

MRT Ameresco Landfill Interconnect Project Enable Mississippi River Transmission, LLC

Illinois Chorus Frog Conservation Plan

Prepared by:



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TABLE OF CONTENTS

1.0 INTRODUCTION..... 1

2.0 APPLICANT/PROJECT INFORMATION 1

2.1 AREA TO BE AFFECTED (IDNR CONSERVATION PLAN SECTION (1.A.) 1

2.2 BIOLOGICAL DATA (1. B.) 2

 2.2.1 Life History 2

 2.2.2 Habitat Characteristics 3

2.3 DESCRIPTION OF PROJECT ACTIVITIES (1. C.) 3

 2.3.1 Trenching 4

 2.3.2 Horizontal Directional Drills 4

 2.3.3 Conventional Bores 5

 2.3.4 Additional Workspace 5

2.4 IMPACTS TO SPECIES (1.D.) 5

 2.4.1 Habitat Impacts 5

 2.4.2 Direct Take 5

3.0 MINIMIZATION AND MITIGATION MEASURES (2)..... 6

3.1 MINIMIZATION (2.A.) 6

3.2 AVOIDANCE AND MINIMIZATION MEASURES 6

3.3 MANAGEMENT OF AREA (2.B.) 7

3.4 MITIGATION (2.C.) 7

3.5 MONITORING (2.D.) 8

 3.5.1 Construction Monitoring 8

 3.5.2 Post-construction Monitoring 8

3.6 ADAPTIVE MANAGEMENT (2.E.) 8

3.7 FUNDING (2.F.) 9

4.0 ALTERNATIVE ACTIONS (3) 9

4.1 NO-ACTION ALTERNATIVE (3) 9

4.2 CONSTRUCTION ALTERNATIVES 9

5.0 SURVIVAL AND RECOVERY OF SPECIES (4) 10

6.0 IMPLEMENTING AGREEMENT (5) 10

6.1 NAMES AND SIGNATURES (5.A.) 10

6.2 OBLIGATIONS AND RESPONSIBILITIES (5.B.) 12

 6.2.1 Schedule of Progress Reports 12

6.3 FEDERAL AUTHORIZATIONS (5.E.) 12

7.0 SOURCES 13

LIST OF TABLES

Table 2.1 -1 Project Site Public Land Survey System Locations..... 2

LIST OF APPENDICES

APPENDIX A	SITE PLAN
APPENDIX B	SITE PHOTOS
APPENDIX C	AGENCY CORRESPONDENCE

LIST OF ACRONYMS AND ABBREVIATIONS

HDD	Horizontal Directional Drill
ICF	Illinois Chorus Frog
IDNR	Illinois Department of Natural Resources
INHS	Illinois Natural History Survey
INAI	Illinois Natural Areas Inventory
ITA	Incidental Take Authorization
MRT	Enable Mississippi River Transmission, LLC
RNG	Renewable Natural Gas

1.0 INTRODUCTION

Enable Mississippi River Transmission, LLC (MRT) is proposing to install approximately 8 miles of new 4.5-inch outer diameter steel pipe from the proposed Ameresco Renewable Natural Gas (RNG) facility at Republic Services landfill in Roxana, Illinois to the existing MRT 18-inch East Line in Madison County, Illinois (Project). Merjent, Inc. developed this Conservation Plan on behalf of MRT to estimate the potential impacts of the Project to Illinois chorus frog (*Pseudacris illinoensis*; ICF) and detail the avoidance and minimization measures developed for the Project to reduce impacts to ICF.

MRT is applying for an Incidental Take Authorization (ITA) from the Illinois Department of Natural Resources (IDNR) to address potential impacts to ICF from preconstruction testing and construction of the Project. MRT requests coverage from the start of preconstruction testing in Quarter 1 of 2024 for the duration of 1 year to complete construction. If MRT delays construction, they would request ITA coverage for one year from the start of construction.

2.0 APPLICANT/PROJECT INFORMATION

PROJECT APPLICANT: Enable Mississippi River Transmission, LLC

PROJECT NAME: MRT Ameresco Landfill Interconnect Project

COUNTY: Madison County

AREA OF IMPACT (acreage): Total Project workspaces: 90.7 acres

Project workspace within ICF Habitat: 26.3 acres

2.1 AREA TO BE AFFECTED (IDNR CONSERVATION PLAN SECTION (1.A.))

A description of Public Land Survey Sections crossed by the Project is provided in Table 2.1-1 and a site plan of the Project is included in Appendix A. Photos of the Project area are provided in Appendix B. A shapefile of the Project has been provided to the IDNR with the submission of this conservation plan. MRT is in the process of obtaining easements for a permanent right-of-way and temporary workspace for the Project route shown in Appendix A.

The total Project length from the Ameresco RNG facility in Roxana, IL to the MRT East Line is approximately 8.0 miles with a total workspace (including access roads, temporary, and extra temporary workspace) of 90.7 acres. The Project will cross approximately 2.8 miles (14,678 linear feet) of the Poag Terrace Illinois Natural Areas Inventory (INAI) Site, which supports a known population of ICF. The Poag Terrace INAI Site includes breeding and nonbreeding habitat for ICF. Project workspaces within the Poag Terrace INAI Site total 26.3 acres. The extent of the Poag Terrace INAI Site in relation to the Project is shown in Appendix A.

Prior to construction, MRT will complete excavations as part of required preconstruction testing, resulting in a maximum of 1.3 acres of temporary ICF habitat disturbance. Project construction impacts within the Poag Terrace INAI Site will be temporary in nature with no permanent aboveground facilities or new access roads proposed. The Project will install the majority of pipe in this area (12,830 feet) using the open-cut method; the trench will be approximately 12 to 24-inches wide. For the purposes of impact calculations, a 24-inch-wide trench was assumed throughout the Project. Approximately 1,848 feet of pipe will be installed via conventional bore or

horizontal directional drill (HDD; see Section 2.3 for further description of construction methods). As use of conventional bores and HDDs will avoid disturbance of ICF habitat (see Section 2.3), MRT assumes the total area of disturbance to ICF habitat will only include preconstruction testing areas and open-trench installation areas where portions of the right-of-way will be graded. Disturbance in these areas will be temporary. Therefore, for the purposes of this Conservation Plan, MRT assumes that the total area of habitat disturbance from construction within the Poag Terrace INAI Site will be 6 acres.

TABLE 2.1-1
Project Site Public Land Survey System Locations

Township	Range	Sections
3 North	8 West	1
	9 West	6
4 North	8 West	5, 6, 7, 8, 18, 19, 30, 31
	9 West	13
5 North	8 West	32

2.2 BIOLOGICAL DATA (1. B.)

The ICF is a small frog listed as “threatened” in the State of Illinois. The species reaches an average of 1.5 inches in length and develops dark spots along its body and mask-like marking across its eyes. The overall body color is tan to olive green (IDNR, n.d.).

ICF are found within west central and southwestern Illinois in areas of sand plains and sandy prairies. Habitat loss due to human development, especially agriculture, has restricted the frog’s range over time, and they are now found only in Missouri, Arkansas, and Illinois. ICF have been documented within agricultural fields, though the full extent of their use is currently unknown (INHS, 2017).

2.2.1 Life History

Adult ICF spend the majority of their life buried underground within sandy soils. Using their stout forelimbs, ICF burrow head-first down to documented depths of 1 inch to 9 inches below the surface, depending on soil conditions (Brown et al., 1972). Due to their fossorial nature, little is known about the behavior of ICF within their burrows, though it is believed that they are able to feed underground. Prey (small invertebrates) are likely eaten as encountered or hunted by detecting vibrations or chemical signals (Brown, 1972; Narins, 1990).

ICF emerge in the late winter (February) to spring of each year to breed on the surface. Male frogs congregate in ponds, wetlands, and flooded fields to attract females with nightly “choruses” of calls (Owen & Tucker, 2006). After selecting a mate, females lay egg clusters on submerged vegetation which are then covered in silt and debris, likely helping protect the vulnerable eggs (Tucker, 1997). No parental care is given to eggs or eventual tadpoles (INHS, 2017).

After a few days, ICF eggs hatch into tadpoles, the aquatic phase for juvenile frogs. ICF tadpoles feed on what is available within their breeding pools: vegetation, suspended matter, and even other ICF tadpoles if necessary (McCallum & Trauth, 2001). Approximately 60 days after hatching, ICF tadpoles begin metamorphosis, developing legs, losing their tails, and moving onto land.

Metamorphosis typically occurs in late May to early June (Tucker, 1995). Most ICF juveniles disperse to new areas at least 0.5 mile away from their pond of origin to begin the fossorial stage of their adult lives (Tucker & Phillip, 1995). ICF are capable of breeding after one year of growth (Tucker, 1995).

2.2.2 Habitat Characteristics

Within Illinois, ICF populations are found in three separate sandy floodplain regions: northern, central, and southern. The Project is located within the central region associated with the Mississippi River. The sandy soils in this area are essential to the fossorial stage of ICF life; loose soils such as sand, sandy loams, or loamy sands allow for easy burrowing (Brown & Rose, 1978). Suitable areas include sparsely vegetated blow outs, sand prairies, and old fields where plant roots do not prevent burrowing (INHS, 2017). Burrowing habitat must provide subterranean invertebrate populations for feeding (Brown, 1972).

Also essential to ICF habitat is the proximity of suitable breeding ponds. Such “ponds” may also include wetlands, ditches, large puddles, or flooded fields. These areas are typically ephemeral, which prevents the establishment of fish populations which may feed on ICF eggs and tadpoles (Tucker & Phillip, 1994). Ponds must also retain water long enough to allow for tadpole growth and metamorphosis. Suitable breeding habitat must also contain vegetation for male frogs to call from, for female frogs to attach egg clusters to, and tadpoles to shelter amongst and feed on (Tucker, 1997; McCallum et al., 2006).

Variable climate and weather conditions can affect availability of breeding habitat each year. Unfavorable conditions may result in zero productivity in an ICF population for the entire year. A study of a Madison County ICF population found that tadpoles successfully grew into frogs and returned to breed the next year in only 8 out of 16 years studied (Tucker et al., 2008). Availability of breeding habitat across a landscape is important for long term population stability to combat breeding failures within individual breeding ponds (Betz, 1993).

2.3 DESCRIPTION OF PROJECT ACTIVITIES (1. C.)

The Project will entail installation of approximately 8 miles of new 4.5-inch outer diameter steel pipe, associated meter station, and temporary contractor yard (Appendix A). For the purposes of this Conservation Plan, a total, 26.3 acres of potential ICF habitat within the Poag Terrace INAI Site is estimated be used as Project workspace, with an additional approximately 1.3 total acres of habitat impacted by preconstruction testing, trenching, drilling, or boring. Actual workspace and impact acreage may be further reduced based on agency feedback, additional landowner requests, or conditions during construction; however, it is not anticipated that the workspace, or impacts, would be larger. Specific construction methods are described further in Sections 2.3.1-4.

MRT assumes that ICF is present within the Poag Terrace INAI Site year-round. Soils within the INAI Site are suitable fossorial habitat for ICF and the species has been observed during the breeding season as recently as 2022 per data provided by the IDNR. Since the Project will involve ground disturbance and vehicle traffic within known ICF breeding habitat and assumed fossorial habitat, incidental take of ICF may occur.

During the ICF breeding season (February to April), adult frogs emerge from fossorial habitat and migrate to breeding ponds. ICF individuals are at risk of direct take from vehicle strikes while migrating between habitats. As ICF congregate within breeding ponds they are susceptible to

siltation from construction activities occurring nearby that could impact breeding pond hydrology. This may result in the take of adult frogs during the breeding season, and eggs and juvenile ICF during their growth period within breeding ponds (February to July).

From April to February, adult ICF are buried underground. Project activities involving ground disturbance including trenching and excavations of bore pits may result in direct take of ICF while in fossorial habitat.

2.3.1 Trenching

Approximately 12,830 feet of the pipe within the Poag Terrace INAI site will be constructed using the open-cut method. This method involves using a backhoe or ditching machine to excavate a trench to sufficient depths to provide a minimum of 3 feet of cover over the pipeline, pursuant to 49 CFR Part 192 of the U.S. Department of Transportation regulations. Should it become necessary to remove water from the trench, it will be pumped to an off-right-of-way, stable, well-vegetated upland area (where practical) and/or filtered through a filter bag or siltation barrier in accordance with the Federal Energy Regulatory Commission's Plan and Procedures. Once the trench is prepared for installation, a prefabricated segment of pipeline will then be placed into the trench using an excavator or sideboom tractor. As noted in Section 3.2, during backfilling, subsoil material removed from trenches during construction will be placed back into the trench. Segregated topsoil will be returned to its original horizon over the backfilled trench.

Within the Poag Terrace INAI Site, the Project will cross Cahokia Creek using the open-cut method at one location. As Cahokia Creek is a perennial waterbody, the hydrological conditions are not suitable for ICF breeding habitat, and so disturbance of ICF breeding habitat and take of ICF is not anticipated within the creek. MRT will implement sediment and erosion control measures at these crossings to ensure the water quality of Cahokia Creek is protected.

2.3.2 Horizontal Directional Drills

To reduce impacts to ICF habitat, MRT has revised the construction methods to incorporate four HDDs within the Poag Terrace INAI Site. MRT added three HDDs to cross three wetlands and one pond that are within documented ICF breeding areas within the Poag Terrace INAI Site. An additional wetland that may contain suitable breeding habitat (but currently has no documented ICF observations) has also been avoided by HDD (for HDD locations, see Appendix A). HDDs install pipe without disturbing surface features such as wetlands and waterbodies or shallow subsurface features such as ICF fossorial habitat by traversing beneath these features. This method involves setting up drilling equipment on either side of the HDD segment and drilling a pilot hole under features to be crossed. The pilot hole is subsequently enlarged by successive reaming until the hole is large enough to accommodate the pipe. Throughout the process of drilling and enlarging the hole, a slurry (drilling mud) made of naturally occurring non-toxic materials, such as bentonite clay and water, will be circulated through the drilling tools to lubricate the drill bit, remove drill cuttings, and hold the hole open. Pipe sections long enough to span the entire crossing will be staged and welded along the construction work area and then pulled through the drilled hole.

This HDD method requires construction workspace for the HDD entry and exit points, but avoids impacts on the feature being crossed, with the exception of limited hand clearing of vegetation, as needed, to lay the HDD guide wire. To tie-in to the existing pipeline, the two ends of the pipeline will be installed by the open-cut method, between the origin of the pipeline segment and the HDD entry pit and between the HDD exit pit and the terminus of the pipeline segment. In the event of

an inadvertent release, or release of drilling mud, during HDD activity, the Project will implement measures detailed in its HDD Contingency Plan.

2.3.3 Conventional Bores

To further reduce impacts to ICF habitat, MRT is proposing two conventional bores within the Poag Terrace INAI Site at two separate road crossings (see Appendix A). The conventional bore construction method involves excavating a bore pit on both sides of the feature to be crossed. A boring machine is lowered to the bottom of the bore pit to tunnel using a cutting head mounted on an auger. The auger rotates through a bore tube, both of which are pushed forward as the hole is cut. The pipeline is then installed through the bored hole and welded to the adjacent pipeline. Similar to an HDD, a bore avoids impacts to the surface feature being crossed.

2.3.4 Additional Workspace

MRT is in the process of obtaining a 30-foot-wide easement for the entire length of the Project with 75-foot-wide temporary workspace for construction (inclusive of permanent easement). At two locations where potential breeding habitat is present along the Project route, temporary workspace has been necked down to avoid potential breeding habitat. Additional temporary workspace has been added at these locations, outside of breeding habitat, and at bore and HDD entry and exit points (see Appendix A). All workspaces may be used for travel along the Project right-of-way, staging of materials and equipment, and storage of excavated soils. Within the 30-foot-easement, 16 feet of right-of-way will be graded during construction to allow for a safe, stable surface for equipment travel, soil storage, and pipe installation. Grading will not occur where pipe will be installed via HDD or conventional bore.

2.4 IMPACTS TO SPECIES (1.D.)

As detailed in Section 2.2, the life cycle of ICF can be divided into 3 life stages: breeding (February through April), larval and metamorphosis (March to July), and fossorial (April to February). Project work may occur throughout the year and so each life stage of ICF may be impacted depending on construction schedule either through impacts to habitat or direct take of ICF.

2.4.1 Habitat Impacts

All suitable wetlands and waterbodies within the Poag Terrace INAI site will be crossed using an HDD to avoid impacts to breeding habitat. Impacts to potential fossorial habitat within uplands will be unavoidable as part of the permanent easement will be graded and pipe will be installed via the open-cut method, which may temporarily disturb fossorial ICF habitat for work taking place between April and February. Grading of the Project right-of-way may also disturb fossorial habitat during construction.

2.4.2 Direct Take

Ground disturbing activities during the fossorial stage of ICF may result in direct take of ICF while ICF are in upland habitats. Direct take due to vehicular strikes may also result during the breeding season while ICF migrate from burrows to breeding ponds. The presence and density of ICF is difficult to predict due to their fossorial nature for most of the year. Presence and density within breeding habitat is also variable year to year based on availability of suitable wetlands and waterbodies for breeding. Due to these uncertainties, MRT conservatively estimates that Project

activities will result in take 0 to 40 individual ICF. MRT is committed to implementing the measures laid out in Section 3.0 to minimize impacts and potential for direct take of ICF.

3.0 MINIMIZATION AND MITIGATION MEASURES (2)

3.1 MINIMIZATION (2.A.)

The Project has minimized, to the extent possible, the acreage of disturbance within ICF suitable habitat to reduce risk to ICF. The Project was routed in previously disturbed agricultural areas to the extent possible as determined by landowner permissions. Additionally, where allowed by site conditions and landowner permission, MRT has routed the Project to avoid potential breeding ponds and wetlands. No facilities or new roads have been sited within the Poag Terrace INAI Site in order to avoid permanent impacts to ICF habitat.

MRT has re-designed the Project to cross all wetlands and waterbodies suitable for ICF breeding habitat within the Poag Terrace INAI site via HDD. Workspaces near ICF breeding habitat have been necked down to further avoid impacts to ICF and silt fencing will be installed to prevent sedimentation of wetlands and waterbodies and exclude ICF from Project workspaces. Additionally, MRT will HDD or conventional bore eight locations crossing waterbodies and wetlands as allowed by site conditions and landowner permissions outside of the Poag Terrace INAI Site where ICF populations have not been recorded by the IDNR but could contain potential breeding habitat (Appendix A). As it is possible that ICF are present outside of the Poag Terrace INAI Site, MRT has committed to installing silt fence at wetland crossings in these areas where drills are not feasible (due to landowner or site conditions) to reduce the potential for ICF to enter the construction workspace.

3.2 AVOIDANCE AND MINIMIZATION MEASURES

Full mitigation measures will be coordinated with the IDNR; however, MRT has committed to the following minimization and avoidance measures:

1. Where feasible, the Project has been re-designed to directionally drill breeding ponds, wetlands, and waterbodies to prevent impacts to ICF breeding habitat and minimize impacts to water quality.
2. The laydown/staging yard has been located outside of the Poag Terrace INAI Site and will be sited to avoid areas of sandy soil and drainage ditches to the extent practicable.
3. The Project will adhere to the soil erosion and sediment control measures laid out in the Federal Energy Regulatory Commission's Plan and Procedures.
4. Silt fencing will be placed and maintained around wetlands and waterbodies within the Project right-of-way during construction. Silt fencing will be trenched 6 inches into the ground to prevent burrowing herptiles from reaching the workspace.
5. Where the Project is adjacent to wetlands or waterbodies outside of the Project workspace silt fencing and other erosion control methods will be installed along the extent of the Project workspace adjacent to those wetlands and waterbodies. Erosion control measures will be maintained in proper working order to prevent sediment from flowing into wetlands and waterbodies. Silt fencing will also help redirect and prevent entry of ICF into Project workspaces.
6. During construction occurring between February 1 and April 30, boards will be placed as ramps within any trenches left unfilled overnight to avoid trapping ICF and other wildlife. A biological monitor will inspect trenches each morning prior to resuming construction work for the presence of ICF and other wildlife.

7. The biological monitor will apply for a Herptile Permit from the IDNR in order to handle any non-listed amphibians and reptiles that may be observed during construction monitoring.
8. During backfilling, subsoil material removed from trenches during construction will be placed back into the trench. Segregated topsoil will be returned to its original horizon over the backfilled trench.
9. To minimize risk to ICF, construction work hours from February 1 to April 30 will stop prior to sunset each day to avoid the main activity hours of ICF.
10. All Project personnel will attend an environmental and ICF-awareness training led by a qualified biologist prior to engaging in construction work. The awareness training will cover avoidance and minimization measures for the Project regarding ICF and identification of the species.
11. A biological monitor will be present on the Project within the Poag Terrace INAI Site throughout preconstruction testing, the ICF breeding season (February 1 through April 30) and weekly for the remainder of construction. The biological monitor will notify the IDNR and MRT if more than two adult ICF are discovered within Project activity limits within 24 hours of each other and provide weekly email progress summaries to the IDNR during the breeding season.
12. If more than two adult ICF are discovered within Project activity limits within 24 hours of each other, MRT will consult with the IDNR about implementing additional monitoring or avoidance measures for the Project.
13. Observations of state or federally protected species, including ICF, made at the Project site will be reported to the IDNR within 48 hours.
14. A final construction monitoring report with methods, photographs of sediment and erosion controls and avoidance and minimization measures, summary of monitoring logs, and documentation of ICF observations, will be provided to the IDNR within 90 days of construction completion.
15. Following construction, call surveys targeting ICF will be completed targeting breeding ponds within 0.3-mile of the Project right-of-way, where landowner permission is granted, for two of five years. If rainfall levels are significantly lower than average, MRT will confer with the IDNR about postponing surveys to more typical precipitation conditions.
16. For mowing activities completed by MRT, mower blades will be set no lower than 6 inches. Mowing completed during above-ground seasons for ICF (February through July) will occur after sunrise and prior to sunset.
17. For any pesticide or herbicide applications completed by MRT, application will not occur within 48 hours of a rain event.
18. The Project area will be restored to the same habitat types as were present prior to construction. Disturbed areas will be reseeded, and turf/sod grass will not be installed in new areas post-construction to avoid entombing ICF.

3.3 MANAGEMENT OF AREA (2.B.)

Impacts to ICF breeding ponds and wetlands will be avoided and minimized during construction. Construction and operation of the Project will avoid impacts to breeding habitat within the Project right-of-way. MRT will restore existing habitat to the same vegetation as was present pre-construction, so no permanent loss of existing ICF habitat will occur.

3.4 MITIGATION (2.C.)

MRT will mitigate for potential take of ICF during Project construction by providing mitigation funds for the conservation of the species to the Illinois Wildlife Preservation Fund or The Conservation Fund as determined by the IDNR. As noted in Section 2.1, a known population of ICF occurs

within the Poag Terrace INAI Site with the entirety of the site containing a mixture of suitable breeding and fossorial habitat for ICF. As described in Section 2.1, the Project will temporarily impact 6 acres within the Poag Terrace INAI Site (1.3 acres due to preconstruction testing and 4.7 acres for pipeline construction). With the implementation of avoidance and mitigation measures detailed in Section 3.2, all impacts will be temporary in nature and permanent impacts to ICF habitat will be avoided.

As determined by the IDNR, mitigation is expected to provide conservation benefit 5.5 times larger than the original adverse impact. With the conservation benefit ratio applied to the anticipated disturbance of 6 acres, the acreage total is 33 acres.

Based on sales data provided by the Realty Division of the IDNR from the last three years for land within Madison County within the same township (Edwardsville) or adjacent townships (Nameoki, Fort Russell, Wood River, Collinsville, Chouteau, and Granite City), the average land value is \$8,099 per acre. Given this, MRT will furnish \$267,267, earmarked for ICF conservation, to the Illinois Wildlife Preservation Fund or The Conservation Fund as determined by the IDNR.

3.5 MONITORING (2.D.)

3.5.1 Construction Monitoring

A biological monitor will be present on the Project within the Poag Terrace INAI Site for the preconstruction testing, throughout the ICF breeding season (February 1 through April 30), and weekly during construction outside of the breeding season. The biological monitor will respond to ICF sightings that occur within the Project site during the breeding season and on-call for the remainder of construction. The biological monitor will perform environmental awareness training, inspect trenches and silt fences, and document compliance with avoidance and minimization measures. The biological monitor will submit weekly reports as outlined in Section 6.2.1.

3.5.2 Post-construction Monitoring

Following completion of construction, call surveys for ICF will be conducted targeting breeding ponds within 0.3 mile of the Project right-of-way, where landowner permission is granted, for two of five years. If rainfall levels are significantly lower than average, MRT will confer with the IDNR about postponing surveys to more typical precipitation conditions. As the ICF population within Poag Terrace has been previously documented, presence is assumed, and no pre-construction surveys are proposed. Post-construction monitoring is intended to collect data and document current ICF presence and will not be used to require additional mitigation or restoration activities.

With 90 days of completion of construction, MRT will submit a final construction monitoring report with methods, photographs of sediment and erosion controls and avoidance and minimization measures, summary of monitoring logs, and documentation of ICF observations.

3.6 ADAPTIVE MANAGEMENT (2.E.)

The goal of adaptive management is to enable Project response to unanticipated issues or events documented during monitoring over the term of the ITA, which may occur throughout construction of the Project.

In the event that Project impacts are greater than the anticipated acreages presented in this Conservation Plan, MRT will consult with the IDNR to determine appropriate avoidance or

minimization measures that should be implemented for the Project. Additional impacts may result from work necessary to meet goals of landowner Agriculture Impact Mitigation Agreements; however, soil types within the project area are not prone to compaction, so deep ripping in agricultural land is not anticipated.

If more than two adult ICF are discovered within 24 hours of each other within Project activity limits, MRT will consult with the IDNR about implementing additional monitoring or avoidance measures in that area.

The adaptive management plan detailed here will be implemented throughout Project construction to continue to provide avoidance, minimization, and mitigation measures that effectively reduce potential impacts to ICF.

3.7 FUNDING (2.F.)

The Project is being funded by MRT, which has adequate funds to construct and operate all aspects of the Project. Prior to the start of construction monitoring and postconstruction monitoring, MRT will provide the IDNR will a letter certifying that a qualified monitoring firm has been contracted to complete Project monitoring. Within one year of receipt of the ITA, MRT will provide the mitigation funding described in Section 3.4 to the Illinois Wildlife Preservation Fund or The Conservation Fund as determined by the IDNR.

4.0 ALTERNATIVE ACTIONS (3)

4.1 NO-ACTION ALTERNATIVE (3)

A no-action alternative would result in no pipeline being constructed between the Ameresco RNG facility at Republic Services' Roxana landfill and the MRT 18-inch East Line in Madison County, Illinois. The Project provides an efficient use for biogas (majority of which is methane) produced at the Roxana landfill that would otherwise go directly into the atmosphere, contributing to greenhouse gas emissions and local smog. The Ameresco RNG Facility, currently under construction, will capture and clean this gas for beneficial use as a natural gas energy source and benefit the local population by reducing local emissions (Ameresco, 2023). If the Project is not constructed, the Ameresco RNG Facility will not have a distribution option for its renewable natural gas, reducing the beneficial impacts such as construction jobs, reduced landfill emissions, and new resources for renewable natural gas. Ameresco would look for another pipeline company to build a pipeline to their RNG facility to receive the natural gas it produces. Due to the delays of that process, Ameresco would likely utilize a virtual pipeline in the meantime, which involves trucking the gas to a pipeline that can accept gas in that method. This would result in additional air emissions due to trucking activity which would adversely affect local air quality.

4.2 CONSTRUCTION ALTERNATIVES

The initial Project design proposed installation of the pipe via the open-cut method except at road crossings. Based on additional information provided by the IDNR and to reduce impacts to the ICF, MRT re-designed the construction footprint and methods to include conventional bores and HDDs to prevent or reduce impacts to ICF habitat within the Poag Terrace INAI Site. Workspaces have been necked down and silt fencing will be implemented where workspaces will cross or are adjacent to wetlands and waterbodies to prevent sedimentation of ICF habitat and prevent ICF from entering Project workspaces. Additionally, eight crossings via conventional bore or HDD will be implemented outside of the Poag Terrace INAI Site to avoid wetlands and waterbodies that

could provide suitable, though currently unknown, habitat for ICF (Appendix A), along with silt fencing installed at wetlands crossings outside of the Poag Terrace INAI sites where drills are not feasible due to landowner or site conditions. As the Project was routed to comply with landowner agreements and conservation easements, alternative routes are not available, but MRT has instituted avoidance to the greatest extent possible for ICF.

5.0 SURVIVAL AND RECOVERY OF SPECIES (4)

The Project will not reduce the likelihood of the survival of ICF within the state of Illinois. Impacts to suitable ICF habitat are temporary and have been minimized to the extent possible, including avoidance of impacts to potential breeding ponds. The Project area will be restored to its previous conditions, resulting in no net loss of habitat for ICF. As the Project will only impact a small portion of the Poag Terrace INAI Site, the majority of the site will not be impacted and continue to provide suitable breeding and fossorial habitat for the species.

Further, due to ICF's dependence on specific, suitable habitat conditions, individual populations of the species do not successfully breed each year. At a study site within Madison County that underwent restoration activities, ICF bred approximately 62% of 16 years, with successful recruitment of new frogs at only 50% across the 16 years (Tucker et al., 2008). Impacts based on climate conditions, precipitation levels, and nearby farming activity vary each year for the ICF population within the Project area, and as stated above, the Project will impact a relatively small portion of the Poag Terrace INAI Site. Given this, it is expected that ICF will continue its variable breeding rates each year following the Project and continue to persist.

Additionally, MRT will furnish a total of \$267,267 to the Illinois Wildlife Preservation Fund or The Conservation Fund as determined by the IDNR, earmarked for uses related to the conservation of ICF. This funding will further aid recovery of the species.

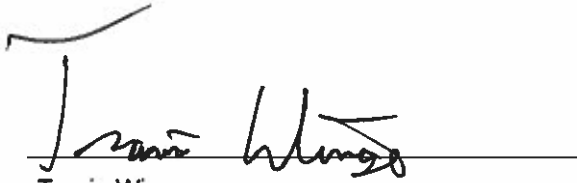
6.0 IMPLEMENTING AGREEMENT (5)

MRT will be responsible for implementing this Conservation Plan. The parties noted in Section 6.1 certify their legal authority to carry out their respective responsibilities under this Conservation Plan and comply with all other applicable federal, state, and local regulations.

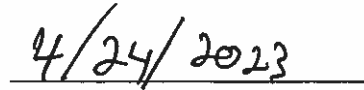
6.1 NAMES AND SIGNATURES (5.A.)

The names and signatures of participants for this Conservation Plan are included here.

The undersigned certify their legal authority to carry out their respective responsibilities under this Conservation Plan and comply with all other applicable federal, state, and local regulations.



Travis Wingo
Project Director



Date



Bryan Greer
Staff Engineer



Date

6.2 OBLIGATIONS AND RESPONSIBILITIES (5.B.)

MRT will be responsible for implementing the Conservation Plan. The obligations and responsibilities of the above parties include:

- Implementing the avoidance and minimization measures described in Section 3.0;
- Providing weekly construction progress reports to the IDNR;
- Consulting with the IDNR if more than two adult ICF are discovered within Project activity limits within 24 hours of each other to implement additional monitoring or avoidance measures for the Project;
- Reporting all sightings of state and federally protected species within the Project area to the IDNR within 48 hours;
- Provide a final construction monitoring report within 90 days of completion of construction;
- Conducting post-construction monitoring; and
- Providing mitigation funding to the Illinois Wildlife Preservation Fund or The Conservation Fund as determined by the IDNR as described in Section 3.4.

6.2.1 Schedule of Progress Reports

Throughout construction, the biological monitor will document Project progress and compliance with avoidance and minimization measures. MRT will email progress summaries to the IDNR on a weekly basis during the breeding season. Within 90 days of completion of construction, MRT will submit a final construction monitoring report with methods, photographs of sediment and erosion controls and avoidance and minimization measures, summary of monitoring logs, and documentation of ICF observations.

6.3 FEDERAL AUTHORIZATIONS (5.E.)

The U.S. Fish and Wildlife Service provided concurrence for the Project on March 8, 2023 (Appendix C; no federal authorization for take was required for the Project). If additional species are listed under the federal Endangered Species Act or the Project scope changes, MRT will reinitiate consultation with the U.S. Fish and Wildlife Service.

7.0 SOURCES

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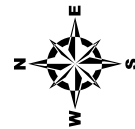
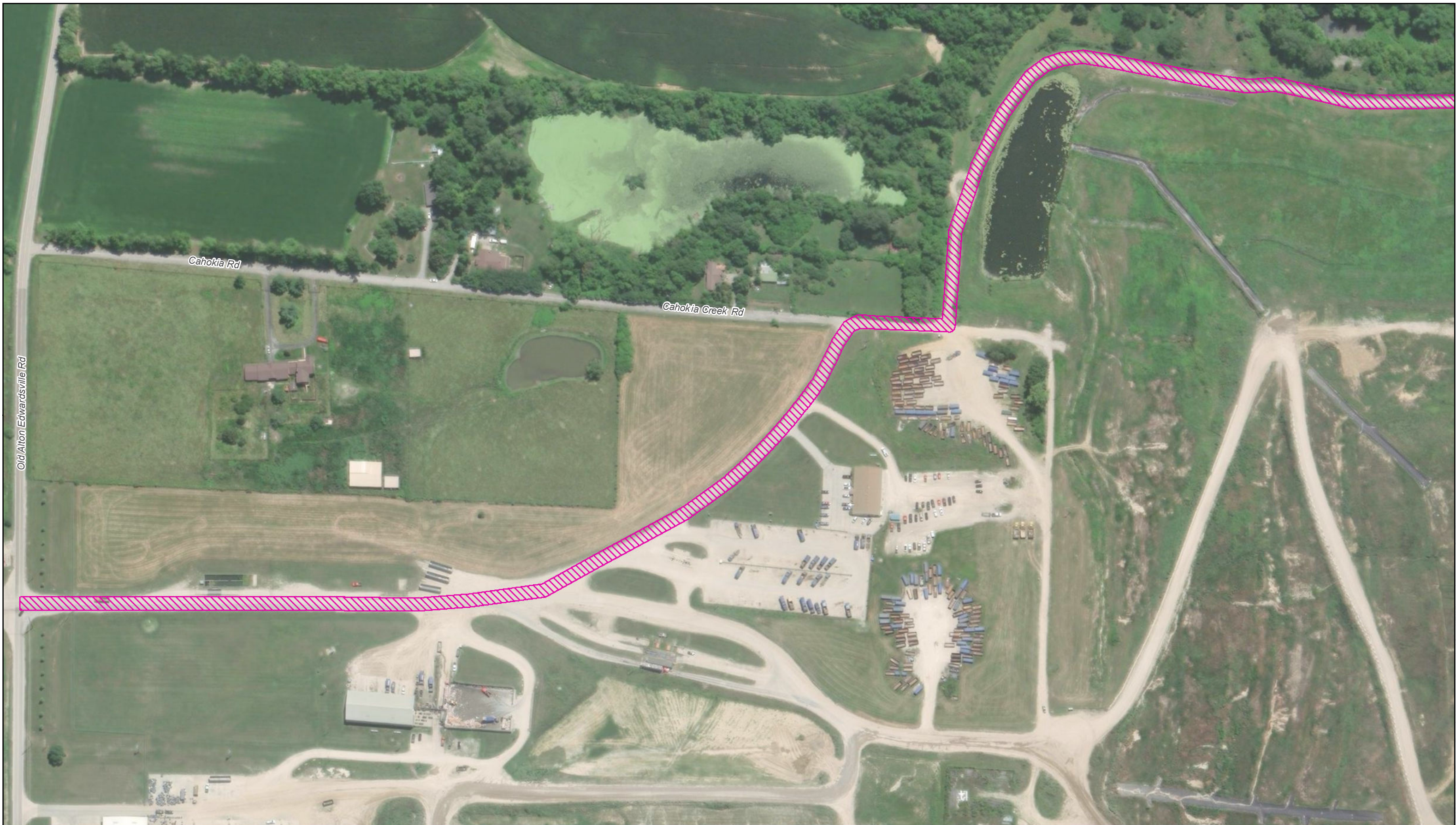
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Appendix A

Site Plan

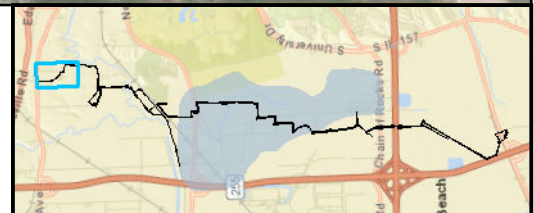


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 Feet
 1 inch = 200 feet

For Environmental Review Purposes Only

Site Plan
Enable Mississippi River Transmission, LLC
MRT Ameresco Landfill Interconnect Project
Madison County, Illinois

- Railroad
- Proposed Bore Install
- Proposed HDD Install
- Proposed Trench Install
- Permanent Workspace
- ATWS
- Access Road
- Facility
- Temporary Workspace
- Delineated Stream
- Delineated Wetland
- Delineated Open Water
- Poag Terrace



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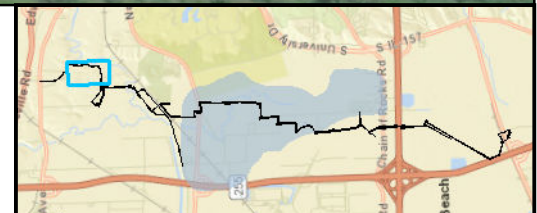
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1 inch = 200 feet

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Site Plan
Enable Mississippi River Transmission, LLC
MRT Ameresco Landfill Interconnect Project
Madison County, Illinois

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| —+— Railroad | ▨ ATWS | ○ Delineated Stream |
| —●— Proposed Bore Install | ▨ Access Road | ○ Delineated Wetland |
| —■— Proposed HDD Install | □ Facility | ○ Delineated Open Water |
| —■— Proposed Trench Install | ⊠ Temporary Workspace | ■ Poag Terrace |
| ■ Permanent Workspace | | |





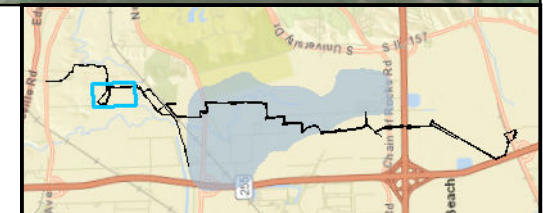
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Site Plan
Enable Mississippi River Transmission, LLC
MRT Ameresco Landfill Interconnect Project
Madison County, Illinois

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| —+— Railroad | ▨ ATWS | ● Delineated Stream |
| —●— Proposed Bore Install | ▨ Access Road | ● Delineated Wetland |
| —■— Proposed HDD Install | ▨ Facility | ● Delineated Open Water |
| —■— Proposed Trench Install | ▨ Temporary Workspace | ■ Poag Terrace |
| ■ Permanent Workspace | | |





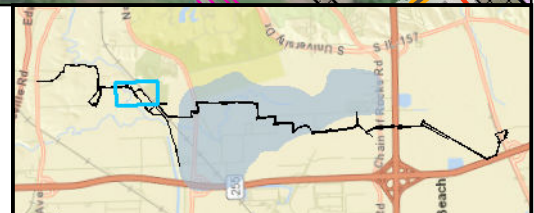
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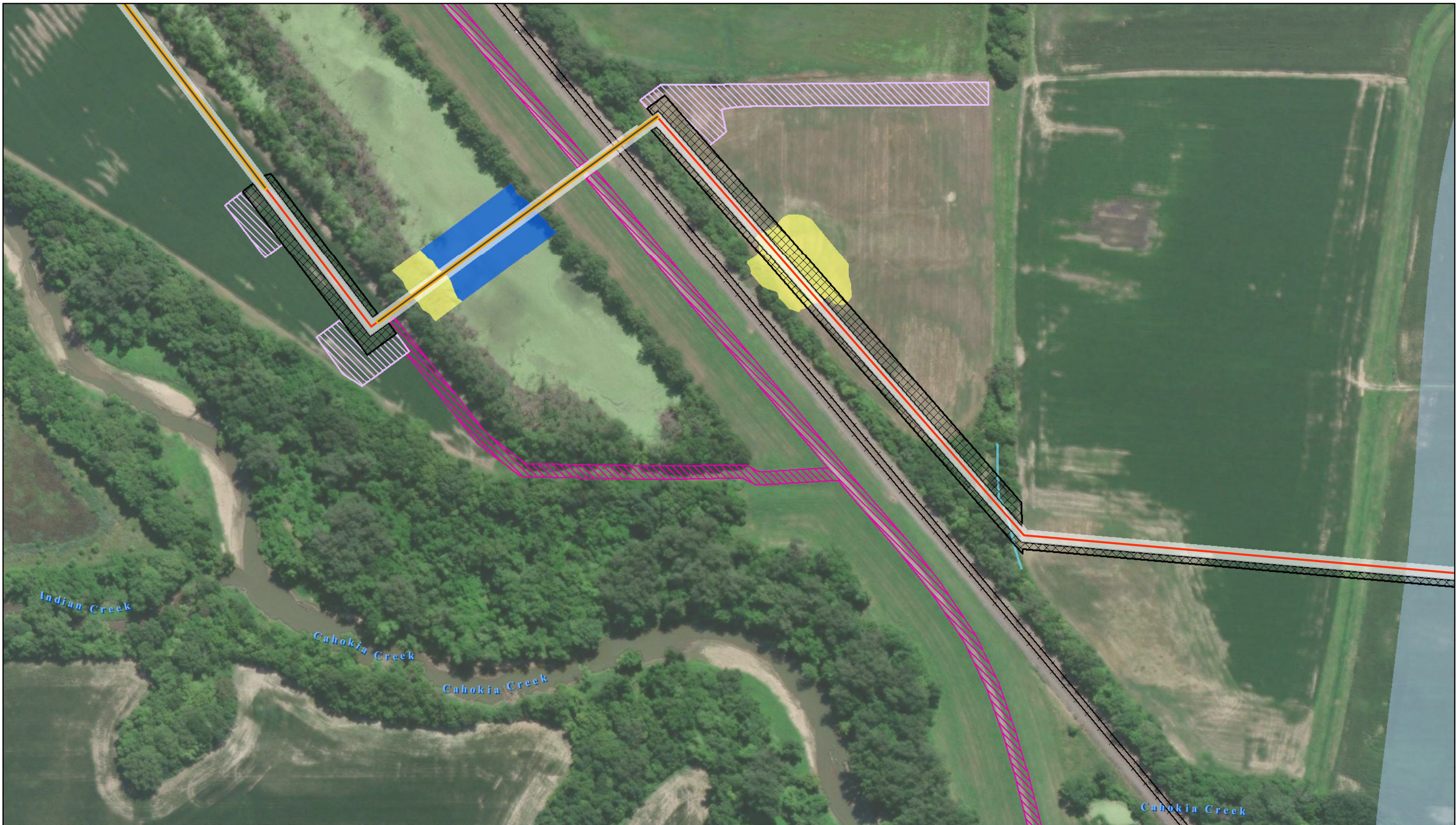
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Enable Mississippi River Transmission, LLC
MRT Ameresco Landfill Interconnect Project
Madison County, Illinois

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MRT Ameresco Landfill Interconnect Project
Madison County, Illinois

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- Delineated Wetland
- Delineated Open Water
- Poag Terrace





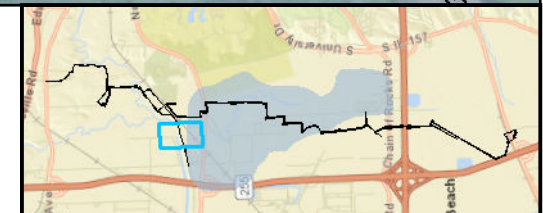
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MRT Ameresco Landfill Interconnect Project
Madison County, Illinois

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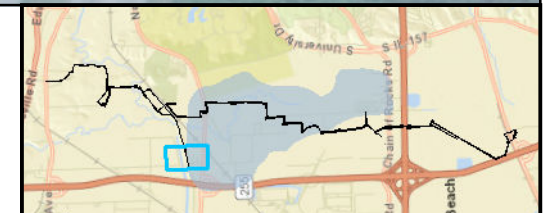


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Site Plan
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MRT Ameresco Landfill Interconnect Project
Madison County, Illinois

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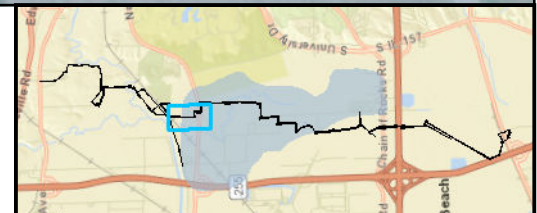
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Enable Mississippi River Transmission, LLC
MRT Ameresco Landfill Interconnect Project
Madison County, Illinois

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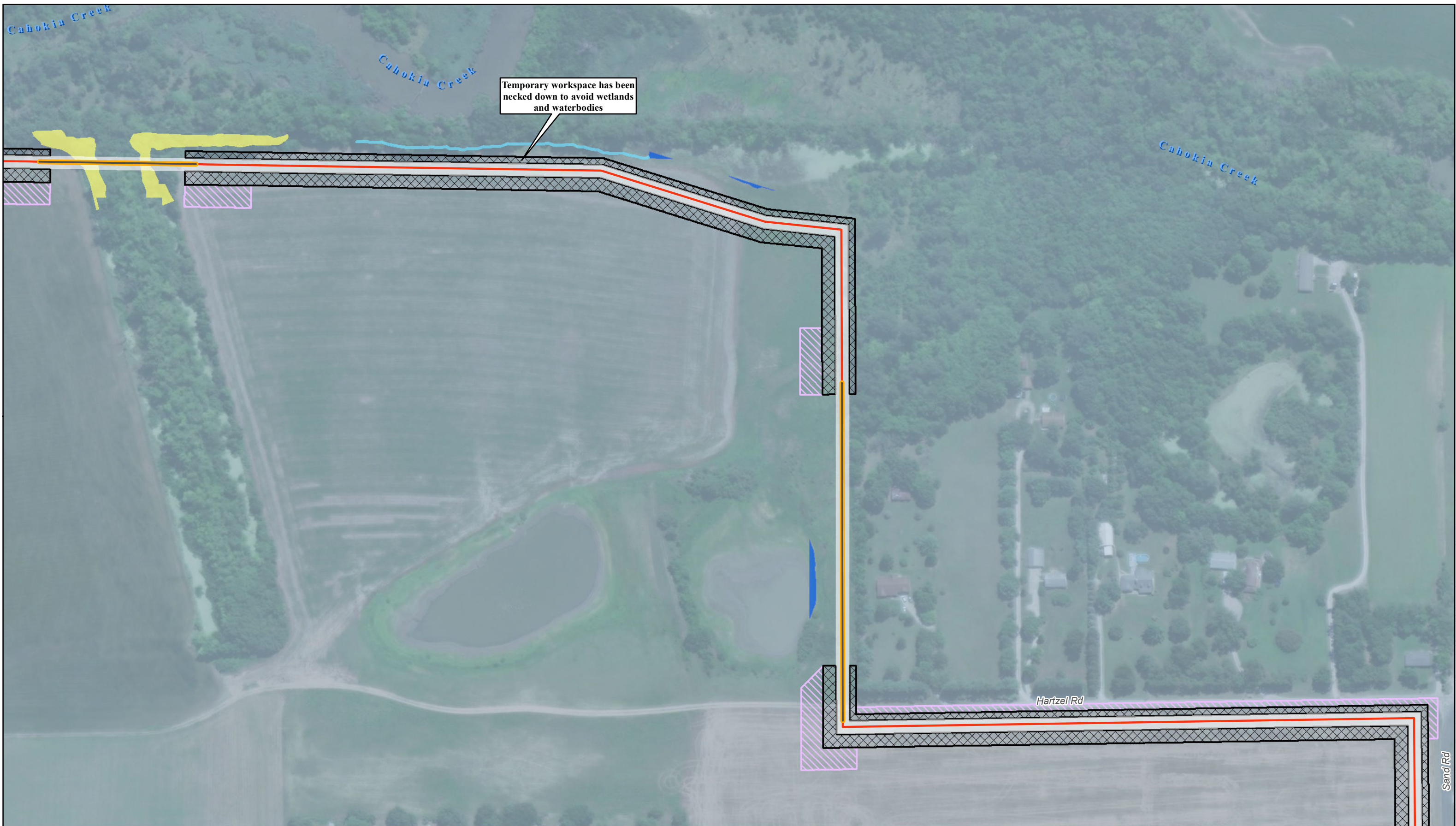
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Enable Mississippi River Transmission, LLC
MRT Ameresco Landfill Interconnect Project
Madison County, Illinois

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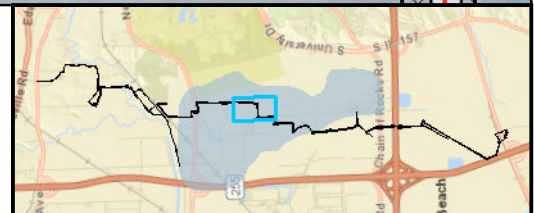
Temporary workspace has been necked down to avoid wetlands and waterbodies

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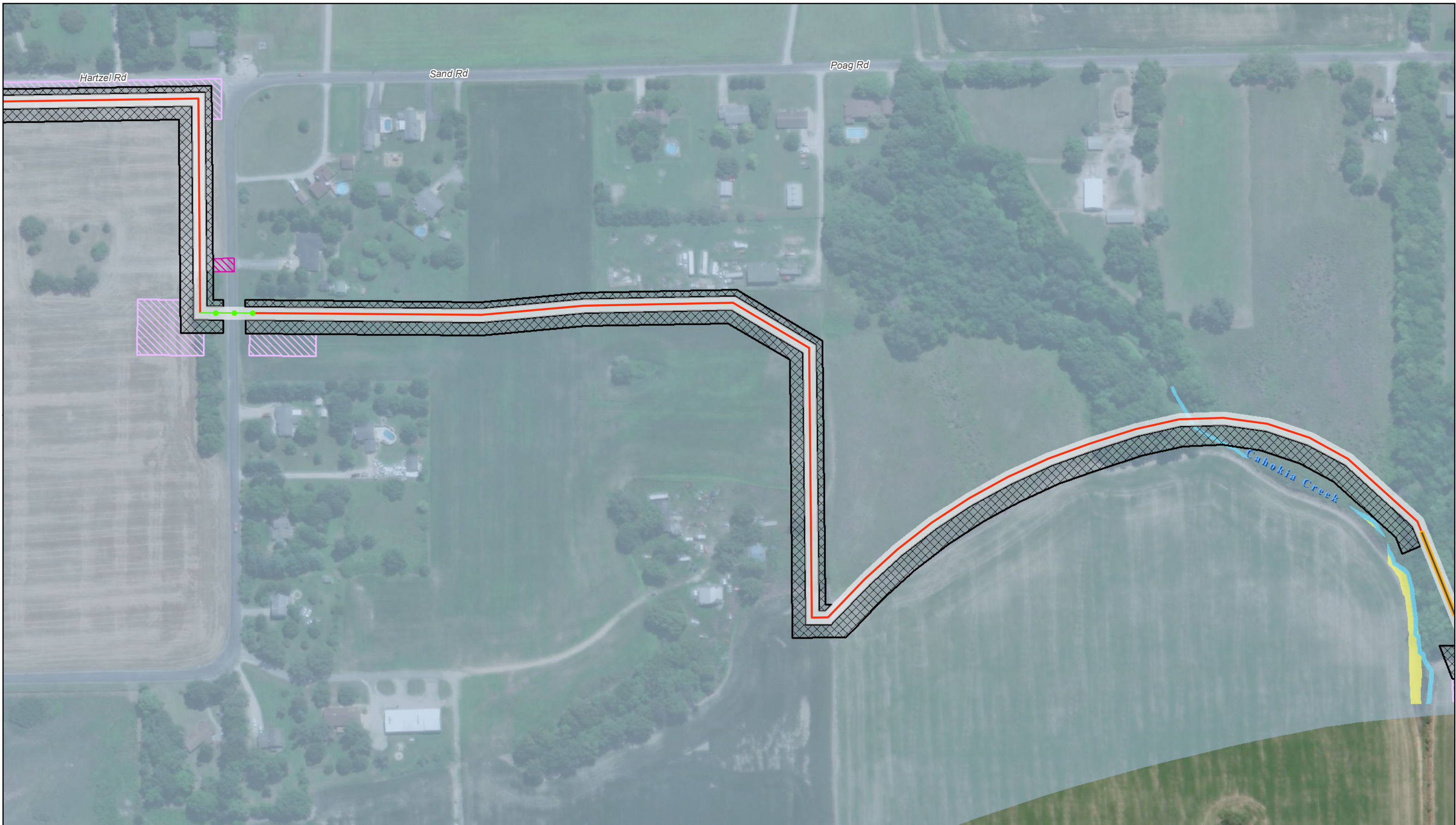
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Site Plan
Enable Mississippi River Transmission, LLC
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Madison County, Illinois

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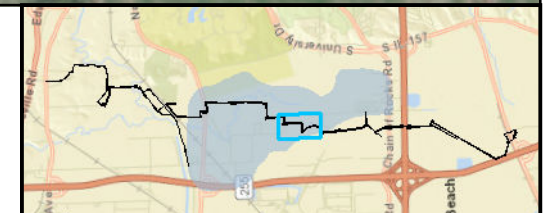
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Madison County, Illinois

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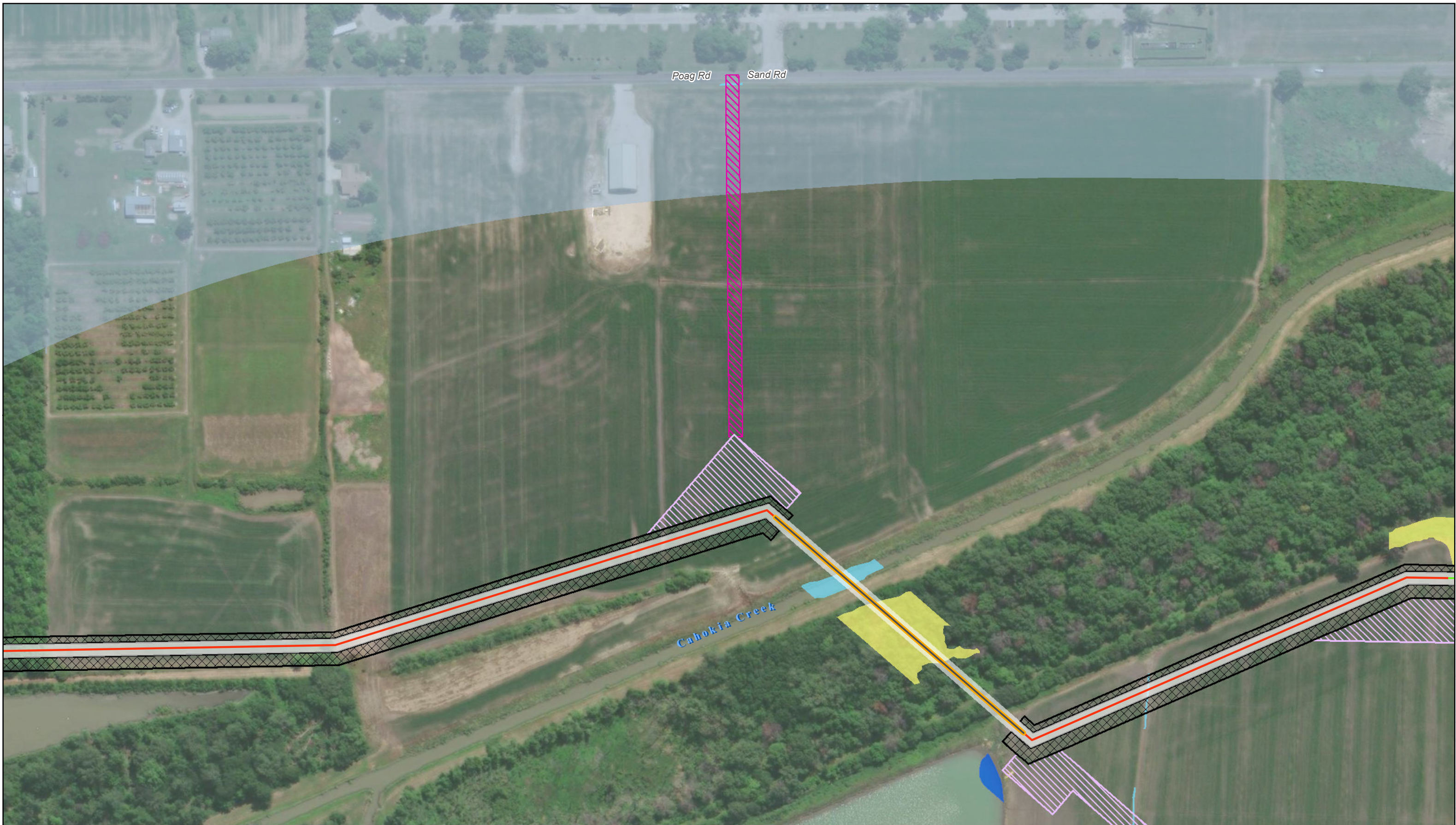
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Enable Mississippi River Transmission, LLC
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Madison County, Illinois

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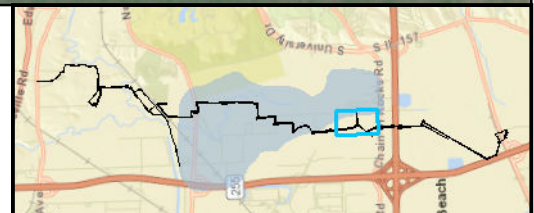


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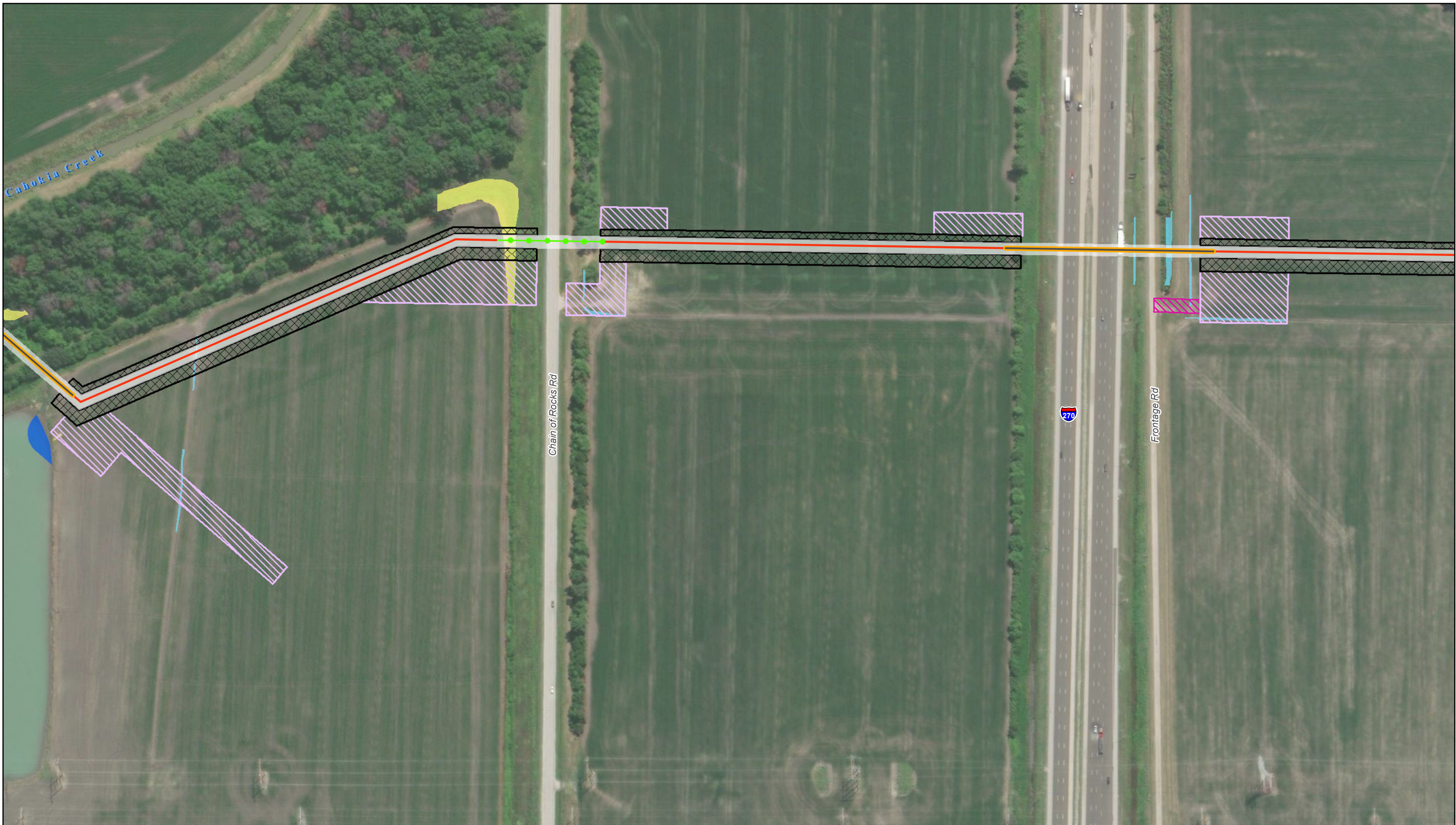
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Site Plan
Enable Mississippi River Transmission, LLC
MRT Ameresco Landfill Interconnect Project
Madison County, Illinois

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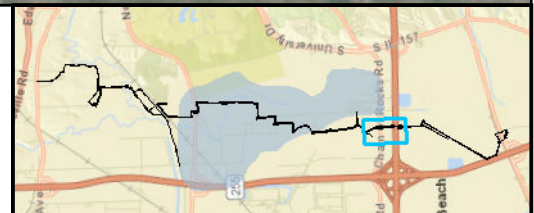
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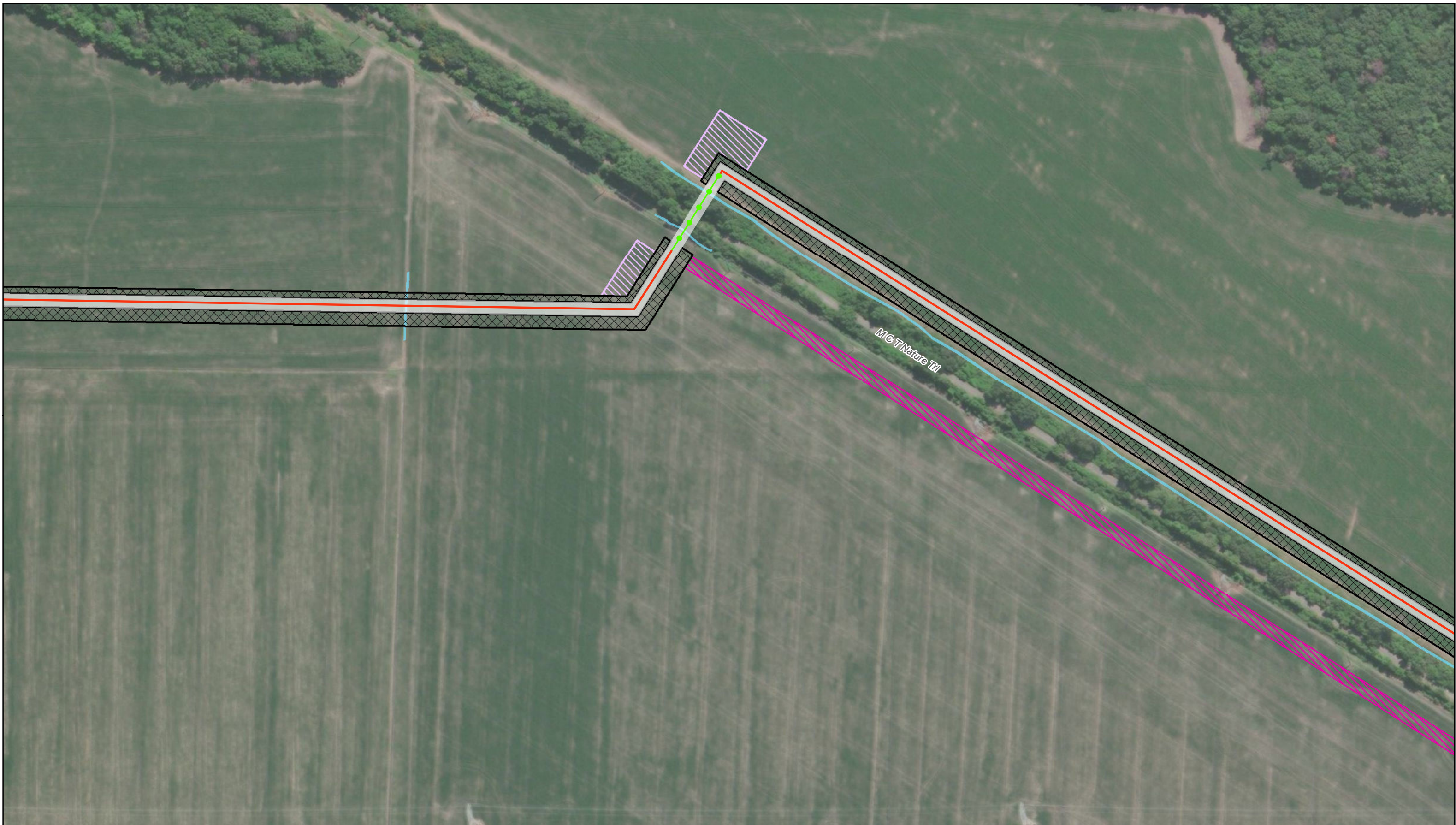
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Madison County, Illinois

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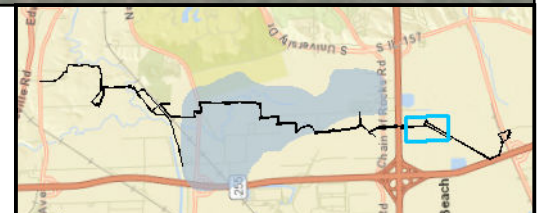
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For Environmental Review Purposes Only

Site Plan
Enable Mississippi River Transmission, LLC
MRT Ameresco Landfill Interconnect Project
Madison County, Illinois

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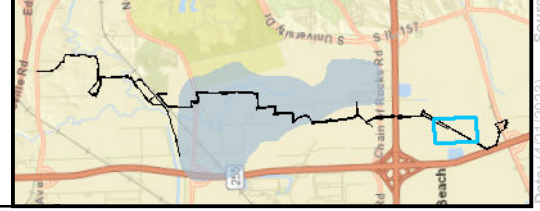


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For Environmental Review Purposes Only

Site Plan
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MRT Ameresco Landfill Interconnect Project
Madison County, Illinois

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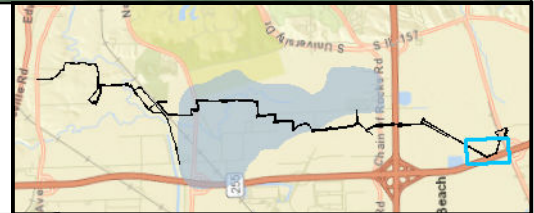


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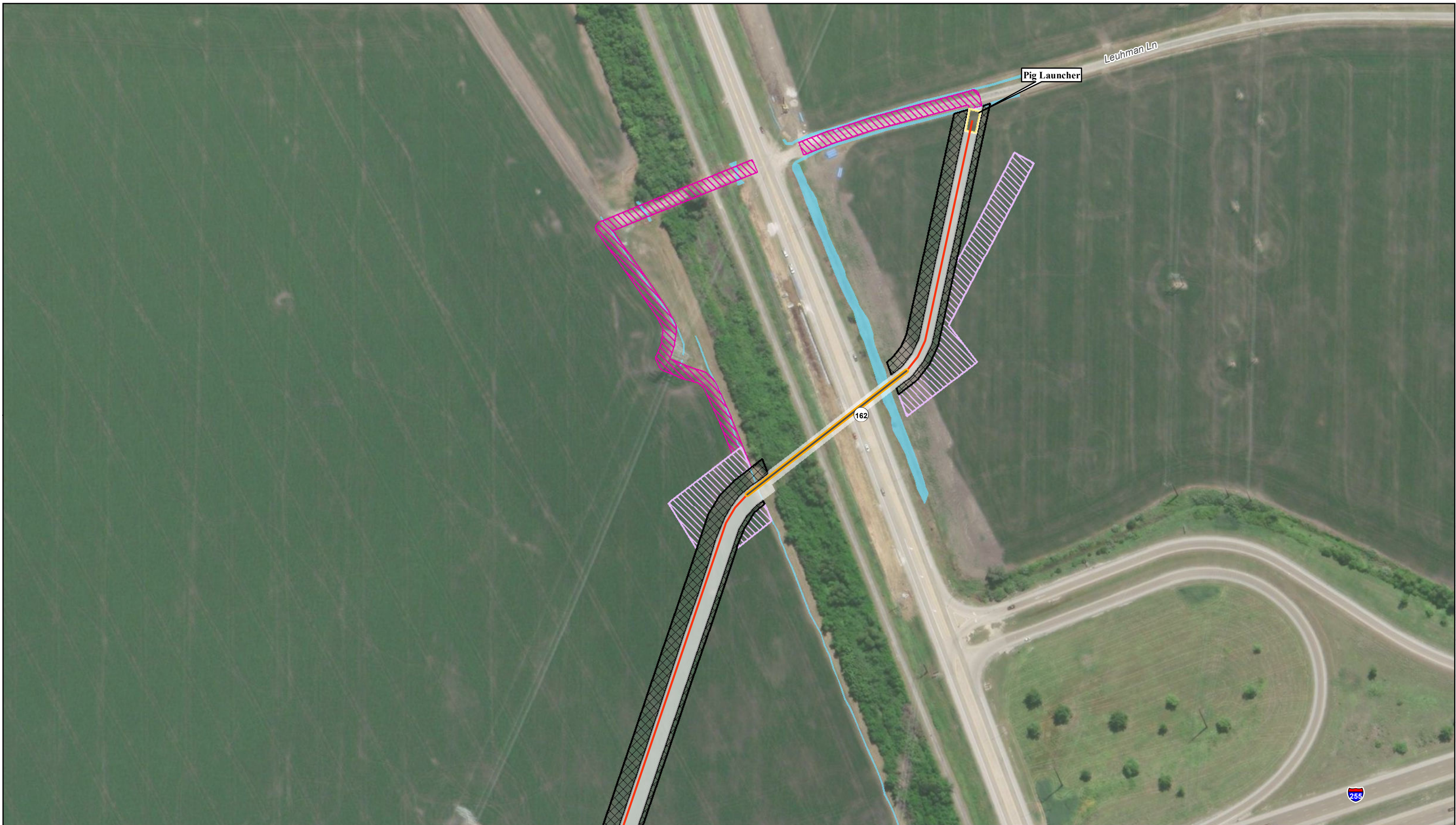
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Madison County, Illinois

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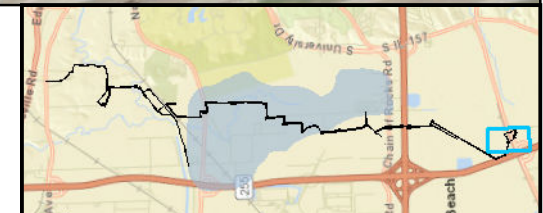
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Site Plan
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MRT Ameresco Landfill Interconnect Project
Madison County, Illinois

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- Delineated Open Water
- Poag Terrace



Appendix B

Site Photos

PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/12/2022
Feature Id: UPP9001	

Photo ID	
UPP9001_A	
Feature ID	
UPP9001	
Type	
Upland	
Latitude	Longitude
38.734542	-90.03511
Orientation	
Southeast	
Comment	
Photo of UPP9001 facing Southeast	



Photo ID	
UPP9001_B	
Feature ID	
UPP9001	
Type	
Upland	
Latitude	Longitude
38.734542	-90.03511
Orientation	
Northwest	
Comment	
Photo of UPP9001 facing Northwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/12/2022
Feature Id: UPP9002	

Photo ID	
UPP9002_A	
Feature ID	
UPP9002	
Type	
Upland	
Latitude	Longitude
38.734467	-90.035079
Orientation	
West	
Comment	
Photo of UPP9002 facing West	



Photo ID	
UPP9002_B	
Feature ID	
UPP9002	
Type	
Upland	
Latitude	Longitude
38.734467	-90.035079
Orientation	
East	
Comment	
Photo of UPP9002 facing East	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/12/2022
Feature Id: UPP9003	

Photo ID	
UPP9003_A	
Feature ID	
UPP9003	
Type	
Upland	
Latitude	Longitude
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Orientation	
Northeast	
Comment	
Photo of UPP9003 facing Northeast	



Photo ID	
UPP9003_B	
Feature ID	
UPP9003	
Type	
Upland	
Latitude	Longitude
38.751272	-90.030123
Orientation	
Southwest	
Comment	
Photo of UPP9003 facing Southwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project

County: Madison

Client Name: Enable Mississippi River Transmission

State: Illinois

SamplingPoint: Soil Station

Date: 9/12/2022

Feature Id: UPP9004

Photo ID

UPP9004_A

Feature ID

UPP9004

Type

Upland

Latitude

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Longitude

-90.028953

Orientation

North

Comment

Photo of UPP9004 facing North



Photo ID

UPP9004_B

Feature ID

UPP9004

Type

Upland

Latitude

38.75059

Longitude

-90.028953

Orientation

South

Comment

Photo of UPP9004 facing South



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/12/2022
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Feature ID	
UPP9004	
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Comment	
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Photo ID	
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Feature ID	
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Type	
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Latitude	Longitude
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Orientation	
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Comment	
Photo of UPP9004 facing West	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/12/2022
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Photo of UPP9006 facing North	



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Feature ID	
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Type	
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Orientation	
South	
Comment	
Photo of UPP9006 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/12/2022
Feature Id: UPP9007	

Photo ID	
UPP9007_A	
Feature ID	
UPP9007	
Type	
Upland	
Latitude	Longitude
38.743116	-90.035125
Orientation	
North	
Comment	
Photo of UPP9007 facing North	



Photo ID	
UPP9007_B	
Feature ID	
UPP9007	
Type	
Upland	
Latitude	Longitude
38.743116	-90.035125
Orientation	
South	
Comment	
Photo of UPP9007 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/12/2022
Feature Id: UPP9008	

Photo ID	
UPP9008_A	
Feature ID	
UPP9008	
Type	
Upland	
Latitude	Longitude
38.740364	-90.037565
Orientation	
North	
Comment	
Photo of UPP9008 facing North	



Photo ID	
UPP9008_B	
Feature ID	
UPP9008	
Type	
Upland	
Latitude	Longitude
38.740364	-90.037565
Orientation	
South	
Comment	
Photo of UPP9008 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/12/2022
Feature Id: UPP9009	

Photo ID	
UPP9009_A	
Feature ID	
UPP9009	
Type	
Upland	
Latitude	Longitude
38.737331	-90.039464
Orientation	
North	
Comment	
Photo of UPP9009 facing North	



Photo ID	
UPP9009_B	
Feature ID	
UPP9009	
Type	
Upland	
Latitude	Longitude
38.737331	-90.039464
Orientation	
South	
Comment	
Photo of UPP9009 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/12/2022
Feature Id: UPP9010	

Photo ID	
UPP9010_A	
Feature ID	
UPP9010	
Type	
Upland	
Latitude	Longitude
38.755113	-90.030027
Orientation	
North	
Comment	
Photo of UPP9010 facing North	



Photo ID	
UPP9010_B	
Feature ID	
UPP9010	
Type	
Upland	
Latitude	Longitude
38.755113	-90.030027
Orientation	
South	
Comment	
Photo of UPP9010 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/12/2022
Feature Id: UPP9011	

Photo ID	
UPP9011_A	
Feature ID	
UPP9011	
Type	
Upland	
Latitude	Longitude
38.759712	-90.030109
Orientation	
North	
Comment	
Photo of UPP9011 facing North	



Photo ID	
UPP9011_B	
Feature ID	
UPP9011	
Type	
Upland	
Latitude	Longitude
38.759712	-90.030109
Orientation	
South	
Comment	
Photo of UPP9011 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/12/2022
Feature Id: UPP9012	

Photo ID	
UPP9012_A	
Feature ID	
UPP9012	
Type	
Upland	
Latitude	Longitude
38.757953	-90.03015
Orientation	
North	
Comment	
Photo of UPP9012 facing North	



Photo ID	
UPP9012_B	
Feature ID	
UPP9012	
Type	
Upland	
Latitude	Longitude
38.757953	-90.03015
Orientation	
South	
Comment	
Photo of UPP9012 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: UPP9013	

Photo ID	
UPP9013_A	
Feature ID	
UPP9013	
Type	
Upland	
Latitude	Longitude
38.813997	-90.016567
Orientation	
North	
Comment	
Photo of UPP9013 facing North	



Photo ID	
UPP9013_B	
Feature ID	
UPP9013	
Type	
Upland	
Latitude	Longitude
38.813997	-90.016567
Orientation	
South	
Comment	
Photo of UPP9013 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: UPP9014	

Photo ID	
UPP9014_A	
Feature ID	
UPP9014	
Type	
Upland	
Latitude	Longitude
38.814553	-90.016753
Orientation	
North	
Comment	
Photo of UPP9014 facing North	



Photo ID	
UPP9014_B	
Feature ID	
UPP9014	
Type	
Upland	
Latitude	Longitude
38.814553	-90.016753
Orientation	
South	
Comment	
Photo of UPP9014 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: UPP9015	

Photo ID	
UPP9015_A	
Feature ID	
UPP9015	
Type	
Upland	
Latitude	Longitude
38.812226	-90.018342
Orientation	
North	
Comment	
Photo of UPP9015 facing North	



Photo ID	
UPP9015_B	
Feature ID	
UPP9015	
Type	
Upland	
Latitude	Longitude
38.812226	-90.018342
Orientation	
South	
Comment	
Photo of UPP9015 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: UPP9016	

Photo ID	
UPP9016_A	
Feature ID	
UPP9016	
Type	
Upland	
Latitude	Longitude
38.810883	-90.020602
Orientation	
North	
Comment	
Photo of UPP9016 facing North	



Photo ID	
UPP9016_B	
Feature ID	
UPP9016	
Type	
Upland	
Latitude	Longitude
38.810883	-90.020602
Orientation	
South	
Comment	
Photo of UPP9016 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: UPP9017	

Photo ID	
UPP9017_A	
Feature ID	
UPP9017	
Type	
Upland	
Latitude	Longitude
38.810051	-90.022055
Orientation	
North	
Comment	
Photo of UPP9017 facing North	



Photo ID	
UPP9017_B	
Feature ID	
UPP9017	
Type	
Upland	
Latitude	Longitude
38.810051	-90.022055
Orientation	
South	
Comment	
Photo of UPP9017 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: UPP9018	

Photo ID	
UPP9018_A	
Feature ID	
UPP9018	
Type	
Upland	
Latitude	Longitude
38.809337	-90.023714
Orientation	
North	
Comment	
Photo of UPP9018 facing North	



Photo ID	
UPP9018_B	
Feature ID	
UPP9018	
Type	
Upland	
Latitude	Longitude
38.809337	-90.023714
Orientation	
South	
Comment	
Photo of UPP9018 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: UPP9019	

Photo ID	
UPP9019_A	
Feature ID	
UPP9019	
Type	
Upland	
Latitude	Longitude
38.808326	-90.022596
Orientation	
North	
Comment	
Photo of UPP9019 facing North	



Photo ID	
UPP9019_B	
Feature ID	
UPP9019	
Type	
Upland	
Latitude	Longitude
38.808326	-90.022596
Orientation	
South	
Comment	
Photo of UPP9019 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: UPP9020	

Photo ID	
UPP9020_A	
Feature ID	
UPP9020	
Type	
Upland	
Latitude	Longitude
38.820864	-90.020964
Orientation	
North	
Comment	
Photo of UPP9020 facing North	



Photo ID	
UPP9020_B	
Feature ID	
UPP9020	
Type	
Upland	
Latitude	Longitude
38.820864	-90.020964
Orientation	
South	
Comment	
Photo of UPP9020 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: UPP9021	

Photo ID	
UPP9021_A	
Feature ID	
UPP9021	
Type	
Upland	
Latitude	Longitude
38.819466	-90.018863
Orientation	
North	
Comment	
Photo of UPP9021 facing North	



Photo ID	
UPP9021_B	
Feature ID	
UPP9021	
Type	
Upland	
Latitude	Longitude
38.819466	-90.018863
Orientation	
South	
Comment	
Photo of UPP9021 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: UPP9022	

Photo ID	
UPP9022_A	
Feature ID	
UPP9022	
Type	
Upland	
Latitude	Longitude
38.818924	-90.01673
Orientation	
North	
Comment	
Photo of UPP9022 facing North	



Photo ID	
UPP9022_B	
Feature ID	
UPP9022	
Type	
Upland	
Latitude	Longitude
38.818924	-90.01673
Orientation	
South	
Comment	
Photo of UPP9022 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: UPP9023	

Photo ID	
UPP9023_A	
Feature ID	
UPP9023	
Type	
Upland	
Latitude	Longitude
38.81726	-90.016973
Orientation	
North	
Comment	
Photo of UPP9023 facing North	



Photo ID	
UPP9023_B	
Feature ID	
UPP9023	
Type	
Upland	
Latitude	Longitude
38.81726	-90.016973
Orientation	
South	
Comment	
Photo of UPP9023 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: UPP9024	

Photo ID	
UPP9024_A	
Feature ID	
UPP9024	
Type	
Upland	
Latitude	Longitude
38.815789	-90.017077
Orientation	
West	
Comment	
Photo of UPP9024 facing West	



Photo ID	
UPP9024_B	
Feature ID	
UPP9024	
Type	
Upland	
Latitude	Longitude
38.815789	-90.017077
Orientation	
East	
Comment	
Photo of UPP9024 facing East	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: UPP9025	

Photo ID	
UPP9025_A	
Feature ID	
UPP9025	
Type	
Upland	
Latitude	Longitude
38.80048	-90.025734
Orientation	
East	
Comment	
Photo of UPP9025 facing East	



Photo ID	
UPP9025_B	
Feature ID	
UPP9025	
Type	
Upland	
Latitude	Longitude
38.80048	-90.025734
Orientation	
West	
Comment	
Photo of UPP9025 facing West	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: UPP9026	

Photo ID	
UPP9026_A	
Feature ID	
UPP9026	
Type	
Upland	
Latitude	Longitude
38.805618	-90.021721
Orientation	
North	
Comment	
Photo of UPP9026 facing North	



Photo ID	
UPP9026_B	
Feature ID	
UPP9026	
Type	
Upland	
Latitude	Longitude
38.805618	-90.021721
Orientation	
South	
Comment	
Photo of UPP9026 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: UPP9026	

Photo ID	
UPP9026_C	
Feature ID	
UPP9026	
Type	
Upland	
Latitude	Longitude
38.805618	-90.021721
Orientation	
Southwest	
Comment	
Photo of UPP9026 facing Southwest	



Photo ID	
UPP9026_D	
Feature ID	
UPP9026	
Type	
Upland	
Latitude	Longitude
38.805618	-90.021721
Orientation	
Northwest	
Comment	
Photo of UPP9026 facing Northwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9028	

Photo ID	
UPP9028_A	
Feature ID	
UPP9028	
Type	
Upland	
Latitude	Longitude
38.763331	-90.030833
Orientation	
North	
Comment	
Photo of UPP9028 facing North	



Photo ID	
UPP9028_B	
Feature ID	
UPP9028	
Type	
Upland	
Latitude	Longitude
38.763331	-90.030833
Orientation	
South	
Comment	
Photo of UPP9028 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9029	

Photo ID	
UPP9029_A	
Feature ID	
UPP9029	
Type	
Upland	
Latitude	Longitude
38.762494	-90.031974
Orientation	
North	
Comment	
Photo of UPP9029 facing North	



Photo ID	
UPP9029_B	
Feature ID	
UPP9029	
Type	
Upland	
Latitude	Longitude
38.762494	-90.031974
Orientation	
South	
Comment	
Photo of UPP9029 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9030	

Photo ID	
UPP9030_A	
Feature ID	
UPP9030	
Type	
Upland	
Latitude	Longitude
38.781862	-90.028584
Orientation	
North	
Comment	
Photo of UPP9030 facing North	



Photo ID	
UPP9030_B	
Feature ID	
UPP9030	
Type	
Upland	
Latitude	Longitude
38.781862	-90.028584
Orientation	
East	
Comment	
Photo of UPP9030 facing East	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9031	

Photo ID	
UPP9031_A	
Feature ID	
UPP9031	
Type	
Upland	
Latitude	Longitude
38.780366	-90.028265
Orientation	
North	
Comment	
Photo of UPP9031 facing North	



Photo ID	
UPP9031_B	
Feature ID	
UPP9031	
Type	
Upland	
Latitude	Longitude
38.780366	-90.028265
Orientation	
South	
Comment	
Photo of UPP9031 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9032	

Photo ID	
UPP9032_A	
Feature ID	
UPP9032	
Type	
Upland	
Latitude	Longitude
38.77873	-90.028664
Orientation	
North	
Comment	
Photo of UPP9032 facing North	



Photo ID	
UPP9032_B	
Feature ID	
UPP9032	
Type	
Upland	
Latitude	Longitude
38.77873	-90.028664
Orientation	
South	
Comment	
Photo of UPP9032 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9033	

Photo ID	
UPP9033_A	
Feature ID	
UPP9033	
Type	
Upland	
Latitude	Longitude
38.777804	-90.029514
Orientation	
North	
Comment	
Photo of UPP9033 facing North	



Photo ID	
UPP9033_B	
Feature ID	
UPP9033	
Type	
Upland	
Latitude	Longitude
38.777804	-90.029514
Orientation	
South	
Comment	
Photo of UPP9033 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9034	

Photo ID	
UPP9034_A	
Feature ID	
UPP9034	
Type	
Upland	
Latitude	Longitude
38.77453	-90.030941
Orientation	
South	
Comment	
Photo of UPP9034 facing South	



Photo ID	
UPP9034_B	
Feature ID	
UPP9034	
Type	
Upland	
Latitude	Longitude
38.77453	-90.030941
Orientation	
North	
Comment	
Photo of UPP9034 facing North	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9035	

Photo ID	
UPP9035_A	
Feature ID	
UPP9035	
Type	
Upland	
Latitude	Longitude
38.772738	-90.030821
Orientation	
North	
Comment	
Photo of UPP9035 facing North	



Photo ID	
UPP9035_B	
Feature ID	
UPP9035	
Type	
Upland	
Latitude	Longitude
38.772738	-90.030821
Orientation	
South	
Comment	
Photo of UPP9035 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9036	

Photo ID	
UPP9036_A	
Feature ID	
UPP9036	
Type	
Upland	
Latitude	Longitude
38.769479	-90.030447
Orientation	
North	
Comment	
Photo of UPP9036 facing North	



Photo ID	
UPP9036_B	
Feature ID	
UPP9036	
Type	
Upland	
Latitude	Longitude
38.769479	-90.030447
Orientation	
South	
Comment	
Photo of UPP9036 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9037	

Photo ID	
UPP9037_A	
Feature ID	
UPP9037	
Type	
Upland	
Latitude	Longitude
38.76778	-90.030766
Orientation	
North	
Comment	
Photo of UPP9037 facing North	



Photo ID	
UPP9037_B	
Feature ID	
UPP9037	
Type	
Upland	
Latitude	Longitude
38.76778	-90.030766
Orientation	
South	
Comment	
Photo of UPP9037 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9038	

Photo ID	
UPP9038_A	
Feature ID	
UPP9038	
Type	
Upland	
Latitude	Longitude
38.765051	-90.029415
Orientation	
North	
Comment	
Photo of UPP9038 facing North	



Photo ID	
UPP9038_B	
Feature ID	
UPP9038	
Type	
Upland	
Latitude	Longitude
38.765051	-90.029415
Orientation	
South	
Comment	
Photo of UPP9038 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9039	

Photo ID	
UPP9039_A	
Feature ID	
UPP9039	
Type	
Upland	
Latitude	Longitude
38.821184	-90.021138
Orientation	
North	
Comment	
Photo of UPP9039 facing North	



Photo ID	
UPP9039_B	
Feature ID	
UPP9039	
Type	
Upland	
Latitude	Longitude
38.821184	-90.021138
Orientation	
South	
Comment	
Photo of UPP9039 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9040	

Photo ID	
UPP9040_A	
Feature ID	
UPP9040	
Type	
Upland	
Latitude	Longitude
38.820922	-90.020532
Orientation	
North	
Comment	
Photo of UPP9040 facing North	



Photo ID	
UPP9040_B	
Feature ID	
UPP9040	
Type	
Upland	
Latitude	Longitude
38.820922	-90.020532
Orientation	
South	
Comment	
Photo of UPP9040 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9041	

Photo ID	
UPP9041_A	
Feature ID	
UPP9041	
Type	
Upland	
Latitude	Longitude
38.820989	-90.021664
Orientation	
Southwest	
Comment	
Photo of UPP9041 facing Southwest	



Photo ID	
UPP9041_B	
Feature ID	
UPP9041	
Type	
Upland	
Latitude	Longitude
38.820989	-90.021664
Orientation	
North	
Comment	
Photo of UPP9041 facing North	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9042	

Photo ID	
UPP9042_A	
Feature ID	
UPP9042	
Type	
Upland	
Latitude	Longitude
38.820839	-90.0214
Orientation	
North	
Comment	
Photo of UPP9042 facing North	



Photo ID	
UPP9042_B	
Feature ID	
UPP9042	
Type	
Upland	
Latitude	Longitude
38.820839	-90.0214
Orientation	
South	
Comment	
Photo of UPP9042 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: UPP9043	

Photo ID	
UPP9043_A	
Feature ID	
UPP9043	
Type	
Upland	
Latitude	Longitude
38.762603	-90.030966
Orientation	
Northeast	
Comment	
Photo of UPP9043 facing Northeast	



Photo ID	
UPP9043_B	
Feature ID	
UPP9043	
Type	
Upland	
Latitude	Longitude
38.762603	-90.030966
Orientation	
Northwest	
Comment	
Photo of UPP9043 facing Northwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/15/2022
Feature Id: UPP9044	

Photo ID	
UPP9044_A	
Feature ID	
UPP9044	
Type	
Upland	
Latitude	Longitude
38.782902	-90.028049
Orientation	
North	
Comment	
Photo of UPP9044 facing North	



Photo ID	
UPP9044_B	
Feature ID	
UPP9044	
Type	
Upland	
Latitude	Longitude
38.782902	-90.028049
Orientation	
South	
Comment	
Photo of UPP9044 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/15/2022
Feature Id: UPP9045	

Photo ID	
UPP9045_A	
Feature ID	
UPP9045	
Type	
Upland	
Latitude	Longitude
38.787076	-90.026888
Orientation	
North	
Comment	
Photo of UPP9045 facing North	



Photo ID	
UPP9045_B	
Feature ID	
UPP9045	
Type	
Upland	
Latitude	Longitude
38.787076	-90.026888
Orientation	
South	
Comment	
Photo of UPP9045 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/15/2022
Feature Id: UPP9046	

Photo ID	
UPP9046_A	
Feature ID	
UPP9046	
Type	
Upland	
Latitude	Longitude
38.790108	-90.02645
Orientation	
North	
Comment	
Photo of UPP9046 facing North	



Photo ID	
UPP9046_B	
Feature ID	
UPP9046	
Type	
Upland	
Latitude	Longitude
38.790108	-90.02645
Orientation	
South	
Comment	
Photo of UPP9046 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/15/2022
Feature Id: UPP9047	

Photo ID	
UPP9047_A	
Feature ID	
UPP9047	
Type	
Upland	
Latitude	Longitude
38.790526	-90.023961
Orientation	
North	
Comment	
Photo of UPP9047 facing North	



Photo ID	
UPP9047_B	
Feature ID	
UPP9047	
Type	
Upland	
Latitude	Longitude
38.790526	-90.023961
Orientation	
South	
Comment	
Photo of UPP9047 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/16/2022
Feature Id: UPP9048	

Photo ID	
UPP9048_A	
Feature ID	
UPP9048	
Type	
Upland	
Latitude	Longitude
38.794934	-90.023827
Orientation	
North	
Comment	
Photo of UPP9048 facing North	



Photo ID	
UPP9048_B	
Feature ID	
UPP9048	
Type	
Upland	
Latitude	Longitude
38.794934	-90.023827
Orientation	
South	
Comment	
Photo of UPP9048 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/16/2022
Feature Id: UPP9049	

Photo ID	
UPP9049_A	
Feature ID	
UPP9049	
Type	
Upland	
Latitude	Longitude
38.797885	-90.02599
Orientation	
North	
Comment	
Photo of UPP9049 facing North	



Photo ID	
UPP9049_B	
Feature ID	
UPP9049	
Type	
Upland	
Latitude	Longitude
38.797885	-90.02599
Orientation	
South	
Comment	
Photo of UPP9049 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/13/2023
Feature Id: UPP9090	

Photo ID	
UPP9090_A	
Feature ID	
UPP9090	
Type	
Northwest	
Latitude	Longitude
-90.033032	
Orientation	
38.733773	
Comment	
Photo of UPP9090 facing Northwest	



Photo ID	
UPP9090_B	
Feature ID	
UPP9090	
Type	
Southeast	
Latitude	Longitude
-90.033032	
Orientation	
38.733773	
Comment	
Photo of UPP9090 facing Southeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/13/2023
Feature Id: UPP9091	

Photo ID	
UPP9091_A	
Feature ID	
UPP9091	
Type	
Northeast	
Latitude	Longitude
-90.032875	
Orientation	
38.735159	
Comment	
Photo of UPP9091 facing Northeast	



Photo ID	
UPP9091_B	
Feature ID	
UPP9091	
Type	
Southwest	
Latitude	Longitude
-90.032875	
Orientation	
38.735159	
Comment	
Photo of UPP9091 facing Southwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/13/2023
Feature Id: UPP9092	

Photo ID	
UPP9092_A	
Feature ID	
UPP9092	
Type	
Northwest	
Latitude	Longitude
-90.032958	
Orientation	
38.735326	
Comment	
Photo of UPP9092 facing Northwest	



Photo ID	
UPP9092_B	
Feature ID	
UPP9092	
Type	
Southeast	
Latitude	Longitude
-90.032958	
Orientation	
38.735326	
Comment	
Photo of UPP9092 facing Southeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/13/2023
Feature Id: UPP9093	

Photo ID	
UPP9093_A	
Feature ID	
UPP9093	
Type	
Northeast	
Latitude	Longitude
-90.034041	
Orientation	
38.735158	
Comment	
Photo of UPP9093 facing Northeast	



Photo ID	
UPP9093_B	
Feature ID	
UPP9093	
Type	
Southwest	
Latitude	Longitude
-90.034041	
Orientation	
38.735158	
Comment	
Photo of UPP9093 facing Southwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/13/2023
Feature Id: UPP9094	

Photo ID	
UPP9094_A	
Feature ID	
UPP9094	
Type	
Northeast	
Latitude	Longitude
-90.035903	
Orientation	
38.734413	
Comment	
Photo of UPP9094 facing Northeast	



Photo ID	
UPP9094_B	
Feature ID	
UPP9094	
Type	
Southwest	
Latitude	Longitude
-90.035903	
Orientation	
38.734413	
Comment	
Photo of UPP9094 facing Southwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/13/2023
Feature Id: UPP9095	

Photo ID	
UPP9095_A	
Feature ID	
UPP9095	
Type	
Northwest	
Latitude	Longitude
-90.038388	
Orientation	
38.734506	
Comment	
Photo of UPP9095 facing Northwest	



Photo ID	
UPP9095_B	
Feature ID	
UPP9095	
Type	
Southeast	
Latitude	Longitude
-90.038388	
Orientation	
38.734506	
Comment	
Photo of UPP9095 facing Southeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/14/2023
Feature Id: UPP9096	

Photo ID	
UPP9096_A	
Feature ID	
UPP9096	
Type	
Southwest	
Latitude	Longitude
-90.034181	
Orientation	
38.803903	
Comment	
Photo of UPP9096 facing Southwest	



Photo ID	
UPP9096_B	
Feature ID	
UPP9096	
Type	
Northeast	
Latitude	Longitude
-90.034181	
Orientation	
38.803903	
Comment	
Photo of UPP9096 facing Northeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/14/2023
Feature Id: UPP9097	

Photo ID	
UPP9097_A	
Feature ID	
UPP9097	
Type	
East	
Latitude	Longitude
-90.027528	
Orientation	
38.805244	
Comment	
Photo of UPP9097 facing East	



Photo ID	
UPP9097_B	
Feature ID	
UPP9097	
Type	
West	
Latitude	Longitude
-90.027528	
Orientation	
38.805244	
Comment	
Photo of UPP9097 facing West	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/14/2023
Feature Id: UPP9098	

Photo ID	
UPP9098_A	
Feature ID	
UPP9098	
Type	
Southwest	
Latitude	Longitude
-90.020249	
Orientation	
38.809394	
Comment	
Photo of UPP9098 facing Southwest	



Photo ID	
UPP9098_B	
Feature ID	
UPP9098	
Type	
Northeast	
Latitude	Longitude
-90.020249	
Orientation	
38.809394	
Comment	
Photo of UPP9098 facing Northeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/14/2023
Feature Id: UPP9099	

Photo ID	
UPP9099_A	
Feature ID	
UPP9099	
Type	
Northwest	
Latitude	Longitude
-90.017782	
Orientation	
38.81126	
Comment	
Photo of UPP9099 facing Northwest	



Photo ID	
UPP9099_B	
Feature ID	
UPP9099	
Type	
Southwest	
Latitude	Longitude
-90.017782	
Orientation	
38.81126	
Comment	
Photo of UPP9099 facing Southwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/14/2023
Feature Id: UPP9100	

Photo ID	
UPP9100_A	
Feature ID	
UPP9100	
Type	
Northeast	
Latitude	Longitude
-90.02478	
Orientation	
38.807098	
Comment	
Photo of UPP9100 facing Northeast	



Photo ID	
UPP9100_B	
Feature ID	
UPP9100	
Type	
Southwest	
Latitude	Longitude
-90.02478	
Orientation	
38.807098	
Comment	
Photo of UPP9100 facing Southwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/14/2023
Feature Id: UPP9101	

Photo ID	
UPP9101_A	
Feature ID	
UPP9101	
Type	
Northeast	
Latitude	Longitude
-90.024505	
Orientation	
38.808673	
Comment	
Photo of UPP9101 facing Northeast	



Photo ID	
UPP9101_B	
Feature ID	
UPP9101	
Type	
Southwest	
Latitude	Longitude
-90.024505	
Orientation	
38.808673	
Comment	
Photo of UPP9101 facing Southwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/14/2023
Feature Id: UPP9102	

Photo ID	
UPP9102_A	
Feature ID	
UPP9102	
Type	
East	
Latitude	Longitude
-90.027048	
Orientation	
38.765005	
Comment	
Photo of UPP9102 facing East	



Photo ID	
UPP9102_B	
Feature ID	
UPP9102	
Type	
West	
Latitude	Longitude
-90.027048	
Orientation	
38.765005	
Comment	
Photo of UPP9102 facing West	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/14/2023
Feature Id: UPP9103	

Photo ID	
UPP9103_A	
Feature ID	
UPP9103	
Type	
South	
Latitude	Longitude
-90.030573	
Orientation	
38.755858	
Comment	
Photo of UPP9103 facing South	



Photo ID	
UPP9103_B	
Feature ID	
UPP9103	
Type	
North	
Latitude	Longitude
-90.030573	
Orientation	
38.755858	
Comment	
Photo of UPP9103 facing North	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/14/2023
Feature Id: UPP9104	

Photo ID	
UPP9104_A	
Feature ID	
UPP9104	
Type	
Southwest	
Latitude	Longitude
-90.031647	
Orientation	
38.748769	
Comment	
Photo of UPP9104 facing Southwest	



Photo ID	
UPP9104_B	
Feature ID	
UPP9104	
Type	
Northeast	
Latitude	Longitude
-90.031647	
Orientation	
38.748769	
Comment	
Photo of UPP9104 facing Northeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/14/2023
Feature Id: UPP9105	

Photo ID	
UPP9105_A	
Feature ID	
UPP9105	
Type	
Northeast	
Latitude	Longitude
-90.029978	
Orientation	
38.75083	
Comment	
Photo of UPP9105 facing Northeast	



Photo ID	
UPP9105_B	
Feature ID	
UPP9105	
Type	
Southwest	
Latitude	Longitude
-90.029978	
Orientation	
38.75083	
Comment	
Photo of UPP9105 facing Southwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/14/2023
Feature Id: UPP9106	

Photo ID	
UPP9106_A	
Feature ID	
UPP9106	
Type	
Southwest	
Latitude	Longitude
-90.030508	
Orientation	
38.759929	
Comment	
Photo of UPP9106 facing Southwest	



Photo ID	
UPP9106_B	
Feature ID	
UPP9106	
Type	
Northeast	
Latitude	Longitude
-90.030508	
Orientation	
38.759929	
Comment	
Photo of UPP9106 facing Northeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/14/2023
Feature Id: UPP9107	

Photo ID	
UPP9107_A	
Feature ID	
UPP9107	
Type	
Southwest	
Latitude	Longitude
-90.034847	
Orientation	
38.734717	
Comment	
Photo of UPP9107 facing Southwest	



Photo ID	
UPP9107_B	
Feature ID	
UPP9107	
Type	
Northeast	
Latitude	Longitude
-90.034847	
Orientation	
38.734717	
Comment	
Photo of UPP9107 facing Northeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 2/14/2023
Feature Id: UPP9108	

Photo ID	
UPP9108_A	
Feature ID	
UPP9108	
Type	
West	
Latitude	Longitude
-90.037772	
Orientation	
38.733762	
Comment	
Photo of UPP9108 facing West	



Photo ID	
UPP9108_B	
Feature ID	
UPP9108	
Type	
East	
Latitude	Longitude
-90.037772	
Orientation	
38.733762	
Comment	
Photo of UPP9108 facing East	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: WP9001_UP	

Photo ID	
WP9001_UP_A	
Feature ID	
WP9001_UP	
Type	
Upland	
Latitude	Longitude
38.809123	-90.023331
Orientation	
North	
Comment	
Photo of WP9001_UP facing North	



Photo ID	
WP9001_UP_B	
Feature ID	
WP9001_UP	
Type	
Upland	
Latitude	Longitude
38.809123	-90.023331
Orientation	
South	
Comment	
Photo of WP9001_UP facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: WP9001_WET_PFO	

Photo ID	
WP9001_WET_PFO_A	
Feature ID	
WP9001_WET_PFO	
Type	
Wetland	
Latitude	Longitude
38.808978	-90.023214
Orientation	
North	
Comment	
Photo of WP9001_WET_PFO facing North	



Photo ID	
WP9001_WET_PFO_B	
Feature ID	
WP9001_WET_PFO	
Type	
Wetland	
Latitude	Longitude
38.808978	-90.023214
Orientation	
South	
Comment	
Photo of WP9001_WET_PFO facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: WP9002_UP	

Photo ID	
WP9002_UP_A	
Feature ID	
WP9002_UP	
Type	
Upland	
Latitude	Longitude
38.806525	-90.02346
Orientation	
North	
Comment	
Photo of WP9002_UP facing North	



Photo ID	
WP9002_UP_B	
Feature ID	
WP9002_UP	
Type	
Upland	
Latitude	Longitude
38.806525	-90.02346
Orientation	
South	
Comment	
Photo of WP9002_UP facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/13/2022
Feature Id: WP9002_WET_PEM	

Photo ID	
WP9002_WET_PEM_A	
Feature ID	
WP9002_WET_PEM	
Type	
Wetland	
Latitude	Longitude
38.806718	-90.023075
Orientation	
North	
Comment	
Photo of WP9002_WET_PEM facing North	



Photo ID	
WP9002_WET_PEM_B	
Feature ID	
WP9002_WET_PEM	
Type	
Wetland	
Latitude	Longitude
38.806718	-90.023075
Orientation	
South	
Comment	
Photo of WP9002_WET_PEM facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/15/2022
Feature Id: WP9003_UP	

Photo ID	
WP9003_UP_A	
Feature ID	
WP9003_UP	
Type	
Upland	
Latitude	Longitude
38.790893	-90.021975
Orientation	
Northeast	
Comment	
Photo of WP9003_UP facing Northeast	



Photo ID	
WP9003_UP_B	
Feature ID	
WP9003_UP	
Type	
Upland	
Latitude	Longitude
38.790893	-90.021975
Orientation	
Southwest	
Comment	
Photo of WP9003_UP facing Southwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/15/2022
Feature Id: WP9003_WET_PFO	

Photo ID	
WP9003_WET_PFO_A	
Feature ID	
WP9003_WET_PFO	
Type	
Wetland	
Latitude	Longitude
38.790934	-90.021855
Orientation	
West	
Comment	
Photo of WP9003_WET_PFO facing West	



Photo ID	
WP9003_WET_PFO_B	
Feature ID	
WP9003_WET_PFO	
Type	
Wetland	
Latitude	Longitude
38.790934	-90.021855
Orientation	
East	
Comment	
Photo of WP9003_WET_PFO facing East	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/15/2022
Feature Id: WP9004_UP	

Photo ID	
WP9004_UP_A	
Feature ID	
WP9004_UP	
Type	
Upland	
Latitude	Longitude
38.793136	-90.022149
Orientation	
North	
Comment	
Photo of WP9004_UP facing North	



Photo ID	
WP9004_UP_B	
Feature ID	
WP9004_UP	
Type	
Upland	
Latitude	Longitude
38.793136	-90.022149
Orientation	
South	
Comment	
Photo of WP9004_UP facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/15/2022
Feature Id: WP9004_WET_PEM	

Photo ID	
WP9004_WET_PEM_A	
Feature ID	
WP9004_WET_PEM	
Type	
Wetland	
Latitude	Longitude
38.792996	-90.022146
Orientation	
Northeast	
Comment	
Photo of WP9004_WET_PEM facing Northeast	



Photo ID	
WP9004_WET_PEM_B	
Feature ID	
WP9004_WET_PEM	
Type	
Wetland	
Latitude	Longitude
38.792996	-90.022146
Orientation	
Southwest	
Comment	
Photo of WP9004_WET_PEM facing Southwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: WP9005_UP	

Photo ID	
WP9005_UP_A	
Feature ID	
WP9005_UP	
Type	
Upland	
Latitude	Longitude
38.760591	-90.029946
Orientation	
Northwest	
Comment	
Photo of WP9005_UP facing Northwest	



Photo ID	
WP9005_UP_B	
Feature ID	
WP9005_UP	
Type	
Upland	
Latitude	Longitude
38.760591	-90.029946
Orientation	
Northeast	
Comment	
Photo of WP9005_UP facing Northeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: WP9005_UP_B	

Photo ID	
WP9005_UP_B_A	
Feature ID	
WP9005_UP_B	
Type	
Upland	
Latitude	Longitude
38.760866	-90.029515
Orientation	
North	
Comment	
Photo of WP9005_UP_B facing North	



Photo ID	
WP9005_UP_B_B	
Feature ID	
WP9005_UP_B	
Type	
Upland	
Latitude	Longitude
38.760866	-90.029515
Orientation	
South	
Comment	
Photo of WP9005_UP_B facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: WP9005_WET_PEM	

Photo ID	
WP9005_WET_PEM_A	
Feature ID	
WP9005_WET_PEM	
Type	
Wetland	
Latitude	Longitude
38.760488	-90.030434
Orientation	
East	
Comment	
Photo of WP9005_WET_PEM facing East	



Photo ID	
WP9005_WET_PEM_B	
Feature ID	
WP9005_WET_PEM	
Type	
Wetland	
Latitude	Longitude
38.760488	-90.030434
Orientation	
West	
Comment	
Photo of WP9005_WET_PEM facing West	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: WP9006_UP	

Photo ID	
WP9006_UP_A	
Feature ID	
WP9006_UP	
Type	
Upland	
Latitude	Longitude
38.763679	-90.030428
Orientation	
Southeast	
Comment	
Photo of WP9006_UP facing Southeast	



Photo ID	
WP9006_UP_B	
Feature ID	
WP9006_UP	
Type	
Upland	
Latitude	Longitude
38.763679	-90.030428
Orientation	
Northwest	
Comment	
Photo of WP9006_UP facing Northwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: WP9006_UP_B	

Photo ID	
WP9006_UP_B_A	
Feature ID	
WP9006_UP_B	
Type	
Upland	
Latitude	Longitude
38.764222	-90.030071
Orientation	
Northwest	
Comment	
Photo of WP9006_UP_B facing Northwest	



Photo ID	
WP9006_UP_B_B	
Feature ID	
WP9006_UP_B	
Type	
Upland	
Latitude	Longitude
38.764222	-90.030071
Orientation	
Southeast	
Comment	
Photo of WP9006_UP_B facing Southeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: WP9006_WET_PFO	

Photo ID	
WP9006_WET_PFO_A	
Feature ID	
WP9006_WET_PFO	
Type	
Wetland	
Latitude	Longitude
38.763757	-90.030541
Orientation	
North	
Comment	
Photo of WP9006_WET_PFO facing North	



Photo ID	
WP9006_WET_PFO_B	
Feature ID	
WP9006_WET_PFO	
Type	
Wetland	
Latitude	Longitude
38.763757	-90.030541
Orientation	
South	
Comment	
Photo of WP9006_WET_PFO facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: WP9006_WET_PFO_B	

Photo ID	
WP9006_WET_PFO_B_A	
Feature ID	
WP9006_WET_PFO_B	
Type	
Wetland	
Latitude	Longitude
38.764088	-90.030405
Orientation	
North	
Comment	
Photo of WP9006_WET_PFO_B facing North	



Photo ID	
WP9006_WET_PFO_B_B	
Feature ID	
WP9006_WET_PFO_B	
Type	
Wetland	
Latitude	Longitude
38.764088	-90.030405
Orientation	
South	
Comment	
Photo of WP9006_WET_PFO_B facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: WP9007_UP	

Photo ID	
WP9007_UP_A	
Feature ID	
WP9007_UP	
Type	
Upland	
Latitude	Longitude
38.775077	-90.031052
Orientation	
Northwest	
Comment	
Photo of WP9007_UP facing Northwest	



Photo ID	
WP9007_UP_B	
Feature ID	
WP9007_UP	
Type	
Upland	
Latitude	Longitude
38.775077	-90.031052
Orientation	
Northeast	
Comment	
Photo of WP9007_UP facing Northeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: WP9007_WET_PEM	

Photo ID	
WP9007_WET_PEM_A	
Feature ID	
WP9007_WET_PEM	
Type	
Wetland	
Latitude	Longitude
38.775014	-90.030928
Orientation	
West	
Comment	
Photo of WP9007_WET_PEM facing West	



Photo ID	
WP9007_WET_PEM_B	
Feature ID	
WP9007_WET_PEM	
Type	
Wetland	
Latitude	Longitude
38.775014	-90.030928
Orientation	
East	
Comment	
Photo of WP9007_WET_PEM facing East	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: WP9008_WET_PEM	

Photo ID	
WP9008_WET_PEM_A	
Feature ID	
WP9008_WET_PEM	
Type	
Wetland	
Latitude	Longitude
38.771047	-90.030337
Orientation	
East	
Comment	
Photo of WP9008_WET_PEM facing East	



Photo ID	
WP9008_WET_PEM_B	
Feature ID	
WP9008_WET_PEM	
Type	
Wetland	
Latitude	Longitude
38.771047	-90.030337
Orientation	
West	
Comment	
Photo of WP9008_WET_PEM facing West	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: WP9009_UP	

Photo ID	
WP9009_UP_A	
Feature ID	
WP9009_UP	
Type	
Upland	
Latitude	Longitude
38.771031	-90.030483
Orientation	
North	
Comment	
Photo of WP9009_UP facing North	



Photo ID	
WP9009_UP_B	
Feature ID	
WP9009_UP	
Type	
Upland	
Latitude	Longitude
38.771031	-90.030483
Orientation	
South	
Comment	
Photo of WP9009_UP facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Soil Station	Date: 9/14/2022
Feature Id: WP9009_WET_PEM	

Photo ID	
WP9009_WET_PEM_A	
Feature ID	
WP9009_WET_PEM	
Type	
Wetland	
Latitude	Longitude
38.771037	-90.030575
Orientation	
North	
Comment	
Photo of WP9009_WET_PEM facing North	



Photo ID	
WP9009_WET_PEM_B	
Feature ID	
WP9009_WET_PEM	
Type	
Wetland	
Latitude	Longitude
38.771037	-90.030575
Orientation	
South	
Comment	
Photo of WP9009_WET_PEM facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 9/12/2022
Feature Id: SP9001	

Photo ID	
SP9001_A	
Feature ID	
SP9001	
Type	
Intermittent	
Latitude	Longitude
38.73463	-90.035174
Orientation	
West	
Comment	
Photo of SP9001 facing West	



Photo ID	
SP9001_B	
Feature ID	
SP9001	
Type	
Intermittent	
Latitude	Longitude
38.73463	-90.035174
Orientation	
East	
Comment	
Photo of SP9001 facing East	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 9/12/2022
Feature Id: SP9002	

Photo ID	
SP9002_A	
Feature ID	
SP9002	
Type	
Intermittent	
Latitude	Longitude
38.751077	-90.029538
Orientation	
Northeast	
Comment	
Photo of SP9002 facing Northeast	



Photo ID	
SP9002_B	
Feature ID	
SP9002	
Type	
Intermittent	
Latitude	Longitude
38.751077	-90.029538
Orientation	
Southwest	
Comment	
Photo of SP9002 facing Southwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 9/12/2022
Feature Id: SP9003	

Photo ID	
SP9003_A	
Feature ID	
SP9003	
Type	
Ephemeral	
Latitude	Longitude
38.748478	-90.031231
Orientation	
Southwest	
Comment	
Photo of SP9003 facing Southwest	



Photo ID	
SP9003_B	
Feature ID	
SP9003	
Type	
Ephemeral	
Latitude	Longitude
38.748478	-90.031231
Orientation	
Northeast	
Comment	
Photo of SP9003 facing Northeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 9/12/2022
Feature Id: SP9004	

Photo ID	
SP9004_A	
Feature ID	
SP9004	
Type	
Intermittent	
Latitude	Longitude
38.745684	-90.033221
Orientation	
North	
Comment	
Photo of SP9004 facing North	



Photo ID	
SP9004_B	
Feature ID	
SP9004	
Type	
Intermittent	
Latitude	Longitude
38.745684	-90.033221
Orientation	
South	
Comment	
Photo of SP9004 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 9/12/2022
Feature Id: SP9005	

Photo ID	
SP9005_A	
Feature ID	
SP9005	
Type	
Ephemeral	
Latitude	Longitude
38.743047	-90.035644
Orientation	
Southwest	
Comment	
Photo of SP9005 facing Southwest	



Photo ID	
SP9005_B	
Feature ID	
SP9005	
Type	
Ephemeral	
Latitude	Longitude
38.743047	-90.035644
Orientation	
Northeast	
Comment	
Photo of SP9005 facing Northeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 9/12/2022
Feature Id: SP9006	

Photo ID	
SP9006_A	
Feature ID	
SP9006	
Type	
Ephemeral	
Latitude	Longitude
38.738241	-90.038938
Orientation	
Southeast	
Comment	
Photo of SP9006 facing Southeast	



Photo ID	
SP9006_B	
Feature ID	
SP9006	
Type	
Ephemeral	
Latitude	Longitude
38.738241	-90.038938
Orientation	
Northwest	
Comment	
Photo of SP9006 facing Northwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 9/12/2022
Feature Id: SP9007	

Photo ID	
SP9007_A	
Feature ID	
SP9007	
Type	
Ephemeral	
Latitude	Longitude
38.739058	-90.038773
Orientation	
West	
Comment	
Photo of SP9007 facing West	



Photo ID	
SP9007_B	
Feature ID	
SP9007	
Type	
Ephemeral	
Latitude	Longitude
38.739058	-90.038773
Orientation	
East	
Comment	
Photo of SP9007 facing East	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 9/12/2022
Feature Id: SP9008	

Photo ID	
SP9008_A	
Feature ID	
SP9008	
Type	
Ephemeral	
Latitude	Longitude
38.75641	-90.030033
Orientation	
Southeast	
Comment	
Photo of SP9008 facing Southeast	



Photo ID	
SP9008_B	
Feature ID	
SP9008	
Type	
Ephemeral	
Latitude	Longitude
38.75641	-90.030033
Orientation	
Northwest	
Comment	
Photo of SP9008 facing Northwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 9/12/2022
Feature Id: SP9009	

Photo ID	
SP9009_A	
Feature ID	
SP9009	
Type	
Ephemeral	
Latitude	Longitude
38.756278	-90.030041
Orientation	
East	
Comment	
Photo of SP9009 facing East	



Photo ID	
SP9009_B	
Feature ID	
SP9009	
Type	
Ephemeral	
Latitude	Longitude
38.756278	-90.030041
Orientation	
West	
Comment	
Photo of SP9009 facing West	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 9/12/2022
Feature Id: SP9010	

Photo ID	
SP9010_A	
Feature ID	
SP9010	
Type	
Ephemeral	
Latitude	Longitude
38.756624	-90.030048
Orientation	
West	
Comment	
Photo of SP9010 facing West	



Photo ID	
SP9010_B	
Feature ID	
SP9010	
Type	
Ephemeral	
Latitude	Longitude
38.756624	-90.030048
Orientation	
East	
Comment	
Photo of SP9010 facing East	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 9/13/2022
Feature Id: SP9011	

Photo ID	
SP9011_A	
Feature ID	
SP9011	
Type	
Perennial	
Latitude	Longitude
38.81479	-90.016874
Orientation	
East	
Comment	
Photo of SP9011 facing East	



Photo ID	
SP9011_B	
Feature ID	
SP9011	
Type	
Perennial	
Latitude	Longitude
38.81479	-90.016874
Orientation	
West	
Comment	
Photo of SP9011 facing West	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 9/14/2022
Feature Id: SP9012	

Photo ID	
SP9012_A	
Feature ID	
SP9012	
Type	
Perennial	
Latitude	Longitude
38.764347	-90.029962
Orientation	
Northwest	
Comment	
Photo of SP9012 facing Northwest	



Photo ID	
SP9012_B	
Feature ID	
SP9012	
Type	
Perennial	
Latitude	Longitude
38.764347	-90.029962
Orientation	
Southeast	
Comment	
Photo of SP9012 facing Southeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 9/14/2022
Feature Id: SP9013	

Photo ID	
SP9013_A	
Feature ID	
SP9013	
Type	
Intermittent	
Latitude	Longitude
38.774938	-90.030976
Orientation	
South	
Comment	
Photo of SP9013 facing South	



Photo ID	
SP9013_B	
Feature ID	
SP9013	
Type	
Intermittent	
Latitude	Longitude
38.774938	-90.030976
Orientation	
North	
Comment	
Photo of SP9013 facing North	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 9/14/2022
Feature Id: SP9014	

Photo ID	
SP9014_A	
Feature ID	
SP9014	
Type	
Ephemeral	
Latitude	Longitude
38.762506	-90.03153
Orientation	
East	
Comment	
Photo of SP9014 facing East	



Photo ID	
SP9014_B	
Feature ID	
SP9014	
Type	
Ephemeral	
Latitude	Longitude
38.762506	-90.03153
Orientation	
West	
Comment	
Photo of SP9014 facing West	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 2/13/2023
Feature Id: SP9070	

Photo ID	
SP9070_A	
Feature ID	
SP9070	
Type	
Northwest	
Latitude	Longitude
-90.032283	
Orientation	
38.733676	
Comment	
Photo of SP9070 facing Northwest	



Photo ID	
SP9070_B	
Feature ID	
SP9070	
Type	
Southeast	
Latitude	Longitude
-90.032283	
Orientation	
38.733676	
Comment	
Photo of SP9070 facing Southeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 2/13/2023
Feature Id: SP9071	

Photo ID	
SP9071_A	
Feature ID	
SP9071	
Type	
Northwest	
Latitude	Longitude
-90.032161	
Orientation	
38.733743	
Comment	
Photo of SP9071 facing Northwest	



Photo ID	
SP9071_B	
Feature ID	
SP9071	
Type	
Southeast	
Latitude	Longitude
-90.032161	
Orientation	
38.733743	
Comment	
Photo of SP9071 facing Southeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 2/13/2023
Feature Id: SP9072	

Photo ID	
SP9072_A	
Feature ID	
SP9072	
Type	
Southwest	
Latitude	Longitude
-90.033977	
Orientation	
38.733967	
Comment	
Photo of SP9072 facing Southwest	



Photo ID	
SP9072_B	
Feature ID	
SP9072	
Type	
Northeast	
Latitude	Longitude
-90.033977	
Orientation	
38.733967	
Comment	
Photo of SP9072 facing Northeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 2/13/2023
Feature Id: SP9073	

Photo ID	
SP9073_A	
Feature ID	
SP9073	
Type	
Northeast	
Latitude	Longitude
-90.032669	
Orientation	
38.734763	
Comment	
Photo of SP9073 facing Northeast	



Photo ID	
SP9073_B	
Feature ID	
SP9073	
Type	
Southwest	
Latitude	Longitude
-90.032669	
Orientation	
38.734763	
Comment	
Photo of SP9073 facing Southwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 2/13/2023
Feature Id: SP9074	

Photo ID	
SP9074_A	
Feature ID	
SP9074	
Type	
Southwest	
Latitude	Longitude
-90.03296	
Orientation	
38.735341	
Comment	
Photo of SP9074 facing Southwest	



Photo ID	
SP9074_B	
Feature ID	
SP9074	
Type	
Northeast	
Latitude	Longitude
-90.03296	
Orientation	
38.735341	
Comment	
Photo of SP9074 facing Northeast	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 2/13/2023
Feature Id: SP9075	

Photo ID	
SP9075_A	
Feature ID	
SP9075	
Type	
Northeast	
Latitude	Longitude
-90.033578	
Orientation	
38.735313	
Comment	
Photo of SP9075 facing Northeast	



Photo ID	
SP9075_B	
Feature ID	
SP9075	
Type	
Southwest	
Latitude	Longitude
-90.033578	
Orientation	
38.735313	
Comment	
Photo of SP9075 facing Southwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 2/14/2023
Feature Id: SP9076	

Photo ID	
SP9076_A	
Feature ID	
SP9076	
Type	
South	
Latitude	Longitude
-90.026031	
Orientation	
38.764995	
Comment	
Photo of SP9076 facing South	



Photo ID	
SP9076_B	
Feature ID	
SP9076	
Type	
North	
Latitude	Longitude
-90.026031	
Orientation	
38.764995	
Comment	
Photo of SP9076 facing North	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 2/14/2023
Feature Id: SP9077	

Photo ID	
SP9077_A	
Feature ID	
SP9077	
Type	
South	
Latitude	Longitude
-90.030591	
Orientation	
38.755963	
Comment	
Photo of SP9077 facing South	



Photo ID	
SP9077_B	
Feature ID	
SP9077	
Type	
North	
Latitude	Longitude
-90.030591	
Orientation	
38.755963	
Comment	
Photo of SP9077 facing North	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 2/14/2023
Feature Id: SP9078	

Photo ID	
SP9078_A	
Feature ID	
SP9078	
Type	
East	
Latitude	Longitude
-90.030137	
Orientation	
38.752797	
Comment	
Photo of SP9078 facing East	



Photo ID	
SP9078_B	
Feature ID	
SP9078	
Type	
West	
Latitude	Longitude
-90.030137	
Orientation	
38.752797	
Comment	
Photo of SP9078 facing West	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 2/14/2023
Feature Id: SP9079	

Photo ID	
SP9079_A	
Feature ID	
SP9079	
Type	
North	
Latitude	Longitude
-90.030541	
Orientation	
38.759888	
Comment	
Photo of SP9079 facing North	



Photo ID	
SP9079_B	
Feature ID	
SP9079	
Type	
South	
Latitude	Longitude
-90.030541	
Orientation	
38.759888	
Comment	
Photo of SP9079 facing South	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Stream	Date: 2/14/2023
Feature Id: SP9080	

Photo ID	
SP9080_A	
Feature ID	
SP9080	
Type	
West	
Latitude	Longitude
-90.030316	
Orientation	
38.760038	
Comment	
Photo of SP9080 facing West	



Photo ID	
SP9080_B	
Feature ID	
SP9080	
Type	
East	
Latitude	Longitude
-90.030316	
Orientation	
38.760038	
Comment	
Photo of SP9080 facing East	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Open Water	Date: 9/12/2022
Feature Id: OWP9001	

Photo ID	
OWP9001_A	
Feature ID	
OWP9001	
Type	
Natural Pond	
Latitude	Longitude
38.808599	-90.022925
Orientation	
Northeast	
Comment	
Photo of OWP9001 facing Northeast	



Photo ID	
OWP9001_B	
Feature ID	
OWP9001	
Type	
Natural Pond	
Latitude	Longitude
38.808599	-90.022925
Orientation	
Southwest	
Comment	
Photo of OWP9001 facing Southwest	



PHOTOGRAPHIC LOG

Project Name: Ameresco Landfill Project	County: Madison
Client Name: Enable Mississippi River Transmission	State: Illinois
SamplingPoint: Open Water	Date: 9/12/2022
Feature Id: OWP9002	

Photo ID	
OWP9002_A	
Feature ID	
OWP9002	
Type	
Natural Pond	
Latitude	Longitude
38.763419	-90.031521
Orientation	
East	
Comment	
Photo of OWP9002 facing East	



Photo ID	
OWP9002_B	
Feature ID	
OWP9002	
Type	
Natural Pond	
Latitude	Longitude
38.763419	-90.031521
Orientation	
North	
Comment	
Photo of OWP9002 facing North	



Appendix C
Agency Correspondence



United States Department of the Interior

U.S. FISH AND WILDLIFE SERVICE

Southern Illinois Sub-Office (ES)

8588 Route 148

Marion, Illinois 62959



In Reply Refer To:

FWS/SISO

Consultation Code: 2023-0046916

March 8, 2023

Michelle Cortez
Perennial Environmental Services, LLC

Thank you for the February 20, 2023, email requesting review of the Enable MRT Ameresco Landfill Project in Madison County, Illinois on behalf of the Federal Energy Regulatory Commission. The proposed project involves 7 miles of new pipeline lateral, a meter station, and contractor yard. These comments are provided under the authority of and in accordance with the provisions of the Endangered Species Act of 1973, as amended; the Fish and Wildlife Coordination Act; the Migratory Bird Treaty Act, and the National Environmental Policy Act.

Fish and Wildlife Resources

Although we have no objection to the proposed project, we recommend that impacts to streams and/or wetlands be avoided or minimized to the greatest extent possible. Activities in the project area that would alter streams and/or wetlands may require a Section 404 permit from the US Army Corps of Engineers.

Threatened and Endangered Species

To facilitate compliance with Section 7(c) of the Endangered Species Act of 1973, as amended, Federal agencies are required to obtain from the Fish and Wildlife Service (Service) information concerning any species, listed or proposed to be listed, which may be present in the area of a proposed action. You provided a species list of was obtained from the Service's Information for Planning and Conservation (IPaC) website on February 17, 2023. That list includes the endangered Indiana bat, threatened decurrent false aster, threatened eastern massasauga rattlesnake, threatened eastern prairie fringed orchid, threatened northern long-eared bat, proposed as endangered tricolored bat, and candidate monarch butterfly. There is no designated critical habitat in the project area currently.

Information in your consultation letter indicates that impacts to potential habitat of the eastern prairie fringed orchid and decurrent false aster will be avoided, thus you have determined the proposed project will have no effect on these species. This precludes the need for further action on this project as required under Section 7 of the Endangered Species Act of 1973, as amended, for these species.

Information in your letter indicates that minimal tree clearing will be necessary and will occur from October 1 to March 31 to avoid impacts to the listed bat species. Based on this information, the Service concurs that the proposed project is not likely to adversely affect the Indiana bat and

northern long-eared bat. The proposed measures should also avoid and minimize impacts to the tricolored bat; thus, the Service has determined that the proposed project is not likely to jeopardize the continued existence of the tricolored bat. If the proposed project extends beyond the final listing for the species, reinitiation of consultation may be necessary.

Based on the project description and location, the Service concurs that the proposed project is not likely to adversely affect the eastern massasauga rattlesnake and is not likely to jeopardize the continued existence of the monarch butterfly. Should this project be modified, or new information indicate listed or proposed species may be affected, consultation or additional coordination with this office, as appropriate, should be initiated.

Thank you for the opportunity to provide comment on the proposed project. For additional coordination, please contact me at (618) 998-5945.

Sincerely,

/s/ Matthew T. Mangan

Fish and Wildlife Biologist