



**US Army Corps
of Engineers**
St Paul District

APPLICANT: Minnesota Department of
Transportation

Public Notice

ISSUED: February 24, 2021
EXPIRES: March 10, 2021

REFER TO: 2021-00177-BGO

SECTION:404 - Clean Water Act

1. APPLICATION FOR PERMIT TO discharge dredged or fill material into 12.63 acres of wetlands and 0.86 acre of linear ditch.

2. SPECIFIC INFORMATION

AGENT
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PROJECT LOCATION: The project site is in Sections 16-17, 20-21, 28-29 and 32-33, Township 145 North, Range 37 West, and Sections 4-5, Township 144 North, Range 37 West, Clearwater County, MN. The approximate coordinates begin at 47.383944, -95.382377 and end at 47.310789, -95.382362.

DESCRIPTION OF PROJECT: The Minnesota Department of Transportation (MnDOT) is proposing approximately 5.1 miles of road improvements on Trunk Highway (TH) 92 from County State Aid Highway (CSAH) 35 to TH 200 in the townships of Minerva and Zerkel, Clearwater County, MN (SP 1506-41). The improvements would include a regrade of TH 92 along with shoulder widening, vertical alignment modifications, and replacing roadside infrastructure. The widening would require new entrance culverts, new ditch sections, and tree clearing.

This section of TH 92 is currently a two-lane, undivided, rural section highway running in a north-south direction. Regionally, TH 92 serves as a connection between US Highway 2 in the city of Bagley and TH 200 in Zerkel. Bridge #15003 carries TH 92 over the Wild Rice River. The existing road cross section consists of two 12-foot travel lanes and 2-foot paved shoulders for a total width of approximately 28 feet. MnDOT traffic data from 2019 shows the annual average daily traffic is 1,050 vehicles. No sidewalks or trails exist along TH 92.

The purpose of the project is to improve vehicle safety and the pavement condition on TH 92. The main project elements include:

- Regrade TH 92 from CSAH 35 to TH 200.
- Widen shoulders to 8 feet (6 feet paved and 2 feet aggregate).
- Remove trees within MnDOT right-of-way throughout the length of the corridor.
- Grade raise and peat excavation for approximately 1,500 feet of roadway near RP 71.
- Improve hydraulics including new ditch sections and replacing entrance culverts to match the new ditch.
- Construct a stormwater pond west of TH 92 near TH 200.

The proposed project is scheduled for construction from May 2022 to September 2022.

QUANTITY, TYPE, AND AREA OF FILL: Construction of the proposed project would result in the permanent discharge of fill material into 4.71 acres of wetlands and 0.47 acre of linear ditch. Permanent fill impacts are primarily associated with shoulder widening, inslope stabilization, and culvert replacements. An additional 6.39 acres of wetlands and 0.09 acre of linear ditch would be impacted temporarily during construction and restored. Temporary impacts are needed for access and erosion control during construction.

VEGETATION IN AFFECTED AREA: The wetlands within the project area consist of seasonally flooded basin (Type 1), fresh (wet) meadow (Type 2), shallow marsh (Type 3), and shrub-carr (Type 6) wetlands.

SOURCE OF FILL MATERIAL: MnDOT and its contractors would be required to use suitable fill material free of pollutants.

SURROUNDING LAND USE: The project area is rural, surrounded by wetlands (both wooded and open), woodland, grassland, and agricultural land with scattered farmsteads, rural residences, and a small number of commercial businesses.

DESCRIPTION OF DREDGING OR EXCAVATION: The proposed project includes the permanent excavation/grading of 1.53 acres of wetlands and 0.30 acre of linear ditch. These impacts are associated with shoulder widening and the construction of new ditch sections along the project.

THE FOLLOWING POTENTIALLY TOXIC MATERIALS COULD BE USED AT THE PROJECT SITE: The applicant does not propose to use any potentially toxic materials. All fill material used on-site would be free of contaminants.

THE FOLLOWING PRECAUTIONS TO PROTECT WATER QUALITY HAVE BEEN DESCRIBED BY THE APPLICANT: MnDOT has not provided a detailed description of precautions to protect water quality during the construction of the proposed project. MnDOT intends to implement best management practices in accordance with federal, state, and local water quality standards.

MITIGATION: Appropriate compensatory mitigation would be required to offset the unavoidable impacts to waters of the U.S. MnDOT proposes to satisfy those requirements by debiting Corps-approved wetland credits from a mitigation bank, serving Bank Service Area 4.

3. FEDERALLY-LISTED THREATENED OR ENDANGERED WILDLIFE OR PLANTS OR THEIR CRITICAL HABITAT

None were identified by the applicant or are known to exist in the permit area. However, Clearwater County is within the known or historic range of the following Federally-listed species:

Canada Lynx Northern forest.

Gray Wolf Northern forest...

Northern Long-Eared Bat	Hibernates in caves and mines – swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests during spring and summer.
Rusty Patched Bumble Bee	Grasslands with flowering plants from April through October, underground and abandoned rodent cavities or clumps of grasses above ground as nesting sites, and undisturbed soil for hibernating queens to overwinter.

This application is being coordinated with the U.S. Fish and Wildlife Service. Any comments it may have concerning Federally-listed threatened or endangered wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

4. JURISDICTION

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act.

5. STATE SECTION 401 WATER QUALITY CERTIFICATION

A permit will not be granted until the Minnesota Pollution Control Agency has issued or waived Section 401 certification.

6. HISTORICAL/ARCHAEOLOGICAL

This public notice is being sent to the National Park Service and the State Archaeologist for their comments. The Corps will review information on known cultural resources and/or historic properties within and adjacent to the project area. The Corps will also consider the potential effects of the project on any properties that have yet to be identified. The results of this review and the Corps' determination of effect will be coordinated with the State Historic Preservation Officer independent of this public notice. Any adverse effects on historic properties will be resolved prior to the Corps authorization, or approval, of the work in connection with this project.

7. PUBLIC HEARING REQUESTS

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, in detail, the reasons for holding a public hearing. A request may be denied if substantive reasons for holding a hearing are not provided or if there is otherwise no valid interest to be served.

8. PUBLIC INTEREST REVIEW

The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects. Among those are conservation, economics,

aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. Environmental and other documents will be available for review in the St. Paul District Office.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

REPLIES/COMMENTS

Interested parties are invited to submit to this office written facts, arguments, or objections by the expiration date indicated above. These statements should bear upon the suitability of the location and the adequacy of the project and should, if appropriate, suggest any changes believed to be desirable. Comments received may be forwarded to the applicant.

Replies may be sent to Ben Orne at Benjamin.G.Orne@usace.army.mil.

IF YOU HAVE QUESTIONS ABOUT THE PROJECT, contact Ben Orne at the St. Paul office at 651-290-5280 or Benjamin.G.Orne@usace.army.mil.

To receive Public Notice notifications, go to: <https://www.mvp.usace.army.mil/Contact/RSS/> and subscribe to the RSS Feed for which you would like to receive Public Notices.

Enclosures: 2021-00177-BGO PN Attachments, Pages 1-13 of 13

PROJECT LOCATION

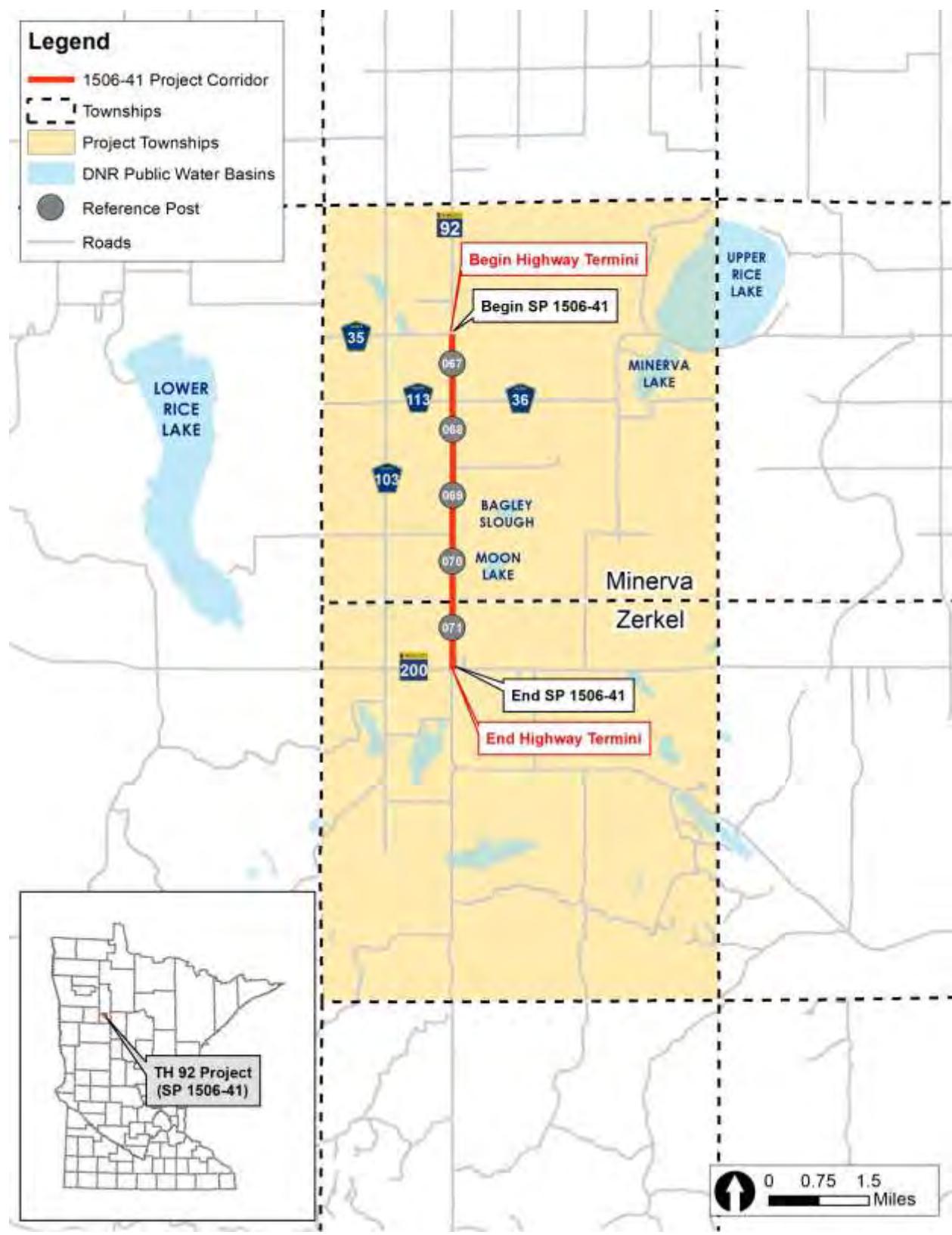


Table 4. Aquatic Resource Impacts Summary Table

February 12, 2021

Aquatic Resource Id	Impact Area	Regulatory Type*	Type of Impact	Duration of Impact	Impacts (acres)	Impacts (square feet)	Total Acres within Delineation Study Area	C-39**	COE Permit***	WCA Regulated****	County, Major Watershed #, and Bank Service Area # of Impact Area	Appendix C Sheet Number
Wetland 1	1-1	Wetland	Fill	Permanent	0.03	1316	0.22	2	Yes	Yes	Clearwater, 60, BSA 4	1
Wetland 1	1-2	Wetland	Cut	Permanent	0.04	1906	0.22	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	1
Wetland 1	1-3	Wetland	Temporary (<90 days)	Temporary	0.10	4394	0.22	2	No	No	Clearwater, 60, BSA 4	1
Wetland 2	2-1	Wetland	Fill	Permanent	0.03	1236	0.07	2	Yes	Yes	Clearwater, 60, BSA 4	1
Wetland 2	2-2	Wetland	Cut	Permanent	0.00	72	0.07	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	1
Wetland 2	2-3	Wetland	Cut	Permanent	0.00	154	0.07	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	1
Wetland 2	2-4	Wetland	Temporary (<90 days)	Temporary	0.02	935	0.07	2	No	No	Clearwater, 60, BSA 4	1
Wetland 3	3-1	Wetland	Fill	Permanent	0.00	94	0.11	2	Yes	Yes	Clearwater, 60, BSA 4	3
Wetland 3	3-2	Wetland	Fill	Permanent	0.01	598	0.11	2	Yes	Yes	Clearwater, 60, BSA 4	3
Wetland 3	3-3	Wetland	Cut	Permanent	0.01	478	0.11	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	3
Wetland 3	3-4	Wetland	Temporary (<90 days)	Temporary	0.04	1901	0.11	2	No	No	Clearwater, 60, BSA 4	3
Wetland 4	4-1	Wetland	Fill	Permanent	0.02	916	0.08	2	Yes	Yes	Clearwater, 60, BSA 4	3
Wetland 4	4-2	Wetland	Cut	Permanent	0.00	188	0.08	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	3
Wetland 4	4-3	Wetland	Temporary (<90 days)	Temporary	0.03	1193	0.08	2	No	No	Clearwater, 60, BSA 4	3
Wetland Ditch 5	5-1	Wetland Ditch (Upland Backslope)	Fill	Permanent	0.02	732	0.02	1	No (AJD)	No (Incidental)	Clearwater, 60, BSA 4	3
Wetland Ditch 6	6-1	Wetland Ditch (Upland Backslope)	Fill	Permanent	0.17	7449	0.32	1	No (AJD)	No (Incidental)	Clearwater, 60, BSA 4	3
Wetland Ditch 6	6-2	Wetland Ditch (Upland Backslope)	Cut	Permanent	0.00	210	0.32	1	No (AJD)	No (Incidental)	Clearwater, 60, BSA 4	3
Wetland Ditch 6	6-3	Wetland Ditch (Upland Backslope)	Cut	Permanent	0.06	2529	0.32	1	No (AJD)	No (Incidental)	Clearwater, 60, BSA 4	3
Wetland Ditch 6	6-4	Wetland Ditch (Upland Backslope)	Temporary (<90 days)	Temporary	0.09	3900	0.32	1	No (AJD)	No	Clearwater, 60, BSA 4	3
Wetland 6	6-5a	Wetland	Fill	Permanent	0.27	11959	3.86	2	Yes	Yes	Clearwater, 60, BSA 4	3
Wetland 6	6-5b	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.33	14312	3.86	2	Yes	Yes	Clearwater, 60, BSA 4	3-4
Wetland 6	6-5c	Wetland	Fill	Permanent	0.03	1095	3.86	2	Yes	Yes	Clearwater, 60, BSA 4	4
Wetland 6	6-6	Wetland	Temporary (<90 days)	Temporary	0.95	41508	3.86	2	No	No	Clearwater, 60, BSA 4	3-4
Wetland 6	6-7	Wetland	Temporary (<90 days)	Temporary	0.01	603	0.00	6	No	No	Clearwater, 60, BSA 4	3
Wetland 6	6-8a	Wetland	Fill	Permanent	0.04	1560	3.86	2	Yes	Yes	Clearwater, 60, BSA 4	4
Wetland 6	6-8b	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.24	10605	3.86	2	Yes	Yes	Clearwater, 60, BSA 4	4
Wetland 6	6-9a	Wetland Ditch (Wetland Backslope)	Cut	Permanent	0.03	1410	3.86	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	4
Wetland 6	6-9b	Wetland	Cut	Permanent	0.06	2730	3.86	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	4
Wetland 6	6-10	Wetland	Temporary (<90 days)	Temporary	0.06	2731	0.22	6	No	No	Clearwater, 60, BSA 4	4
Wetland 6	6-11a	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.11	4935	3.86	2	Yes	Yes	Clearwater, 60, BSA 4	4
Wetland 6	6-11b	Wetland	Fill	Permanent	0.11	4731	3.86	2	Yes	Yes	Clearwater, 60, BSA 4	4
Wetland 6	6-12a	Wetland	Cut	Permanent	0.03	1180	3.86	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	4
Wetland 6	6-12b	Wetland Ditch (Wetland Backslope)	Cut	Permanent	0.02	911	3.86	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	4
Wetland 6	6-13	Wetland	Temporary (<90 days)	Temporary	0.32	14113	3.86	2	No	No	Clearwater, 60, BSA 4	4
Wetland Ditch 7	7-1	Wetland Ditch (Upland Backslope)	Fill	Permanent	0.01	599	0.36	1	No (AJD)	No (Incidental)	Clearwater, 60, BSA 4	3
Wetland Ditch 7	7-2	Wetland Ditch (Upland Backslope)	Cut	Permanent	0.24	10461	0.36	1	No (AJD)	No (Incidental)	Clearwater, 60, BSA 4	3
Wetland Ditch 7	7-3	Wetland Ditch (Upland Backslope)	Fill	Permanent	0.10	4533	0.36	1	No (AJD)	No (Incidental)	Clearwater, 60, BSA 4	3
Wetland 7	7-4a1	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.15	6386	1.79	2	Ditch Shift	Yes	Clearwater, 60, BSA 4	3-4
Wetland 7	7-4a2	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.18	7697	1.79	2	Yes	Yes	Clearwater, 60, BSA 4	3-4
Wetland 7	7-4a3	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.05	2030	1.79	2	Ditch Shift	Yes	Clearwater, 60, BSA 4	3-4
Wetland 7	7-4b	Wetland	Fill	Permanent	0.01	524	1.79	2	Yes	Yes	Clearwater, 60, BSA 4	4
Wetland 7	7-4c	Wetland	Fill	Permanent	0.02	675	1.79	2	Yes	Yes	Clearwater, 60, BSA 4	3
Wetland 7	7-5a	Wetland	Cut	Permanent	0.06	2772	1.79	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	3
Wetland 7	7-5b	Wetland	Cut	Permanent	0.03	1120	1.79	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	3
Wetland 7	7-6	Wetland	Temporary (<90 days)	Temporary	0.56	24395	1.79	2	No	No	Clearwater, 60, BSA 4	3-4
Wetland 7	7-7	Wetland	Cut	Permanent	0.03	1524	1.79	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	4
Wetland 8	8-1	Wetland	Fill	Permanent	0.24	10368	1.16	2	Yes	Yes	Clearwater, 60, BSA 4	4
Wetland 8	8-2	Wetland	Cut	Permanent	0.05	2058	1.16	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	4
Wetland 8	8-3	Wetland	Temporary (<90 days)	Temporary	0.38	16370	1.16	2	No	No	Clearwater, 60, BSA 4	4
Wetland 8	8-4	Wetland	Temporary (<90 days)	Temporary	0.15	6386	0.39	6	No	No	Clearwater, 60, BSA 4	4
Wetland 8	8-5a	Wetland	Fill	Permanent	0.08	3306	1.16	2	Yes	Yes	Clearwater, 60, BSA 4	4
Wetland 8	8-5b	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.09	4096	1.16	2	Ditch Shift	Yes	Clearwater, 60, BSA 4	4
Wetland 8	8-6a	Wetland	Cut	Permanent	0.14	6266	1.16	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	4
Wetland 8	8-6b	Wetland Ditch (Wetland Backslope)	Cut	Permanent	0.01	403	1.16	2	Ditch Shift	No (Excavation)	Clearwater, 60, BSA 4	4
Wetland 9	9-1	Wetland	Fill	Permanent	0.28	12245	2.12	2	Yes	Yes	Clearwater, 60, BSA 4	4-5
Wetland 9	9-2	Wetland	Temporary (<90 days)	Temporary	0.32	13916	2.12	2	No	No	Clearwater, 60, BSA 4	4-5

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Wetland 9	9-3	Wetland	Fill	Permanent	0.01	222	2.12	2	Yes	Yes	Clearwater, 60, BSA 4	5
Wetland 9	9-4	Wetland	Temporary (<90 days)	Temporary	0.24	10648	2.12	2	No	No	Clearwater, 60, BSA 4	5
Wetland 9	9-5	Wetland	Fill	Permanent	0.14	6166	2.12	2	Yes	Yes	Clearwater, 60, BSA 4	5
Wetland 9	9-6a	Wetland Ditch (Wetland Backslope)	Cut	Permanent	0.20	8716	2.12	2	Ditch Shift	No (Excavation)	Clearwater, 60, BSA 4	5
Wetland 9	9-6b	Wetland	Cut	Permanent	0.06	2746	2.12	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	5
Wetland 9	9-6c	Wetland	Cut	Permanent	0.01	311	2.12	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	5
Wetland 9	9-7	Wetland	Temporary (<90 days)	Temporary	0.01	400	0.00	6	No	No	Clearwater, 60, BSA 4	5
Wetland 9	9-8	Wetland	Temporary (<90 days)	Temporary	0.09	3814	0.32	6	No	No	Clearwater, 60, BSA 4	5
Wetland 9	9-9	Wetland	Temporary (<90 days)	Temporary	0.13	5764	2.12	2	No	No	Clearwater, 60, BSA 4	5
Wetland 9	9-10	Wetland	Temporary (<90 days)	Temporary	0.01	506	0.00	6	No	No	Clearwater, 60, BSA 4	5
Wetland 9	9-11a	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.02	772	2.12	2	Ditch Shift	Yes	Clearwater, 60, BSA 4	5
Wetland 9	9-11b	Wetland	Fill	Permanent	0.04	1700	2.12	2	Yes	Yes	Clearwater, 60, BSA 4	5
Wetland 10	10-1	Wetland	Fill	Permanent	0.10	4369	0.87	2	Yes	Yes	Clearwater, 60, BSA 4	4
Wetland 10	10-2	Wetland	Cut	Permanent	0.03	1356	0.87	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	4
Wetland 10	10-3	Wetland	Temporary (<90 days)	Temporary	0.28	12105	0.87	2	No	No	Clearwater, 60, BSA 4	4-5
Wetland 10	10-4	Wetland	Cut	Permanent	0.05	2357	0.87	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	4-5
Wetland 10	10-5	Wetland	Fill	Permanent	0.08	3671	0.71	2	Yes	Yes	Clearwater, 60, BSA 4	5
Wetland 10	10-6	Wetland	Temporary (<90 days)	Temporary	0.17	7254	0.71	2	No	No	Clearwater, 60, BSA 4	5
Wetland 10	10-7a	Wetland	Fill	Permanent	0.14	6050	2.11	2	Yes	Yes	Clearwater, 60, BSA 4	5
Wetland 10	10-7b	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.01	453	2.11	2	Yes	Yes	Clearwater, 60, BSA 4	5
Wetland 10	10-8	Wetland	Temporary (<90 days)	Temporary	0.82	35918	2.11	2	No	No	Clearwater, 60, BSA 4	5-6
Wetland 10	10-9a	Wetland	Cut	Permanent	0.01	460	2.11	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	5
Wetland 10	10-9b	Wetland Ditch (Wetland Backslope)	Cut	Permanent	0.02	1055	2.11	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	5
Wetland 10	10-10a	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.01	268	2.11	2	Yes	Yes	Clearwater, 60, BSA 4	5
Wetland 10	10-10b	Wetland	Fill	Permanent	0.32	13911	2.11	2	Yes	Yes	Clearwater, 60, BSA 4	5
Wetland 10	10-11	Wetland	Temporary (<90 days)	Temporary	0.11	4704	0.39	6	No	No	Clearwater, 60, BSA 4	5
Wetland 10	10-12	Wetland	Fill	Permanent	0.07	3102	2.11	2	Yes	Yes	Clearwater, 60, BSA 4	5-6
Wetland 10	10-13	Wetland	Fill	Permanent	0.08	3562	2.11	2	Yes	Yes	Clearwater, 60, BSA 4	6
Wetland 10	10-14	Wetland	Fill	Permanent	0.02	979	0.13	2	Yes	Yes	Clearwater, 60, BSA 4	6
Wetland 10	10-15	Wetland	Temporary (<90 days)	Temporary	0.04	1742	0.13	2	No	No	Clearwater, 60, BSA 4	6
Wetland 10	10-16	Wetland	Fill	Permanent	0.03	1141	0.07	2	Yes	Yes	Clearwater, 60, BSA 4	6
Wetland 10	10-17	Wetland	Temporary (<90 days)	Temporary	0.03	1211	0.07	2	No	No	Clearwater, 60, BSA 4	6
Wetland 11	11-1a	Wetland	Fill	Permanent	0.03	1463	0.43	2	Yes	Yes	Clearwater, 60, BSA 4	5
Wetland 11	11-1b	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.15	6329	0.43	2	Yes	Yes	Clearwater, 60, BSA 4	5
Wetland 11	11-2	Wetland	Temporary (<90 days)	Temporary	0.15	6395	0.43	2	No	No	Clearwater, 60, BSA 4	5
Wetland 12	12-1a	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.04	1782	0.35	2	Ditch Shift	Yes	Clearwater, 60, BSA 4	5
Wetland 12	12-1b	Wetland	Fill	Permanent	0.11	4823	0.35	2	Yes	Yes	Clearwater, 60, BSA 4	5
Wetland 12	12-1c	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.03	1375	0.35	2	Ditch Shift	Yes	Clearwater, 60, BSA 4	5
Wetland 12	12-2	Wetland	Cut	Permanent	0.00	57	0.03	6	Yes	No (Excavation)	Clearwater, 60, BSA 4	5
Wetland 12	12-3	Wetland	Temporary (<90 days)	Temporary	0.01	338	0.03	6	No	No	Clearwater, 60, BSA 4	5
Wetland 12	12-4	Wetland	Temporary (<90 days)	Temporary	0.10	4234	0.35	2	No	No	Clearwater, 60, BSA 4	5
Wetland 12	12-5	Wetland	Temporary (<90 days)	Temporary	0.05	2067	0.10	6	No	No	Clearwater, 60, BSA 4	5
Wetland 12	12-6	Wetland	Cut	Permanent	0.01	475	0.35	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	5
Wetland Ditch 13	13-1	Wetland Ditch (Upland Backslope)	Fill	Permanent	0.17	7274	0.17	1	No (AJD)	No (Incidental)	Clearwater, 60, BSA 4	5-6
Wetland 14	14-1	Wetland	Fill	Permanent	0.03	1219	0.06	1	Yes	Yes	Clearwater, 60, BSA 4	6
Wetland 14	14-2	Wetland	Temporary (<90 days)	Temporary	0.02	837	0.06	1	No	No	Clearwater, 60, BSA 4	6
Wetland 15	15-1	Wetland	Fill	Permanent	0.00	80	0.08	2	Yes	Yes	Clearwater, 60, BSA 4	6
Wetland 15	15-2	Wetland	Temporary (<90 days)	Temporary	0.04	1957	0.08	2	No	No	Clearwater, 60, BSA 4	6
Wetland 15	15-3	Wetland	Fill	Permanent	0.02	837	0.08	2	Yes	Yes	Clearwater, 60, BSA 4	6
Wetland 16	16-1	Wetland	Fill	Permanent	0.06	2786	0.09	2	Yes	Yes	Clearwater, 60, BSA 4	6
Wetland 16	16-2	Wetland	Temporary (<90 days)	Temporary	0.03	1213	0.09	2	No	No	Clearwater, 60, BSA 4	6
Wetland 16	16-3	Wetland	Temporary (<90 days)	Temporary	0.02	888	0.02	6	No	No	Clearwater, 60, BSA 4	6
Wetland 17	17-1	Wetland	Fill	Permanent	0.01	308	0.40	2	Yes	Yes	Clearwater, 60, BSA 4	6
Wetland 17	17-2	Wetland	Cut	Permanent	0.01	650	0.40	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	6
Wetland 17	17-3	Wetland	Temporary (<90 days)	Temporary	0.09	4010	0.40	2	No	No	Clearwater, 60, BSA 4	6
Wetland 18	18-1	Wetland	Fill	Permanent	0.01	631	0.09	2	Yes	Yes	Clearwater, 60, BSA 4	6

Table 4. Aquatic Resource Impacts Summary Table

February 12, 2021

Aquatic Resource Id	Impact Area	Regulatory Type*	Type of Impact	Duration of Impact	Impacts (acres)	Impacts (square feet)	Total Acres within Delineation Study Area	C-39**	COE Permit***	WCA Regulated****	County, Major Watershed #, and Bank Service Area # of Impact Area	Appendix C Sheet Number
Wetland 18	18-2	Wetland	Cut	Permanent	0.03	1248	0.09	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	6
Wetland 18	18-3	Wetland	Temporary (<90 days)	Temporary	0.03	1172	0.09	2	No	No	Clearwater, 60, BSA 4	6
Wetland 18	18-4	Wetland	Temporary (<90 days)	Temporary	0.01	223	0.01	6	No	No	Clearwater, 60, BSA 4	6
Wetland 19	19-1	Wetland	Cut	Permanent	0.00	101	0.04	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	7
Wetland 19	19-2	Wetland	Temporary (<90 days)	Temporary	0.03	1247	0.04	2	No	No	Clearwater, 60, BSA 4	7
Wetland 20	20-1	Wetland	Cut	Permanent	0.00	44	0.10	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	7
Wetland 20	20-2	Wetland	Cut	Permanent	0.00	21	0.10	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	7
Wetland 20	20-3	Wetland	Temporary (<90 days)	Temporary	0.03	1364	0.10	2	No	No	Clearwater, 60, BSA 4	7
Wetland 21	21-1	Wetland	Cut	Permanent	0.01	504	0.03	1	Yes	No (Excavation)	Clearwater, 60, BSA 4	8
Wetland 21	21-2	Wetland	Temporary (<90 days)	Temporary	0.02	653	0.03	1	No	No	Clearwater, 60, BSA 4	8
Wetland 21	21-3	Wetland	Temporary (<90 days)	Temporary	0.01	553	0.03	2	No	No	Clearwater, 60, BSA 4	8
Wetland 22	22-1	Wetland	Fill	Permanent	0.08	3678	0.18	3	Yes	Yes	Clearwater, 60, BSA 4	8
Wetland 22	22-2	Wetland	Temporary (<90 days)	Temporary	0.05	2026	0.18	3	No	No	Clearwater, 60, BSA 4	8
Wetland 23	23-1a	Wetland	Fill	Permanent	0.25	10969	0.85	2	Yes	Yes	Clearwater, 60, BSA 4	8
Wetland 23	23-1b	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.03	1353	0.85	2	Ditch Shift	Yes	Clearwater, 60, BSA 4	8
Wetland 23	23-2a	Wetland	Cut	Permanent	0.11	4917	0.85	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	8
Wetland 23	23-2b	Wetland Ditch (Wetland Backslope)	Cut	Permanent	0.01	271	0.85	2	Ditch Shift	No (Excavation)	Clearwater, 60, BSA 4	8
Wetland 23	23-3	Wetland	Temporary (<90 days)	Temporary	0.26	11171	0.85	2	No	No	Clearwater, 60, BSA 4	8
Wetland 23	23-4a	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.02	804	0.48	2	Ditch Shift	Yes	Clearwater, 60, BSA 4	8
Wetland 23	23-4b	Wetland	Fill	Permanent	0.10	4178	0.48	2	Yes	Yes	Clearwater, 60, BSA 4	8
Wetland 23	23-5	Wetland	Cut	Permanent	0.06	2778	0.48	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	8
Wetland 23	23-6	Wetland	Temporary (<90 days)	Temporary	0.14	6126	0.48	2	No	No	Clearwater, 60, BSA 4	8
Wetland 23	23-7	Wetland	Temporary (<90 days)	Temporary	0.01	314	0.00	6	No	No	Clearwater, 60, BSA 4	8
Wetland 24	24-1a	Wetland	Fill	Permanent	0.19	8131	1.54	2	Yes	Yes	Clearwater, 60, BSA 4	8
Wetland 24	24-1b	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.00	139	1.54	2	Ditch Shift	Yes	Clearwater, 60, BSA 4	8
Wetland 24	24-2	Wetland	Cut	Permanent	0.09	3815	1.54	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	8
Wetland 24	24-3	Wetland	Temporary (<90 days)	Temporary	0.21	8975	1.54	2	No	No	Clearwater, 60, BSA 4	8
Wetland 24	24-4a	Wetland Ditch (Wetland Backslope)	Fill	Permanent	0.14	5998	1.54	2	Ditch Shift	Yes	Clearwater, 60, BSA 4	8
Wetland 24	24-4b	Wetland	Fill	Permanent	0.02	935	1.54	2	Yes	Yes	Clearwater, 60, BSA 4	8
Wetland 24	24-5a	Wetland Ditch (Wetland Backslope)	Cut	Permanent	0.12	5350	1.54	2	Ditch Shift	No (Excavation)	Clearwater, 60, BSA 4	8
Wetland 24	24-5b	Wetland	Cut	Permanent	0.14	5909	1.54	2	Yes	No (Excavation)	Clearwater, 60, BSA 4	8
Wetland 24	24-6	Wetland	Temporary (<90 days)	Temporary	0.09	3831	0.14	6	No	No	Clearwater, 60, BSA 4	8
Wetland 24	24-7	Wetland	Temporary (<90 days)	Temporary	0.01	272	1.54	2	No	No	Clearwater, 60, BSA 4	8
Wetland 24	24-8	Wetland	Temporary (<90 days)	Temporary	0.14	6055	1.54	2	No	No	Clearwater, 60, BSA 4	8-9
TOTAL					13.48	587307						

*Wetland ditches are discussed in Part 3 and Attachment B. It is assumed all wetland ditches will not require mitigation from the USACE and that wetland ditches with an upland backslope are not regulated by WCA

**Wetland Plants and Plant Community Types of Minnesota and Wisconsin 3rd Ed. as modified in MN Rules 8420.0405 Subp. 2; all Type 1 wetlands are Seasonally Flooded Basin plant communities and Type 2 wetlands are Fresh (Wet) Meadow plant communities

*** Corps anticipated mitigation requirements discussed in Attachment B.

**** WCA regulatory status discussed in Attachment B

Appendix C2: Wetland Impacts by Corps Requirements - Page 1 of 9 **UPDATED 2/12/2021**

Construction Limits	Level 2 Delineated Wetland Boundary	Delineated Wetland Type
Approximate ROW	Level 1 Estimated Wetland Boundary	Seasonally Flooded Basin (Type 1)
Pipes	Permanent Wetland Ditch Impact*	Fresh (Wet) Meadow (Type 2)
Tributary Boundary	Permanent Wetland Basin Impact**	Shallow Marsh (Type 3)
Living Snow Fence	Temporary Impact	Scrub (Shrub) Swamp (Type 6)

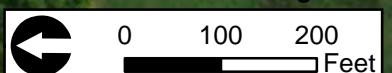
*Impacts not anticipated to require Corps mitigation

**Impacts anticipated to require Corps mitigation

Wetland 2
Perm. Fill: 0.03 ac
Perm. Cut: 226 sf
Temporary: 0.02 ac

Wetland 1
Perm. Fill: 0.03 ac
Perm. Cut: 0.04 ac
Temporary: 0.1 ac

Aerial Photo Courtesy of ESRI



Appendix C2: Wetland Impacts by Corps Requirements - Page 2 of 9 **UPDATED 2/12/2021**

Construction Limits	Level 2 Delineated Wetland Boundary	Delineated Wetland Type
Approximate ROW	Level 1 Estimated Wetland Boundary	Seasonally Flooded Basin (Type 1)
Pipes	Permanent Wetland Ditch Impact*	Fresh (Wet) Meadow (Type 2)
Tributary Boundary	Permanent Wetland Basin Impact**	Shallow Marsh (Type 3)
Living Snow Fence	Temporary Impact	Scrub (Shrub) Swamp (Type 6)

*Impacts not anticipated to require Corps mitigation

**Impacts anticipated to require Corps mitigation



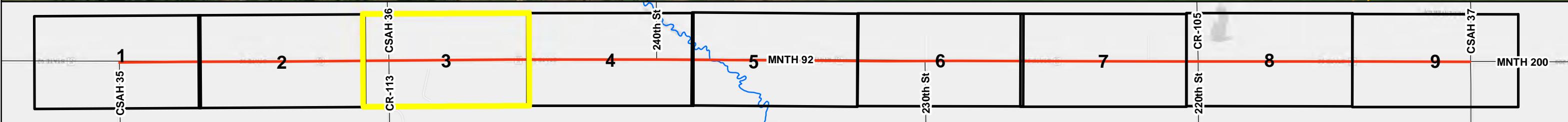
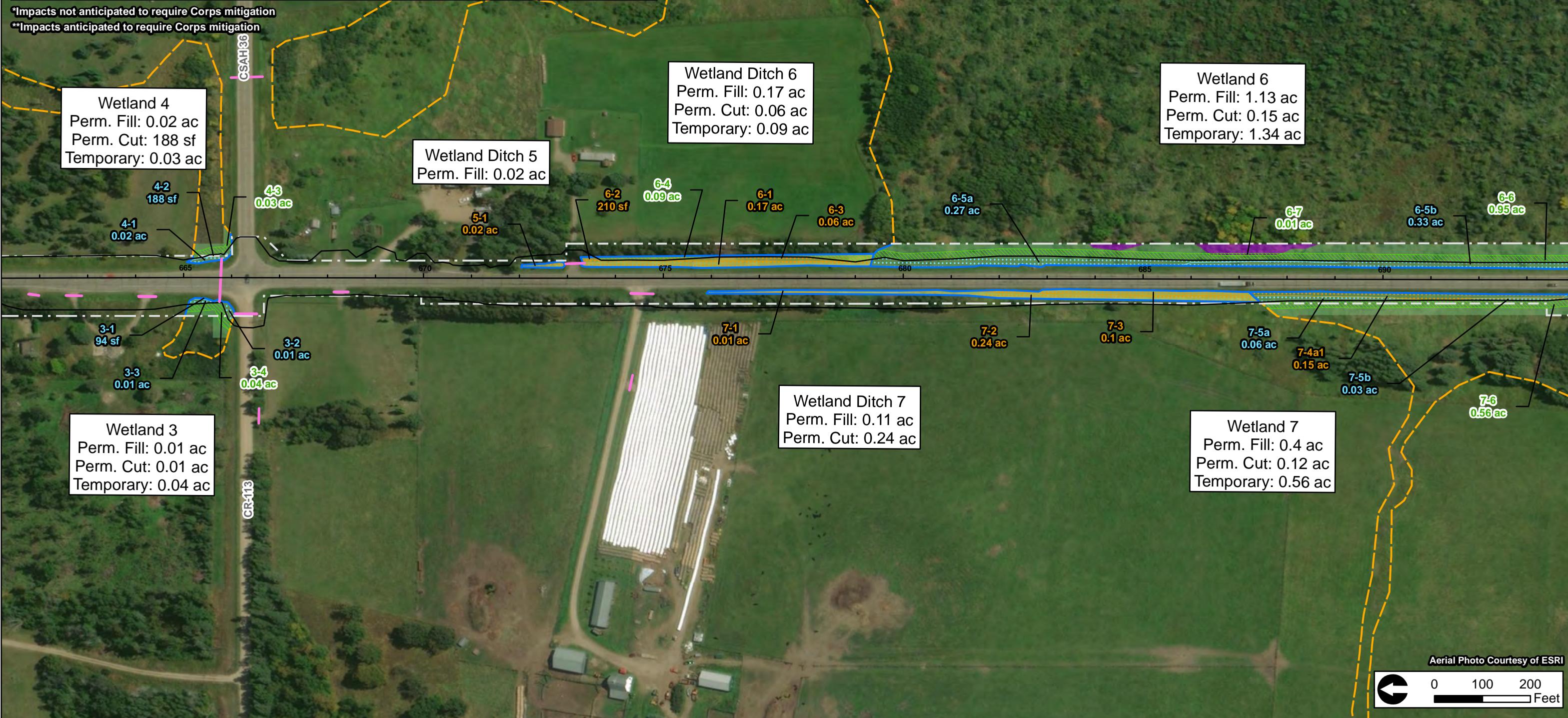
Aerial Photo Courtesy of ESRI



Construction Limits	Level 2 Delineated Wetland Boundary	Delineated Wetland Type
Approximate ROW	Level 1 Estimated Wetland Boundary	Seasonally Flooded Basin (Type 1)
Pipes	Permanent Wetland Ditch Impact*	Fresh (Wet) Meadow (Type 2)
Tributary Boundary	Permanent Wetland Basin Impact**	Shallow Marsh (Type 3)
Living Snow Fence	Temporary Impact	Scrub (Shrub) Swamp (Type 6)

*Impacts not anticipated to require Corps mitigation

**Impacts anticipated to require Corps mitigation



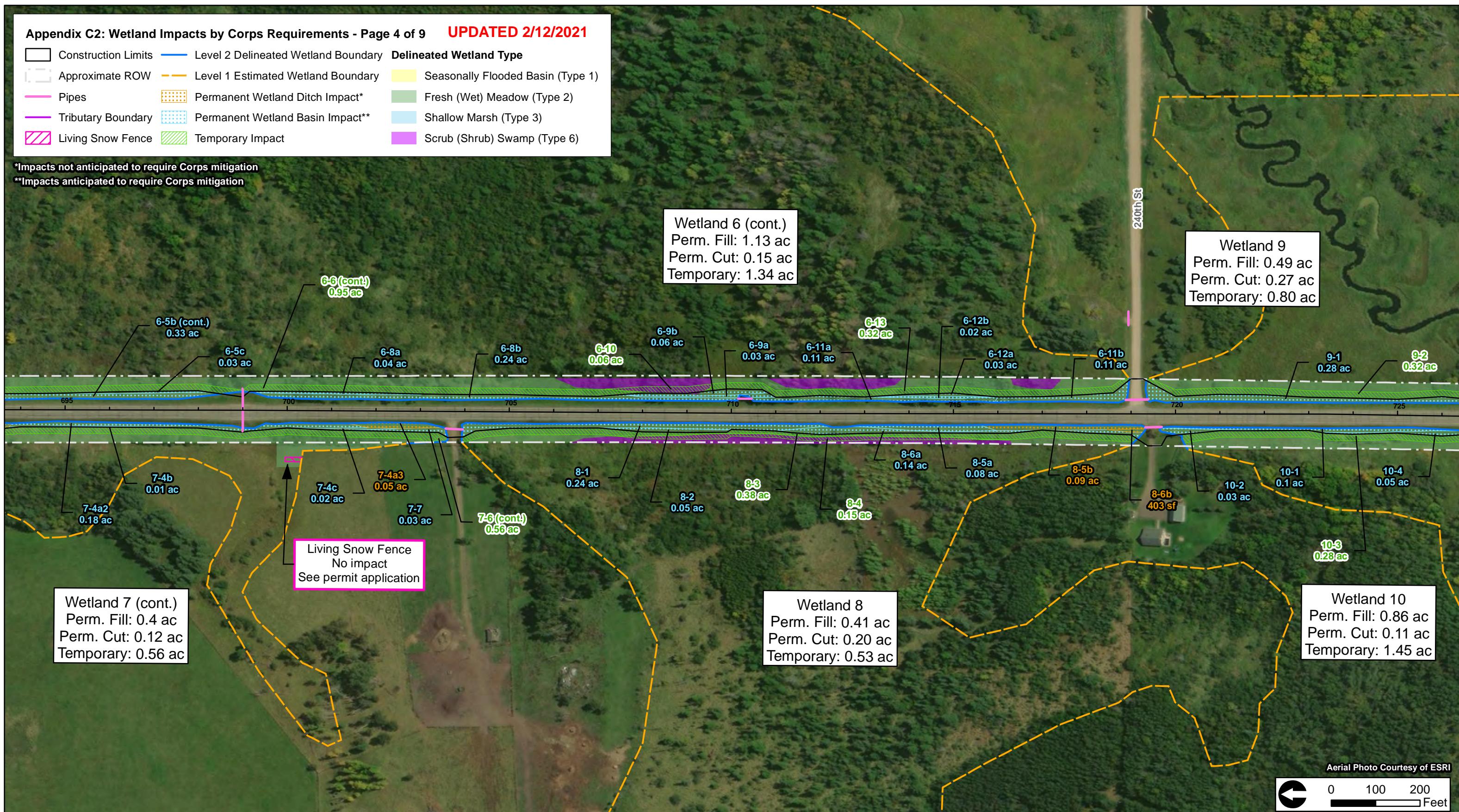
Appendix C2: Wetland Impacts by Corps Requirements - Page 4 of 9 **UPDATED 2/12/2022**

9 UPDATED 2/12/202

	Construction Limits		Level 2 Delineated Wetland Boundary	Delineated Wetland Type
	Approximate ROW		Level 1 Estimated Wetland Boundary	 Seasonally Flooded Basin (Type 1)
	Pipes		Permanent Wetland Ditch Impact*	 Fresh (Wet) Meadow (Type 2)
	Tributary Boundary		Permanent Wetland Basin Impact**	 Shallow Marsh (Type 3)
	Living Snow Fence		Temporary Impact	 Scrub (Shrub) Swamp (Type 6)

*Impacts not anticipated to require Corps mitigation

****Impacts anticipated to require Corps mitigation**



Aerial Photo Courtesy of ESRI

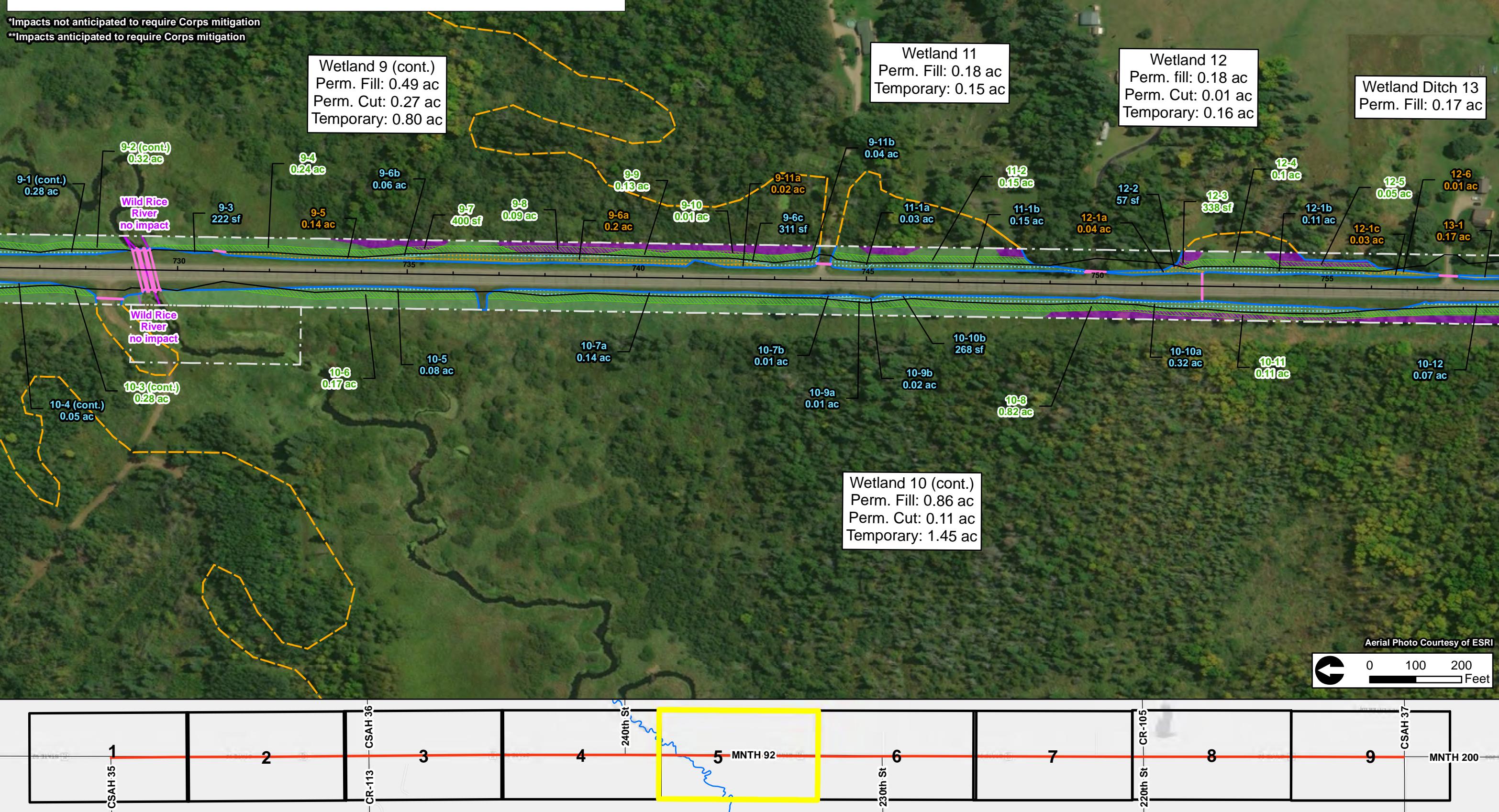
A scale bar with a black arrow pointing left, labeled '0 100 200 Feet'.



Construction Limits	Level 2 Delineated Wetland Boundary	Delineated Wetland Type
Approximate ROW	Level 1 Estimated Wetland Boundary	Seasonally Flooded Basin (Type 1)
Pipes	Permanent Wetland Ditch Impact*	Fresh (Wet) Meadow (Type 2)
Tributary Boundary	Permanent Wetland Basin Impact**	Shallow Marsh (Type 3)
Living Snow Fence	Temporary Impact	Scrub (Shrub) Swamp (Type 6)

*Impacts not anticipated to require Corps mitigation

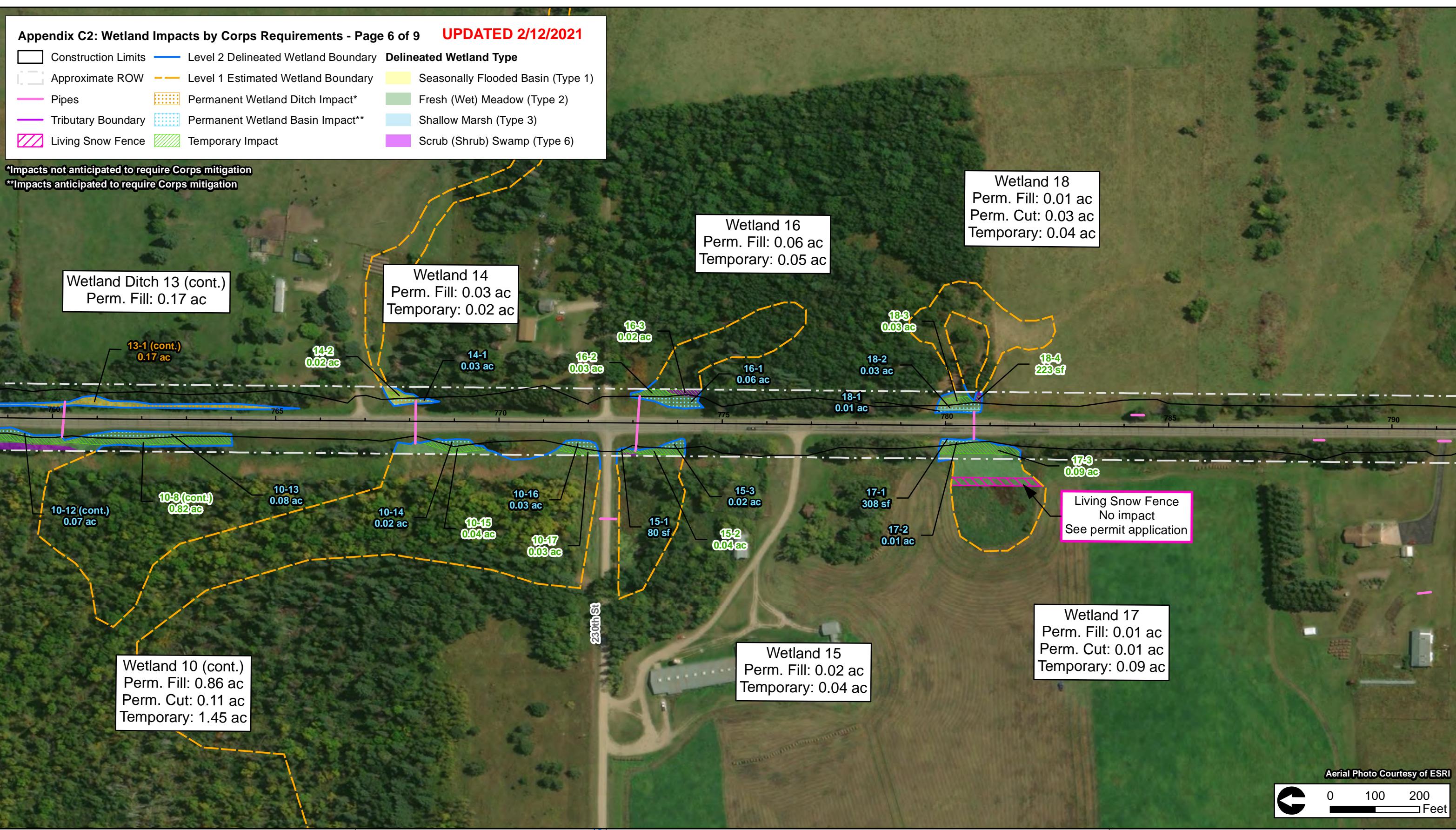
**Impacts anticipated to require Corps mitigation



Construction Limits	Level 2 Delineated Wetland Boundary	Delineated Wetland Type
Approximate ROW	Level 1 Estimated Wetland Boundary	Seasonally Flooded Basin (Type 1)
Pipes	Permanent Wetland Ditch Impact*	Fresh (Wet) Meadow (Type 2)
Tributary Boundary	Permanent Wetland Basin Impact**	Shallow Marsh (Type 3)
Living Snow Fence	Temporary Impact	Scrub (Shrub) Swamp (Type 6)

*Impacts not anticipated to require Corps mitigation

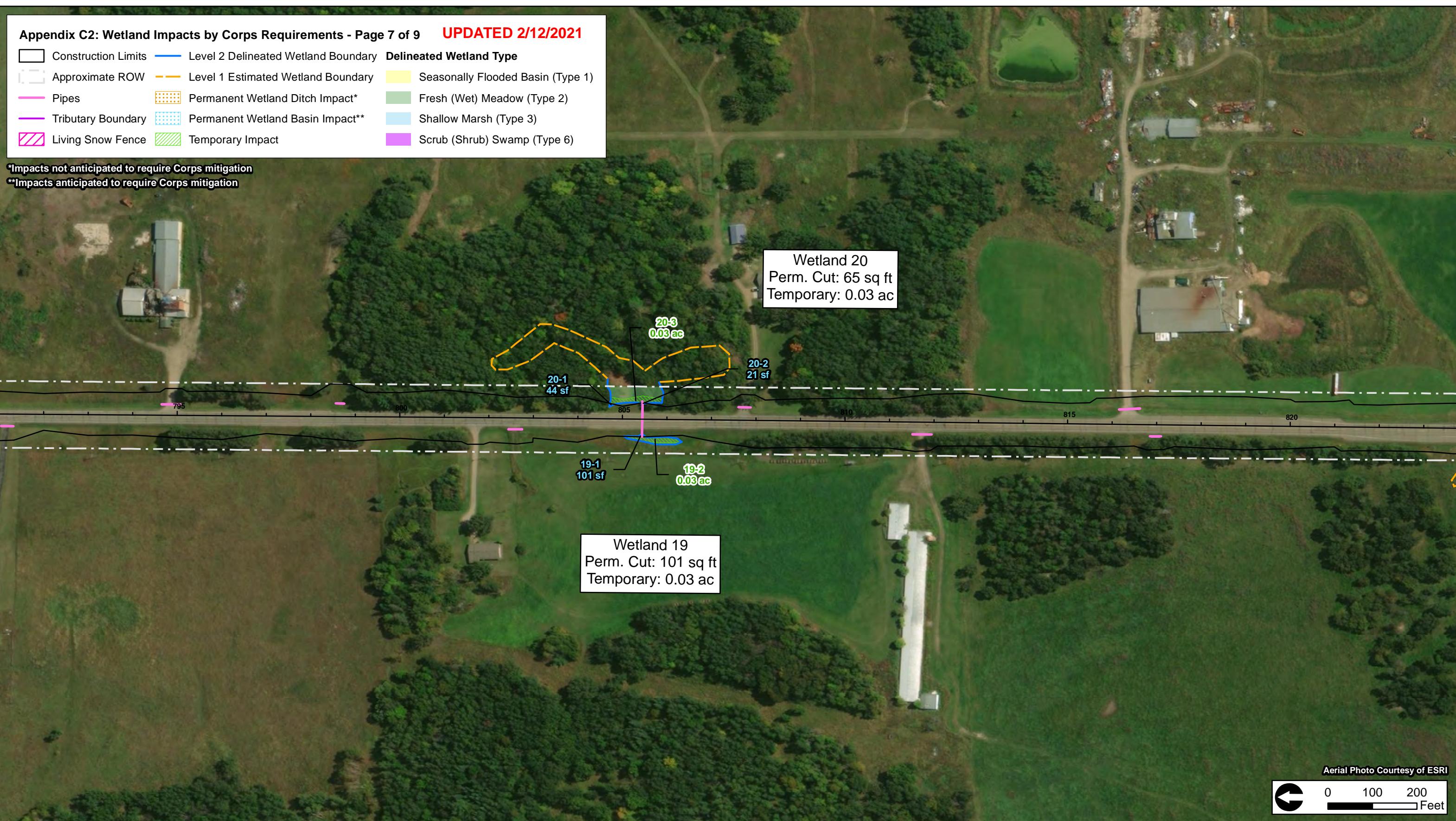
**Impacts anticipated to require Corps mitigation



Construction Limits	Level 2 Delineated Wetland Boundary	Delineated Wetland Type
Approximate ROW	Level 1 Estimated Wetland Boundary	Seasonally Flooded Basin (Type 1)
Pipes	Permanent Wetland Ditch Impact*	Fresh (Wet) Meadow (Type 2)
Tributary Boundary	Permanent Wetland Basin Impact**	Shallow Marsh (Type 3)
Living Snow Fence	Temporary Impact	Scrub (Shrub) Swamp (Type 6)

*Impacts not anticipated to require Corps mitigation

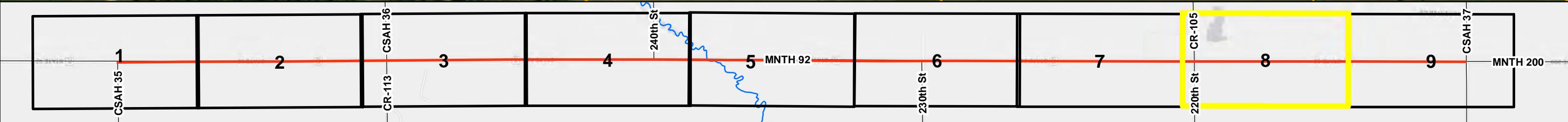
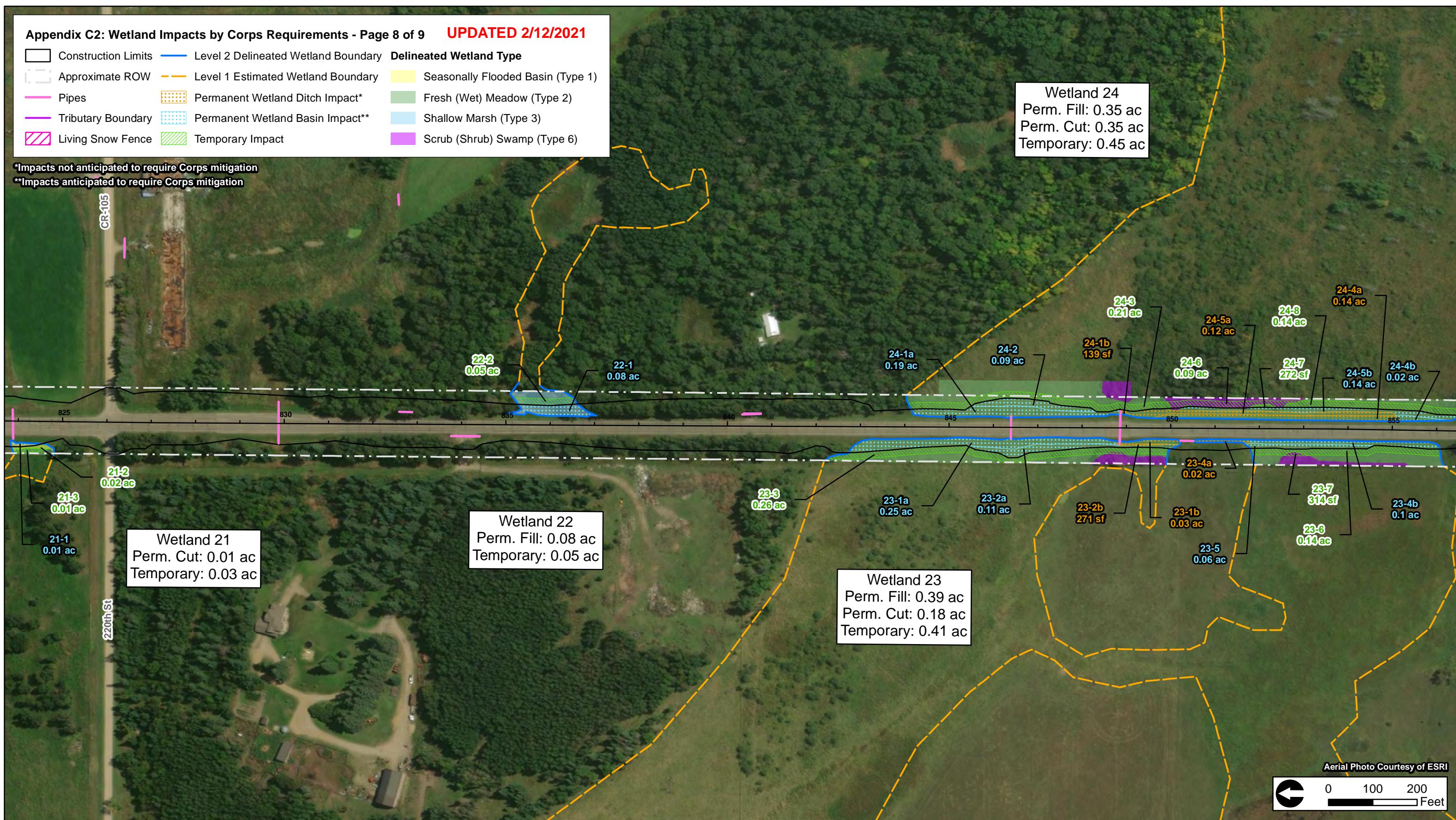
**Impacts anticipated to require Corps mitigation



Construction Limits	Level 2 Delineated Wetland Boundary	Delineated Wetland Type
Approximate ROW	Level 1 Estimated Wetland Boundary	Seasonally Flooded Basin (Type 1)
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*Impacts not anticipated to require Corps mitigation

**Impacts anticipated to require Corps mitigation

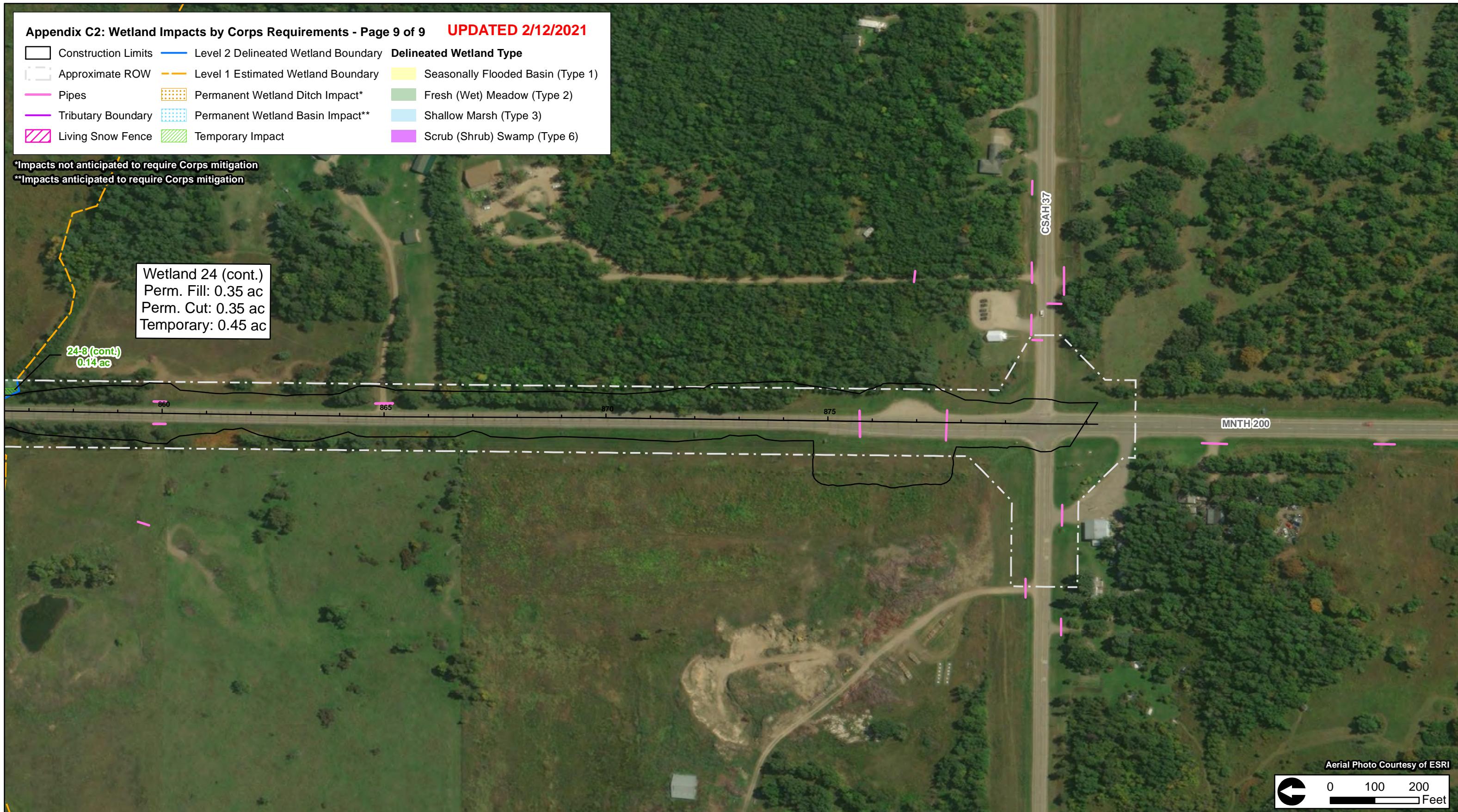


Construction Limits	Level 2 Delineated Wetland Boundary	Delineated Wetland Type
Approximate ROW	Level 1 Estimated Wetland Boundary	Seasonally Flooded Basin (Type 1)
Pipes	Permanent Wetland Ditch Impact*	Fresh (Wet) Meadow (Type 2)
Tributary Boundary	Permanent Wetland Basin Impact**	Shallow Marsh (Type 3)
Living Snow Fence	Temporary Impact	Scrub (Shrub) Swamp (Type 6)

*Impacts not anticipated to require Corps mitigation

**Impacts anticipated to require Corps mitigation

Wetland 24 (cont.)
 Perm. Fill: 0.35 ac
 Perm. Cut: 0.35 ac
 Temporary: 0.45 ac

24-8 (cont.)
0.14 ac

Aerial Photo Courtesy of ESRI

