



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, ST. LOUIS DISTRICT
1222 SPRUCE STREET
ST. LOUIS, MISSOURI 63103

CEMVS-RD

April 1, 2026

MEMORANDUM FOR RECORD

SUBJECT: US Army Corps of Engineers (Corps) Approved Jurisdictional Determination in accordance with the "Revised Definition of 'Waters of the United States'"; (88 FR 3004 (January 18, 2023) as amended by the "Revised Definition of 'Waters of the United States'; Conforming" (8 September 2023) ,¹ [MVS-2026-00039 \(MFR 1 of 1\)](#)²

BACKGROUND. An Approved Jurisdictional Determination (AJD) is a Corps document stating the presence or absence of waters of the United States on a parcel or a written statement and map identifying the limits of waters of the United States on a parcel. AJDs are clearly designated appealable actions and will include a basis of JD with the document.³ AJDs are case-specific and are typically made in response to a request. AJDs are valid for a period of five years unless new information warrants revision of the determination before the expiration date or a District Engineer has identified, after public notice and comment, that specific geographic areas with rapidly changing environmental conditions merit re-verification on a more frequent basis.⁴

On January 18, 2023, the Environmental Protection Agency (EPA) and the Department of the Army ("the agencies") published the "Revised Definition of 'Waters of the United States,'" 88 FR 3004 (January 18, 2023) ("2023 Rule"). On September 8, 2023, the agencies published the "Revised Definition of 'Waters of the United States'; Conforming", which amended the 2023 Rule to conform to the 2023 Supreme Court decision in *Sackett v. EPA*, 598 U.S., 143 S. Ct. 1322 (2023) ("*Sackett*").

This Memorandum for Record (MFR) constitutes the basis of jurisdiction for a Corps AJD as defined in 33 CFR §331.2. For the purposes of this AJD, we have relied on Section 10 of the Rivers and Harbors Act of 1899 (RHA),⁵ the 2023 Rule as amended, as well as other applicable guidance, relevant case law, and longstanding practice in evaluating jurisdiction.

¹ While the Revised Definition of "Waters of the United States"; Conforming had no effect on some categories of waters covered under the CWA, and no effect on any waters covered under RHA, all categories are included in this Memorandum for Record for efficiency.

² When documenting aquatic resources within the review area that are jurisdictional under the Clean Water Act (CWA), use an additional MFR and group the aquatic resources on each MFR based on the TNW, the territorial seas, or interstate water that they are connected to. Be sure to provide an identifier to indicate when there are multiple MFRs associated with a single AJD request (i.e., number them 1, 2, 3, etc.).

³ 33 CFR 331.2.

⁴ Regulatory Guidance Letter 05-02.

⁵ USACE has authority under both Section 9 and Section 10 of the Rivers and Harbors Act of 1899 but for convenience, in this MFR, jurisdiction under RHA will be referred to as Section 10.

CEMVS-RD

SUBJECT: 2023 Rule, as amended, Approved Jurisdictional Determination in Light of *Sackett v. EPA*, 143 S. Ct. 1322 (2023), [[MVS-2026-00039](#)]

1. SUMMARY OF CONCLUSIONS.

- a. Provide a list of each individual feature within the review area and the jurisdictional status of each one (i.e., identify whether each feature is/is not a water of the United States and/or a navigable water of the United States).

[See Appendix A – Aquatic Resources.](#) In total, 86 aquatic resources were determined to be regulated under Section 404 of the Clean Water Act, while an additional 92 aquatic resources were determined to be non-regulated.

[Note:](#) The following aquatic resources are excluded from this AJD: WG006, WG007, WG008, WG009, WG010, WG011, WG015, WG016, WG024, WG025, WA027.

2. REFERENCES.

- a. “Revised Definition of ‘Waters of the United States,’” 88 FR 3004 (January 18, 2023) (“2023 Rule”)
- b. “Revised Definition of ‘Waters of the United States’; Conforming” 88 FR 61964 (September 8, 2023)
- c. *Sackett v. EPA*, 598 U.S. 651, 143 S. Ct. 1322 (2023)
- d. Memorandum To The Field Between The U.S. Department Of The Army, U.S. Army Corps Of Engineers And The U.S. Environmental Protection Agency Concerning The Proper Implementation Of ‘Continuous Surface Connection’ Under The Definition Of “Waters Of The United States” Under The Clean Water Act” (March 12, 2025).

3. REVIEW AREA. [The Review Area consists of an approximately 2,967-acre area of privately owned - undeveloped, vacant agricultural land located north and south of Illinois Route 154 just east of Pinckneyville, Perry County, Illinois. Much of the land was previously strip mined. Approximate geographic coordinates for the site are Latitude 38.0718° and Longitude -89.3199°. The Review Area is illustrated on the attached “Delineation Results Map”.](#)

4. NEAREST TRADITIONAL NAVIGABLE WATER (TNW), THE TERRITORIAL SEAS, OR INTERSTATE WATER TO WHICH THE AQUATIC RESOURCE IS CONNECTED. [Big Muddy River \(TNW\)](#)

5. FLOWPATH FROM THE SUBJECT AQUATIC RESOURCES TO A TNW, THE TERRITORIAL SEAS, OR INTERSTATE WATER. [Tributaries of Panther Creek and Little Beaucoup Creek are the receiving waters for all the surface drainage that leaves the Review Area. All tributaries eventually enter Panther Creek followed by Beaucoup Creek, which eventually intersects the Big Muddy River, a TNW. The Big Muddy River is a Section 10 water from mile 0 to mile 51.9, near DeSoto, Illinois.](#)
6. SECTION 10 JURISDICTIONAL WATERS⁶: Describe aquatic resources or other features within the review area determined to be jurisdictional in accordance with Section 10 of the Rivers and Harbors Act of 1899. Include the size of each aquatic resource or other feature within the review area and how it was determined to be jurisdictional in accordance with Section 10.⁷ [N/A](#)
7. SECTION 404 JURISDICTIONAL WATERS: Describe the aquatic resources within the review area that were found to meet the definition of waters of the United States in accordance with the 2023 Rule as amended, consistent with the Supreme Court's decision in *Sackett*. List each aquatic resource separately, by name, consistent with the naming convention used in section 1, above. Include a rationale for each aquatic resource, supporting that the aquatic resource meets the relevant category of "waters of the United States" in the 2023 Rule as amended. The rationale should also include a written description of, or reference to a map in the administrative record that shows, the lateral limits of jurisdiction for each aquatic resource, including how that limit was determined, and incorporate relevant references used. Include the size of each aquatic resource in acres or linear feet and attach and reference related figures as needed.
 - a. Traditional Navigable Waters (TNWs) (a)(1)(i): [N/A](#)
 - b. The Territorial Seas (a)(1)(ii): [N/A](#)
 - c. Interstate Waters (a)(1)(iii): [N/A](#)
 - d. Impoundments (a)(2): [N/A](#)
 - e. Tributaries (a)(3): [Twenty-eight \(28\) aquatic resources were determined to satisfy the definition of \(a\)\(3\) tributaries as they are natural, man-altered, or man-made water bodies that flow directly or indirectly into \(a\)\(1\) waters or \(a\)\(2\) impoundments and meet the relatively permanent standard. Each tributary or a](#)

⁶ 33 CFR 329.9(a) A waterbody which was navigable in its natural or improved state, or which was susceptible of reasonable improvement (as discussed in § 329.8(b) of this part) retains its character as "navigable in law" even though it is not presently used for commerce, or is presently incapable of such use because of changed conditions or the presence of obstructions.

⁷ This MFR is not to be used to make a report of findings to support a determination that the water is a navigable water of the United States. The district must follow the procedures outlined in 33 CFR part 329.14 to make a determination that water is a navigable water of the United States subject to Section 10 of the RHA.

combination of the tributaries listed below are first, second, or third-order tributaries that were often observed with standing or flowing water during the field delineation visits. These features have seasonal or year-round groundwater connections and/or large enough watershed that a concentrated period of back-to-back precipitation events leads to sustained flow through a combination of runoff and upstream contributions of flow. Physical characteristics combined with watershed conditions provide weight-of-evidence that these tributaries have flowing or standing water year-round or continuously during certain times of the year, which is necessary to meet the relatively permanent standard. SA001_INT, SA002_INT, SA003_INT, SA005_EPH, SA005_INT, SA006_INT, SA007_PER, SA008_INT, SA009_INT, SA010_INT, SA011_INT, SA012_INT, SA013_INT, SA014_INT, SA015_INT, SB001_INT, SB002_INT, SB003_INT, SB005_INT, SB007_INT, SC001, SC005_INT, SC006_INT, SC007_INT, SE001_INT, SG001, SG002, and SG004.

Adjacent Wetlands (a)(4): Fifty-eight (58) wetlands were determined to satisfy the definition of (a)(4)(ii) waters as they are wetlands adjacent to a relatively permanent paragraph (a)(2) impoundments or (a)(3) tributaries. Each of the following wetlands directly abut an (a)(2) and/or (a)(3) water: WA004_PEM, WA004_PFO, WA005_PEM, WA005_PFO, WA006, WA008, WA009_PEM, WA009_PFO, WA010, WA012, WA013, WA014, WA015, WA016_PEM, WA016_PFO, WA016_PUB, WA017_PEM, WA017_PFO, WA018, WA019, WA020_PEM, WA020_PFO, WA021, WA023_PEM, WA023_PFO, WA023_PSS, WA023_PUB, WA024, WA025_PEM, WA025_PFO, WB010, WB011, WB015, WB016_PEM, WB016_PFO, WB019_PEM, WB019_PFO, WB020, WB021_PEM, WB021_PSS, WB022_PEM, WB022_PFO, WB022_PSS, WB023, WC001, WC002_PEM, WC002_PFO, WC003, WC005, WC006_PEM, WC006_PFO, WC007, WE009, WG002, WG014_PEM, WG014_PFO, WG018, WG019

f. Additional Waters (a)(5): [N/A](#)

8. NON-JURISDICTIONAL AQUATIC RESOURCES AND FEATURES

- a. Describe aquatic resources and other features within the review area identified in the 2023 Rule as amended as not “waters of the United States” even where they otherwise meet the terms of paragraphs (a)(2) through (5). Include the type of excluded aquatic resource or feature, the size of the aquatic resource or feature within the review area and describe how it was determined to meet one of the exclusions listed in 33 CFR 328.3(b).⁸

⁸ 88 FR 3004 (January 18, 2023)

(b)(3) Ditches excavated wholly in and draining only dry land and that do not carry a relatively permanent flow of water (Excluded): Twenty-one (21) aquatic resources were determined to be non-jurisdictional because they satisfy the definition of the paragraph (b)(3) exclusion: DA001, DA002, DB001, DB002, DB003, DB004, DB005, DC001, DE001, DE002, DE003, DE004, DE005, DE006, DE007, DG001, WB001, WB002, WB025, WD005, and WG017

(b)(8) Swales and erosional features (e.g., gullies, small washes) characterized by low volume, infrequent, or short duration flow (Excluded): Three (3) aquatic resources were determined to be non-jurisdictional because they satisfy the definition of the paragraph (b)(8) exclusion: SFB001, SFB002, and SFB003. Each of these features lack an OHWM and flow coincides with precipitation events and cease shortly after the termination of overland run-off.

- b. Describe aquatic resources and features within the review area that were determined to be non-jurisdictional because they do not meet one or more categories of waters of the United States under the 2023 Rule as amended (e.g., tributaries that are non-relatively permanent waters; non-tidal wetlands that do not have a continuous surface connection to a jurisdictional water).

Wetlands that do not have a continuous surface connection to a paragraph (a)(1) water or to a relatively permanent paragraph (a)(2) impoundment or paragraph (a)(3) tributary: Fifty-nine (59) wetlands were determined to be non-jurisdictional because they do not satisfy the definition of paragraph (a)(4) waters. Each of the wetlands listed below lies within a depressional area with no surface connection to another aquatic resource, abuts a non-relatively permanent water, or is separated from requisite water by a discrete feature. As such, these wetlands do not possess CSC to an RPW. WA001, WA002_PEM, WA002_PFO, WA003, WA007, WA011, WA022, WA026, WB003, WB004, WB005, WB006, WB007, WB008, WB009, WB012_PEM, WB012_PFO, WB013, WB014_PEM, WB014_PFO, WB017_PEM, WB017_PFO, WB018, WB024, WB026, WB027, WC004, WC008, WC009, WD001, WD002, WD003_PEM, WD003_PFO, WD004, WD006, WD007, WD008, WD009_PEM, WD009_PFO, WE001, WE002, WE003, WE004, WE005, WE006, WE007, WE008, WE010, WE011, WG001, WG003, WG004, WG005, WG012, WG013, WG020, WG021, WG022, and WG023

Tributaries evaluated under (a)(3) and determined to not be relatively permanent waters with a continuous surface connection to paragraph (a)(1) or (a)(3) water: Nine (9) tributaries were determined to be non-jurisdictional because they do not satisfy the definition of (a)(3) waters as they are non-relatively permanent waters. Each of these headwater tributaries lie within the upper extents of small watersheds generally ranging from 2-acres to 20-acres in size. The onset of streamflow coincides with precipitation events and cease shortly after the termination of overland run-off. Even with presumed back-to-back or multiple storm events throughout their watersheds, these systems would not sustain baseflows for extended periods of time, but rather maintain a repeated sequence of streamflow, flow cessation, and channel drying throughout the year. Based on their location within the local watershed and the lack of standing or flowing water for more than a short duration in direct response to precipitation, the following features would not meet the Relatively Permanent Standard: SA004_EPH, SB004_EPH, SB006_EPH, SC002_EPH, SC003_EPH, SC004_EPH, SC006_EPH, SD001_INT, and SG003.

9. DATA SOURCES. List sources of data/information used in making determination. Include titles and dates of sources used and ensure that information referenced is available in the administrative record.\

- a. Wetland Resources Report – SWCA Environmental Consultants (August 2025)
- b. USACE Site Visit; March 27, 2026
- c. USGS Topographic Maps, 1:24,000 Scale, Pyatts, IL Quad
- d. USGS NHDPlus, Accessed March 26, 2026
- e. USGS StreamStats, Accessed March 26, 2026
- f. Antecedent Precipitation Tool
- g. USDA-NRCS Soil Survey for Perry County, Illinois, Accessed March 26, 2026
- h. USFWS National Wetland Inventory, Color Infrared, 1980's, 1:58,000 Scale
- i. Illinois Height Modernization (ILHMP) LiDAR Data
- j. Illinois Historic Aerial Photography – ISGS Geospatial Data Clearinghouse
- k. Google Earth Pro Aerial Imagery, Various Aerial Images

10. OTHER SUPPORTING INFORMATION.

11. NOTE: The structure and format of this MFR were developed in coordination with the EPA and Department of the Army. The MFR's structure and format may be subject to future modification or may be rescinded as needed to implement additional guidance from the agencies; however, the approved jurisdictional determination described herein is a final agency action.

Appendix A - Aquatic Resources

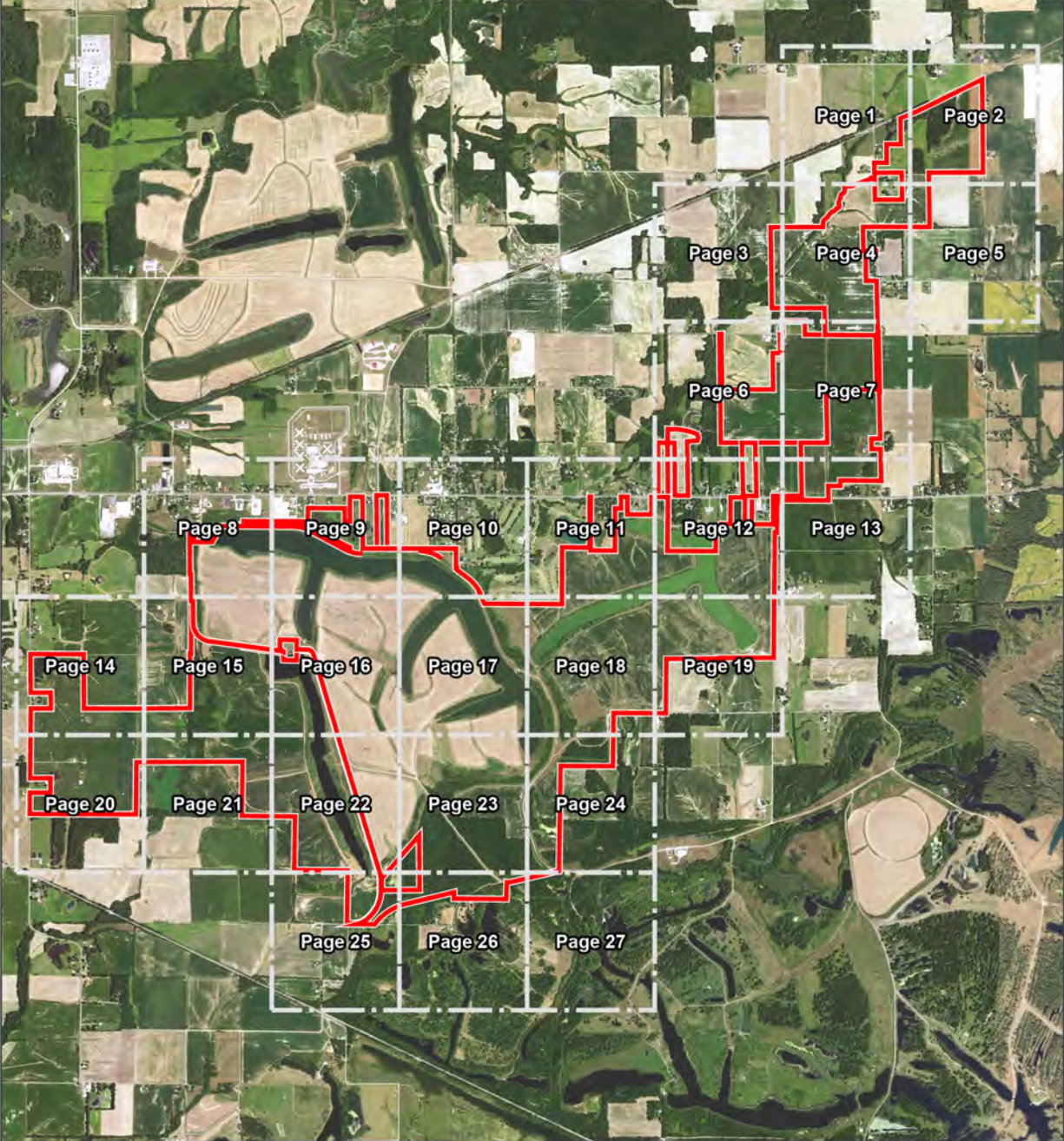
Aquatic Resource	Size	Status	Latitude	Longitude
DA001	113 FEET	Non-jurisdictional	38.08261	-89.29033
DA002	140 FEET	Non-jurisdictional	38.06459	-89.30733
DB001	885 FEET	Non-jurisdictional	38.07621	-89.33494
DB002	247 FEET	Non-jurisdictional	38.07323	-89.33101
DB003	183 FEET	Non-jurisdictional	38.07151	-89.32178
DB004	210 FEET	Non-jurisdictional	38.07203	-89.32291
DB005	2545 FEET	Non-jurisdictional	38.06695	-89.32573
DC001	60 FEET	Non-jurisdictional	38.05601	-89.3134
DE001	84 FEET	Non-jurisdictional	38.07718	-89.32523
DE002	119 FEET	Non-jurisdictional	38.07717	-89.32341
DE003	64 FEET	Non-jurisdictional	38.07718	-89.31973
DE004	161 FEET	Non-jurisdictional	38.07534	-89.31789
DE005	49 FEET	Non-jurisdictional	38.0723	-89.32172
DE006	87 FEET	Non-jurisdictional	38.07028	-89.32057
DE007	60 FEET	Non-jurisdictional	38.07215	-89.31386
DG001	296 FEET	Non-jurisdictional	38.06169	-89.32962
SA001_INT	1091 FEET	Jurisdictional (Section 404)	38.0829	-89.3213
SA002_INT	651 FEET	Jurisdictional (Section 404)	38.10756	-89.27589
SA003_INT	1681 FEET	Jurisdictional (Section 404)	38.10592	-89.27385
SA004_EPH	60 FEET	Non-jurisdictional	38.10663	-89.27533
SA005_EPH	413 FEET	Jurisdictional (Section 404)	38.10109	-89.27646
SA005_INT	1328 FEET	Jurisdictional (Section 404)	38.10113	-89.27839
SA006_INT	472 FEET	Jurisdictional (Section 404)	38.07087	-89.30841
SA007_PER	3232 FEET	Jurisdictional (Section 404)	38.10351	-89.28123
SA008_INT	93 FEET	Jurisdictional (Section 404)	38.10151	-89.28263
SA009_INT	160 FEET	Jurisdictional (Section 404)	38.104	-89.28005
SA010_INT	784 FEET	Jurisdictional (Section 404)	38.10439	-89.27864
SA011_INT	93 FEET	Jurisdictional (Section 404)	38.10123	-89.28286
SA012_INT	149 FEET	Jurisdictional (Section 404)	38.09985	-89.28525
SA013_INT	92 FEET	Jurisdictional (Section 404)	38.06329	-89.31686
SA014_INT	366 FEET	Jurisdictional (Section 404)	38.06394	-89.31422
SA015_INT	152 FEET	Jurisdictional (Section 404)	38.06394	-89.31422
SB001_INT	91 FEET	Jurisdictional (Section 404)	38.08027	-89.33814
SB002_INT	456 FEET	Jurisdictional (Section 404)	38.0564	-89.31473
SB003_INT	102 FEET	Jurisdictional (Section 404)	38.05526	-89.31921
SB004_EPH	1572 FEET	Non-jurisdictional	38.05975	-89.31559
SB005_INT	339 FEET	Jurisdictional (Section 404)	38.06364	-89.31871
SB006_EPH	794 FEET	Non-jurisdictional	38.06846	-89.32216
SB007_INT	243 FEET	Jurisdictional (Section 404)	38.07897	-89.32342
SC001	9894 FEET	Jurisdictional (Section 404)	38.07548	-89.31272
SC002_EPH	184 FEET	Non-jurisdictional	38.06303	-89.31445
SC003_EPH	242 FEET	Non-jurisdictional	38.06356	-89.31428

SC004_EPH	97 FEET	Non-jurisdictional	38.05548	-89.31827
SC005_INT	911 FEET	Jurisdictional (Section 404)	38.05571	-89.31566
SC006_EPH	171 FEET	Non-jurisdictional	38.05583	-89.32156
SC006_INT	371 FEET	Jurisdictional (Section 404)	38.07988	-89.32344
SC007_INT	997 FEET	Jurisdictional (Section 404)	38.07988	-89.32344
SD001_INT	223 FEET	Non-jurisdictional	38.07768	-89.29671
SE001_INT	130 FEET	Jurisdictional (Section 404)	38.07986	-89.29971
SFB001	160 FEET	Non-jurisdictional	38.07986	-89.29971
SFB002	187 FEET	Non-jurisdictional	38.0686	-89.32289
SFB003	141 FEET	Non-jurisdictional	38.05627	-89.3143
SG001	665 FEET	Jurisdictional (Section 404)	38.09333	-89.29223
SG002	61 FEET	Jurisdictional (Section 404)	38.09078	-89.29221
SG003	316 FEET	Non-jurisdictional	38.08268	-89.29716
SG004	804 FEET	Jurisdictional (Section 404)	38.0829	-89.3213
WA001	.34 ACRES	Non-jurisdictional	38.08408	-89.28953
WA002_PEM	.05 ACRES	Non-jurisdictional	38.08295	-89.29004
WA002_PFO	.29 ACRES	Non-jurisdictional	38.08305	-89.28982
WA003	.39 ACRES	Non-jurisdictional	38.08619	-89.28268
WA004_PEM	.62 ACRES	Jurisdictional (Section 404)	38.10709	-89.27465
WA004_PFO	8.14 ACRES	Jurisdictional (Section 404)	38.10854	-89.27316
WA005_PEM	.05 ACRES	Jurisdictional (Section 404)	38.10734	-89.27625
WA005_PFO	2.76 ACRES	Jurisdictional (Section 404)	38.10817	-89.27568
WA006	2.55 ACRES	Jurisdictional (Section 404)	38.10734	-89.27625
WA007	.18 ACRES	Non-jurisdictional	38.10307	-89.27587
WA008	.23 ACRES	Jurisdictional (Section 404)	38.10114	-89.27822
WA009_PEM	.88 ACRES	Jurisdictional (Section 404)	38.10156	-89.28216
WA009_PFO	2.83 ACRES	Jurisdictional (Section 404)	38.10205	-89.27987
WA010	.28 ACRES	Jurisdictional (Section 404)	38.09918	-89.28368
WA011	.07 ACRES	Non-jurisdictional	38.0998	-89.28433
WA012	.02 ACRES	Jurisdictional (Section 404)	38.10059	-89.28359
WA013	4.77 ACRES	Jurisdictional (Section 404)	38.09757	-89.2868
WA014	.84 ACRES	Jurisdictional (Section 404)	38.10071	-89.28549
WA015	.75 ACRES	Jurisdictional (Section 404)	38.06253	-89.31752
WA016_PEM	3.49 ACRES	Jurisdictional (Section 404)	38.06523	-89.31704
WA016_PFO	.97 ACRES	Jurisdictional (Section 404)	38.06411	-89.31597
WA016_PUB	1.15 ACRES	Jurisdictional (Section 404)	38.0636	-89.31708
WA017_PEM	.23 ACRES	Jurisdictional (Section 404)	38.06368	-89.31621
WA017_PFO	.65 ACRES	Jurisdictional (Section 404)	38.0636	-89.31603
WA018	.21 ACRES	Jurisdictional (Section 404)	38.06647	-89.30999
WA019	.25 ACRES	Jurisdictional (Section 404)	38.06327	-89.31007
WA020_PEM	2.28 ACRES	Jurisdictional (Section 404)	38.06088	-89.30848
WA020_PFO	9.58 ACRES	Jurisdictional (Section 404)	38.06136	-89.30893
WA021	.15 ACRES	Jurisdictional (Section 404)	38.06463	-89.31167
WA022	.34 ACRES	Non-jurisdictional	38.06443	-89.30947

WA023_PEM	3.32 ACRES	Jurisdictional (Section 404)	38.0591	-89.30915
WA023_PFO	8.62 ACRES	Jurisdictional (Section 404)	38.05772	-89.30964
WA023_PSS	.18 ACRES	Jurisdictional (Section 404)	38.05645	-89.31134
WA023_PUB	.15 ACRES	Jurisdictional (Section 404)	38.05746	-89.30993
WA024	.09 ACRES	Jurisdictional (Section 404)	38.05821	-89.30668
WA025_PEM	3.41 ACRES	Jurisdictional (Section 404)	38.06463	-89.30366
WA025_PFO	10.33 ACRES	Jurisdictional (Section 404)	38.06513	-89.30369
WA026	.11 ACRES	Non-jurisdictional	38.06808	-89.30457
WB001	1.76 ACRES	Non-jurisdictional	38.07697	-89.33791
WB002	.24 ACRES	Non-jurisdictional	38.07494	-89.33786
WB003	.11 ACRES	Non-jurisdictional	38.0725	-89.33138
WB004	.13 ACRES	Non-jurisdictional	38.07432	-89.3305
WB005	.08 ACRES	Non-jurisdictional	38.07346	-89.33087
WB006	.17 ACRES	Non-jurisdictional	38.07188	-89.32221
WB007	.33 ACRES	Non-jurisdictional	38.07241	-89.3238
WB008	.2 ACRES	Non-jurisdictional	38.07371	-89.32153
WB009	.35 ACRES	Non-jurisdictional	38.07384	-89.3268
WB010	17.48 ACRES	Jurisdictional (Section 404)	38.05809	-89.31779
WB011	1.82 ACRES	Jurisdictional (Section 404)	38.05965	-89.31816
WB012_PEM	1.99 ACRES	Non-jurisdictional	38.06187	-89.31835
WB012_PFO	.97 ACRES	Non-jurisdictional	38.06208	-89.31818
WB013	.1 ACRES	Non-jurisdictional	38.05523	-89.31239
WB014_PEM	.47 ACRES	Non-jurisdictional	38.05568	-89.31356
WB014_PFO	.53 ACRES	Non-jurisdictional	38.05591	-89.31283
WB015	.99 ACRES	Jurisdictional (Section 404)	38.05641	-89.31458
WB016_PEM	.28 ACRES	Jurisdictional (Section 404)	38.05522	-89.31958
WB016_PFO	1.57 ACRES	Jurisdictional (Section 404)	38.05438	-89.32201
WB017_PEM	.14 ACRES	Non-jurisdictional	38.06081	-89.3137
WB017_PFO	1.89 ACRES	Non-jurisdictional	38.06002	-89.31506
WB018	.31 ACRES	Non-jurisdictional	38.06413	-89.32215
WB019_PEM	2.05 ACRES	Jurisdictional (Section 404)	38.06668	-89.32162
WB019_PFO	.59 ACRES	Jurisdictional (Section 404)	38.06701	-89.32203
WB020	.71 ACRES	Jurisdictional (Section 404)	38.07901	-89.32214
WB021_PEM	2.5 ACRES	Jurisdictional (Section 404)	38.08167	-89.3241
WB021_PSS	.76 ACRES	Jurisdictional (Section 404)	38.08213	-89.32406
WB022_PEM	.4 ACRES	Jurisdictional (Section 404)	38.08161	-89.3258
WB022_PFO	.79 ACRES	Jurisdictional (Section 404)	38.08196	-89.32524
WB022_PSS	1.98 ACRES	Jurisdictional (Section 404)	38.08171	-89.32635
WB023	.11 ACRES	Jurisdictional (Section 404)	38.08024	-89.32637
WB024	.08 ACRES	Non-jurisdictional	38.08943	-89.27934
WB025	.56 ACRES	Non-jurisdictional	38.08701	-89.27881
WB026	.13 ACRES	Non-jurisdictional	38.08338	-89.28196
WB027	.06 ACRES	Non-jurisdictional	38.08398	-89.28013
WC001	.22 ACRES	Jurisdictional (Section 404)	38.06187	-89.31684

WC002_PEM	.09 ACRES	Jurisdictional (Section 404)	38.06394	-89.31406
WC002_PFO	.88 ACRES	Jurisdictional (Section 404)	38.0656	-89.31357
WC003	.36 ACRES	Jurisdictional (Section 404)	38.06757	-89.31679
WC004	.17 ACRES	Non-jurisdictional	38.05616	-89.31177
WC005	.36 ACRES	Jurisdictional (Section 404)	38.05632	-89.31271
WC006_PEM	.11 ACRES	Jurisdictional (Section 404)	38.05541	-89.32196
WC006_PFO	.53 ACRES	Jurisdictional (Section 404)	38.05528	-89.32167
WC007	.16 ACRES	Jurisdictional (Section 404)	38.05541	-89.32196
WC008	1 ACRES	Non-jurisdictional	38.08223	-89.30058
WC009	1.66 ACRES	Non-jurisdictional	38.06808	-89.30156
WD001	5.21 ACRES	Non-jurisdictional	38.0713	-89.29947
WD002	.6 ACRES	Non-jurisdictional	38.07161	-89.29485
WD003_PEM	8.05 ACRES	Non-jurisdictional	38.08028	-89.29077
WD003_PFO	1.42 ACRES	Non-jurisdictional	38.08052	-89.28928
WD004	.27 ACRES	Non-jurisdictional	38.07711	-89.29048
WD005	.19 ACRES	Non-jurisdictional	38.07238	-89.28781
WD006	.94 ACRES	Non-jurisdictional	38.07478	-89.30915
WD007	.51 ACRES	Non-jurisdictional	38.07783	-89.29675
WD008	1.31 ACRES	Non-jurisdictional	38.07876	-89.30274
WD009_PEM	.29 ACRES	Non-jurisdictional	38.07784	-89.30413
WD009_PFO	.11 ACRES	Non-jurisdictional	38.07881	-89.30439
WE001	.08 ACRES	Non-jurisdictional	38.07529	-89.32715
WE002	.29 ACRES	Non-jurisdictional	38.07671	-89.32541
WE003	.28 ACRES	Non-jurisdictional	38.07676	-89.32335
WE004	1.03 ACRES	Non-jurisdictional	38.07589	-89.31988
WE005	.08 ACRES	Non-jurisdictional	38.07216	-89.32149
WE006	.54 ACRES	Non-jurisdictional	38.07216	-89.32149
WE007	.95 ACRES	Non-jurisdictional	38.07009	-89.31746
WE008	.59 ACRES	Non-jurisdictional	38.06367	-89.32143
WE009	1.71 ACRES	Jurisdictional (Section 404)	38.07943	-89.29973
WE010	.29 ACRES	Non-jurisdictional	38.08225	-89.29746
WE011	.44 ACRES	Non-jurisdictional	38.07688	-89.30593
WG001	.6 ACRES	Non-jurisdictional	38.08657	-89.2898
WG002	.63 ACRES	Jurisdictional (Section 404)	38.08686	-89.29133
WG003	1.07 ACRES	Non-jurisdictional	38.08959	-89.29176
WG004	.27 ACRES	Non-jurisdictional	38.0899	-89.28942
WG005	1.32 ACRES	Non-jurisdictional	38.09408	-89.28591
WG012	.56 ACRES	Non-jurisdictional	38.08476	-89.29581
WG013	.05 ACRES	Non-jurisdictional	38.08324	-89.29532
WG014_PEM	.88 ACRES	Jurisdictional (Section 404)	38.06171	-89.33355
WG014_PFO	.2 ACRES	Jurisdictional (Section 404)	38.06138	-89.33286
WG017	.52 ACRES	Non-jurisdictional	38.09178	-89.27851
WG018	1.08 ACRES	Jurisdictional (Section 404)	38.07011	-89.33197
WG019	.43 ACRES	Jurisdictional (Section 404)	38.05549	-89.32487

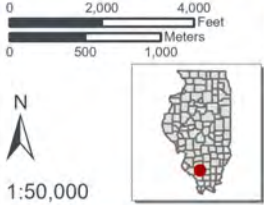
WG020	.07 ACRES	Non-jurisdictional	38.05663	-89.32273
WG021	.14 ACRES	Non-jurisdictional	38.05624	-89.3224
WG022	.14 ACRES	Non-jurisdictional	38.08338	-89.29751
WG023	.35 ACRES	Non-jurisdictional	38.0857	-89.29728



**PANTHER SOLAR
Delineation
Results Index
Map**

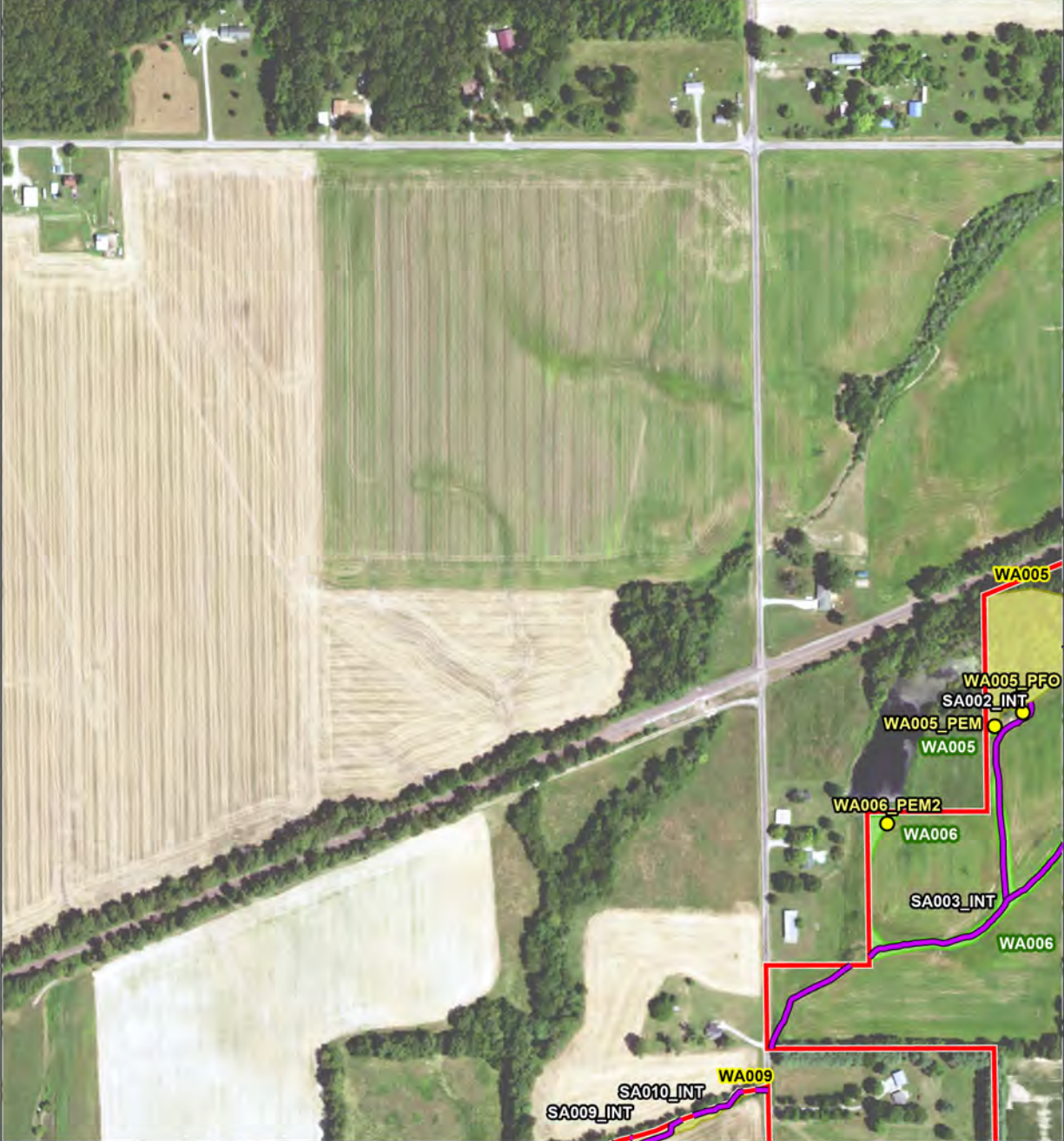
 Map Sheet
 Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0777°N 89.3086°W



Base Map: Esri ArcGIS Online,
accessed July 2025
Updated: 7/16/2025
Project No. 81920
Layout: 81920_NR_Index Results
Aprx: 81920_pantherSolar

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**PANTHER SOLAR
Delineation
Results Map**

Map 1 of 27

- Data Point
- Delineated Intermittent Stream Bank
- Delineated PEM Wetland
- Delineated PFO Wetland
- Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.1087°N 89.281°W

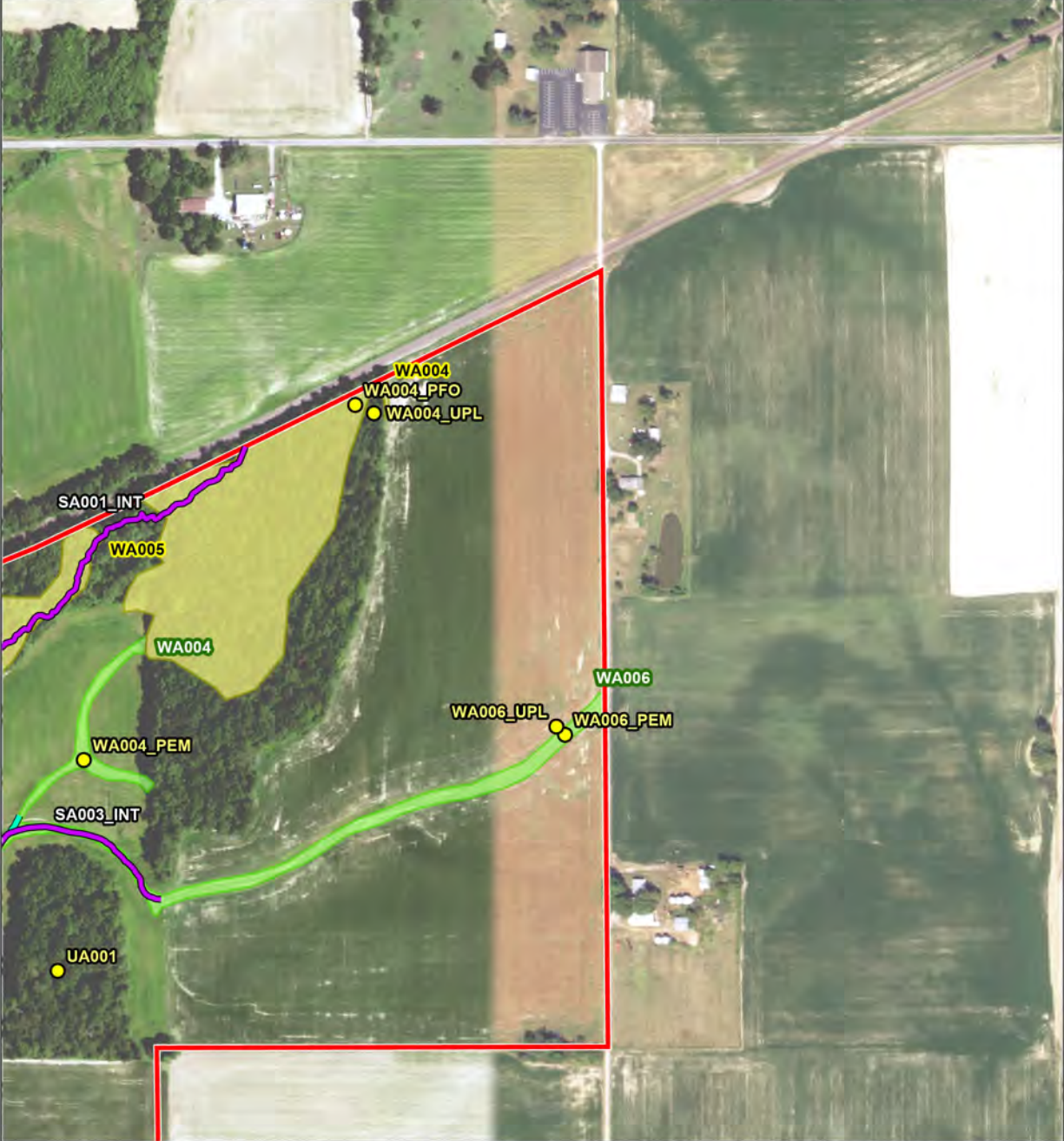


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Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar

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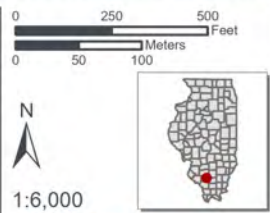


PANTHER SOLAR
Delineation
Results Map

Map 2 of 27

-  Data Point
-  Delineated Ephemeral Stream Bank
-  Delineated Intermittent Stream Bank
-  Delineated PEM Wetland
-  Delineated PFO Wetland
-  Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.1086°N 89.2699°W



Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar

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**PANTHER SOLAR
Delineation
Results Map**

Map 3 of 27

-  Data Point
-  Delineated Ephemeral Stream Bank
-  Delineated PEM Wetland
-  Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0993°N 89.2922°W

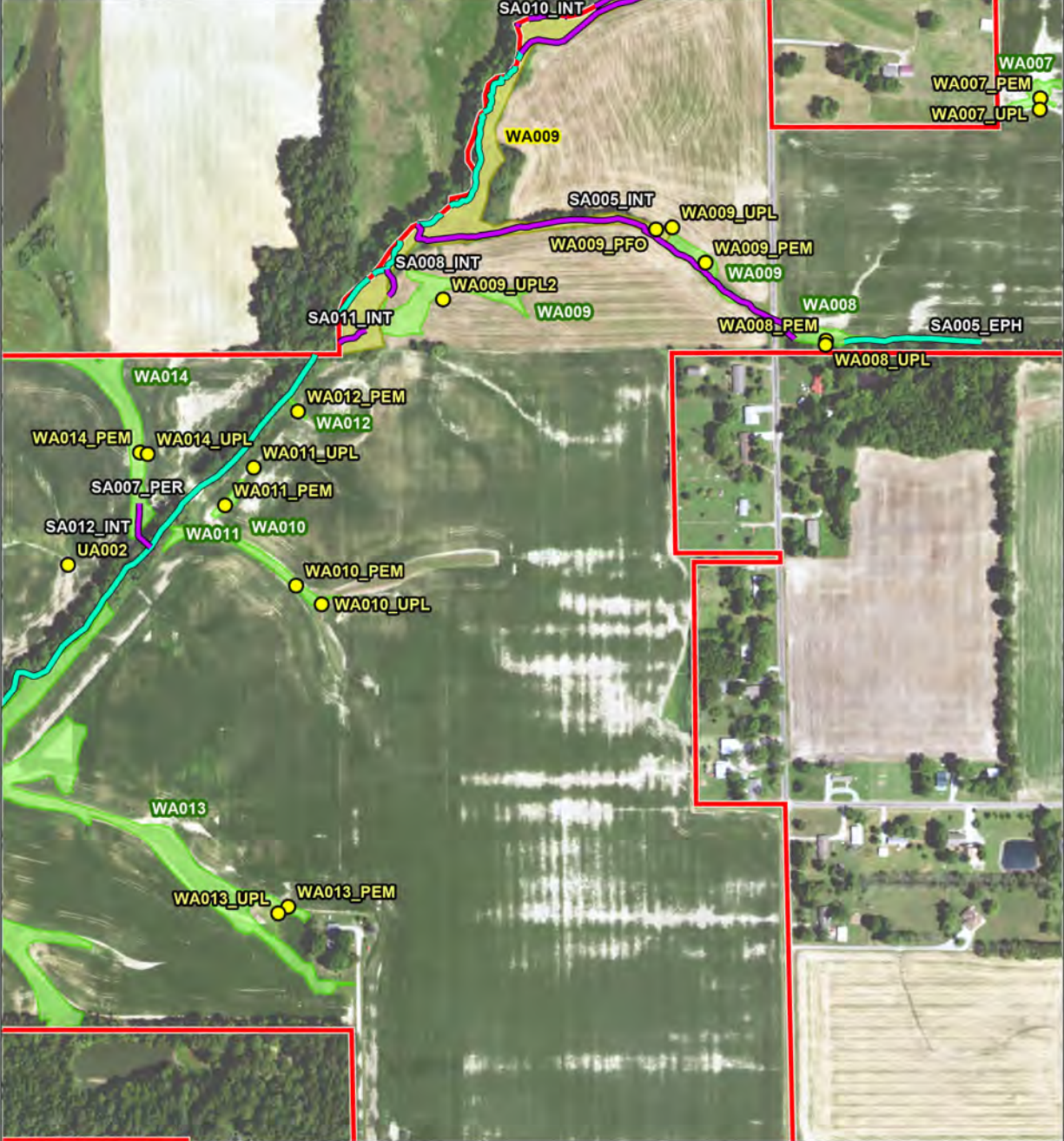


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Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar

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PANTHER SOLAR
Delineation
Results Map

Map 4 of 27

-  Data Point
-  Delineated Ephemeral Stream Bank
-  Delineated Intermittent Stream Bank
-  Delineated PEM Wetland
-  Delineated PFO Wetland
-  Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0992°N 89.2811°W

Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar



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**PANTHER SOLAR
Delineation
Results Map**

Map 5 of 27

-  Delineated PEM Wetland
-  Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0992°N 89.2701°W

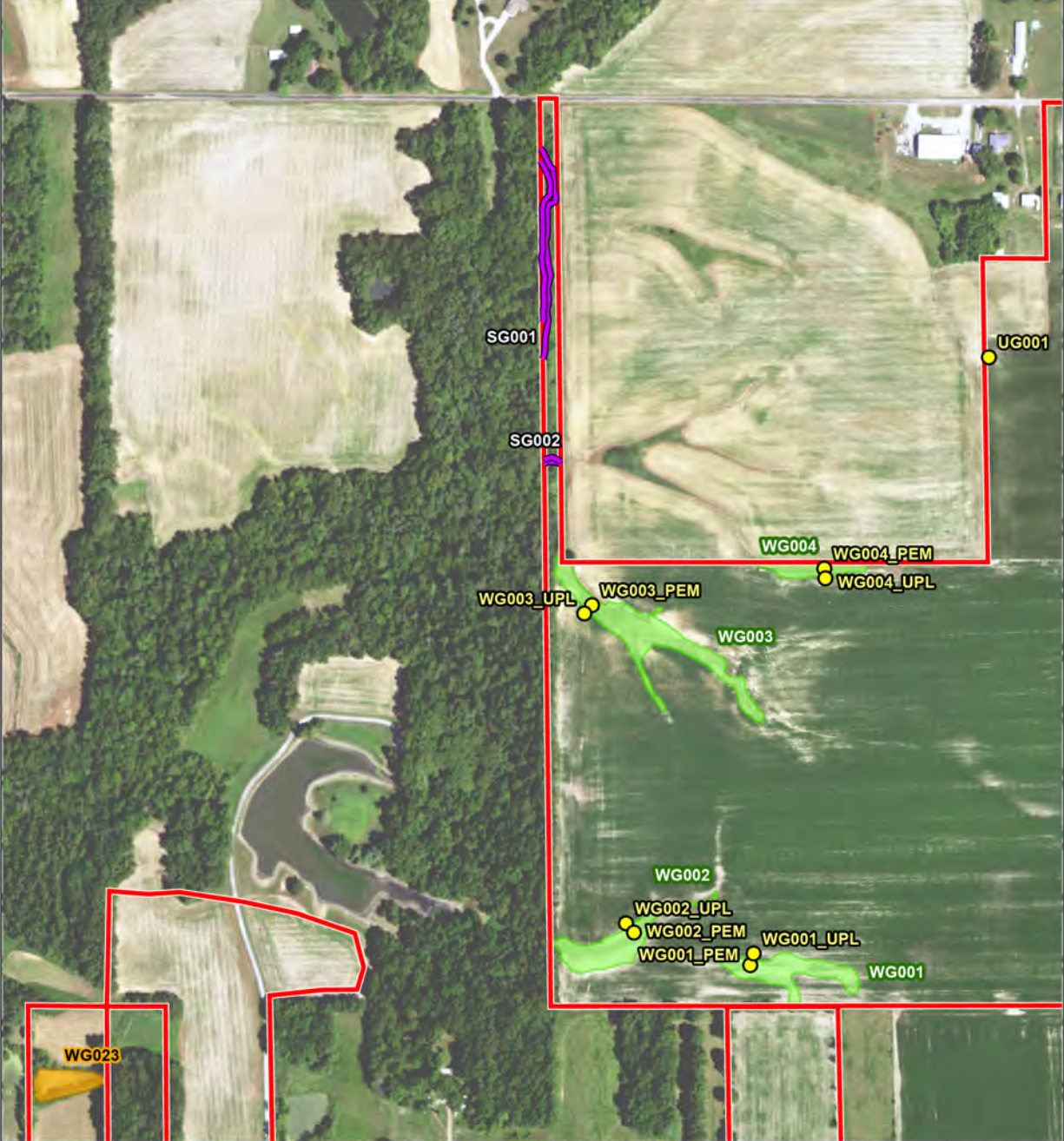
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accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar



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**PANTHER SOLAR
Delineation
Results Map**

Map 6 of 27

- Data Point
- Delineated Intermittent Stream Bank
- Delineated PEM Wetland
- Delineated PUB Wetland
- Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0899°N 89.2923°W

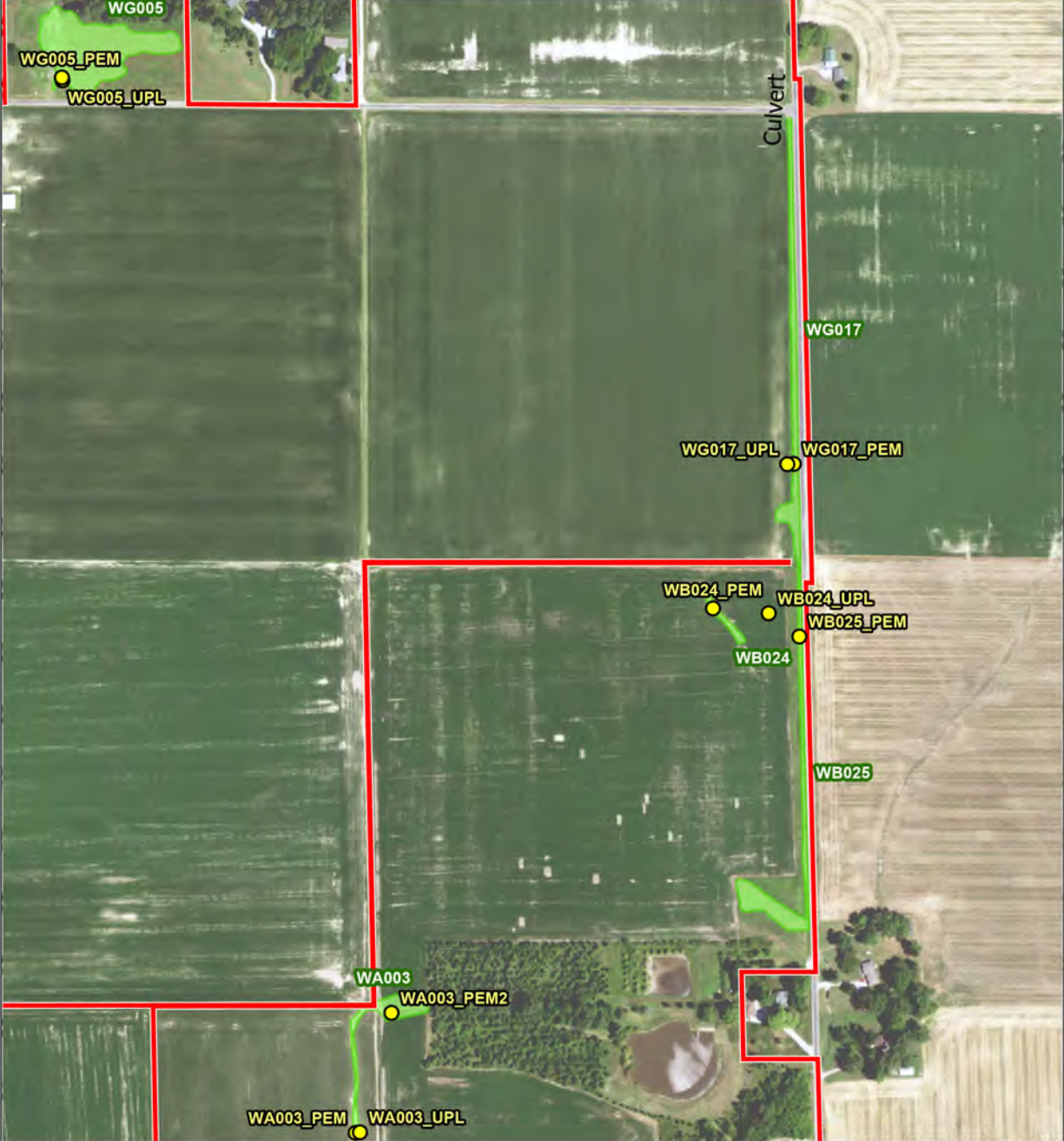


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Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar

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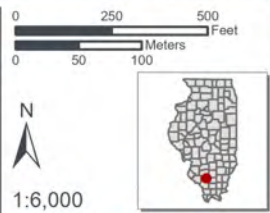


**PANTHER SOLAR
Delineation
Results Map**

Map 7 of 27

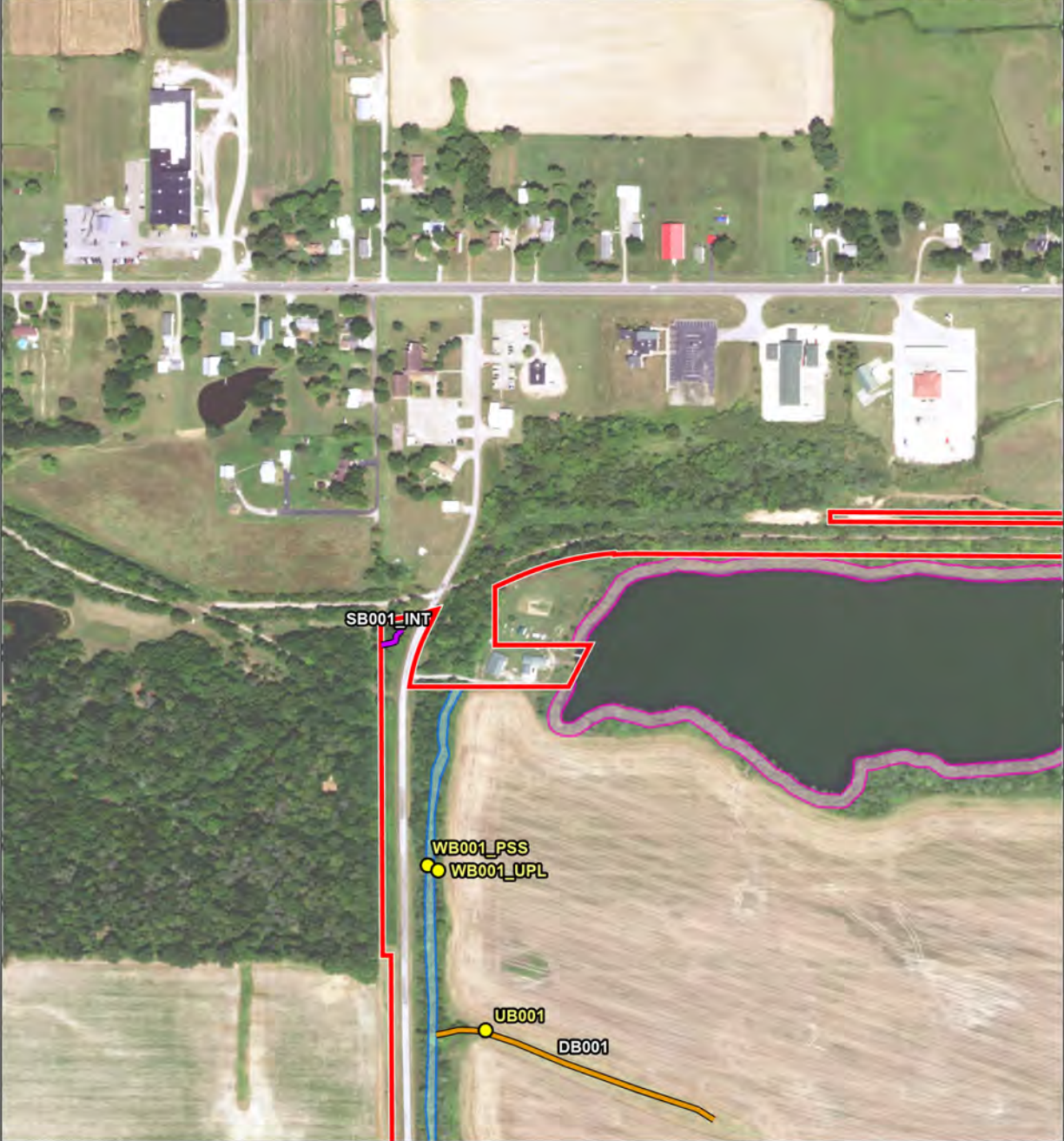
- Data Point
- Culvert
- Delineated PEM Wetland
- Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0898°N 89.2813°W



Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar

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PANTHER SOLAR
Delineation
Results Map

Map 8 of 27

- Data Point
- Delineated Intermittent Stream Bank
- Drainage
- Delineated PSS Wetland
- Mosaic Firnge Wetland
- Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0807°N 89.3368°W

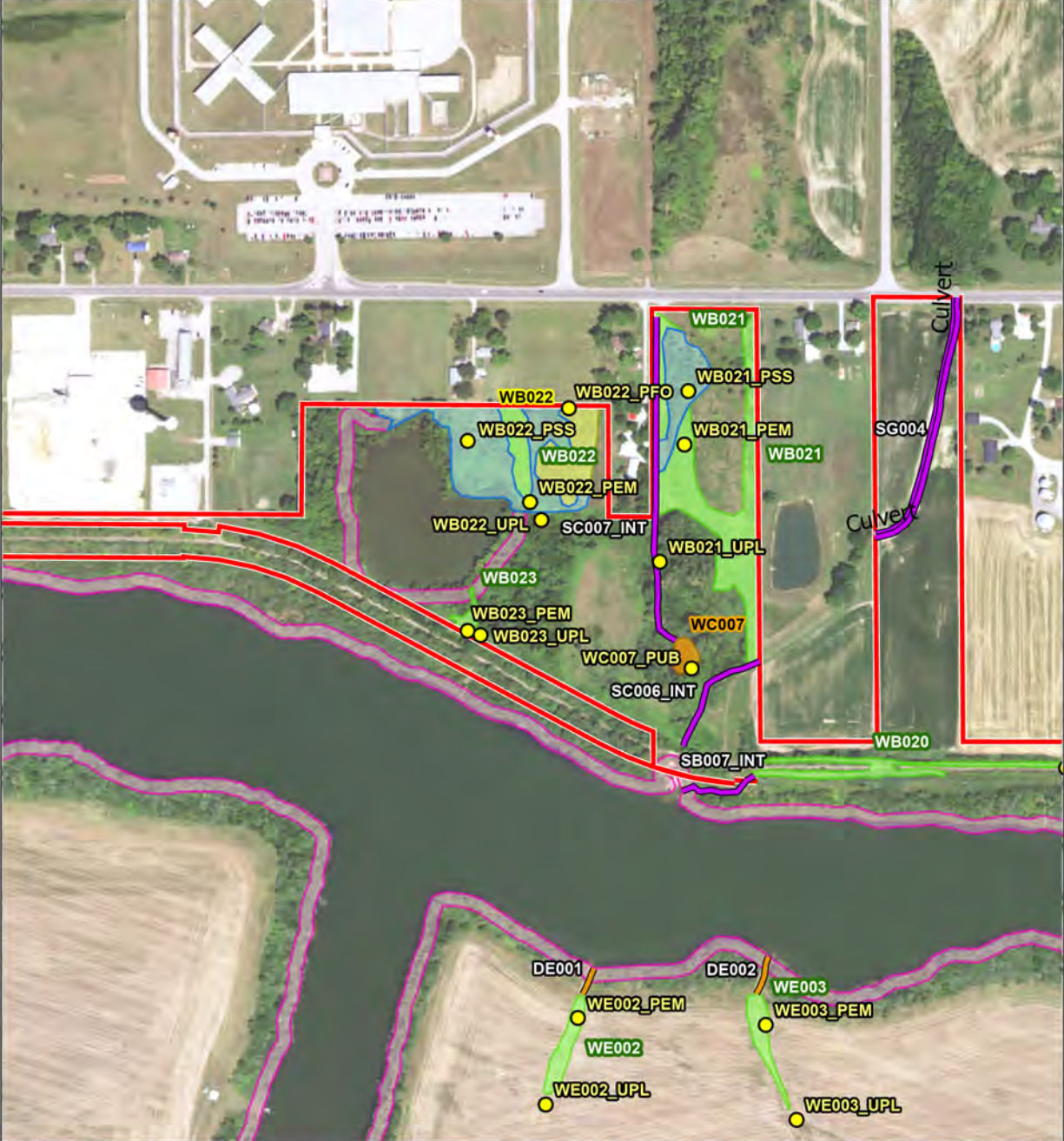


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Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar

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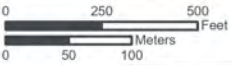
**PANTHER SOLAR
Delineation
Results Map**

Map 9 of 27

- Data Point
- Culvert
- Delineated Intermittent Stream Bank
- Drainage
- Delineated PEM Wetland
- Delineated PFO Wetland
- Delineated PUB Wetland
- Delineated PSS Wetland
- Mosaic Firnge Wetland
- Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0807°N 89.3257°W

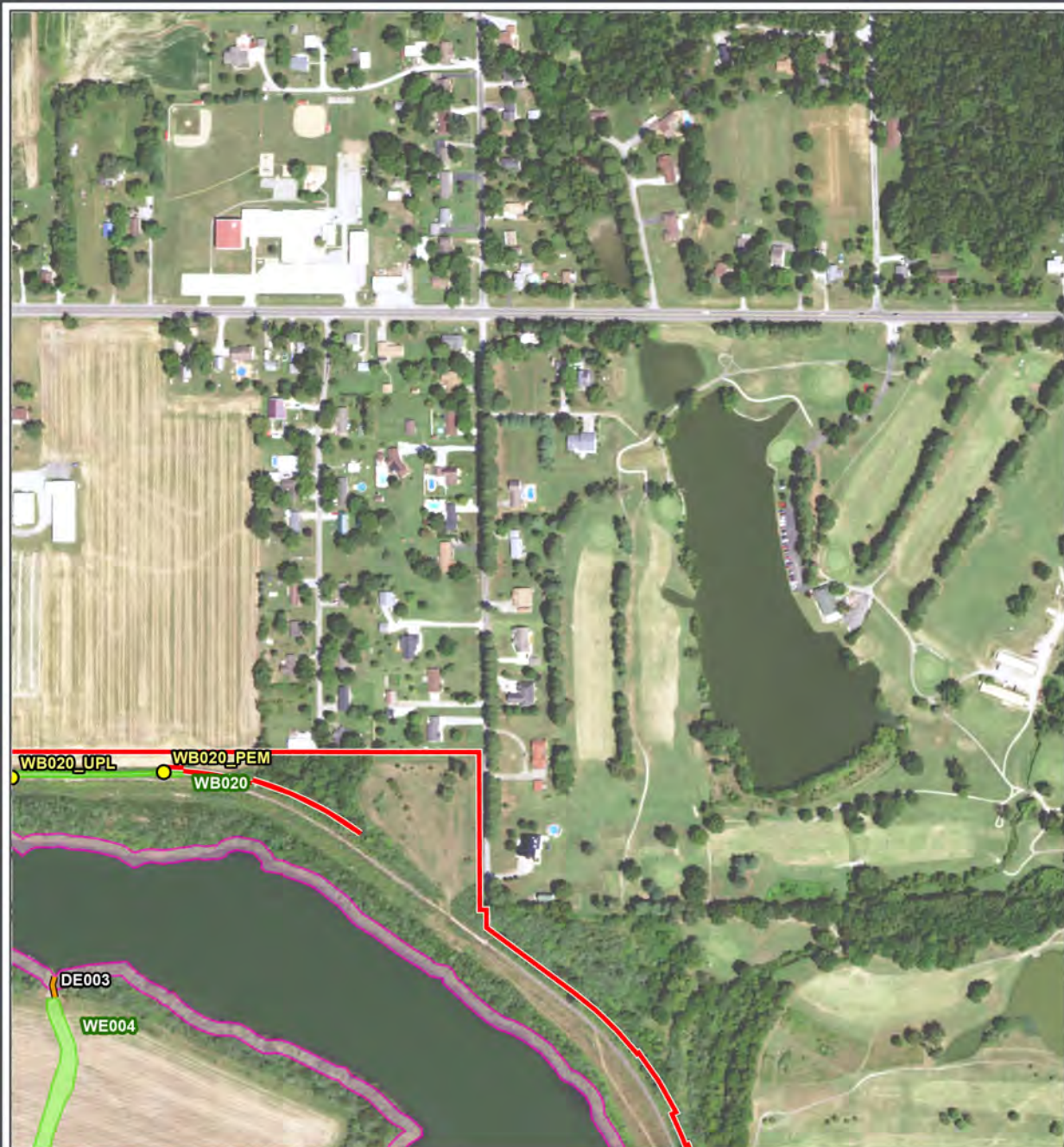
Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar



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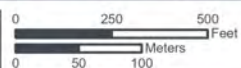


PANTHER SOLAR **Delineation** **Results Map**

Map 10 of 27

- Data Point
- Drainage
- Delineated PEM Wetland
- Mosaic Firnge Wetland
- Project Area

Perry County, IL
 USGS 7.5' Quadrangle:
 Pyatts, IL, 38089-A3
 NAD 1983 StatePlane Illinois
 West FIPS 1202 Feet
 38.0806°N 89.3146°W



1:6,000



Base Map: Esri ArcGIS Online,
 accessed August 2025
 Updated: 8/14/2025
 Project No. 81920
 Layout: 81920_NR_Results
 Aprx: 81920_pantherSolar

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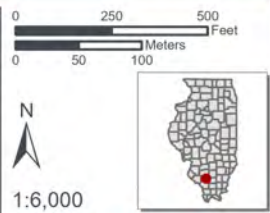


PANTHER SOLAR
Delineation
Results Map

Map 11 of 27

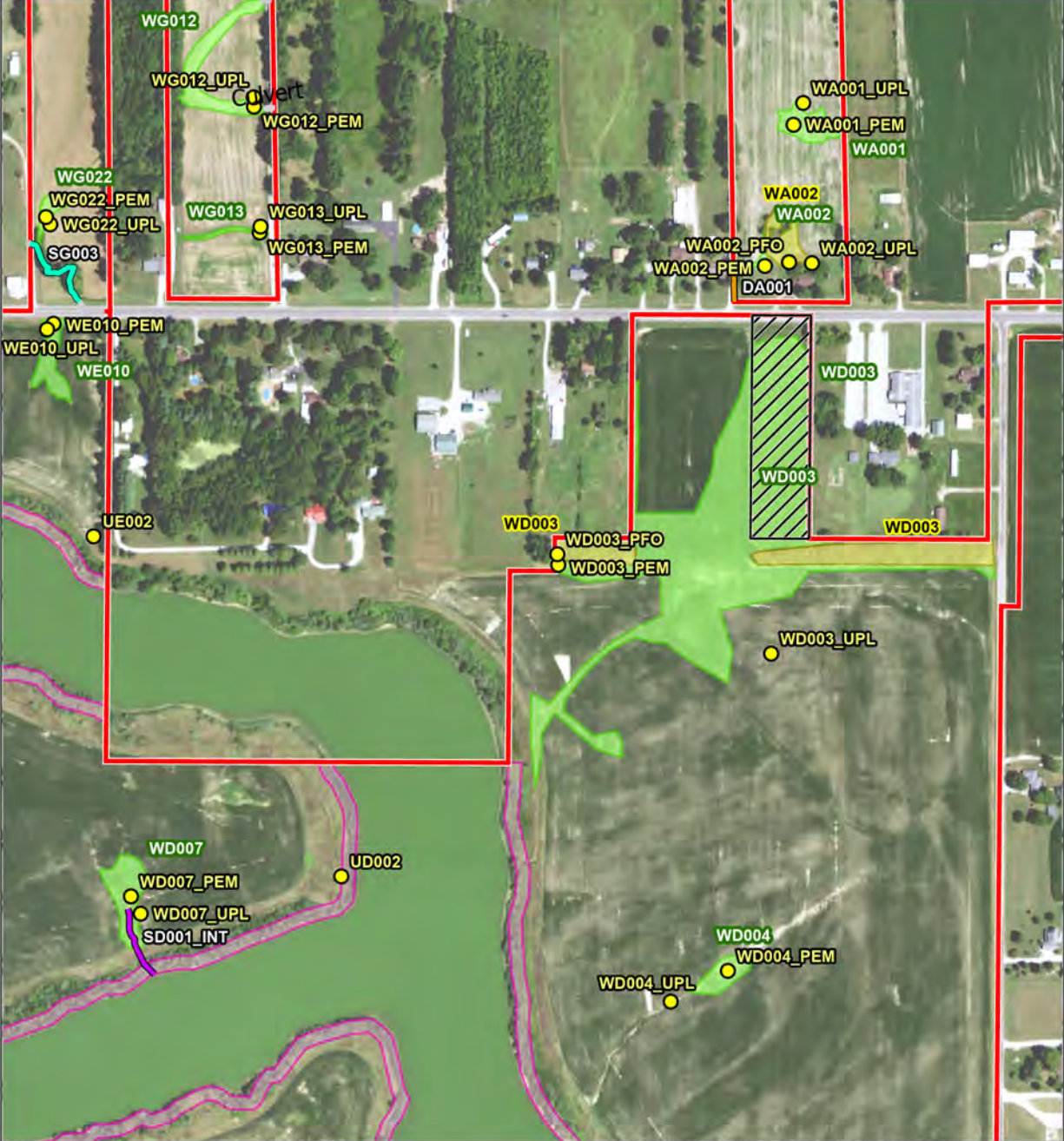
- Data Point
- Delineated Intermittent Stream Bank
- Delineated PEM Wetland
- Delineated PFO Wetland
- Mosaic Firnge Wetland
- Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0805°N 89.3035°W



Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar

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PANTHER SOLAR
Delineation
Results Map

Map 12 of 27

- Data Point
- Culvert
- Delineated Ephemeral Stream Bank
- Delineated Intermittent Stream Bank
- Drainage
- Delineated PEM Wetland
- Delineated PFO Wetland
- Mosaic Fringe Wetland
- ▨ No Access Parcels
- ▭ Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0804°N 89.2925°W

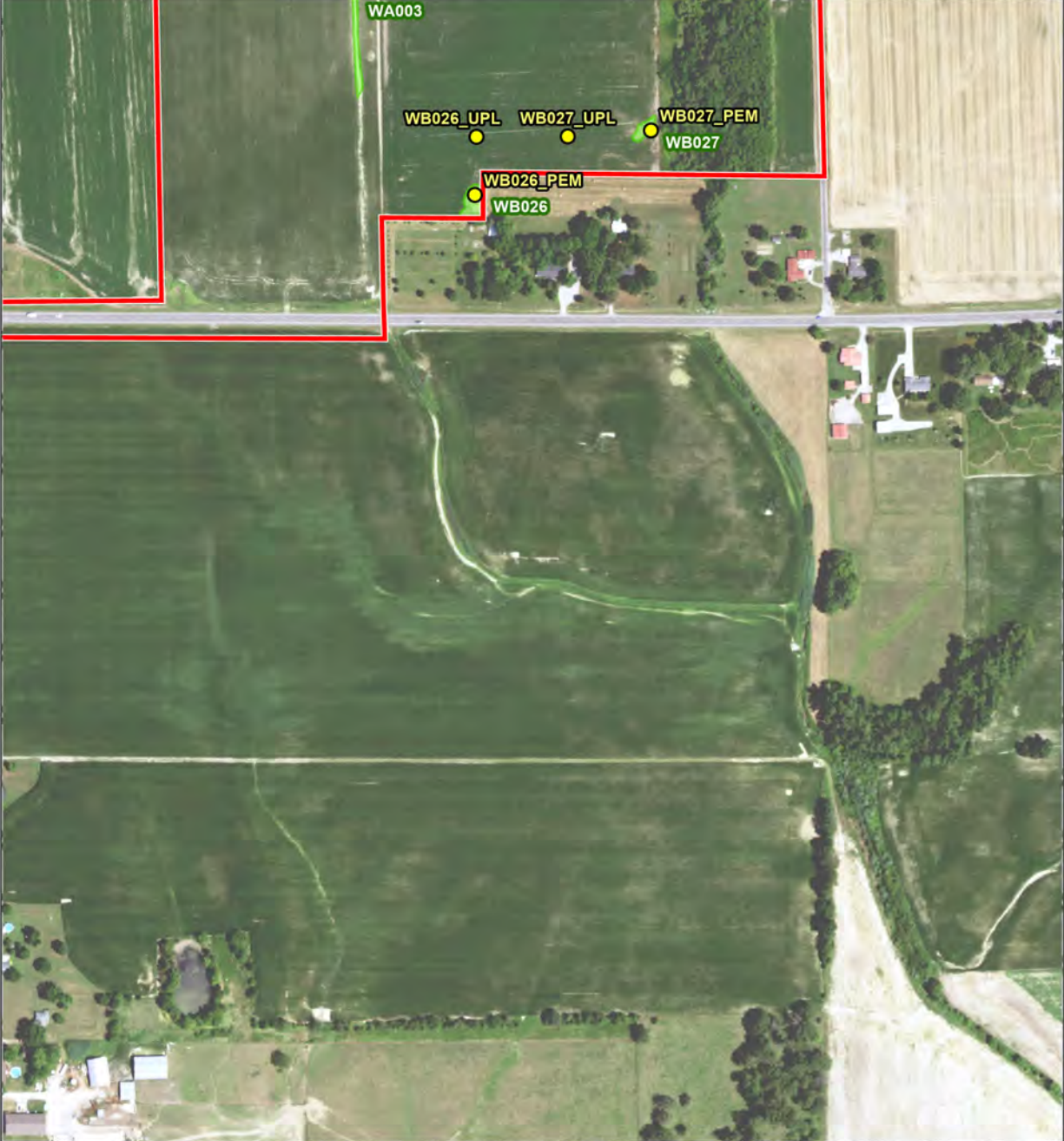
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accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar

0 250 500
0 50 100
Meters
Feet

N

1:6,000

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**PANTHER SOLAR
Delineation
Results Map**

Map 13 of 27

-  Data Point
-  Delineated PEM Wetland
-  Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0803°N 89.2814°W



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Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar

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**PANTHER SOLAR
Delineation
Results Map**

Map 14 of 27

- Data Point
- Delineated PEM Wetland
- Delineated PFO Wetland
- Delineated PUB Wetland
- ▨ No Access Parcels
- ▭ Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0714°N 89.348°W

Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar

0 250 500
0 50 100
Meters
Feet

N

1:6,000

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PANTHER SOLAR
Delineation
Results Map

Map 15 of 27

-  Data Point
-  Delineated PEM Wetland
-  Delineated PUB Wetland
-  Delineated PSS Wetland
-  No Access Parcels
-  Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0713°N 89.3369°W

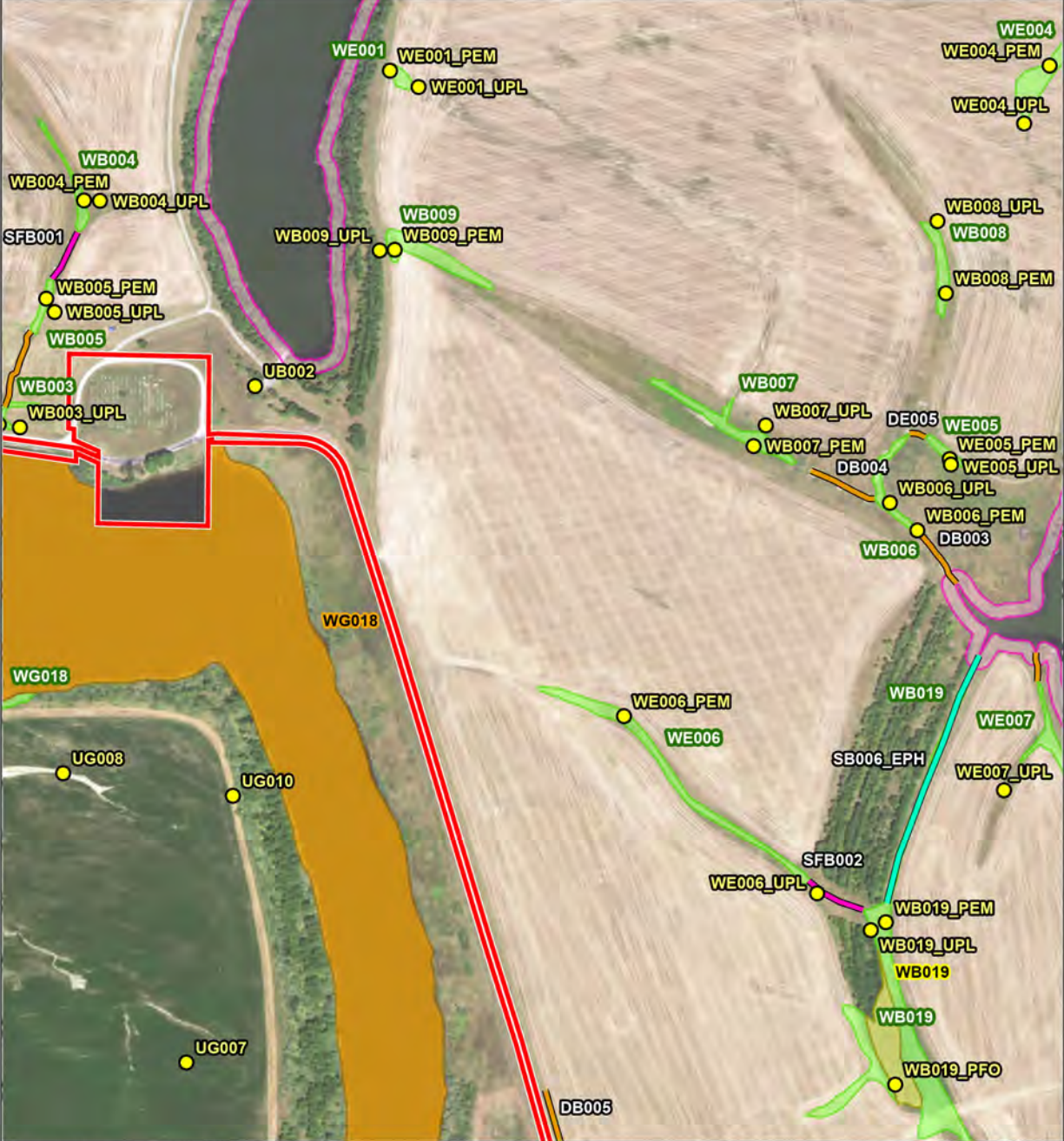


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Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar

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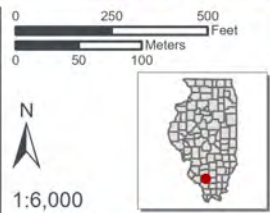


PANTHER SOLAR
Delineation
Results Map

Map 16 of 27

- Data Point
- Delineated Ephemeral Stream Bank
- Drainage
- Surface Flow
- Delineated PEM Wetland
- Delineated PFO Wetland
- Delineated PUB Wetland
- Mosaic Fringe Wetland
- Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0712°N 89.3258°W



Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar

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**PANTHER SOLAR
Delineation
Results Map**

Map 17 of 27

- Data Point
- Delineated Ephemeral Stream Bank
- Delineated Intermittent Stream Bank
- Drainage
- Delineated PEM Wetland
- Mosaic Firnge Wetland
- Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0711°N 89.3147°W

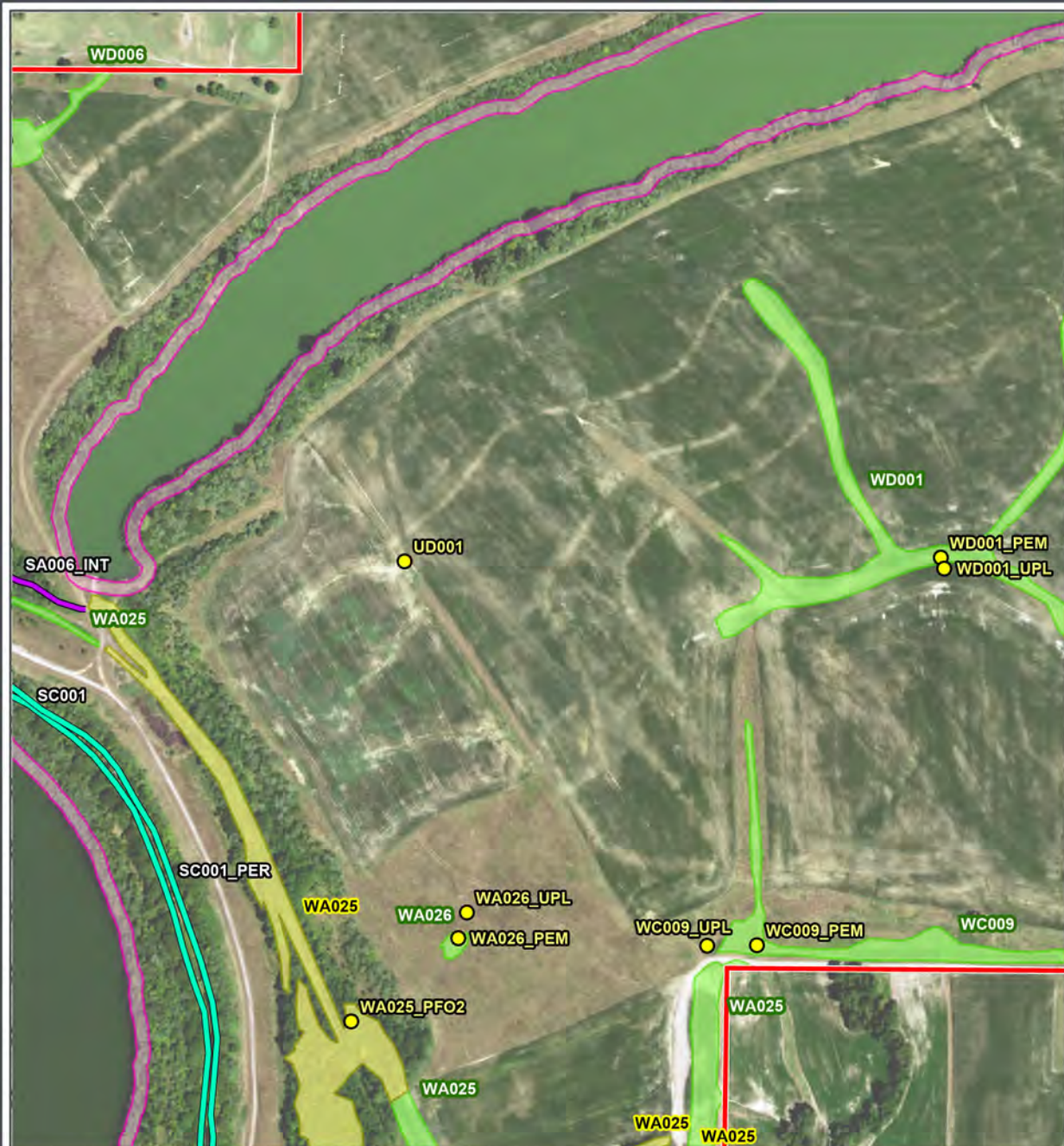
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accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar

0 250 500
0 50 100
Meters
Feet

N

1:6,000

ENVIRONMENTAL CONSULTANTS

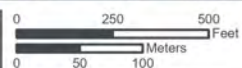


PANTHER SOLAR **Delineation** **Results Map**

Map 18 of 27

- Data Point
- Delineated Ephemeral Stream Bank
- Delineated Intermittent Stream Bank
- Delineated PEM Wetland
- Delineated PFO Wetland
- Mosaic Firnge Wetland
- Project Area

Perry County, IL
 USGS 7.5' Quadrangle:
 Pyatts, IL, 38089-A3
 NAD 1983 StatePlane Illinois
 West FIPS 1202 Feet
 38.0711°N 89.3037°W

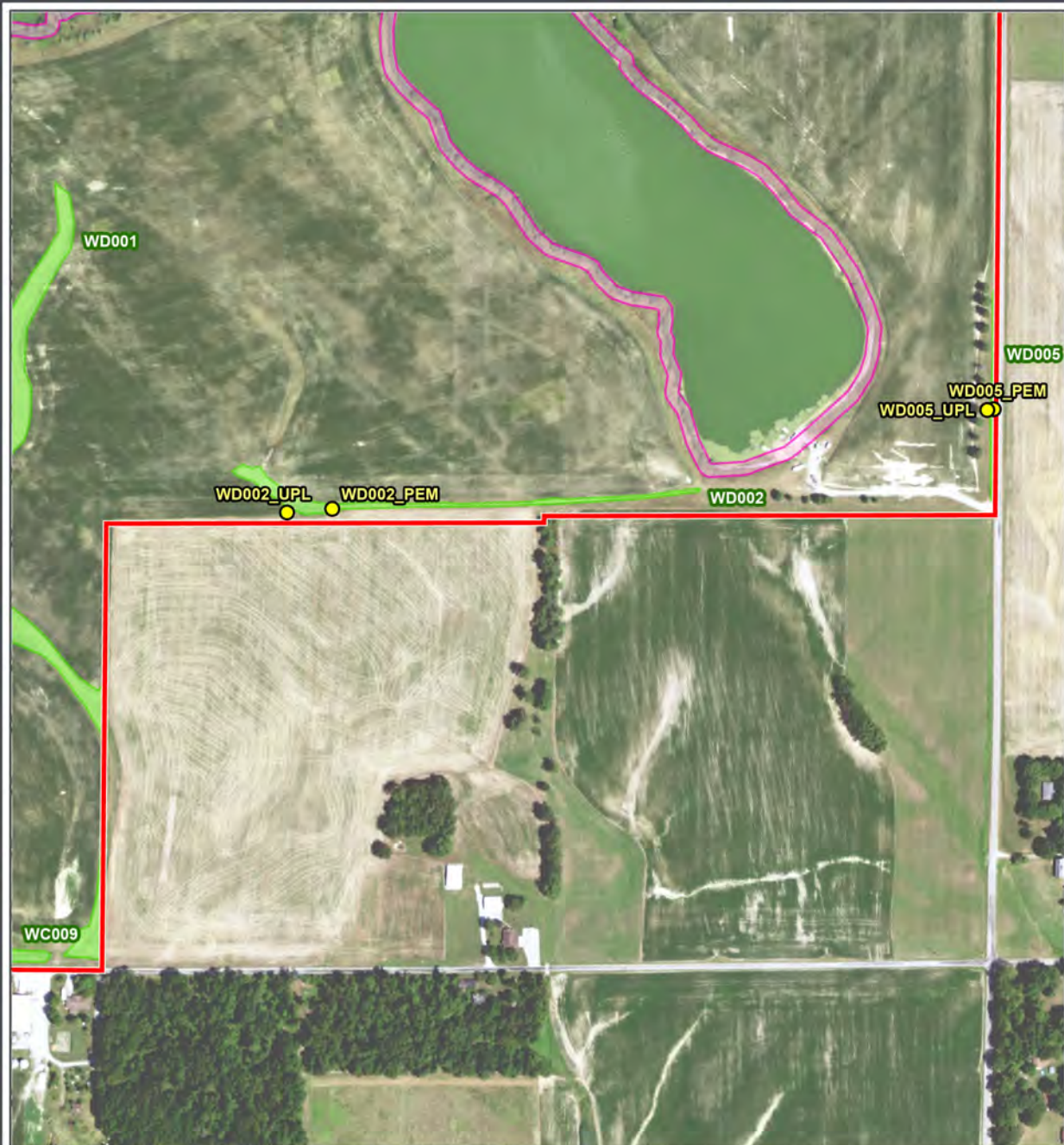


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Base Map: Esri ArcGIS Online,
 accessed August 2025
 Updated: 8/14/2025
 Project No. 81920
 Layout: 81920_NR_Results
 Aprx: 81920_pantherSolar

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PANTHER SOLAR Delineation Results Map

Map 19 of 27

-  Data Point
 Delineated PEM Wetland
 Mosaic Firnge Wetland
 Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.071°N 89.2926°W



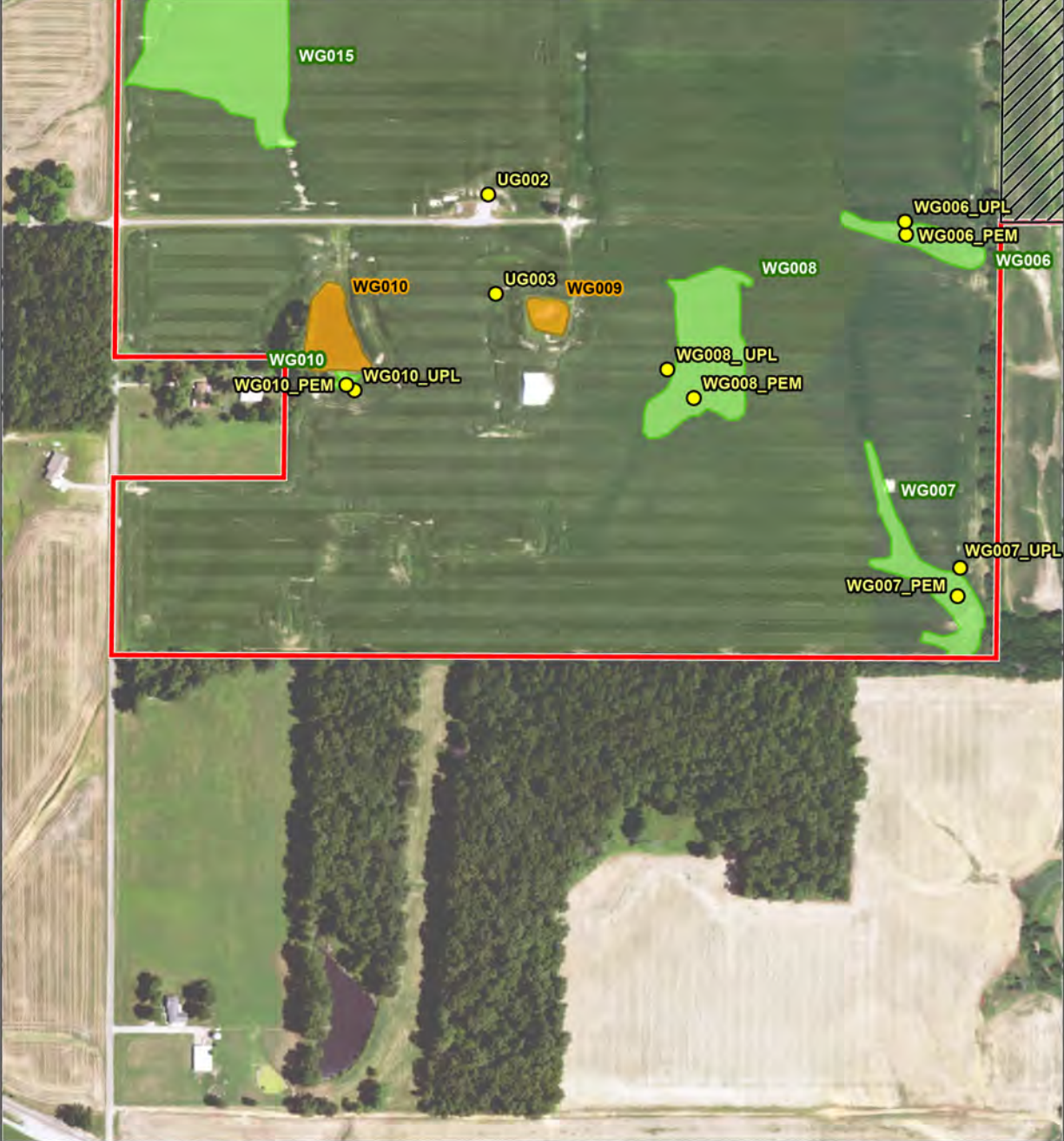
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Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar



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**PANTHER SOLAR
Delineation
Results Map**

Map 20 of 27

-  Data Point
-  Delineated PEM Wetland
-  Delineated PUB Wetland
-  No Access Parcels
-  Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0619°N 89.3481°W

Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar



0 250 500
0 50 100
Feet
Meters



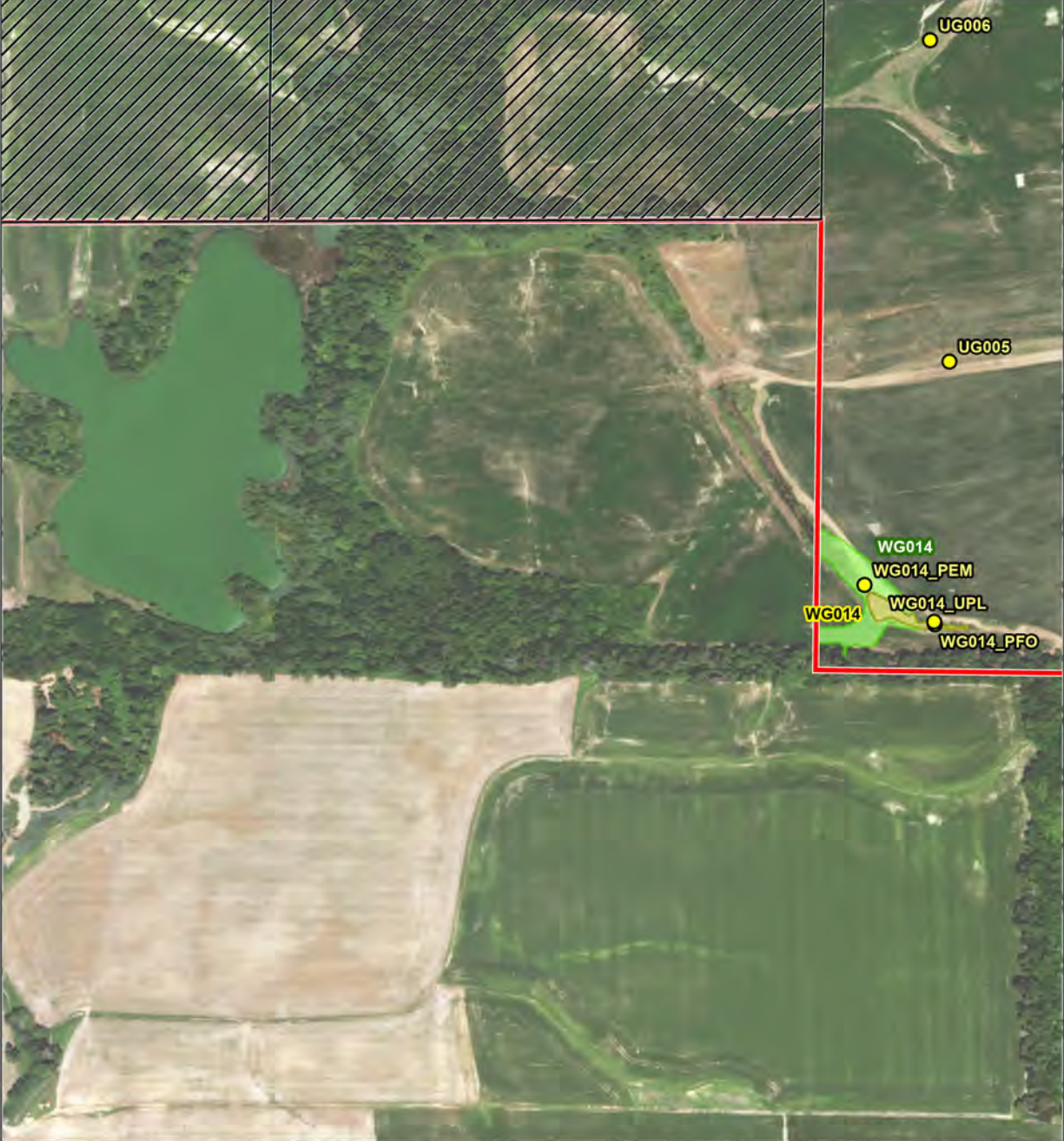
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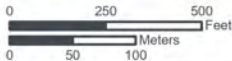


**PANTHER SOLAR
Delineation
Results Map**

Map 21 of 27

- Data Point
- Delineated PEM Wetland
- Delineated PFO Wetland
- ▨ No Access Parcels
- ▭ Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0619°N 89.337°W



Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar

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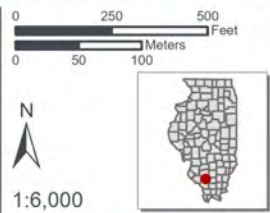


**PANTHER SOLAR
Delineation
Results Map**

Map 22 of 27

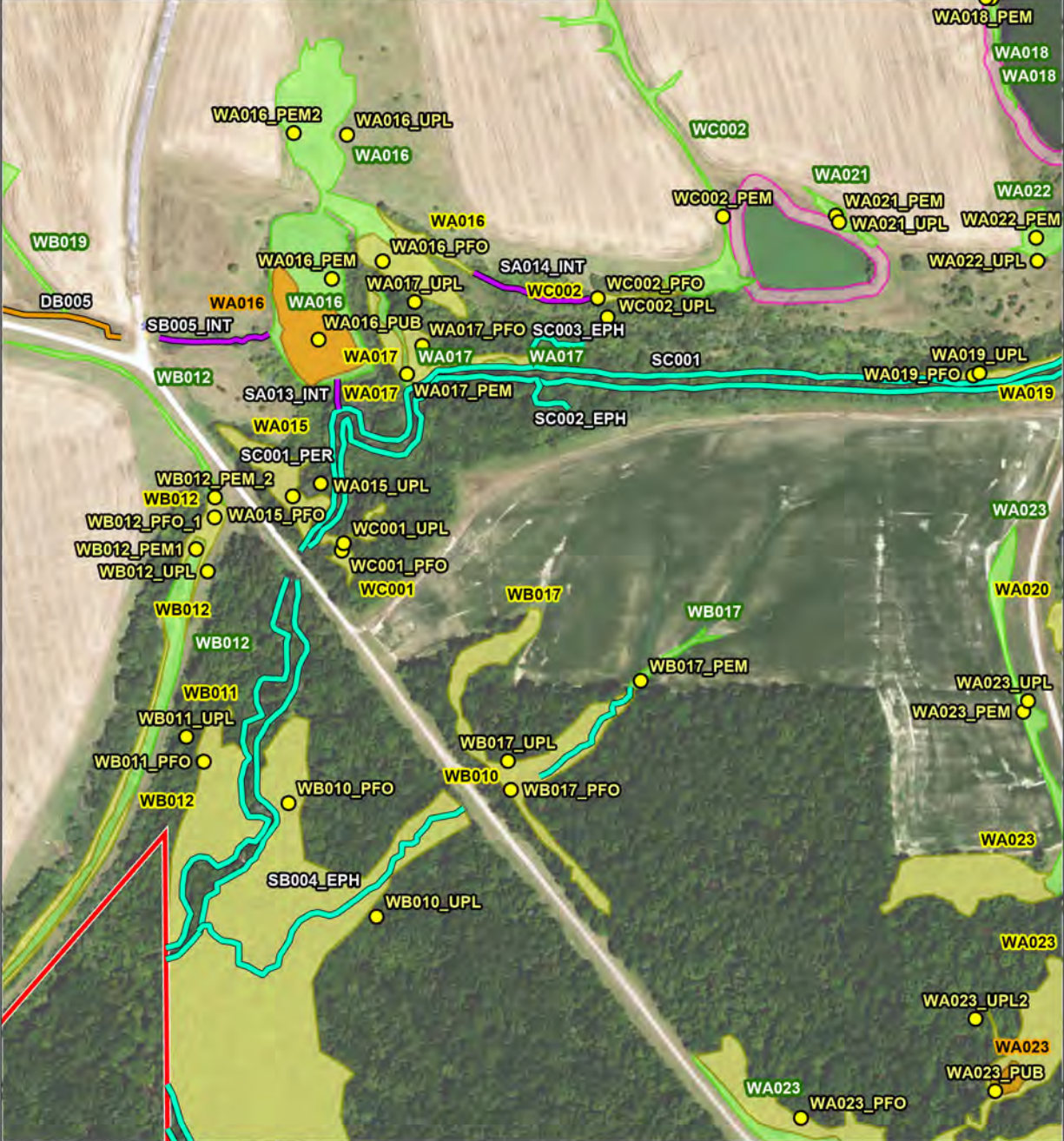
- Data Point
- Ditch
- Drainage
- Delineated PEM Wetland
- Delineated PFO Wetland
- Delineated PUB Wetland
- Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0618°N 89.3259°W



Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar





PANTHER SOLAR
Delineation Results Map

Map 23 of 27

- Data Point
- Delineated Ephemeral Stream Bank
- Delineated Intermittent Stream Bank
- Drainage
- Delineated PEM Wetland
- Delineated PFO Wetland
- Delineated PUB Wetland
- Mosaic Fringe Wetland
- Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0617°N 89.3148°W

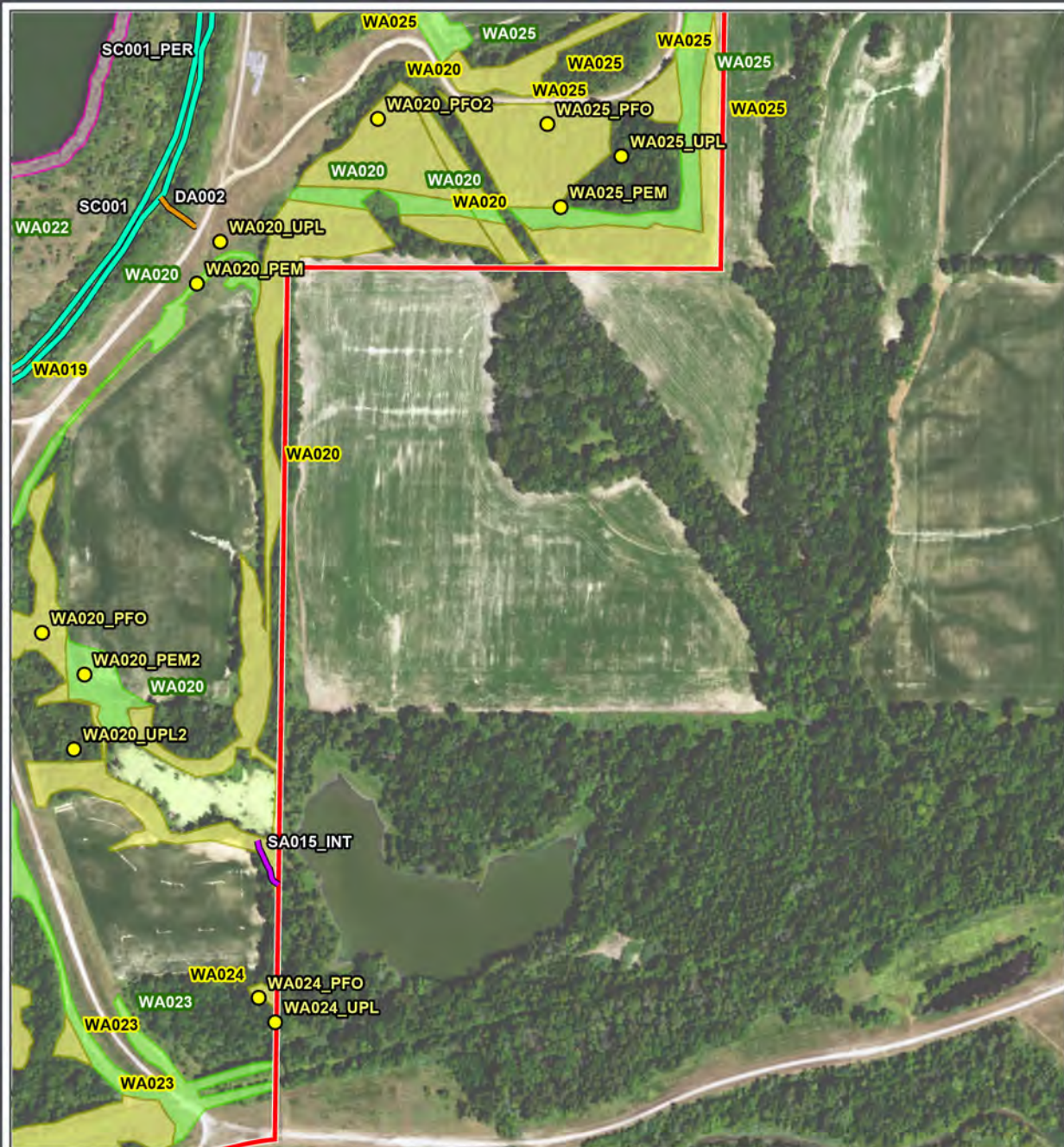
0 250 500
0 50 100
Meters Feet

N

1:6,000

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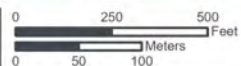
Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar



PANTHER SOLAR **Delineation** **Results Map**

Map 24 of 27

Perry County, IL
 USGS 7.5' Quadrangle:
 Pyatts, IL, 38089-A3
 NAD 1983 StatePlane Illinois
 West FIPS 1202 Feet
 38.0616°N 89.3038°W

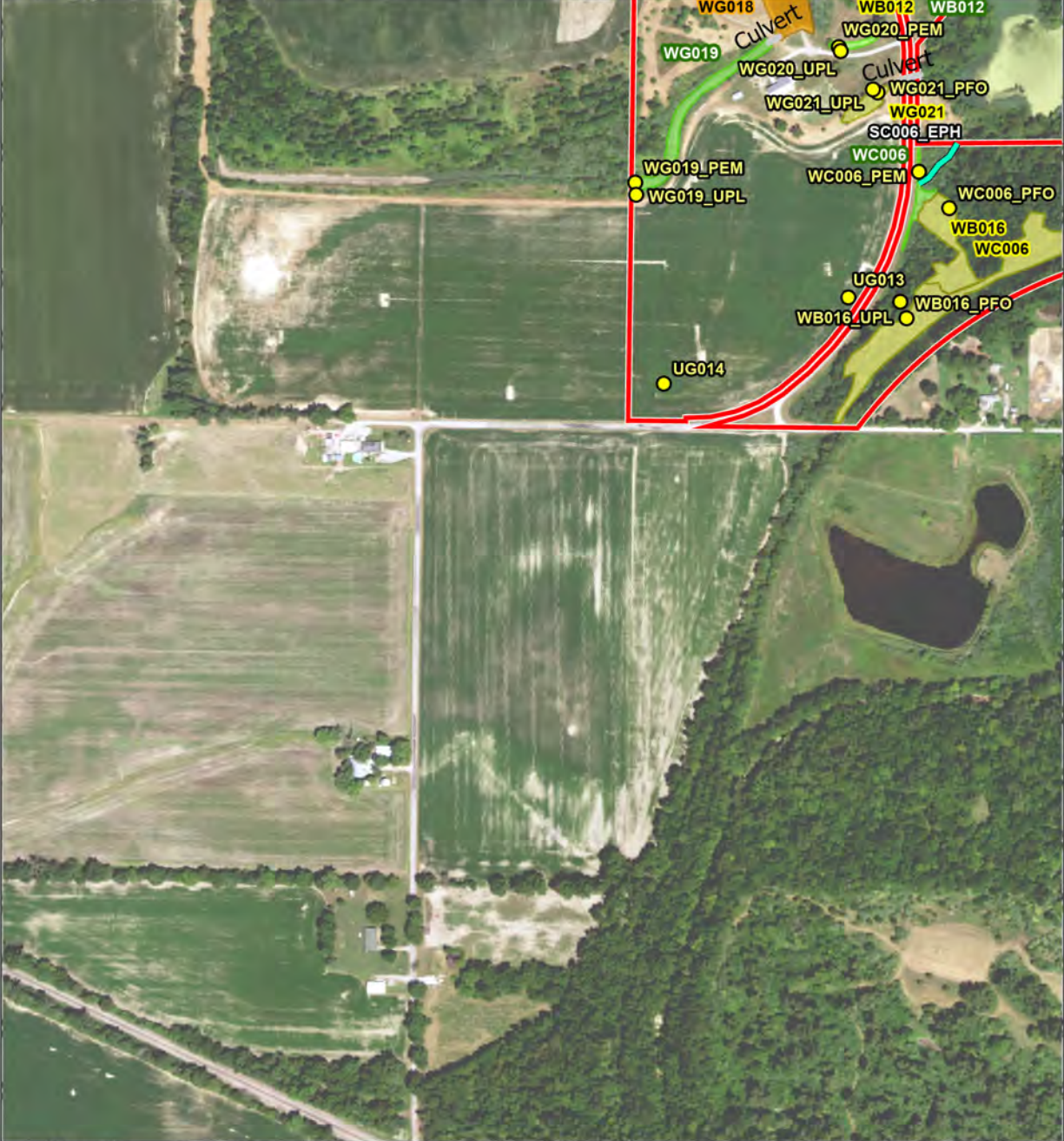


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Base Map: Esri ArcGIS Online,
 accessed August 2025
 Updated: 8/14/2025
 Project No. 81920
 Layout: 81920_NR_Results
 Aprx: 81920_pantherSolar

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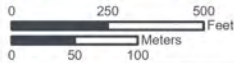


**PANTHER SOLAR
Delineation
Results Map**

Map 25 of 27

- Data Point
- Culvert
- Delineated Ephemeral Stream Bank
- Delineated PEM Wetland
- Delineated PFO Wetland
- Delineated PUB Wetland
- Project Area

Perry County, IL
USGS 7.5' Quadrangle:
Pyatts, IL, 38089-A3
NAD 1983 StatePlane Illinois
West FIPS 1202 Feet
38.0523°N 89.326°W



Base Map: Esri ArcGIS Online,
accessed August 2025
Updated: 8/14/2025
Project No. 81920
Layout: 81920_NR_Results
Aprx: 81920_pantherSolar

1:6,000
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