tribe of Oklahoma
P.O. Box 765
Quapaw, OK 74363
(w) 918-238-3100



Appendix 1-D
Exceptions to the FERC Plan and Procedures



Appendix 1-D. Exceptions to the FERC Plan and Procedures

Approximate MP ¹	ATWS ID	Feature ID (Type)	Description of Modification	Justification	Approx. Distance (feet) ²
24-Inch Pipeline					
14.1	ATWS-544	WIL-TMA-006 (PEM)	ATWS within 50 feet of Wetland	Wetland Crossing	49
14.5	ATWS-548	WIL-TMA-007 (PEM) ³	ATWS within 50 feet of Wetland	Topsoil Segregation	2
24.6R	ATWS-828	WIL-TMA-017 (PEM)	ATWS within 50 feet of Wetland	Topsoil Segregation	50
25.7R	ATWS-841	WIL-TMA-021 (PEM)	ATWS within 50 feet of Wetland	Wetland Crossing	29
25.7R	ATWS-841	SIL-JJP-104 (Perennial)	ATWS within 50 feet of Stream	Waterbody Crossing	35
28.6	ATWS-620	WIL-JJP-102 (PEM)	ATWS within 50 feet of Wetland	Topsoil Segregation	5
35.2R	ATWS-634	WIL-CDK-007 (PUB)	ATWS within 50 feet of Wetland	Topsoil Segregation	49
35.2R	ATWS-636	SIL-CDK-012 (Perennial)	ATWS within 50 feet of Stream	Waterbody crossing	49
42.1R	ATWS-928	SIL-WJW-009 (Intermittent)	ATWS within 50 feet of Stream	Waterbody crossing	37
44.1	ATWS-745	SIL-WJW-015 (Ephemeral)	ATWS within 50 feet of Stream	Topsoil Segregation	47
44.5	ATWS-365	SIL-WJW-014 (Ephemeral)	ATWS within 50 feet of Stream	Waterbody crossing	11
44.5	ATWS-366	SIL-WJW-013 (Ephemeral)	ATWS within 50 feet of Stream	Waterbody crossing	14
44.7	ATWS-747	WIL-WJW-003 (PUB)	ATWS within 50 feet of Wetland	Access road entrance/equipment	1
45.0	ATWS-934	SIL-JJP-201 (Intermittent)	ATWS within 50 feet of Stream	Waterbody crossing	42
45.0	ATWS-368	SIL-WJW-011 (Perennial)	ATWS within 50 feet of Stream	HDD Crossing	0
45.0	ATWS-368	WIL-JJP-148 (PFO)	ATWS within 50 feet of Wetland	HDD Crossing	0
45.0	ATWS-369	SIL-JJP-200 (Perennial)	ATWS within 50 feet of Stream	HDD Crossing	0
45.0	ATWS-369	SIL-JJP-202 (Ephemeral)	ATWS within 50 feet of Stream	HDD Crossing	0
45.1	ATWS-920	WIL-JJP-148 (PFO)	ATWS within 50 feet of Wetland	HDD Crossing	0
45.1	ATWS-920	SIL-JJP-200 (Perennial)	ATWS within 50 feet of Stream	HDD Crossing	0
45.1	ATWS-920	SIL-WJW-010 (Perennial)	ATWS within 50 feet of Stream	HDD Crossing	0



Appendix 1-D. Exceptions to the FERC Plan and Procedures (Continued)

Approximate MP ¹	ATWS ID	Feature ID (Type)	Description of Modification	Justification	Approx. Distance (feet) ²
24-Inch Pipeline (Continued)					
45.1	ATWS-920	NHD-916 (N/A)	ATWS within 50 feet of Stream	HDD Crossing	0
46.3	ATWS-372	SMO-TMA-008 (Ephemeral)	ATWS within 50 feet of Stream	HDD Crossing	0
46.6	ATWS-372	SMO-JJP-030 (Ephemeral)	ATWS within 50 feet of Stream	HDD Crossing	0
46.7	ATWS-372	SMO-TMA-011 (Ephemeral)	ATWS within 50 feet of Stream	HDD Crossing	0
46.9R	ATWS-378	SMO-JJP-002 (Ephemeral)	ATWS within 50 feet of Stream	Access Road Entrance / Equipment	0
46.9R	ATWS-919	SMO-JJP-002 (Ephemeral)	ATWS within 50 feet of Stream	Access Road Entrance / Equipment	31
49.6	ATWS-774	WMO-JJP-012 (PEM) ³	ATWS within 50 feet of Wetland	Topsoil Segregation	0
49.7	-	WMO-JJP-012 (PEM) ³	Construction right-of-way greater than 75 feet	Wetland in an active agricultural field. Space needed for topsoil segregation.	0
49.9	ATWS-774	WMO-TMA-010 (PEM) ³	ATWS within 50 feet of Wetland	Topsoil Segregation	0
53.9	ATWS-795	WMO-JJP-007 (PEM) ³	ATWS within 50 feet of Wetland	Topsoil Segregation	0
53.9	-	WMO-JJP-007 (PEM) ³	Construction right-of-way greater than 75 feet	Wetland in an active agricultural field. Space needed for topsoil segregation.	0
54.8	ATWS-800	WMO-TMA-006 (PEM) ³	ATWS within 50 feet of Wetland	Topsoil Segregation	0
54.8	-	WMO-TMA-006 (PEM) ³	Construction right-of-way greater than 75 feet	Wetland in an active agricultural field. Space needed for topsoil segregation.	0
57.2	ATWS-449	WMO-TMA-003A (PEM) ³	ATWS within 50 feet of Wetland	HDD Crossing	0
57.2	ATWS-449	WMO-TMA-003 (PUB) ³	ATWS within 50 feet of Wetland	HDD Crossing	0
57.4	ATWS-449	WMO-TMA-002 (PEM) ³	ATWS within 50 feet of Wetland	HDD Crossing	0
58.3	ATWS-463	WMO-CDK-004 (PEM)	ATWS within 50 feet of Wetland	HDD Crossing	36
58.3	ATWS-464	WMO-CDK-005 (PEM) ³	ATWS within 50 feet of Wetland	HDD Crossing	0
58.3	ATWS-464	WMO-CDK-004 (PEM)	ATWS within 50 feet of Wetland	HDD Crossing	19



Appendix 1-D. Exceptions to the FERC Plan and Procedures (Continued)

Approximate MP ¹	ATWS ID	Feature ID (Type)	Description of Modification	Justification	Approx. Distance (feet) ²
North County Extension					
1.2	ATWS-885	SMO-JJP-022 (Perennial)	ATWS within 50 feet of Stream	Waterbody Crossing	40
2.4	ATWS-891	WMO-JJP-126 (PEM)	ATWS within 50 feet of Wetland	HDD Pullback	0
2.4	-	WMO-JJP-126 (PEM)	Construction right-of-way greater than 75 feet	HDD Pullback	0
2.4	ATWS-891	WMO-JJP-127 (PEM)	ATWS within 50 feet of Wetland	HDD Pullback	32
2.5	ATWS-892	WMO-JJP-119 EXT 1 (PEM)	ATWS within 50 feet of Wetland	HDD Pullback	2
2.6	ATWS-895	WMO-JJP-124 (PFO)	ATWS within 50 feet of Wetland	Road Crossing	44
2.7	ATWS-894	NHD-959 (Intermittent)	ATWS within 50 feet of Stream	Topsoil Segregation	13
3.4	ATWS-899	NHD-962 (Intermittent)	ATWS within 50 feet of Stream	HDD Crossing	0
3.8	-	NWI-204 (PFO1C)	Construction right-of-way greater than 75 feet	HDD Crossing	-
3.8	ATWS-899	NWI-204 (PFO1C)	ATWS within 50 feet of Wetland	HDD Crossing	0
3.8	ATWS-900	NWI-204 (PFO1C)	ATWS within 50 feet of Wetland	HDD Crossing	2
6.0R	ATWS-918	WMO-DFW-007 (PEM)	ATWS within 50 feet of Wetland	Road Crossing	48

Note:

- 1 Milepost based on nearest point between ATWS and pipeline where encroachment within 50' buffer or construction right-of-way occurs.
- 2 Approximate distance rounded to nearest foot. ATWS within 50' approximate distance fall between 49.5' and 49.9' and are intended to maintain the 50' buffer from an environmental feature.
- 3 Wetland crossed by ATWS or greater than 75-foot wide construction right-of-way is within areas consisting of cultivated or rotated cropland.



Appendix 1-F Typical Facility Plot Plans



**Appendix 1-G
Landowner Line List**

**CONTAINS PRIVILEGED INFORMATION
(UNDER SEPARATE COVER)**



Appendix 1-I Stakeholder Lists

Appendix 1-1
Spire STL Pipeline
Federal Stakeholder Contact List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	PO Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Andrew Lock		Legislative Correspondent	U.S. Senate	202-224-5721	Andrew.Lock@Blunt.senate.gov		260 Russell Senate Office Building		Washington	20510		DC	CP17-40-000 CP17-40-001
Ashley Antoskiewicz		Legislative Director	U.S. House of Representatives	202-225-6201	Ashley.Antoskiewicz@mail.house.gov		2462 Rayburn House Office Building		Washington	20515		DC	CP17-40-000 CP17-40-001
Barbara J. Baker		Constituent Services Specialist	U.S. House of Representatives	217-245-1431	barb.barker@mail.house.gov		201 W. Morgan		Jacksonville	62650		IL	CP17-40-000 CP17-40-001
Blaine Luetkemeyer		U.S. Representative	U.S. House of Representatives	202-225-2956			2440 Rayburn House Office Building		Washington	20515		DC	CP17-40-000 CP17-40-001
Blaine Luetkemeyer		U.S. Representative	U.S. House of Representatives	573-635-7232			2117 Missouri Boulevard		Jefferson City	65109		MO	CP17-40-000 CP17-40-001
Brad Stotler		State Director	U.S. House of Representatives	309-671-7027	Brad.Stotler@mail.house.gov		100 NE Monroe Street	Room 100	Peoria	61602		IL	CP17-40-000 CP17-40-001
Claire McCaskill		U.S. Senator	U.S. Senate	202-224-6154			730 Hart Senate Office Building		Washington	20510		DC	CP17-40-000 CP17-40-001
Claire McCaskill		U.S. Senator	U.S. Senate	314-367-8649			5850 Delmar Blvd	Ste. A	St. Louis	63112		MO	CP17-40-000 CP17-40-001
Darin LaHood		U.S. Representative	U.S. House of Representatives	202-225-6201			2464 Rayburn House Office Building		Washington	20515		DC	CP17-40-000 CP17-40-001
Darin LaHood		U.S. Representative	U.S. House of Representatives	309-671-7027			100 NE Monroe Street	Room 100	Peoria	61602		IL	CP17-40-000 CP17-40-001
Dick Durbin		U.S. Senator	U.S. Senate	202-224-2152			711 Hart Senate Building		Washington	20510		DC	CP17-40-000 CP17-40-001
Dick Durbin		U.S. Senator	U.S. Senate	217-492-4062			525 S. 8th Street		Springfield	62703		IL	CP17-40-000 CP17-40-001
Divine W. Shelton		Field Representative	U.S. Senate	314-361-8649	Divine.Shelton@McCaskill.Senate.Gov		5850 Delmar Blvd	Ste. A	St. Louis	63112		MO	CP17-40-000 CP17-40-001
Downey Palmer Magallanes		Counsel	U.S. Senate	202-224-5721 202-2248148	Magallanes@B.unt.senate.gov		260 Russell Senate Office Building		Washington	20510		DC	CP17-40-000 CP17-40-001
Emily Romines		Senate Staffer	U.S. Senate				7700 Bonhomme Ave	#315	Clayton	63105		MO	CP17-40-000 CP17-40-001
Heather M. Majors		Legislative Policy Advisor	U.S. Senate	202-224-6154	Heather.Majors@McCaskill.Senate.Gov		730 Hart Senate Office Building		Washington	20510		DC	CP17-40-000 CP17-40-001
John Scates		Community Liaison	U.S. Senate	314-725-4484	John.Scates@Blunt.Senate.gov		7700 Bonhomme Ave	#315	Clayton	63105		MO	CP17-40-000 CP17-40-001
Karla A. Hagan		Legislative Fellow	U.S. Senate	201-224-2152	Karla.Hagan@Durbin.Senate.gov		711 Hart Senate Building		Washington	20510		DC	CP17-40-000 CP17-40-001
Mary Beth Wolf		District Office Director	U.S. Senate	314-725-4484	marybeth.Wolf@Blunt.Senate.gov		7700 Bonhomme Ave	#315	Clayton	63105		MO	CP17-40-000 CP17-40-001
Miles Chiotti		Legislative Assistant	U.S. House of Representatives	202-225-2371	Miles.Chiotti@Mail.house.gov		1740 Longworth House Office Building		Washington	20515		DC	CP17-40-000 CP17-40-001
Patrick T. Bond		Legislative Assistant	U.S. Senate	202-224-6154	Patrick.Bond@McCaskill.Senate.Gov		730 Hart Senate Office Building		Washington	20510		DC	CP17-40-000 CP17-40-001
Philip Lsseigne		Projects and Grants Director	U.S. House of Representatives	618-205-8660	Philip.Lasseigne@Mail.House.Gov		15 Professional Park Drive		Maryville	62062		IL	CP17-40-000 CP17-40-001
Rodney L. Davis		U.S. Representative	U.S. House of Representatives	202-225-2371			1740 Longworth House Office Building		Washington	20515		DC	CP17-40-000 CP17-40-001
Rodney L. Davis		U.S. Representative	U.S. House of Representatives	217-791-6224			2833 S. Grand Ave. East		Springfield	62703		IL	CP17-40-000 CP17-40-001
Roy Blunt		U.S. Senator	U.S. Senate	202-224-5721			260 Russell Senate Office Building		Washington	20510		DC	CP17-40-000 CP17-40-001
Roy Blunt		U.S. Senator	U.S. Senate	314-725-4484			7700 Bonhomme Ave	#315	Clayton	63105		MO	CP17-40-000 CP17-40-001
Tammy Duckworth		U.S. Senator	U.S. Senate	202-224-2854			G12 Dirksen Senate Office Building		Washington	20510		DC	CP17-40-000 CP17-40-001
Tammy Duckworth		U.S. Senator	U.S. Senate	312-886-3506			230 S. Dearborn	Suite 3900	Chicago	60604		IL	CP17-40-000 CP17-40-001
Cameron Joost		State Director	U.S. Senate	217-528-6124	Cameron.Joost@Duckworth.Senate.gov		8 S Old Capital Plaza		Springfield	62701		IL	CP17-40-000 CP17-40-001
Tony Grandison		Congressional Staffer	U.S. House of Representatives				1281 Graham Rd	Suite 202	Florissant	63031		MO	CP17-40-000 CP17-40-001
William P. Houlihan		State Director	U.S. Senate	217-492-4062	Bill.Houlihan@Durbin.Senate.Gov		525 S. 8th Street		Springfield	62703		IL	CP17-40-000 CP17-40-001
Wm. Lacy Clay		U.S. Representative	U.S. House of Representatives	202-225-2406			2428 Rayburn House Office Building		Washington	20515		DC	CP17-40-000 CP17-40-001
Wm. Lacy Clay		U.S. Representative	U.S. House of Representatives	314-367-1970			111 S. 10th Street	Suite 24.344	St. Louis	63102		MO	CP17-40-000 CP17-40-001
Wm. Lacy Clay		U.S. Representative	U.S. House of Representatives	314-383-5240			1281 Graham Rd	Suite 202	Florissant	63031		MO	CP17-40-000 CP17-40-001

Appendix 1-1
Spire STL Pipeline
State Stakeholder Contact List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	PO Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Bruce Rauner		Governor	Office of the Governor, State of Illinois	217-782-0244			207 State House		Springfield	62706		IL	CP17-40-000 CP17-40-001
Alan Green		State Representative	Missouri House of Representatives	573-751-2135			201 W. Capitol Ave	Rm. 102-BA	Jefferson City	65101		MO	CP17-40-000 CP17-40-001
Alec Messina		Illinois Environmental Protection Agency	Office of the Governor, State of Illinois	217-782-3397	Alec.Messina@illinois.gov		1021 North Grand Ave East		Springfield	62794		IL	CP17-40-000 CP17-40-001
Ann McCabe		Commissioner	Illinois Commerce Commission	312-814-2850			160 N. LaSalle	FL 008	Chicago	60601		IL	CP17-40-000 CP17-40-001
Bill Eigel		State Senator	Missouri Senate	573-751-1141			201 W. Capitol Ave	Rm. 226	Jefferson City	65101		MO	CP17-40-000 CP17-40-001
Bill P. Houlihan		State Director	Office of US Senator Richard J. Durbin	217-492-4062	bill_houlihan@durbin.senate.gov		525 S. 8th Street		Springfield	62703		IL	CP17-40-000 CP17-40-001
Brad Stotler		District Director	Peoria Office, Office of Representative Darin LaHood	309-671-7027	brad.scotler@mail.house.gov		100 NE. Monroe Street	Room 100	Peoria	62602		IL	CP17-40-000 CP17-40-001
Brandon W. Phelps		State Representative	Illinois General Assembly	217-782-5131			200-95 Stratton Office Building		Springfield	62706		IL	CP17-40-000 CP17-40-001
Brien Sheahan		Chairman	Illinois Commerce Commission	217-782-7701			527 E. Capitol Ave	FL 007	Springfield	62701		IL	CP17-40-000 CP17-40-001
Bruce Rauner		Governor	Office of the Governor, State of Illinois	312-814-2121			100 W. Randolph	JRTC - STE 16-100	Chicago	60601		IL	CP17-40-000 CP17-40-001
C. D. Davidsmeyer		State Representative	Illinois General Assembly	217-782-1840	repcdavidsmeyer@gmail.com		220-N Stratton Office Building		Springfield	62706		IL	CP17-40-000 CP17-40-001
C. D. Davidsmeyer		State Representative	Illinois General Assembly	217-243-6221			325 W. State St		Jacksonville	62650		IL	CP17-40-000 CP17-40-001
Chris Koster		Attorney General	State of Missouri	573-751-3321			Supreme Court Building	207 W. High	Jefferson City	65102		MO	CP17-40-000 CP17-40-001
Daniel Hall		Chairman	Missouri Public Service Commission	573-751-3234		PO Box 360	200 Madison Street		Jefferson City	65102		MO	CP17-40-000 CP17-40-001
Daniel V. Beiser		State Representative	Illinois General Assembly	217-782-5996			269-S Stratton Office Building		Springfield	62706		IL	CP17-40-000 CP17-40-001
Eric Greitens		Governor	State of Missouri	573-751-3222		PO Box 720	Office of Governor Eric Greitens		Jefferson City	65102		MO	CP17-40-000 CP17-40-001
Evelyn Sanguinetti		Lieutenant Governor	State of Illinois	217-558-3085			214 State House		Springfield	62706		IL	CP17-40-000 CP17-40-001
Evelyn Sanguinetti		Lieutenant Governor	State of Illinois	312-814-5240			100 W. Randolph	JRTC - STE 15-200	Chicago	60601		IL	CP17-40-000 CP17-40-001
Gina Walsh		State Senator	Missouri Senate	573-751-2420			201 W. Capitol Ave	Rm. 427	Jefferson City	65101		MO	CP17-40-000 CP17-40-001
Jason Heffley		Policy Advisor for Environment & Energy	Office of the Governor, State of Illinois	217-685-9867	jason.heffley@illinois.gov		207 State House		Springfield	62706		IL	CP17-40-000 CP17-40-001
Jim Watson		Executive Director	Illinois Petroleum Council	217-544-7404			400 W. Monroe St	#205	Springfield	62704		IL	CP17-40-000 CP17-40-001
Joan Gummels		General Counsel	Attorney Generals Office of Missouri	573-751-3321		PO Box 899			Jefferson City	65101		MO	CP17-40-000 CP17-40-001
John J. Cullerton		President of the Senate	Illinois State Senate	217-782-2728			327 Capital Building		Springfield	62706		IL	CP17-40-000 CP17-40-001
John R. Ashcroft		Secretary of State	State of Missouri	573-751-4936			600 West Main Street		Jefferson City	65101		MO	CP17-40-000 CP17-40-001
John Rosales		Commissioner	Illinois Commerce Commission	312-814-2850			160 N. LaSalle	FL 008	Chicago	60601		IL	CP17-40-000 CP17-40-001
Katie Stonewater		Executive Director	Illinois Chamber of Commerce	618-540-8381 C	kstonewater@ilchamber.org		300 S. Wacker Dr	Suite 1600	Chicago	60606		IL	CP17-40-000 CP17-40-001
Kim Tribbet		Permit Supervisor	Illinois Dept. of Transportation	217-524-7765	Michael.p.lrw@illinois.gov		126 E. Ash St		Springfield	62702		IL	CP17-40-000 CP17-40-001
Linda Chapa LaVia		State Representative	Illinois General Assembly	217-558-1002			229-E Stratton Office Building		Springfield	62706		IL	CP17-40-000 CP17-40-001
Lisa Madigan		Attorney General	State of Illinois	217-782-1090			500 S. Second St		Springfield	62706		IL	CP17-40-000 CP17-40-001
Maida Coleman		Commissioner	Missouri Public Service Commission	573-751-3234		PO Box 360	200 Madison Street		Jefferson City	65102		MO	CP17-40-000 CP17-40-001
Mark Hughes		PSC Advisor	Missouri Public Service Commission	573-751-7434		PO Box 360	200 Madison Street		Jefferson City	65102		MO	CP17-40-000 CP17-40-001
Michael J. Madigan		State Representative	Illinois General Assembly	217-782-5350			300 Capital Building		Springfield	62706		IL	CP17-40-000 CP17-40-001
Michael P. Irwin		Plans & Design Engineer	Illinois Dept. of Transportation	217-782-7745	kim.tribbet@illinois.gov		126 E. Ash St		Springfield	62702		IL	CP17-40-000 CP17-40-001
Miguel del Valle		Commissioner	Illinois Commerce Commission	312-814-2850			160 N. LaSalle	FL 008	Chicago	60601		IL	CP17-40-000 CP17-40-001
Mike Parson		Lieutenant Governor	State of Missouri	573-751-4727			Office of the Lieutenant Governor	State Capitol Building Room 224	Jefferson City	65101		MO	CP17-40-000 CP17-40-001
Nick Williams		Associate Director	Illinois Petroleum Council	217-544-7404			400 W. Monroe St	#205	Springfield	62704		IL	CP17-40-000 CP17-40-001
Patrick J. Verschoore		State Representative	Illinois General Assembly	217-782-5970			263-S Stratton Office Building		Springfield	62706		IL	CP17-40-000 CP17-40-001
Patrick McGuire		State Senator	Illinois State Senate	217-782-8800			311B Capital Building		Springfield	62706		IL	CP17-40-000 CP17-40-001
Raymond Poe		Director	Illinois Department of Agriculture	217-782-2172		PO Box 19281	State Fair Grounds		Springfield	62794		IL	CP17-40-000 CP17-40-001

Appendix 1-I
Spire STL Pipeline
State Stakeholder Contact List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	PO Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Ron Richard		State Senator	Missouri Senate	573-751-2173			201 W. Capitol Ave	Rm. 326	Jefferson City	65101		MO	CP17-40-000 CP17-40-001
Scott Rupp		Commissioner	Missouri Public Service Commission	573-751-3234		PO Box 360	200 Madison Street		Jefferson City	65102		MO	CP17-40-000 CP17-40-001
Sean McCarthy		Acting Director	Illinois Department of Commerce and Economic Development	217-782-7500			500 E. Monroe		Springfield	62701		IL	CP17-40-000 CP17-40-001
Shelley Burggemann		General Counsel	Missouri Public Service Commission	573-751-3234		PO Box 360	200 Madison Street		Jefferson City	65102		MO	CP17-40-000 CP17-40-001
Sherina Maye Edwards		Commissioner	Illinois Commerce Commission	312-814-2850			160 N. LaSalle	FL 008	Chicago	60601		IL	CP17-40-000 CP17-40-001
Stephen Stoll		Commissioner	Missouri Public Service Commission	573-751-3234		PO Box 360	200 Madison Street		Jefferson City	65102		MO	CP17-40-000 CP17-40-001
Sue Rezin		State Senator	Illinois State Senate	217-782-3840			309J Capital Building		Springfield	62706		IL	CP17-40-000 CP17-40-001
Todd Richardson		Mr. Speaker	Missouri House of Representatives	573-751-4039			201 W. Capitol Ave	Rm. 308	Jefferson City	65101		MO	CP17-40-000 CP17-40-001
Tom Hannegan		State Representative	Missouri House of Representatives	573-751-3717	Tom.Hannegan@house.mo.gov		201 W. Capitol Ave	Room 201-G	Jefferson City	65101		MO	CP17-40-000 CP17-40-001
Tommie Pierson		State Representative	Missouri House of Representatives	573-751-6845			201 W. Capitol Ave	Rm. 101-H	Jefferson City	65101		MO	CP17-40-000 CP17-40-001
Warren D. Goetsch		Deputy Director	Illinois Department of Agriculture	217-785-4747	warren.goetsch@illinois.gov	PO Box 19281	State Fair Grounds		Springfield	62794		IL	CP17-40-000 CP17-40-001
Wayne Rosenthal		Director	Illinois Department of Natural Resources	217-785-0075	dnr.director@illinois.gov		One Natural Way		Springfield	62702		IL	CP17-40-000 CP17-40-001
William R. Haine		State Senator	Illinois State Senate	217-782-5247			311C Capital Building		Springfield	62706		IL	CP17-40-000 CP17-40-001
Willian Kenny		Commissioner	Missouri Public Service Commission	573-751-3234		PO Box 360	200 Madison Street		Jefferson City	65102		MO	CP17-40-000 CP17-40-001
Wm. Sam McCann		State Senator	Illinois State Senate	217-782-8206	SenatorMcCann@gmail.com		108 E. State Capital Building		Springfield	62706		IL	CP17-40-000 CP17-40-001
Wm. Sam McCann		State Senator	Illinois State Senate	217-245-0021			221 Dunlap Ct		Jacksonville	62650		IL	CP17-40-000 CP17-40-001

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Spire STL Pipeline
County Stakeholder Contact List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	PO Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Bob Schafer		Commissioner	Scott County	217-742-5217	scha4@irtc.net		273 Harts School Rd		Murrayville	62694		IL	CP17-40-000 CP17-40-001
Brian Kanallakan		Board Member	Jersey County	618-781-6759	bkallakan@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Cindy Cregmiles		Code Administrator	Jersey County	618-498-5571 x146	codeadmin1@jerseycounty-il.us		200 N. Lafayette St	Suite 6	Jerseyville	65052		IL	CP17-40-000 CP17-40-001
Colleen Wasinger		County Council	St. Louis County	314-615-5438	CWasinger@stlouisco.com		41 South Central Ave		Clayton	63105		MO	CP17-40-000 CP17-40-001
Craig Lashmett		Commissioner	Scott County	217-742-3178	clash@irtc.net	PO Box 106	989 Old Rt 36		Winchester	62694		IL	CP17-40-000 CP17-40-001
Crystal Perry		County Assessor	Jersey County	618-498-5571 x126	countyassessor@jerseycounty-il.us		200 N. Lafayette St	Suite 4	Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Daniel W. Drisewerd, P.E., PTOE		Division Manager, Code Enforcement	St. Louis County Transportation & Public Works	314-615-8190	Ddrisewerd@stlouisco.com		41 South Central Avenue		St. Louis	63105		MO	CP17-40-000 CP17-40-001
Danny Hatcher		Commissioner	Scott County	217-742-5532			35 E. Market		Winchester	62694		IL	CP17-40-000 CP17-40-001
Dave Hammond		Councilmember	St. Charles County	636-949-7530	dhammond@sccmo.org		100 N. 3rd Street	Suite 124	St. Charles	63301		MO	CP17-40-000 CP17-40-001
David King		Sheriff	Scott County	217-742-3141			35 E. Market		Winchester	62694		IL	CP17-40-000 CP17-40-001
David Marth		County Engineer	Greene County	217-942-6941	gmcowhy@frontier.com		IL-108		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Deborah Banghart		County Clerk	Greene County	217-942-5443	grctvclk@hotmail.com		519 North Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Donald Little		County Board Chairman	Jersey County	618-203-3662	boardchairman@jerseycounty-il.us		200 N. Lafayette St	Suite 3	Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Ed Koenig		Board Member	Jersey County	618-885-5415	ekoenig@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Gary Krueger		Board Member	Jersey County	618-535-5419	gkrueger@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Genevieve Frank		County Clerk	St. Louis County	314-615-5440	gfrank@stlouisco.com		41 South Central Ave		Clayton	63105		MO	CP17-40-000 CP17-40-001
Gilbert Ashlock		County Treasurer	Jersey County	618-498-5571 ex: 109, 110, 111	treasurer@jerseycounty-il.us		200 N. Lafayette St	Suite 5	Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Glenn A. Powers		Chief of Operations	St. Louis County	314-615-2515	gpowers@stlouisco.com		41 South Central Avenue	9th Floor	St. Louis	63105		MO	CP17-40-000 CP17-40-001
Hazel Erby		County Council	St. Louis County	314-615-5436	HErby@stlouisco.com		41 South Central Ave		Clayton	63105		MO	CP17-40-000 CP17-40-001
Ina McCaine-Obenland		Operations and Public Outreach	St. Charles County	636-949-3023 314-267-6908 C	imccaine@sccmo.org		301 N. Second Street	Room 280	St. Charles	63301		MO	CP17-40-000 CP17-40-001
Jake Zimmerman		County Assessor	St. Louis County	314-615-5500	zimmerman@stlouisco.com		41 South Central Avenue		Clayton	63105		MO	CP17-40-000 CP17-40-001
Jeff Wagner		Chief of Policy	St. Louis County	314-615-7020	jwagner@stlouis.co.com		41 South Central Ave	9th Floor	Clayton	63105		MO	CP17-40-000 CP17-40-001
Jerry Whittman		Board Member	Jersey County	618-954-0846	jwhittman@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Jill Waldheuser		County Assessor	Greene County	217 942-6412			519 North Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Joe Brazil		Councilmember	St. Charles County	636-949-7530	jbrazil@sccmo.org		100 N. 3rd Street	Suite 124	St. Charles	63301		MO	CP17-40-000 CP17-40-001
Joe Cronin		Councilmember	St. Charles County	636-949-7530	jcronin@sccmo.org		100 N. 3rd Street	Suite 124	St. Charles	63301		MO	CP17-40-000 CP17-40-001
Joe Nord		Chairman	Greene County	217-942-5443			519 North Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
John Goode		Board Member	Greene County	217-942-5443			519 North Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
John White		Councilmember	St. Charles County	636-949-7530	jwhite@sccmo.org		100 N. 3rd Street	Suite 124	St. Charles	63301		MO	CP17-40-000 CP17-40-001
Joyce Clark		Board Member	Greene County	217-942-5443			519 North Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Lorrie Koch		County Assessor	Scott County		scottcoassessor@frontier.com		35 E. Market		Winchester	62694		IL	CP17-40-000 CP17-40-001
Luke Lamb		Board Member	Greene County	217-942-5443			519 North Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001

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County Stakeholder Contact List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	PO Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Mark Devore		Collector of Revenue	St. Louis County	314-615-7191	mdevore@stlouisco.com		41 South Central Ave		Clayton	63105		MO	CP17-40-000 CP17-40-001
Mark Diedrich		Director of Emergency Management	St. Louis County	314-615-9500	mdiedrich@stlouisco.com		1150 Hanna Road		Ballwin	63021		MO	CP17-40-000 CP17-40-001
Mark Ford		County Treasurer	Scott County		scottcotreasurer@frontier.com		35 E. Market		Winchester	62694		IL	CP17-40-000 CP17-40-001
Mark Harder		County Council	St. Louis County	314-615-5443	mharder@stlouisco.com		41 South Central Ave		Clayton	63105		MO	CP17-40-000 CP17-40-001
Mark Strang		Vice Chair/Board Member	Greene County	217-370-6830	strang550@yahoo.com		519 North Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Mary Kirbach		Board Member	Jersey County	618-946-5407	mkirbach@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Matthew J. Gruendler, P.E		Construction Division Manager	St. Louis County Transportation & Public Works	314-615-1159	Mgruendler@stlouisco.com		1050 N. Lindbergh		St. Louis	63132		MO	CP17-40-000 CP17-40-001
Michael McNear		Board Member	Greene County	217-942-5443			519 North Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Michelle McBride		Collector of Revenue	St. Charles County	636-949-7470	collector@sccmo.org		201 N. Second Street	Suite 134	St. Charles	63301		MO	CP17-40-000 CP17-40-001
Mike Elam		Councilmember	St. Charles County	636-949-7530	melam@sccmo.org		100 N. 3rd Street	Suite 124	St. Charles	63301		MO	CP17-40-000 CP17-40-001
Mike Klinghammer		Councilmember	St. Charles County	636-949-7530	mklinghammer@sccmo.org		100 N. 3rd Street	Suite 124	St. Charles	63301		MO	CP17-40-000 CP17-40-001
Nichalos D. Gardner, Ph.D., P.E.		Director	St. Louis County Transportation & Public Works	314-615-8501	Ngardner@stlouisco.com		1050 N. Lindbergh		St. Louis	63132		MO	CP17-40-000 CP17-40-001
Pam Heitzig		Vice Chairman	Jersey County	618-498-5572	pheitzig@jerseycounty-il.us		200 N. Lafayette St	Suite 4	Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Pam Warford		County Clerk & Recorder	Jersey County	618-498-5571	countyclerk@jerseycounty-il.us	PO Box 216			Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Pat Dolan		County Council	St. Louis County	314-615-5441	PDolan@stlouisco.com		41 South Central Ave		Clayton	63105		MO	CP17-40-000 CP17-40-001
Randy Custer		Board Member	Greene County	217-942-5443			519 North Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Rhonda Linders		Board Member	Jersey County	618-709-6667	rlinders@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Roger Newberry		Board Member	Jersey County	618-946-4991	rnewberry@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Ron Henerfouth		Board Member	Jersey County	618-560-1585	rhenerfouth@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Ruth Miller		County Clerk/Registrar	St. Charles County	636-949-7560	registrar@sccmo.org		201 N. Second Street	Suite 541	St. Charles	63301		MO	CP17-40-000 CP17-40-001
Sam Page		County Council	St. Louis County	314-615-5437	SPage@stlouisco.com		41 South Central Ave		Clayton	63105		MO	CP17-40-000 CP17-40-001
Sandy Hankins		County Clerk	Scott County	217-742-3173	scottcoclerk@frontier.com		35 E. Market		Winchester	62694		IL	CP17-40-000 CP17-40-001
Sandy Hefner		Board Member	Jersey County	618-954-8650	shefner@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Scott Shipman		County Assessor	St. Charles County	636-949-7425	cassess@sccmo.org		201 N. Second Street		St. Charles	63301		MO	CP17-40-000 CP17-40-001
Stephanie Leon Streeter, P.E.		Deputy Director	St. Louis County	314-615-8501	SLeonStreeter@StLouisco.com		1050 N. Lindbergh		St. Louis	63132		MO	CP17-40-000 CP17-40-001
Steve Ehlmann		County Executive	St. Charles County	636-949-7520	executive@sccmo.org		100 N. 3rd Street		St. Charles	63301		MO	CP17-40-000 CP17-40-001
Steve Stenger		County Executive	St. Louis County	314-615-7016	sstenger@stlouisco.com		41 South Central Ave	9th Floor	Clayton	63105		MO	CP17-40-000 CP17-40-001
Terry Hollander		Councilmember	St. Charles County	636-949-7530	thollander@sccmo.org		100 N. 3rd Street	Suite 124	St. Charles	63301		MO	CP17-40-000 CP17-40-001
Tom Klasner, P.E.		County Engineer	Jersey County	618-535-7969	tklasner@jerseycounty-il.us		722 State Hwy 16	Jersey County Highway Dept.	Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Tom Koch		Emergency Management Director	St. Charles County	636-949-3023	ema@sccmo.org		301 N. Second Street	Room 280	St. Charles	63301		MO	CP17-40-000 CP17-40-001
Wayne Schell		Board Member	Jersey County	618-946-1143	wshell@jerseycounty-il.us		200 N. Lafayette St		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Justin Carney		Director of Planning	St. Louis County				41 South Central Ave	5th Floor	Clayton	63105		MO	CP17-40-000 CP17-40-001

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Spire STL Pipeline
County Stakeholder Contact List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	PO Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Gail Choate		Panning Supervisor	St. Louis County		gchoate@stlouisco.com		41 South Central Ave	5th Floor	Clayton	63105		MO	CP17-40-000 CP17-40-001
Jim Knoll		Floodplain Administrator	St. Louis County		jknoll@stlouisco.com		41 South Central Ave	5th Floor	Clayton	63105		MO	CP17-40-000 CP17-40-001
Jennifer George		Assistant Director of Administration/ Special Associate Counselor	St. Charles County	636-949-7520	jgeorge@sccmo.org		100 N. 3rd Street	Suite 318	St. Charles	63301		MO	CP17-40-000 CP17-40-001
Michael Hurlbert, AICP		Director, Community Development	St. Charles County	636-949-7500 x7221	mhurlbert@sccmo.org		201 N. Second Street	Room 410	St. Charles	63301		MO	CP17-40-000 CP17-40-001
Rochelle Walton Gray		County Council	St. Louis County	314-615-0393	rgray@stlouisco.com		41 South Central Ave		Clayton	63105		MO	CP17-40-000 CP17-40-001
Ernie Trakas		County Council	St. Louis County	314-615-5442	etrakas@stlouisco.com		41 South Central Ave		Clayton	63105		MO	CP17-40-000 CP17-40-001

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 City Stakeholder Contact List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	PO Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
A. J. White		City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	CP17-40-000 CP17-40-001
Al Schroeder		City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	CP17-40-000 CP17-40-001
Alan Gowin		Fire Chief	City of Jerseyville	618-498-3312	jerseyvillefd@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Amy Brown		Treasurer	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	CP17-40-000 CP17-40-001
Anita Moore		Deputy City Clerk	City of Florissant	314-839-7631	amoore@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	CP17-40-000 CP17-40-001
Arnold Hinkle		City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	CP17-40-000 CP17-40-001
Barb Nash		Alderman	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	CP17-40-000 CP17-40-001
Benjamin T. Allen		City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	CP17-40-000 CP17-40-001
Beth Machens		City Clerk	West Alton	0			City Hall		Black Jack	63033		MO	CP17-40-000 CP17-40-001
Bill Jacquot		Alderman	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	CP17-40-000 CP17-40-001
Brad Staats		Alderman	City of White Hall	217-374-2345	bstaats@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	CP17-40-000 CP17-40-001
Brenda Robinson		City Clerk	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	CP17-40-000 CP17-40-001
Cathie Ward		City Clerk	City of Jerseyville	618-498-3312	cathieward@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Charlie Huffine		Alderman	City of Roodhouse	217-589-4355			137 West Palm St		Roodhouse	62082		IL	CP17-40-000 CP17-40-001
Cheryl Day		Alderwoman	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	CP17-40-000 CP17-40-001
Chris Renner		Alderwoman	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	CP17-40-000 CP17-40-001
David R. King		Sheriff	City of Winchester	217-742-3141			101 East Market Street		Winchester	62694		IL	CP17-40-000 CP17-40-001
Denise Hayes		Deputy City Clerk	City of Jerseyville	618-498-3312	denisehayes@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Dennis Cumby		Alderman	City of Roodhouse	217-589-4352			137 West Palm St		Roodhouse	62082		IL	CP17-40-000 CP17-40-001
Dewain Freand		Alderman	City of Carrollton				621 South Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Donald Krank		City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	CP17-40-000 CP17-40-001
Earl "Joe" Harness Jr.		Mayor Pro Tempore	City of Carrollton	217-942-5517			621 South Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Ed Foley		Alderman	City of White Hall	217-374-2345	efoley@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	CP17-40-000 CP17-40-001
Edward Shaub		Alderman	West Alton	636-448-4075			116 East Sherman		White Hall	62092		IL	CP17-40-000 CP17-40-001
Francis "Gene" Baker		Alderman	City of Carrollton				621 South Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Fred Andrews		Alderman	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	CP17-40-000 CP17-40-001
Garrett Rogers		Alderman	City of Roodhouse	217-589-4354			137 West Palm St		Roodhouse	62082		IL	CP17-40-000 CP17-40-001
Gary Goetten		City Council	City of Jerseyville	618-498-3312	rgarvgoetten@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Gary Sheppard		Fire Chief	City of White Hall	217-374-2134	gsheppard@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	CP17-40-000 CP17-40-001
Gerald Henke		City Council	City of Florissant	314-839-7631	ward6@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	CP17-40-000 CP17-40-001
Gladys "Patty" Plahn		City Clerk	City of Roodhouse	217-589-4351			137 West Palm St		Roodhouse	62082		IL	CP17-40-000 CP17-40-001
Jackie Pagano		City Council	City of Florissant	314-839-7631	ward7@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	CP17-40-000 CP17-40-001
Janet Neustadt		Alderman	West Alton	636-899-0233			955 Rue St Francois		Florissant	63031		MO	CP17-40-000 CP17-40-001
Jeff Caputa		City Council	City of Florissant	314-839-7631	ward4@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	CP17-40-000 CP17-40-001
Jeffery S. Soer		Director of Building and Zoning	City of Jerseyville	618-498-3312	jeffsoer@jerseyville-il.us		115 East Prairie Street		Jerseyville	65052		IL	CP17-40-000 CP17-40-001

Appendix 1-I
Spire STL Pipeline
City Stakeholder Contact List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	PO Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Jim Knox		Alderman	City of Roodhouse	217-589-4353			137 West Palm St		Roodhouse	62082		IL	CP17-40-000 CP17-40-001
Joe Starnes		Fire Chief	City of Roodhouse	217-589-4141			1140 S. State St		Roodhouse	62082		IL	CP17-40-000 CP17-40-001
Joe Starnes		Fire Chief	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	CP17-40-000 CP17-40-001
John Coonrod		City Attorney	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	CP17-40-000 CP17-40-001
John Taylor		City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	CP17-40-000 CP17-40-001
Joseph Eagan		City Council	City of Florissant	314-839-7631	ward3@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	CP17-40-000 CP17-40-001
Julie Griffith		President	Spanish Lake Community Association	314-791-8083	mjgriffy@sbcglobal.net		8969 Dunn Road		Hazelwood	63042		MO	CP17-40-000 CP17-40-001
Karen Goodwin		City Clerk	City of Florissant	314-839-7630	kgoodwin@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	CP17-40-000 CP17-40-001
Keith Schildroth		City Council	City of Florissant	314-839-7631	ward5@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	CP17-40-000 CP17-40-001
Kevin Stork		City Council	City of Jerseyville	618-498-3312	kstork@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Mark Schmidt		City Council	City of Florissant	314-839-7631	ward8@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	CP17-40-000 CP17-40-001
Mike Kleidon		Alderman	City of White Hall	217-374-2345	mkleidon@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	CP17-40-000 CP17-40-001
Nick Wunderlich		Alderman	West Alton	636-233-1583			116 East Sherman		White Hall	62092		IL	CP17-40-000 CP17-40-001
Norman C. McCourt		Mayor	City of Black Jack	314-355-0400	mayor@cityofblackjack.com		City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	CP17-40-000 CP17-40-001
Norman Coad		Alderman	City of White Hall	217-374-2345	ncoad@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	CP17-40-000 CP17-40-001
Rex McIntire		Mayor	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	CP17-40-000 CP17-40-001
Richard Perdun		City Council	City of Jerseyville	618-498-3312	rperdun@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Rick Cox		Alderman	City of White Hall	217-374-2345	rcox@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	CP17-40-000 CP17-40-001
Rick Steigenwald		City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	CP17-40-000 CP17-40-001
Rodney Grady		Treasurer	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	CP17-40-000 CP17-40-001
Ryan Scott		City Clerk	City of Carrollton	217-942-5517	ryanscott.cityclerk@gmail.com		621 South Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Sandra Muller		City Council	City of Black Jack				City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	CP17-40-000 CP17-40-001
Sharon Butler		Alderman	City of Carrollton				621 South Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Steve Hoots		Alderman	City of Winchester	217-742-3191			121 S. Hill Street		Winchester	62694		IL	CP17-40-000 CP17-40-001
Steve Pohlman		City Council	City of Jerseyville	618-498-3312	spohlman@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Sue Reno		City Clerk	City of White Hall	217-374-2345	sreno@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	CP17-40-000 CP17-40-001
Susie Keller		Alderman	City of Carrollton				621 South Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Tamra Winters		Alderwoman	City of White Hall	217-374-2345	twinters@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	CP17-40-000 CP17-40-001
Terry Gross		Chief of Police	City of Carrollton	217-942-3135	carrolltonpd1@gmail.com		621 South Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Thomas P. Schneider		Mayor	City of Florissant	314-839-7601			955 Rue St Francois		Florissant	63031		MO	CP17-40-000 CP17-40-001
Tim Lee		City Council	City of Florissant	314-839-7631	ward1@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	CP17-40-000 CP17-40-001
Timothy Jones		City Council	City of Florissant	314-839-7631	ward2@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	CP17-40-000 CP17-40-001
Tom Lakin		Mayor	City of White Hall	217-374-2481	tlakin@whitehallcitygov.com		116 East Sherman		White Hall	62092		IL	CP17-40-000 CP17-40-001
Tom Wilson		Alderman	City of Carrollton				621 South Main Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Tommy Martin		Mayor	City of Roodhouse	217-589-4351			137 West Palm St		Roodhouse	62082		IL	CP17-40-000 CP17-40-001

Appendix 1-I
 Spire STL Pipeline
 City Stakeholder Contact List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	PO Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Tommy Siam		City Council	City of Florissant	314-839-7631	ward9@florissantmo.com		955 Rue St Francois		Florissant	63031		MO	CP17-40-000 CP17-40-001
Vijay K. Bhasin, P.E.		City Engineer	City of Black Jack	314-355-0400 ext. 110	cityengineer@cityofblackjack.com		City Hall	12500 Old Jamestown Road	Black Jack	63033		MO	CP17-40-000 CP17-40-001
William Brass		Alderman	West Alton	636-899-1546			City Hall		Black Jack	63033		MO	CP17-40-000 CP17-40-001
William Richter		Mayor	West Alton	636-899-0808		PO Box 42	14068 N State Route 94		West Alton	63386		MO	CP17-40-000 CP17-40-001
William Russell		Mayor	City of Jerseyville	618-498-2400	brussell@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
William Strang		City Council	City of Jerseyville	618-498-6821	bstrang@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	CP17-40-000 CP17-40-001

Appendix 1-I
 Spire STL Pipeline
 ENGO Contact List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	PO Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Adam McLane		State Director	Nature Conservancy-Missouri	314-968-1105	missouri@tnc.org	PO Box 440400			St. Louis	63143		MO	CP17-40-000 CP17-40-001
Alicia Wallace		President	Missouri Caves & Karst Conservancy		president@mcavessandkarst.org	PO Box 190456			St. Louis	63119		MO	CP17-40-000 CP17-40-001
Brooke Thureau		Campaign Coordinator	Bluestem Communications - 1 Mississippi Campaign	312-754-0402	bthureau@bluestemcommunications.org		14 N. Peoria Street	Suite 4F	Chicago	60607		IL	CP17-40-000 CP17-40-001
David Stokes		Executive Director	Great Rivers Habitat Alliance			POBox 50014			St. Louis	63105		MO	CP17-40-000 CP17-40-001
David Stokes		Executive Director	Great Rivers Habitat Alliance	314-918-1351	info@grha.org	PO Box 50014			St. Louis	63150		MO	CP17-40-000 CP17-40-001
Heather Brouillet Navarro		Executive Director	Missouri Coalition for the Environment	314-727-0600	hnavarro@moenviron.org		3115 S. Grand Blvd	Suite 650	St. Louis	63118		MO	CP17-40-000 CP17-40-001
Jack Darin		Chapter Director	Sierra Club - Illinois Chapter	312-251-1680 EX: 112	jack_darin@sierraclub.org		70 E. Lake Street	Suite 1500	Chicago	60601		IL	CP17-40-000 CP17-40-001
John Hickey		Chapter Director	Sierra Club - Missouri Chapter	314-644-1011	missouri.chapter@sierraclub.org		2818 Sutton Blvd		St. Louis	63143		MO	CP17-40-000 CP17-40-001
John Williams		President	Great Rivers Land Trust	618-467-2265		PO Box 821			Alton	62002		IL	CP17-40-000 CP17-40-001
Mark Flaspohler		Manager of Conservation	Ducks Unlimited-Missouri	573-234-2132 EX: 178	mflaspohler@ducks.org		101 Park DeVille Drive	Suite B	Columbia	65203		MO	CP17-40-000 CP17-40-001
Mark Flaspohler		Manager of Conservation	Ducks Unlimited-Illinois	573-234-2132 EX: 178	mflaspohler@ducks.org		101 Park DeVille Drive	Suite B	Columbia	65203		MO	CP17-40-000 CP17-40-001
May Boeve		Executive Director	Chicago 350		mav@350.org		20 Jay Street	Suite 732	Brooklyn	11201		NY	CP17-40-000 CP17-40-001
Michelle Carr		State Director	Nature Conservancy-Illinois	312-580-2100	illinois@tnc.org		8 S. Michigan Ave	Suite 900	Chicago	60603		IL	CP17-40-000 CP17-40-001
Patricia Hagen		VP and Executive Director	Audubon Missouri	636-899-0090	phagen@audubon.org		301 Riverlands Way		West Alton	63386		MO	CP17-40-000 CP17-40-001
Rob Sargent		Energy Program Director	Environment Illinois	617-747-4317			328 S. Jefferson St	Suite 620	Chicago	60661		IL	CP17-40-000 CP17-40-001
Ryan Verkamp		President	Trout Unlimited Mid-Missouri	573-817-0631	Ryan.Verkamp@gmail.com		1777 N. Kent Street	Suite 100	Arlington	22209		VA	CP17-40-000 CP17-40-001
Shari Harden		President	Audubon Society-Missouri				2101 W. Broadway	PMB 122	Columbia	65203	1261	MO	CP17-40-000 CP17-40-001
Susan Trautman		Executive Director	Great Rivers Greenway	314-436-7009	strauman@grgstl.org		6178 Delmar Boulevard		St. Louis	63112		MO	CP17-40-000 CP17-40-001
Tabitha Tripp		Heartwood Coordinator, Illinois	Heartwood	740-591-8166	info@heartwood.org	PO Box 543			Tell City	47586		IN	CP17-40-000 CP17-40-001
TBD			American Bottomlands Conservancy	N/A	N/A		527 Washington Place		East St. Louis	62205		IL	CP17-40-000 CP17-40-001
TBD			Center for American Archeology	618-653-4316	caa@caa-archeology.org	PO Box 366			Kampsville	62053		IL	CP17-40-000 CP17-40-001
Tom Clay		Executive Director	Audubon Society-Illinois	217-544-2473	tclay@illinoisaudubon.org		2315 Clear Lake Avenue		Springfield	62703		IL	CP17-40-000 CP17-40-001
Trip Van Noppen		President	Earthjustice	800-584-6460	headquarters@earthjustice.org		50 California Street	Suite 500	San Francisco	94111		CA	CP17-40-000 CP17-40-001
Natalie Karas		Senior Regulatory Attorney	Environmental Defense Fund	202-572-3389	nkaras@edf.org		1875 Connecticut Ave. NW	Suite 800	Washington	20011		D.C.	CP17-40-000 CP17-40-001
N. Jonathan Peress		Senior Director of Energy Market Policy	Environmental Defense Fund	617-406-1838	njperess@edf.org		16 Tremont Street	Suite 850	Boston	02108		MA	CP17-40-000 CP17-40-001

Appendix 1-1
 Spire STL Pipeline
 Non-Governmental Organizations Contact List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	PO Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Bernie Sebold		Chief	Alton Fire Department	618-463-3565			333 E. 20th Street		Alton	62002		IL	CP17-40-000 CP17-40-001
Bonni L. Waters		Vice President	Jacksonville Regional Economic Development Council	217-479-4627	bonni@iredc.org		221 E. State St		Jacksonville	62650		IL	CP17-40-000 CP17-40-001
Daniel Mehan		President and CEO	Missouri Chamber of Commerce	573-634-3511			428 East Capitol Ave		Jefferson City	65101		MO	CP17-40-000 CP17-40-001
Ellen Lutzow		President	Old Jamestown Association	314-550-0184	N/A	PO Box 2223			Florissant	63032		MO	CP17-40-000 CP17-40-001
Greg Prestemon		President and CEO	St. Charles County Economic Development Center	636-441-6880	gprestemon@edcsc.com		5988 Mid Rivers MallDrive		St. Charles	63304		MO	CP17-40-000 CP17-40-001
Harold Waggoner		President	Alton Volunteer Emergency Corps	618-462-2202			2400 Bloomer Dr		Alton	62002		IL	CP17-40-000 CP17-40-001
Jaime Aslin		Manager	Two Rivers Marina	217-437-2321	jaime@tworiversmarina.com		13495 U.S. Hwy 54		Rockport	62370		IL	CP17-40-000 CP17-40-001
Jeff Soer		Director of Building & Zoning and Director of Economic Development	City of Jerseyville Economic Development	618-498-3312	jeffsoer@jerseyville-il.us		115 East Prairie Street		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Jim Manger		Director	Greene County Economic Development Group, Inc.	618-980-5036	gcadginc@gmail.com		314 5th Street		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Kelly Applegate		Staff Contact	St. Louis Economic Development Partnership	314-615-7688	info@stlpartnership.com		7733 Forsyth Blvd	Suites 2200 & 2300	St. Louis	63105		MO	CP17-40-000 CP17-40-001
Pat Van DeVelde		President	Scott County Development Corporation	N/A	pat@peakinsuranceagency.net		35 E. Market Street		Winchester	62694		IL	CP17-40-000 CP17-40-001
Richard Pender		Chief	Rivers Pointe Fire Department	636-899-1122	info@rpsfd.com		100 Firehouse Drive		West Alton	63386		MO	CP17-40-000 CP17-40-001
Shari Albrecht		CEO	Jersey County Business Association				209 N. State Street		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Todd Maisch		President and CEO	Illinois Chamber of Commerce	217-522-5512 EX: 233	tmaisch@ilchamber.org		215 E. Adams St		Springfield	62701		IL	CP17-40-001

Appendix 1-I
 Spire STL Pipeline
 Agency Contact List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	PO Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Stan Crusius			Greene County - Floodplain Management	217-942-5443	N/A		519 N. Main St		Carrollton	62016		IL	CP17-40-000 CP17-40-001
TBD		NOAA NEPA Coordinator	NOAA National Marine Fisheries Services	301-713-9668	noaa.nepa@noaa.gov		Office of General Counsel 1315 East-West Highway	Room 15132	Silver Springs	20910		MD	CP17-40-000 CP17-40-001 CP17-40-000
TBD			USDA-Farm Service Agency - Carrollton Service Center	217-942-5402		RR Box 129A	Route 267 North		Carrollton	62016	9545	IL	CP17-40-001
TBD			USDA - Farm Service Agency - Jerseyville Service Center	618-498-6836			604 E. Franklin		Jerseyville	62052	2400	IL	CP17-40-000 CP17-40-001
Terry Savko			Illinois Department of Agriculture - Bureau of Land and Water Resources	217-785-4458	terry.savko@illinois.gov		One Natural Resources Way		Springfield	62794	9281	IL	CP17-40-000 CP17-40-001
Trisha Crabill		Fish and Wildlife Biologist	United States Fish and Wildlife - Columbia Field Office	573-234-2132	trisha_crabill@fws.gov		101 Park De Ville Dr	Suite A	Columbia	65203		MO	CP17-40-000 CP17-40-001
Virginia Laszewski		Environmental Impact Statements Contact	United States Environmental Protection Agency - Region 5	312-886-7501	Laszewski.virginia@epa.gov		77 W. Jackson Blvd	Mail Code R-19J	Chicago	60604	3590	IL	CP17-40-000 CP17-40-001
Stephen Altman		P.E. Downstate Regulatory Program	Illinois Department of Natural Resources	(217) 524-1028			One Natural Resources Way	2nd Floor	Springfield	62702	1271	IL	CP17-40-000 CP17-40-001
Eric Niemeyer		County Executive Director	USDA-Farm Service Agency - St Charles County/St. Louis County	636-922-2833, ext. 105	eric.niemeyer@mo.usda.gov		160 Saint Peters Centre Blvd		St. Peters	63376		MO	CP17-40-000 CP17-40-001
Dan Wiley		Chief Integrated Resources Stewardship	National Park Service - Lewis and Clark National Historic Trail	402-661-1830	dan_wiley@nps.gov		601 Riverfront Drive		Omaha	68102	4226	NE	CP17-40-000 CP17-40-001

Appendix 1-1
Spire STL Pipeline
Tribal Contact List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	PO Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Andrea A. Hunter		Tribal Historic Preservation Officer	Osage Nation	918-287-5328			627 Grandview		Pawhuska	74056	4201	OK	CP17-40-000 CP17-40-001
Andrew Gourd		Asst. Tribal Historic Preservation Officer	Citizen Potawatomi Nation	405-878-5830	andrew.gourd@potawatomi.org		1601 S. Gordon Cooper Drive		Shawnee	74801		OK	CP17-40-000 CP17-40-001
Bernadette Thomas		Tribal Councilmember	Kickapoo Tribe in Kansas	785-486-2601, ext. 5			1107 Gold Finch Road		Horton	66439	9537	KS	CP17-40-000 CP17-40-001
Bill John Baker		Principal Chief and Tribal Historic Preservation Officer	Cherokee Nation			PO Box 948			Tahlequah	74465		OK	CP17-40-000 CP17-40-001
Bill Quackenbush		Tribal Historic Preservation Officer	Ho-Chunk Nation	715-284-7181, ext. 1121	bill.quackenbush@ho-chunk.com	PO Box 667			Black River Falls	54615		WI	CP17-40-000 CP17-40-001
Bobby Walkup		Chairman and TPHO	Iowa Tribe of Oklahoma	405-547-2402	BWalkup@iowanation.org		335588 E. 750 Road		Perkins	74059		OK	CP17-40-000 CP17-40-001
Brice Obermeyer		Director, Historic Preservation Office	Delaware Tribe of Indians	918-335-7026	bobermeyer@delawaretibe.org		1200 Commercial St	Roosevelt Hall, Rm 212	Emporia	66801		KS	CP17-40-000 CP17-40-001
Chet Brooks		Chief	Delaware Tribe of Indians	918-337-6527	cbrooks@delawaretibe.org		1200 Commercial St	Roosevelt Hall, Rm 212	Emporia	66801		KS	CP17-40-000 CP17-40-001
Crystal Douglas		Museum Director	Kaw Indian Nation of Oklahoma	580-269-2552	ewacac@kawnation.com		Drawer 50		Kaw City	74641		OK	CP17-40-000 CP17-40-001
Diane Hunter		Acting Tribal Historic Preservation Officer	Miami Tribe of Oklahoma	918-541-8966	dhunter@miamination.com		3410 P Street NW		Miami	74354		OK	CP17-40-000 CP17-40-001
DJ Hoffman		Tribal Historic Preservation Officer	Matche-be-nash-she-wish Band of Potawatomi Indians of Michigan	906-632-6896		PO Box 218			Dorr	49323		MI	CP17-40-000 CP17-40-001
Douglas Lankford		Chief	Miami Tribe of Oklahoma			PO Box 1326			Miami	74355		OK	CP17-40-000 CP17-40-001
Earl Meshigaud		Tribal Historic Preservation Officer	Potawatomi Nation-Hannahville Indian Community	906-466-9933			N14911 Hannahville B-1 Road		Wilson	49896		MI	CP17-40-000 CP17-40-001
Earl S. Howe III		Chairman	Ponca Tribe of Oklahoma	580-762-8104			20 White Eagle Drive		Ponca City	74601		OK	CP17-40-000 CP17-40-001
Edmore Green		Chief	Sac and Fox Tribe of the Missouri in Kansas and Nebraska	785-742-7471	egreen@sacandfoxcasino.com		305 North Main		Reserve	66434		KS	CP17-40-000 CP17-40-001
Edwina Butler-Wolfe		Governor	Absentee-Shawnee Tribe of Indians of Oklahoma	405-275-4030			2025 South Gordon Cooper Drive		Shawnee	74801		OK	CP17-40-000 CP17-40-001
Elizabeth Kay Rhoads		Principal Chief	Sac and Fox Nation of Oklahoma	918-968-3526	chief@sacandfoxnation-nsn.gov		920883 S. Hwy 99	Bldg. A	Stroud	74079	5178	OK	CP17-40-000 CP17-40-001
Elvis E. Ellis		Repatriation/NAGPRA Committee, Chairman	Sac and Fox Nation of Oklahoma				920883 S. Hwy 99	Bldg. A	Stroud	74079	5178	OK	CP17-40-000 CP17-40-001
Eric Osahwee-Voss		Acting Tribal Historic Preservation Officer	United Keetoowah Band of Cherokee Indians of Oklahoma	918-456-8698		PO Box 746			Tahlequah	74465		OK	CP17-40-000 CP17-40-001
Everett Bandy		THPO	Quapaw Tribe of Oklahoma	888-641-4724	ebandy@quapawtribe.com	PO Box 765			Quapaw	74363		OK	CP17-40-000 CP17-40-001
Geoffrey Standing Bear		Principle Chief	Osage Nation	918-287-5555			627 Grandview		Pawhuska	74056	4201	OK	CP17-40-000 CP17-40-001
Gilbert Salazar		Chairman	Kickapoo Tribe of Oklahoma			PO Box 70			McCloud	74851		OK	CP17-40-000 CP17-40-001
Glenna J. Wallace		Chief	Eastern Shawnee Tribe of Oklahoma	918-666-2435			12755 S. 705 Rd		Wyandotte	74370	3148	OK	CP17-40-000 CP17-40-001
Halona Clawson		Tribal Historic Preservation Officer	Ponca Tribe of Oklahoma	580-762-8104	halona.clawson@ponca.com		20 White Eagle Drive		Ponca City	74601		OK	CP17-40-000 CP17-40-001
Harold Frank		Chairman	Forest County Potawatomi			PO Box 340			Crandon	54520	0340	WI	CP17-40-000 CP17-40-001
Hattie Mitchell			Prairie Band Potawatomi Nation	785-966-4000	hattiem@pbnation.org		16281 Q Road		Mayetta	66509	8970	KS	CP17-40-000 CP17-40-001
Henry Payer		Tribal Historic Preservation Officer	Winnebago of Nebraska			PO Box 687			Winnebago	68071	687	NE	CP17-40-000 CP17-40-001
Jaclyn Secondine Hensley		Chairman	Kaw Indian Nation of Oklahoma	580-269-2552	ewacac@kawnation.com	Drawer 50			Kaw City	74641		OK	CP17-40-000 CP17-40-001
Jamie Stuck		Chairman	Nottawaseppi Huron Band of the Potawatomi	269-729-5151	jestuck@nhbpi.com		2221 1 1/2 Mile Road		Fulton	49052	9602	MI	CP17-40-000 CP17-40-001
Jason Dollahide		Repatriation/NAGPRA Committee, Chairperson	Peoria Tribe of Indians of Oklahoma	918-540-2535			118 S. Eight Tribes Trails		Miami	74355		OK	CP17-40-000 CP17-40-001
Jason Scott Wesaw		Tribal Historic Preservation Officer	Pokagon Band of Potawatomi Indians			PO Box 180			Dowagiac	49047		MI	CP17-40-000 CP17-40-001
Jodi Hayes		Archaeologist	Shawnee Tribe	918-542-2441		PO Box 189			Miami	74355	0189	OK	CP17-40-000 CP17-40-001
Joe Bunch		Chief	United Keetoowah (Band of Cherokee Indians in Oklahoma)			PO Box 746			Tahlequah	74465		OK	CP17-40-000 CP17-40-001
John Barrett, Jr.		Chairman	Citizen Potawatomi Nation	405-275-9121	jbarrett@potawatomi.org		1601 S. Gordon Cooper Drive		Shawnee	74801		OK	CP17-40-000 CP17-40-001
John Berrey		Chairman	Quapaw Tribe of Oklahoma	888-641-4724	ebandy@quapawtribe.com	PO Box 765			Quapaw	74363		OK	CP17-40-000 CP17-40-001
John Blackhawk		Chairman	Winnebago Tribe of Nebraska	402-878-3103	jblackhawk@nl.com	PO Box 687			Winnebago	68071	687	NE	CP17-40-000 CP17-40-001
John Fox		Archaeologist	Osage Nation	918-287-5328	ahunter@osagetribe.org	PO Box 779	627 Grandview		Pawhuska	74056	4201	OK	CP17-40-000 CP17-40-001
John P. Froman		Chief	Peoria Tribe of Indians of Oklahoma	918-540-4155		PO Box 1527			Miami	74355		OK	CP17-40-000 CP17-40-001
John Ross		Section 106 Manager	Delaware Nation			PO Box 825			Anadarko	73005		OK	CP17-40-000 CP17-40-001
John Warren		Chairman	Pokagon Band of Potawatomi Indians			PO Box 180			Dowagiac	49047		OK	CP17-40-000 CP17-40-001
Johnathan L. Buffalo		Historic Preservation Director	Sac and Fox Tribe of the Mississippi in Iowa	641-484-3185	director.historic@maskwaki-nsn.org		349 Meskwaki Road		Tama	52339		IA	CP17-40-000 CP17-40-001
Juan Garza, Jr.		Chairman	Kickapoo Traditional Tribe of Texas	830-758-1936	juangarza73@yahoo.com		HCR 1, Box 9700		Eagle Pass	78852		TX	CP17-40-000 CP17-40-001
Kelli Mosteller		Tribal Historic Preservation Officer	Citizen Potawatomi Nation	(405) 878-5830			1601 S. Gordon Cooper Drive		Shawnee	74801		OK	CP17-40-000 CP17-40-001
Kenneth Meshigaud		Chairperson	Potawatomi Nation-Hannahville Indian Community	906-466-9933	kennethmeshigaud@hannahville.org		N14911 Hannahville B-1 Road		Wilson	49896		MI	CP17-40-000 CP17-40-001
Kent Collier		Attorney/Preservation Rep	Kickapoo Tribe of Oklahoma	405-964-7053	kcollier@kickapootribeofoklahoma.com	PO Box 70			McCloud	74851		OK	CP17-40-000 CP17-40-001

Appendix 1-1
Spire STL Pipeline
Tribal Contact List

Kerry Holton	President	Delaware Nation	(405) 247-2448		PO Box 825			Anadarko	73005		OK	CP17-40-000 CP17-40-001
Lance M. Foster	Tribal Historic Preservation Officer	Iowa Tribe of Kansas and Nebraska	785-595-3258	lfoster@iowas.org		3345 B. Thrasher Road		White Cloud	66094	4028	KS	CP17-40-000 CP17-40-001
Larry Wright, Jr.	Chairman	Ponca Tribe of Nebraska			PO Box 288			Niobrara	68760		NE	CP17-40-000 CP17-40-001
Leonard Longhorn	Tribal Historic Preservation Officer	Absentee-Shawnee Tribe of Indians of Oklahoma	405-275-4030	leonard.longhorn@astribe.com		2025 South Gordon Cooper Drive		Shawnee	74801		OK	CP17-40-000 CP17-40-001
Lester Randall	Chairman	Kickapoo Tribe in Kansas	(785) 486-2131			1107 Gold Finch Road		Horton	66439	9537	KS	CP17-40-000 CP17-40-001
Liana Onnen	Chairperson	Prairie Band Potawatomi Nation	(785) 966-4000			16281 Q. Road		Mayetta	66509	8970	KS	CP17-40-000 CP17-40-001
Logan Pappenfort	Historic Preservation Officer	Peoria Tribe of Indians of Oklahoma	918-540-2535	lpappenfort@peoriatribe.com	PO Box 1527			Miami	74355		OK	CP17-40-000 CP17-40-001
Marcus Winchester	Tribal Historic Preservation Officer	Pokagon Band of Potawatomi Indians	269-462-4224	marcus.winchester@pokagonband-nsn.gov	PO Box 180			Dowagiac	49047		MI	CP17-40-000 CP17-40-001
Melissa Cook	Tribal Historic Preservation Officer	Forest County Potawatomi	800-960-5479	melissa.cook@fcpotawatomi-nsn.gov	PO Box 340			Cultural Center, Library & Museum	Crandon	54520	WI	CP17-40-000 CP17-40-001
Mon-ee Zapata	Cultural Specialist	Nottawaseppi Huron Band of the Potawatomi	269-704-8353	mzapata@nhbpi.com		311 State Street		Grand Rapids	49503		MI	CP17-40-000 CP17-40-001
Nekole Allgood	Director of Cultural Preservation	Delaware Nation	405-247-2448	nallgood@delawarenation.com	PO Box 825	31064 State Highway 281		Anadarko	73005		OK	CP17-40-000 CP17-40-001
Patrick Durham	Division Director	Iowa Tribe of Oklahoma	405-547-5433, ext. 350	pdurham@iowanation.org		RR 1, Box 721		Perkins	74059	9599	OK	CP17-40-000 CP17-40-001
Randy Teboe	Tribal Historic Preservation Officer	Ponca Tribe of Nebraska			PO Box 288			Niobrara	68760		NE	CP17-40-000 CP17-40-001
Richard Allen	Archaeologist	Cherokee Nation	918-456-6485		PO Box 948			Tahlequah	74465		OK	CP17-40-000 CP17-40-001
Robin Dushane	Cultural Preservation Director	Eastern Shawnee Tribe of Oklahoma	918-666-2435, ext. 247	radushane@gmail.com	PO Box 350	127 West Oneida		Seneca	64865		MO	CP17-40-000 CP17-40-001
Robyn Burlingham	Council/Board	Huron Potawatomi Nation	269-704-8373	rburlingham@nhbpi.com		1484 Mno-Bmadzewen Way		Fulton	49502		MI	CP17-40-000 CP17-40-001
Ron Sparkman	Chief	Shawnee Tribe			PO Box 189			Miami	74355	0189	OK	CP17-40-000 CP17-40-001
Sandra Kaye Massey	Cultural Resources	Sac and Fox Nation of Oklahoma	918-968-3526	smassey@sacandfoxnation-nsn.gov		920883 S. Hwy 99	Bldg. A	Stroud	74079	5178	OK	CP17-40-000 CP17-40-001
Scott Sprague	Chairman	Match-e-be-nash-She-Wish Band of Pottawatomi Indians (Gun Lake Tribe)				2872 Mission Drive		Shelbyville	49344		MI	CP17-40-000 CP17-40-001
Shannon Wright	Tribal Historic Preservation Officer	Ponca Tribe of Nebraska	402-857-3519	N/A	PO Box 288			Niobrara	68760		NE	CP17-40-000 CP17-40-001
Sydney Martin	Tribal Historic Preservation Officer	Match-e-be-nash-she-wish Band of Pottawatomi Indians	616-896-7576			3556 26th Street		Hopkins	49328		MI	CP17-40-000 CP17-40-001
Timothy Rhodd	Chairman	Iowa Tribe of Kansas and Nebraska	785-595-3347			3345 B. Thrasher Road		White Cloud	66094	4028	KS	CP17-40-000 CP17-40-001
Tony Wanatee	Chief	Sac and Fox Tribe of the Mississippi in Iowa	641-484-4678			349 Meskwaki Road		Tama	52339		IA	CP17-40-000 CP17-40-001
Wilford Cleveland	President	Ho-Chunk Nation			PO Box 667			Black River Falls	54615		WI	CP17-40-000 CP17-40-001

Appendix 1-I
Spire STL Pipeline
Additional Contacts List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	PO Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Alan Poggemoeller				636-899-0634			6565 Portage Rd		Portage Des Sloux	63373		MO	CP17-40-000 CP17-40-001
Andrea Ahearn		Account Manager	Aerotek	314-801-5245	aahearn@aerotek.com		Two City Place Drive	Suite 100	St. Louis	63141		MO	CP17-40-000 CP17-40-001
Bernie Darg				217-788-4306			25265 Bethany Ch. Rd		Springfield	62701		IL	CP17-40-000 CP17-40-001
Bill & Suzanne O'Brien				314-831-4233	billyueob@att.net		2265 Wedgewood Dr		Florissant	63037		MO	CP17-40-000 CP17-40-001
Blake Hurst		Board of Directors President	MO Farm Bureau	573-893-1400			701 S. Country Club Drive		Jefferson City	65109		MO	CP17-40-000 CP17-40-001
Blake Roderick		Executive Director	IL Farm Bureau	217-473-1600 C	blake@fkbcof.org		7 E. Market St		Winchester	62694		IL	CP17-40-000 CP17-40-001
Bob Manns				618-498-6418			1004 State Hwy. 16		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Bob McDonald				618-304-2447			23783 Rangeline Rd		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Bonnie Diaz				314-615-7116	bdiaz@stlouisco.com		41 S. Central Ave		St. Louis	63105		MO	CP17-40-000 CP17-40-001
Brad Behymer				942-5402 ex. 112	bradley.behymer@l.usda.gov		RR #3, Box 129A		Carrollton	62016		IL	CP17-40-001 CP17-40-000
Brad Wilson				217-245-9071	bwilson@rblawyers.net		6 Rosemary Lane		Jacksonville	62650		IL	CP17-40-001 CP17-40-000
Charlie Rives			Greene County Rural Water	217-248-6292			323A 6th Street		Carrollton	62016		IL	CP17-40-001 CP17-40-000
Chauncey Granger		Principal of Hazelwood Southeast Middle School	Hazelwood School District	314-953-5000	CGranger@hazelwoodschoools.org		15955 New Halls Ferry Road		Florissant	63031		MO	CP17-40-000 CP17-40-001
Dan Drescher					cdandrescher@aol.com	PO Box 73			Elsah	62028		IL	CP17-40-000 CP17-40-001
Danny R. Miller						PO Box 15			Fieldon	62031		IL	CP17-40-000 CP17-40-001
Daryl Knobbe				314-486-6042	dknobbe@rrcolan.com		4 Westbury		St. Charles	63303		MO	CP17-40-000 CP17-40-001
David Bonderer				636-899-0933	saalefg@aol.com		535 Saale Rd		West Alton	63301		MO	CP17-40-000 CP17-40-001
Dee Damm							RR #3, Box 14		Roodhouse	62082		IL	CP17-40-000 CP17-40-001
Emma Crathis							1901 Chocteau Ave		St. Louis	63103		MO	CP17-40-000 CP17-40-001
Eric Arbetter		Assistant Superintendent for Curriculum and Instruction	Hazelwood School District	314-953-5000	earbetter@hazelwoodschoools.org		15955 New Halls Ferry Road		Florissant	63031		MO	CP17-40-000 CP17-40-001
Fred Marshall				618-498-2949			26810 Old Fidelity Road		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Fred Randolph				217-248-1893	randolphfarms@yahoo.com		RR #1, Box 7A		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Greg Bates				618-779-2417			1009 State HWY 16		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Henry Kallal				618-498-9534			20398 Lax Cemetery Rd		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Jeanne Clanton				314-331-8810	wllie@richterfarms.com		RR #1, Box 12A		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Jeff Haug		Assistant Superintendent for Middle School Education	Hazelwood School District	314-953-5000	jhaug@hazelwoodschoools.org		15955 New Halls Ferry Road		Florissant	63031		MO	CP17-40-000 CP17-40-001
Jeff Naville				217-381-8100	jnaville@mdwestlaborers.org		RR 1, Box 40 B		Rockbridge	62081		IL	CP17-40-000 CP17-40-001
Jerry Harris				314-355-0369			1008 Prigge Road		St. Louis	63138		MO	CP17-40-000 CP17-40-001
Jim Boerding				636-634-1779			5520 N. HWY 94		St. Charles	63301		MO	CP17-40-000 CP17-40-001
Jim Massmann				314-560-2244	jmassmann@sbcglobal.net		1130 Shadowoak Dr		Ballwin	63021		MO	CP17-40-000 CP17-40-001
Joey Naville				217-204-3895			RR 1, Box10B		Rockbridge	62081		IL	CP17-40-000 CP17-40-001
John Coonrod				217-370-3593	john.p.coonrod@coonrodlawoffice.com	PO Box 197			Winchester	62694		IL	CP17-40-000 CP17-40-001
John Reed				618-303-4856		PO Box 14 18 Mill St			Elsah	62028		IL	CP17-40-000 CP17-40-001
John Spencer					spencerjb1@yahoo.com		67 Spencer Rd		Roodhouse	62082		IL	CP17-40-000 CP17-40-001
Laef Lorton							123 W. Pearl		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Larry Gowrley				314-575-1910			RR 3, Box 233		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Larry Mead				618-498-2998			23336 Beach Ct		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Laura Duckett				217-341-5084	lduckett@gmail.com		RR 1, Box 98A		Roodhouse	62082		IL	CP17-40-000 CP17-40-001
Linda Dislehorst				217-787-3920	linddis@aol.com		2232 W Laurel St		Springfield	62704		IL	CP17-40-000 CP17-40-001
Marcelyn Love					marcelynlove@yahoo.com		3117 LaConner Dr		Springfield	62704		IL	CP17-40-000 CP17-40-001
Mark Poggemoeller				636-899-0634			6565 Portage Rd		Portage Des Sloux	63373		MO	CP17-40-000 CP17-40-001
Melissa McKenna				618-304-2447	bluesfarmim@frontier.net		404 Short St		Jerseyville	62052		IL	CP17-40-000 CP17-40-001

Appendix 1-I
 Spire STL Pipeline
 Additional Contacts List

Michael Morgan						34120 Canoe Ct		Brighton	62012		IL	CP17-40-000 CP17-40-001
Michael Thelen	Director of Maintenance	Hazelwood School District	314-953-5000	mthelen@hazelwoodschoools.org		15955 New Halls Ferry Road		Florissant	63031		MO	CP17-40-000 CP17-40-001
Mike Gourley			217-371-9661	Gourley03@frontier.com		RR 3, Box 124		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Monty Sade			314-393-6515			1290 Sade Dr		West Alton	63386		IL	CP17-40-000 CP17-40-001
Nick W. Graham			217-942-6966	nick@gustinelaw.com		620 North Main St		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Norman Sacks			636-561-0993			111 Wake Forest Pl		O'Fallon	63368		MO	CP17-40-000 CP17-40-001
Rachel Cooper			217-320-2492	starcoop@frontier.com		1247 Clay Hollow Rd		Winchester	62694		IL	CP17-40-000 CP17-40-001
Randall Henson			217-204-3193			1107 Hawkland Dr		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Randy Harris			217-782-4306	rharris@midwestlaborers.org		1 NW, Old State Capital Plaza Ste. 525		Springfield	62701		IL	CP17-40-000 CP17-40-001
Ray Sinclair			618-535-5642	rsinclair62052@gmail.com		20306 Otterville Rd		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Rich Georgy						RR 1, Box 136		Roodhouse	62082		IL	CP17-40-000 CP17-40-001
Rob Hedger			618-304-7090			1210 Eagle Ln		Grafton	62037		IL	CP17-40-000 CP17-40-001
Robert Guinness			636-947-7711	guinness@ste.legal.com		50 Hill Pointe Ct. Ste 200		St. Charles	63303		MO	CP17-40-000 CP17-40-001
Shawn Saale			636-397-4500	shawn@saalebailey.com		220 Salt Lick Road		St. Peters	63376		MO	CP17-40-000 CP17-40-001
Shirley VanMeter			217-371-8268			514 Grant St		White Hall	62092		IL	CP17-40-000 CP17-40-001
Stephanie Knittel	Manager	IL Farm Bureau	618-498-9576	greenefb@frontier.com		402 S. Jefferson St		Jerseyville	62052		IL	CP17-40-000 CP17-40-001
Thomas Mangogna	Director of Facilities	Hazelwood School District	314-953-5000	tjmango@hazelwoodschoools.org		15955 New Halls Ferry Road		Florissant	63031		MO	CP17-40-000 CP17-40-001
Tim Eggers				teggers1@yahoo.com		2339 Stoncrest		Washington	63090		IL	CP17-40-000 CP17-40-001
Tony Lucia	Assistant Director of Custodial Services	Hazelwood School District	314-953-5000	alucia@hazelwoodschoools.org		15955 New Halls Ferry Road		Florissant	63031		MO	CP17-40-000 CP17-40-001
Vonda Seckler			618-791-6016			212 Willow Dr		Collinsville	62234		IL	CP17-40-000 CP17-40-001

Appendix 1-1
 Spire STL Pipeline
 Newspaper and Library Contact List

Contact Name	Blank	Contact Title	Contact Organization	Phone	Email	PO Box	Address Line 1	Address Line 2	City	Zip 1	Zip 2	State	Docket
Angie Custer		Branch Manager	Carrollton Public Library	217-942-6715			509 S. Main St		Carrollton	62016		IL	CP17-40-000 CP17-40-001
Anita Driver		Director	Jerseyville Public Library	618-498-9514	anitad@jerseyvillelibrary.org		105 N. Liberty St		Jerseyville	62052		IL	CP17-40-001
Ann King		Branch Manager	St Charles City-County Library	636-753-3070	aking@stclibrary.org		1825 Common Field St		Portage Des Sioux	63373		MO	CP17-40-001
Bob Botelho		Account Manager, Strategic Media	Gas Daily	720-264-6618	Robert.Botelho@spglobal.com		1800 Larimer St	Suite 2000	Denver	80202		CO	CP17-40-000 CP17-40-001
Bob Huneke		Publisher	O'Fallon Community News	636-379-1780	bhuneke@mycnews.com		2139 Bryan Valley Commercial Drive		O'Fallon	63366		MO	CP17-40-000 CP17-40-001
Bob Lindsey		Publisher	FloValley News	314-831-4645	independentnws@aol.com		25 St. Anthony Lane		Florissant	63031		MO	CP17-40-000 CP17-40-001
Darlene Smith		Branch Manager	Winchester Public Library	217-742-3150	winplibrary@irc.net		215 N. Main St		Winchester	62694		IL	CP17-40-000 CP17-40-001
Kristen Sorth		Director	St Louis County Library (Jamestown Bluffs Branch)	314-994-3300			4153 N. Hwy 67		Florissant	63034		MO	CP17-40-000 CP17-40-001
Matt Ceresia		Advertising	St. Louis Business Journal	314-421-8343	mceresia@bizjournals.com		815 Olive St	Suite 100	St. Louis	63101		MO	CP17-40-000 CP17-40-001
Nichole Liehr		Advertising Director, General Manager	Scott County Times	217-285-2345	nliehr@campbellpublications.net		115 W. Jefferson		Pittsfield	62363		IL	CP17-40-000 CP17-40-001
Nichole Liehr		Advertising Director, General Manager	Greene Prairie Press	217-285-2345	nliehr@campbellpublications.net		115 W. Jefferson		Pittsfield	62363		IL	CP17-40-000 CP17-40-001
Nichole Liehr		Advertising Director, General Manager	Jersey County Journal	217-285-2345	nliehr@campbellpublications.net		115 W. Jefferson		Pittsfield	62363		IL	CP17-40-000 CP17-40-001



Appendix 2-D
Site-Specific Waterbody Drawings



Appendix 2-F
Wetland Delineation and Stream Identification Report
(Addendum II)



Appendix 3-B
Species Specific Reports for Rare, Threatened and
Endangered Species

CONTAINS PRIVILEGED INFORMATION
(UNDER SEPARATE COVER)



Appendix 4-A
Illinois Cultural Resources Report - Phase I Addendum II
CONTAINS PRIVILEGED INFORMATION
(UNDER SEPARATE COVER)



Appendix 4-B
Missouri Cultural Resources Report -
Revised Phase I and Phase I Addendum II
CONTAINS PRIVILEGED INFORMATION
(UNDER SEPARATE COVER)



Appendix 4-E
Illinois Phase II Report: Site No. 11JY751
CONTAINS PRIVILEGED INFORMATION
(UNDER SEPARATE COVER)



Appendix 4-F
Illinois Phase II Report: Site No. 11JY765
CONTAINS PRIVILEGED INFORMATION
(UNDER SEPARATE COVER)

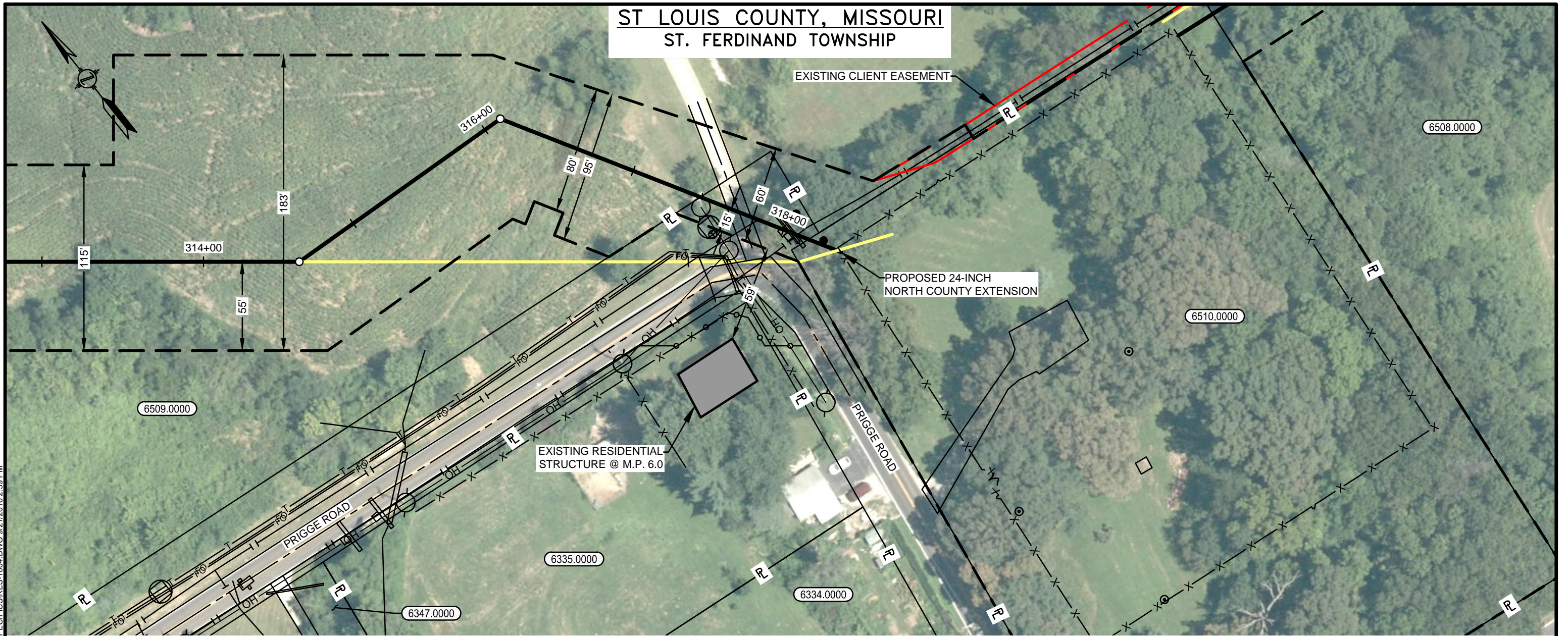


Appendix 6-B
Geotechnical Investigations Report
CONTAINS PRIVILEGED INFORMATION
(UNDER SEPARATE COVER)



Appendix 8-C
Site-Specific Residential Construction Details

**ST LOUIS COUNTY, MISSOURI
ST. FERDINAND TOWNSHIP**



LEGEND

- SAFETY FENCE
- PROPOSED PIPELINE
- OH OVERHEAD UTILITY LINES
- EXISTING FOREIGN PIPELINE
- CONSTRUCTION LIMITS
- PROPERTY LINE
- PROPOSED ACCESS ROAD
- ###.0000 MMID
- RESIDENTIAL OR COMMERCIAL ESTABLISHMENT
- UTILITY POLE

NOTES:

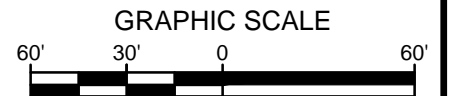
1. SAFETY FENCE WILL BE INSTALLED AT THE EDGE OF THE LIMIT OF DISTURBANCE (L.O.D.) FOR A DISTANCE OF 100 FEET ON EITHER SIDE OF THE RESIDENCE OR COMMERCIAL ESTABLISHMENT. AT MINIMUM, FENCING WILL BE MAINTAINED THROUGHOUT ACTIVE CONSTRUCTION IN THE AREA.
2. STRUCTURES WITHIN L.O.D. WILL BE REMOVED, RELOCATED OR PROTECTED PER LAND OWNER AGREEMENT.

THE STRUCTURES ARE BASED ON AERIAL DATA SERVICE IMAGERY FLOWN IN AUGUST AND SEPTEMBER 2016.
3. PROPERTY LINES DEPICTED ON THIS PLAN ARE BASED ON GIS TAX MAP DATA AND/OR FIELD LOCATED PROPERTY EVIDENCE. THEY SHOULD NOT BE RELIED ON AS AN ACCURATE DEPICTION OF THE ACTUAL PROPERTY LINE LOCATIONS. THEY DO NOT REPRESENT THE RESULTS OF A BOUNDARY SURVEY.

PLAN VIEW

1"=60'_XREF

4. AREAS OF PERMANENT EASEMENT WILL BE PERMANENTLY MAINTAINED PER USDOT PHMSA REQUIREMENTS. TEMPORARY WORKSPACES WOULD BE ALLOWED TO REVERT TO PRE-EXISTING USES. FENCES WOULD BE REPAIRED OR REPLACED.
5. SPIRE, DURING LANDOWNER NEGOTIATIONS, IS SEEKING FEEDBACK FROM LANDOWNERS ON THE PROPOSED PIPELINE AND IT'S IMPACTS ON THEIR PROPERTY. IF A LANDOWNER PROVIDES FEEDBACK ABOUT A PARTICULAR FEATURE ON THEIR PROPERTY FOR AVOIDANCE, SPIRE WILL MAKE REASONABLE ACCOMMODATIONS TO TRY TO AVOID THE IMPACT OR PROVIDE THE LANDOWNER COMPENSATION.



CONSTRUCTION TECHNIQUES

1. THE STOVE PIPE TECHNIQUE IS A LESS EFFICIENT ALTERNATIVE TO THE MAINLINE METHOD OF CONSTRUCTION. IT IS TYPICALLY USED WHEN THE PIPELINE IS TO BE INSTALLED IN VERY CLOSE PROXIMITY TO AN EXISTING STRUCTURE OR WHEN AN OPEN DITCH WOULD ADVERSELY IMPACT A COMMERCIAL/RESIDENTIAL ESTABLISHMENT. THE TECHNIQUE INVOLVES INSTALLING PIPE ONE JOINT AT A TIME WHEREBY THE WELDING, X-RAY AND COATING ACTIVITIES ARE ALL PERFORMED IN THE OPEN TRENCH. AT THE END OF EACH DAY THE NEWLY INSTALLED PIPE IS BACKFILLED OR THE OPEN TRENCH IS COVERED WITH STEEL PLATES OR TIMBER MATS.
2. THE DRAG SECTION CONSTRUCTION TECHNIQUE, WHILE LESS EFFICIENT THAN MAINLINE METHODS, IS NORMALLY PREFERRED OVER THE STOVE PIPE ALTERNATIVE. THIS TECHNIQUE INVOLVES THE TRENCHING, INSTALLATION AND BACKFILL OF A PREFABRICATED LENGTH OF PIPE CONTAINING SEVERAL SEGMENTS ALL IN ONE DAY. AT THE END OF EACH DAY THE NEWLY INSTALLED PIPE IS BACKFILLED AND/OR COVERED WITH STEEL PLATES OR TIMBER MATS.

NO.	DATE	BY	DESCRIPTION	PROJ. ID	APPR.
3	07/2017	SG	FERC SUPPLEMENTAL FILING		
2	04/2017	SG	AMENDMENT TO FERC		
1	01/2017	SG	ISSUE FOR FERC		
REVISIONS					

Division:		Op. Area:	
State: MISSOURI		Co./Par.: ST LOUIS COUNTY	
Section:	Township: ST. FERDINAND	Range:	
Dft: SG	Date: 03/2017	Scale: 1"=60'_XREF	
Chk: RJP	Date: 07/2017	Filename: RES-1004.DWG	
Appr:	Date:		

**SPIRE STL PIPELINE PROJECT
PROPOSED 24-INCH NORTH COUNTY EXTENSION
RESIDENTIAL SITE SPECIFIC
ST LOUIS COUNTY, MISSOURI**

PREPARED FOR		PREPARED BY	
Spire STL Pipeline		M MOTT MACDONALD	
RES-1004	Sheet: 1 of 1	Type: ACAD	3

G:\SPIRE\372453_STLOUISPIPELINE\DATA\PROD_FERC\WORK\DRAWING\RESIDENTIAL_SITE_SPECIFIC\RES-1004.DWG 9/21/2016 2:39 PM



Appendix 8-D
Land Use Mapping



Appendix 9-D
Pre-Construction Noise Survey Data

Site Number: _____ Description: **Chain of Rocks West**

Done By: _____
 Meter: _____

Monitoring Data: AM Peak Off-Peak PM Peak
 Date: 12/6/16
 Start Time: 6:57
 End Time: 7:12
 Duration: 15 MIN MIN MIN
 LAeq: 57.0

Traffic Data

Roadway	AM Peak	Off-Peak	PM Peak
Direction			
Traffic Total	<u>17</u>		
Cars	<u>13</u>		
MT	<u>4</u>		
HT	<u>-</u>		

Weather Conditions

Atmospheric data
 Wind Speed (mph)
10 mph out of East
 Temp. (°F)
39
 Humidity (%)
76
 Cloud Cover
97

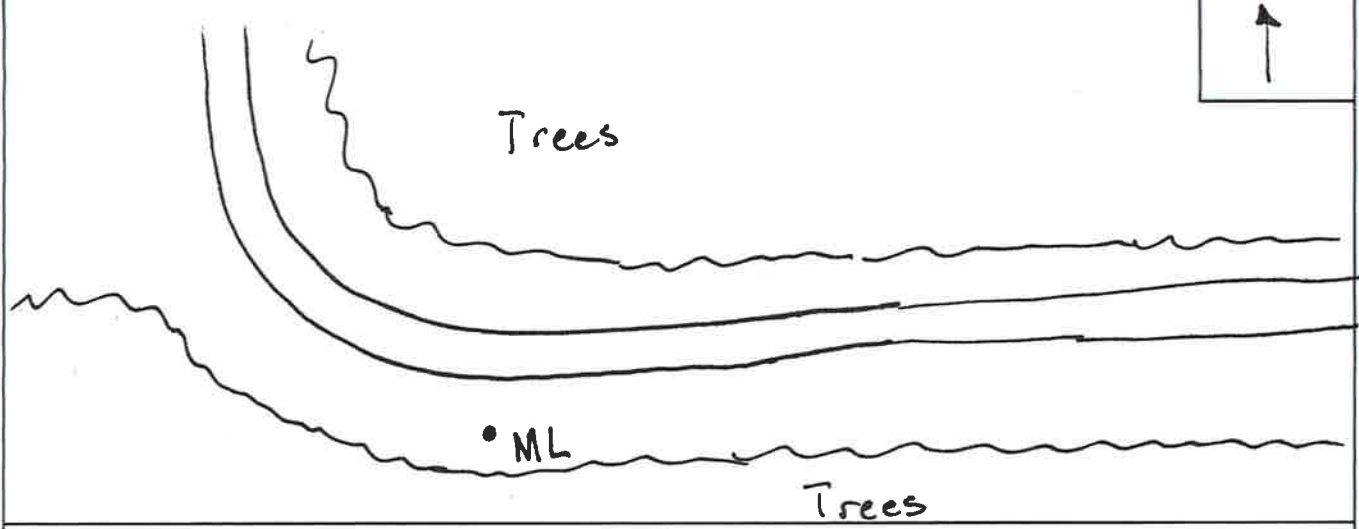
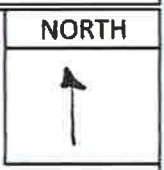
Notes: Traffic
Cars HT HT HT HT HT
MT HT HT HT

LAFMin: 37.5 dB
 LAFMax: 71.4 dB
 LAFEQ: 57.0 dB
 LAF90: 41.6 dB

Site Data: Site Surphase (Alpha): _____ Shielding Factor: _____ Pavment Type: _____

Calibration Details: _____

Plan View:



Profile View:



Site Number: Description: Chain of Rocks West

Done By: Meter:

Monitoring Data: AM Peak Off-Peak PM Peak

Date: 12/6/16
Start Time: 17:52
End Time: 18:07
Duration: 15 MIN
LAeq: 54.7

Traffic Data

Roadway
Direction
Traffic Total: 17
Cars: 13
MT: 3
HT: 1

Weather Conditions

Atmospheric data table with rows for Wind Speed (7 mph ESE), Temp. (40), Humidity (58), and Cloud Cover (100%).

Notes:

Car 12/11/16
MT 1/1
HT 1
LAFMin: 41.4 dB
LAFMax: 72.7 dB
LAFEQ: 54.7 dB
LAF90: 44.0 dB

Site Data: Site Surphase (Alpha): Shielding Factor: Pavment Type:

Calibration Details:

Plan View:

NORTH

See previous

Profile View:

See previous



Attachment 1
Biological Assessment
CONTAINS PRIVILEGED INFORMATION
(UNDER SEPARATE COVER)