

- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
  - Waterbody
  - Intermittent Stream
  - Perennial Stream
  - Canal/Ditch
- NWI Wetland**
  - PEM
  - PFO
  - PSS
  - PUB
  - L1U
  - R2U; R4S; R5U; R3U
- Field Delineated Features**
  - 2013 Sample Point
  - 2014 Sample Point
  - 2015 Sample Point
  - 2016 Sample Point
  - 2017 Sample Point
  - 2018 Sample Point
  - 2013 Field Delineated Waterbody
  - 2014 Field Delineated Waterbody
  - 2015 Field Delineated Waterbody
  - 2016 Field Delineated Waterbody
  - 2017 Field Delineated Waterbody
  - 2018 Field Delineated Waterbody
- 2013 Wetland**
  - PEM
  - PFO
  - PSS
  - PUB
  - L1UB
- 2014 Wetland**
  - PEM
  - PFO
  - PSS
  - PUB
- 2015 Wetland**
  - PEM
  - PFO
  - PSS
  - PUB
- 2016 Wetland**
  - PEM
  - PFO
  - PSS
  - PUB
- 2017 Wetland**
  - PEM
  - PFO
  - PSS
  - PUB
- 2018 Wetland**
  - PEM
  - PFO
  - PSS
  - PUB

**Appendix F**  
**Exhibit F 13-2**

**Enbridge**

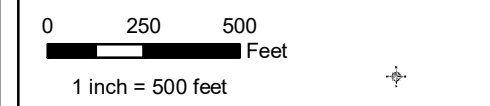
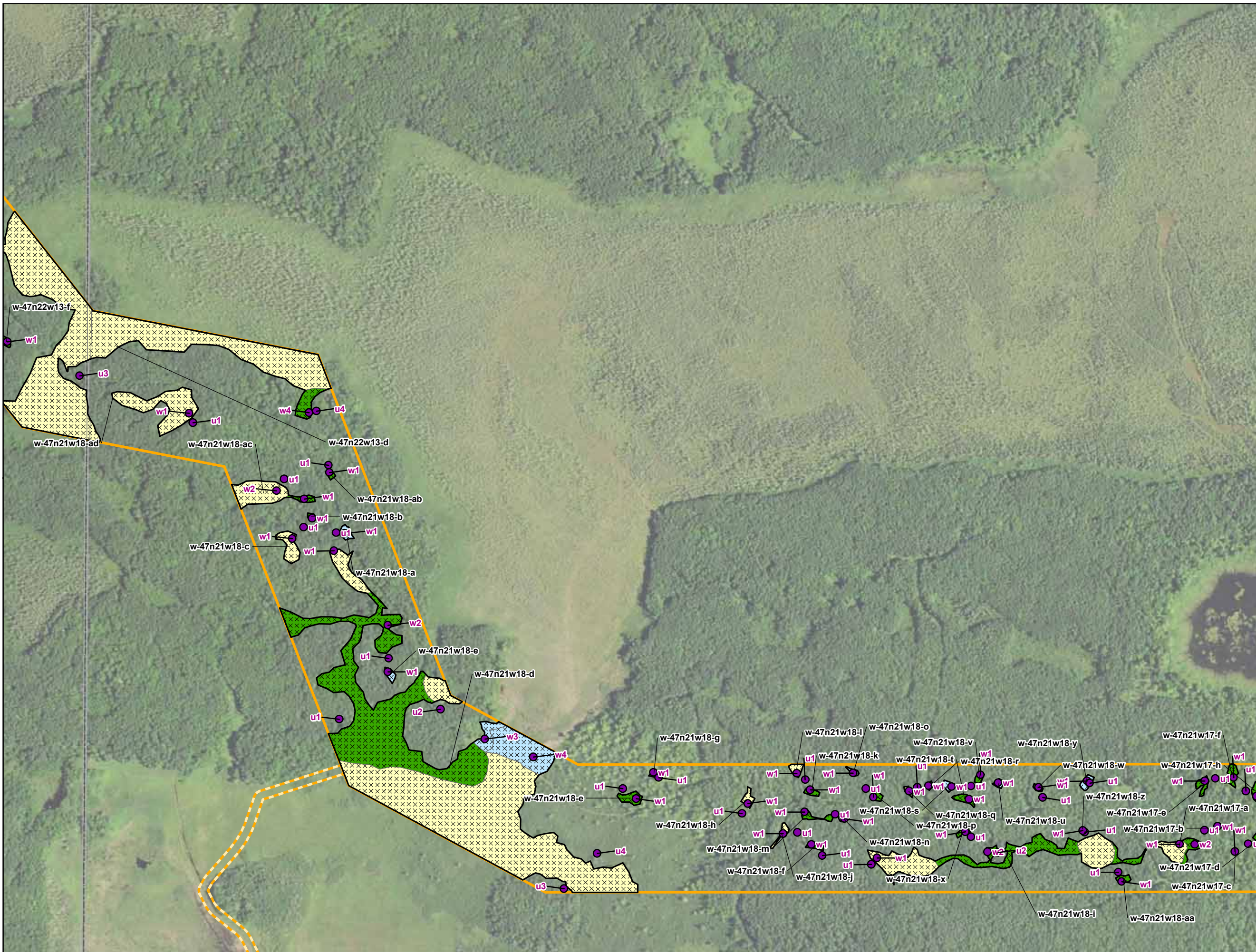
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Source: Z:\Clients\IE\_F\H\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-3**

**Enbridge**

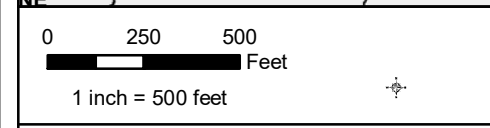
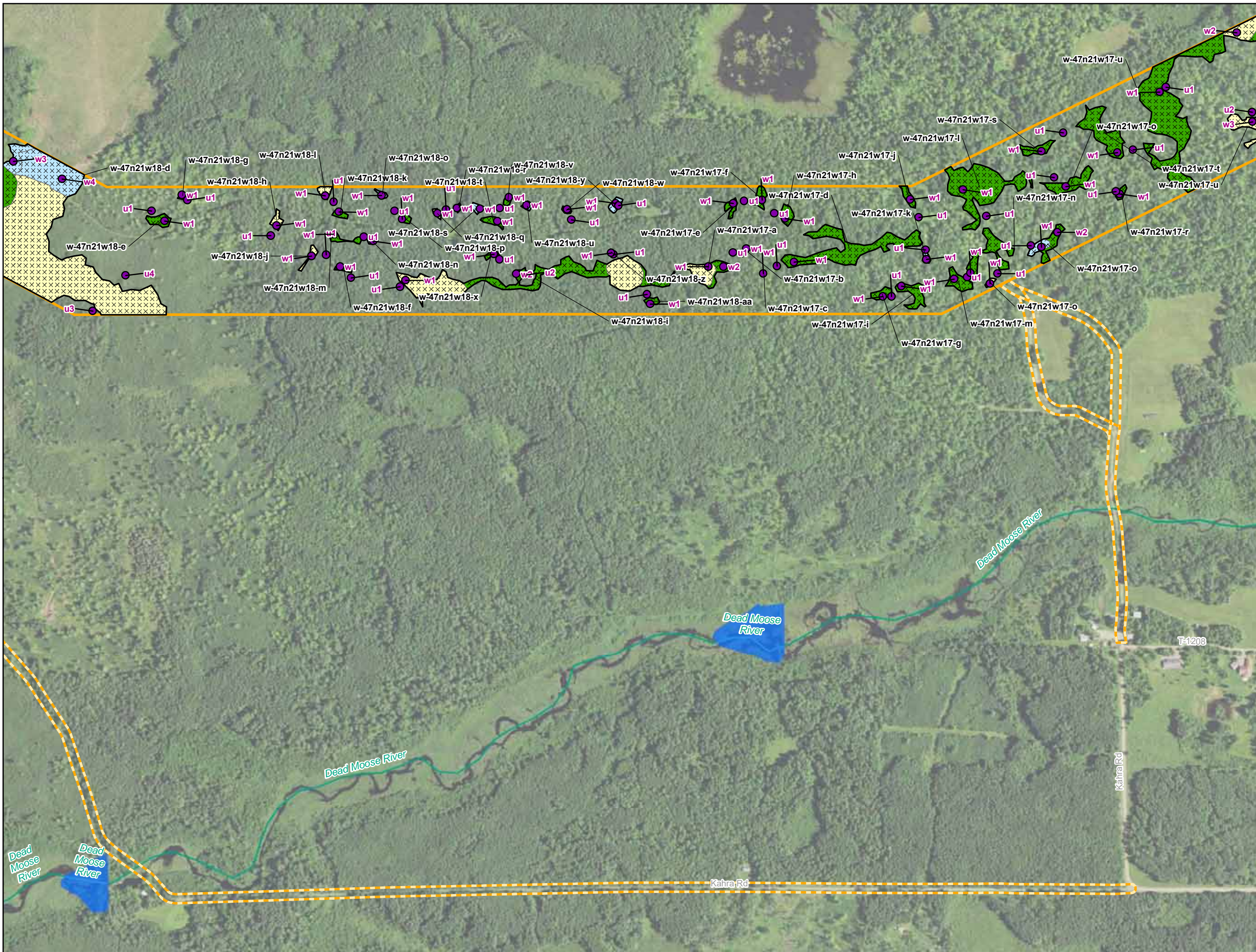
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Source: Z:\Clients\IE\_FHE\bridge\Line\_3\_Full\_ReplacementField\_Data\Wetland\Waterbody\Reposits\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
  - Waterbody
  - Intermittent Stream
  - Perennial Stream
  - Canal/Ditch
- NWI Wetland**
  - PEM
  - PFO
  - PSS
  - PUB
  - L1U
  - R2U; R4S; R5U; R3U
- Field Delineated Features**
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  - 2014 Sample Point
  - 2015 Sample Point
  - 2016 Sample Point
  - 2017 Sample Point
  - 2018 Sample Point
  - 2013 Field Delineated Waterbody
  - 2014 Field Delineated Waterbody
  - 2015 Field Delineated Waterbody
  - 2016 Field Delineated Waterbody
  - 2017 Field Delineated Waterbody
  - 2018 Field Delineated Waterbody
- 2013 Wetland**
  - PEM
  - PFO
  - PSS
  - PUB
  - L1UB
- 2014 Wetland**
  - PEM
  - PFO
  - PSS
  - PUB
- 2015 Wetland**
  - PEM
  - PFO
  - PSS
  - PUB
- 2016 Wetland**
  - PEM
  - PFO
  - PSS
  - PUB
- 2017 Wetland**
  - PEM
  - PFO
  - PSS
  - PUB
- 2018 Wetland**
  - PEM
  - PFO
  - PSS
  - PUB

**Appendix F**  
**Exhibit F 13-4**

**Enbridge**

**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

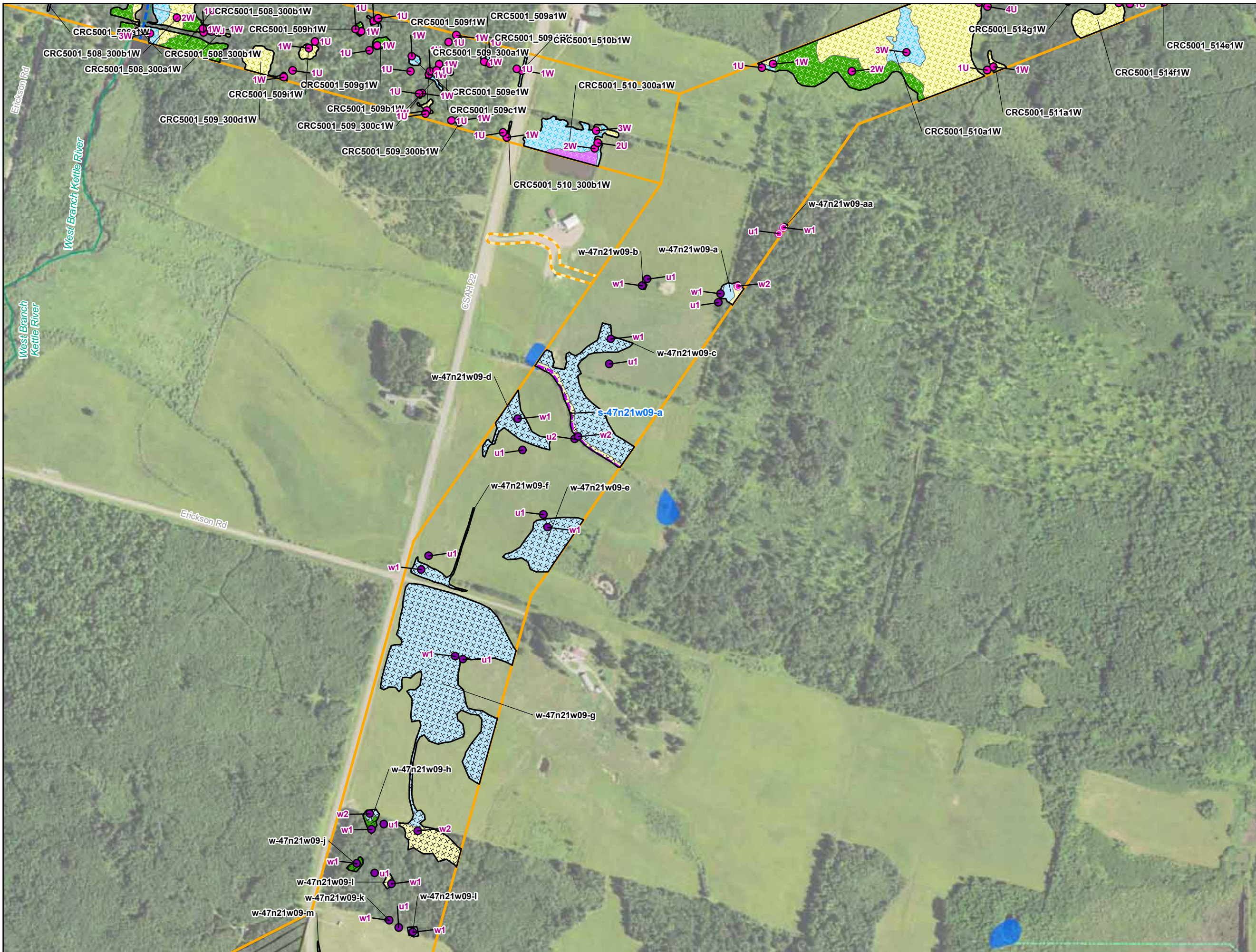
For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\Waterbody\Reports\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_20180831.mxd









- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-6**

**Enbridge**

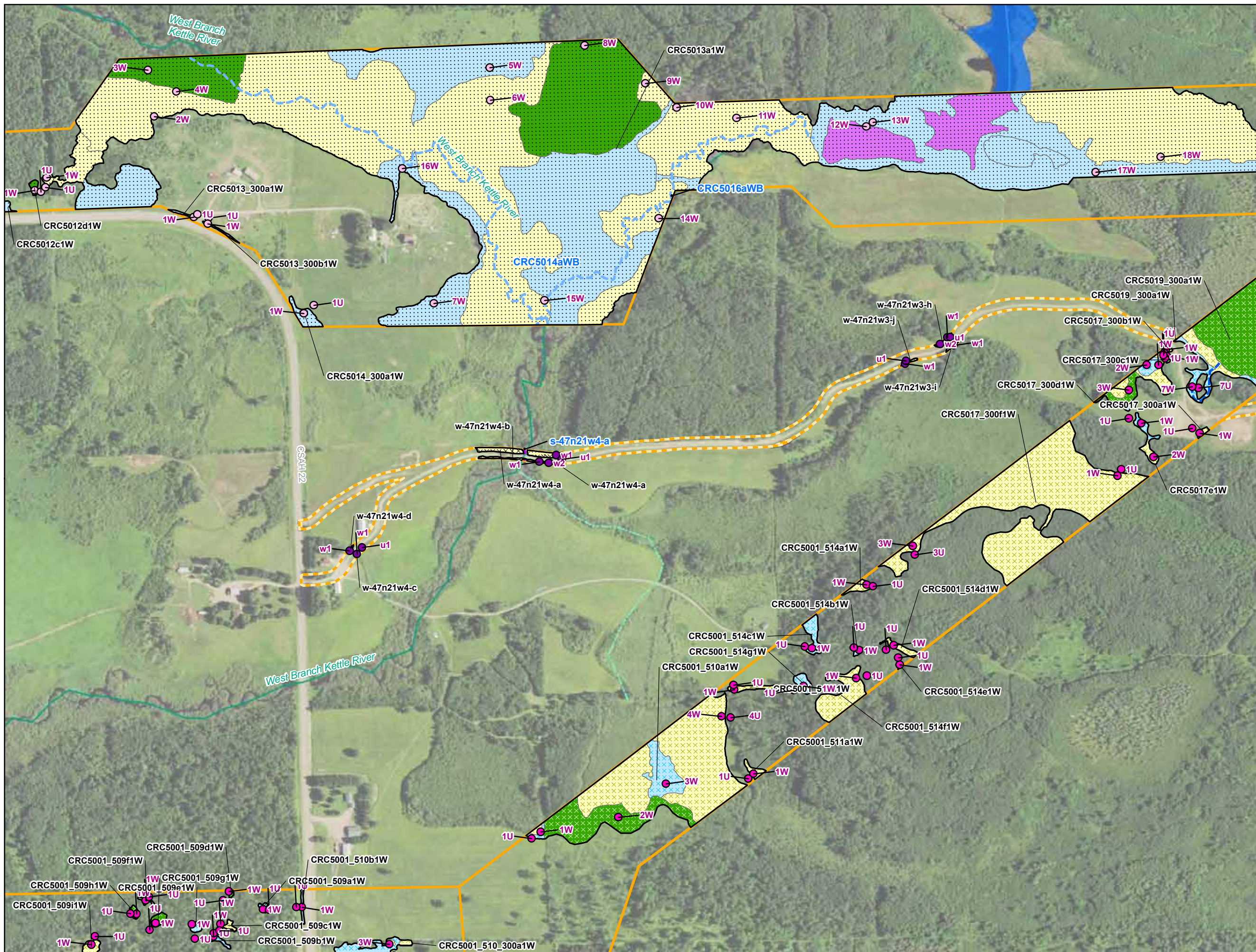
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Source: Z:\Clients\IE\_FHE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-7**

**Enbridge**

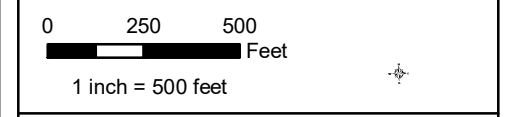
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631.mxd






- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- ~ Waterbody
- ~ Intermittent Stream
- ~ Perennial Stream
- ~ Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- ~ 2013 Field Delineated Waterbody
- ~ 2014 Field Delineated Waterbody
- ~ 2015 Field Delineated Waterbody
- ~ 2016 Field Delineated Waterbody
- ~ 2017 Field Delineated Waterbody
- ~ 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
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- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-8**

**Enbridge**

**Field Collected Wetlands and Waterbodies**

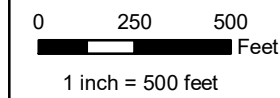
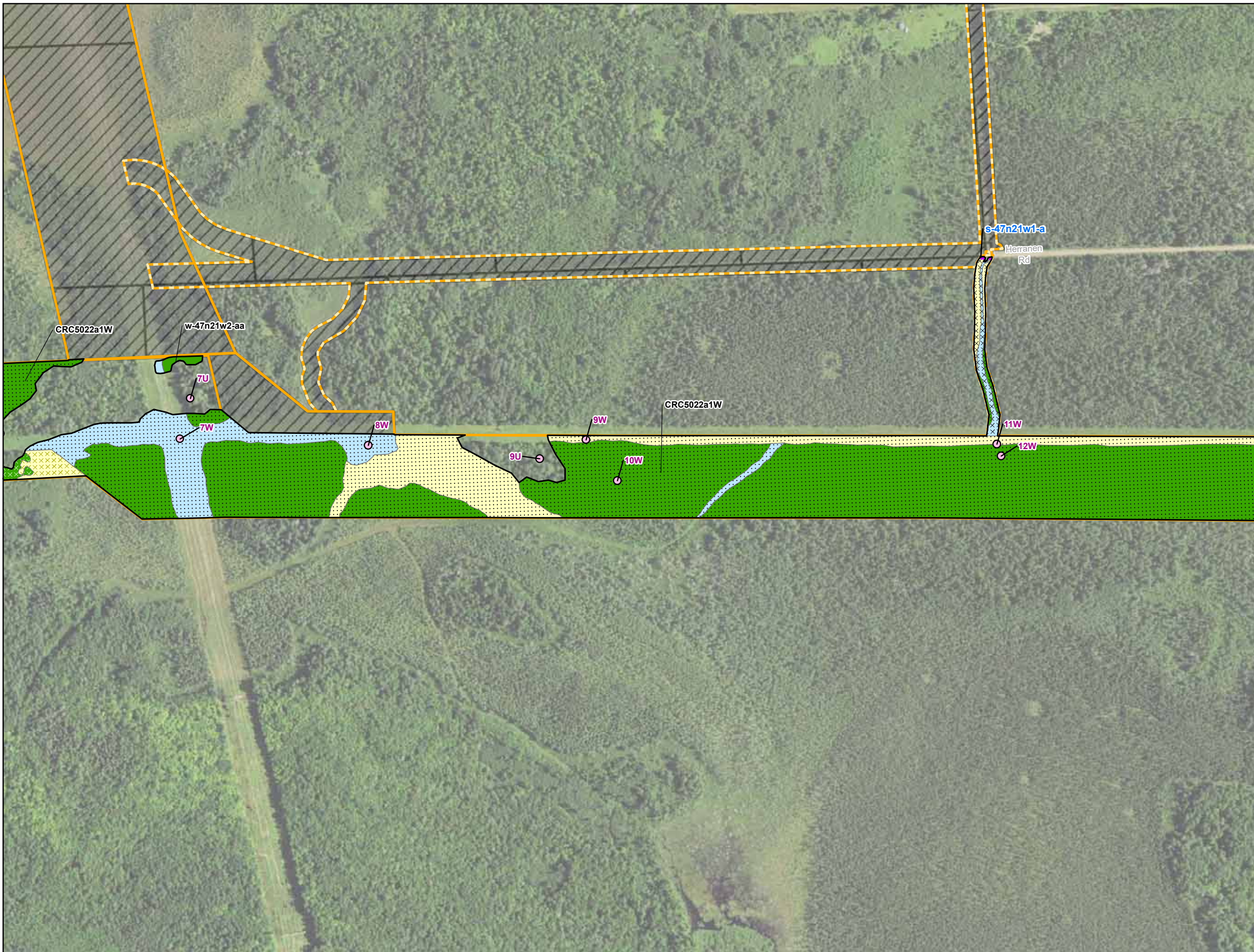
**Carlton County, Minnesota**



For Environmental Review Purposes Only September 2018

Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Full\_Replacement\Field\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
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- PFO
- PSS
- PUB
- 2017 Wetland**
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- PUB
- 2018 Wetland**
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- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-9**

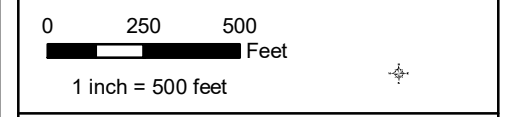
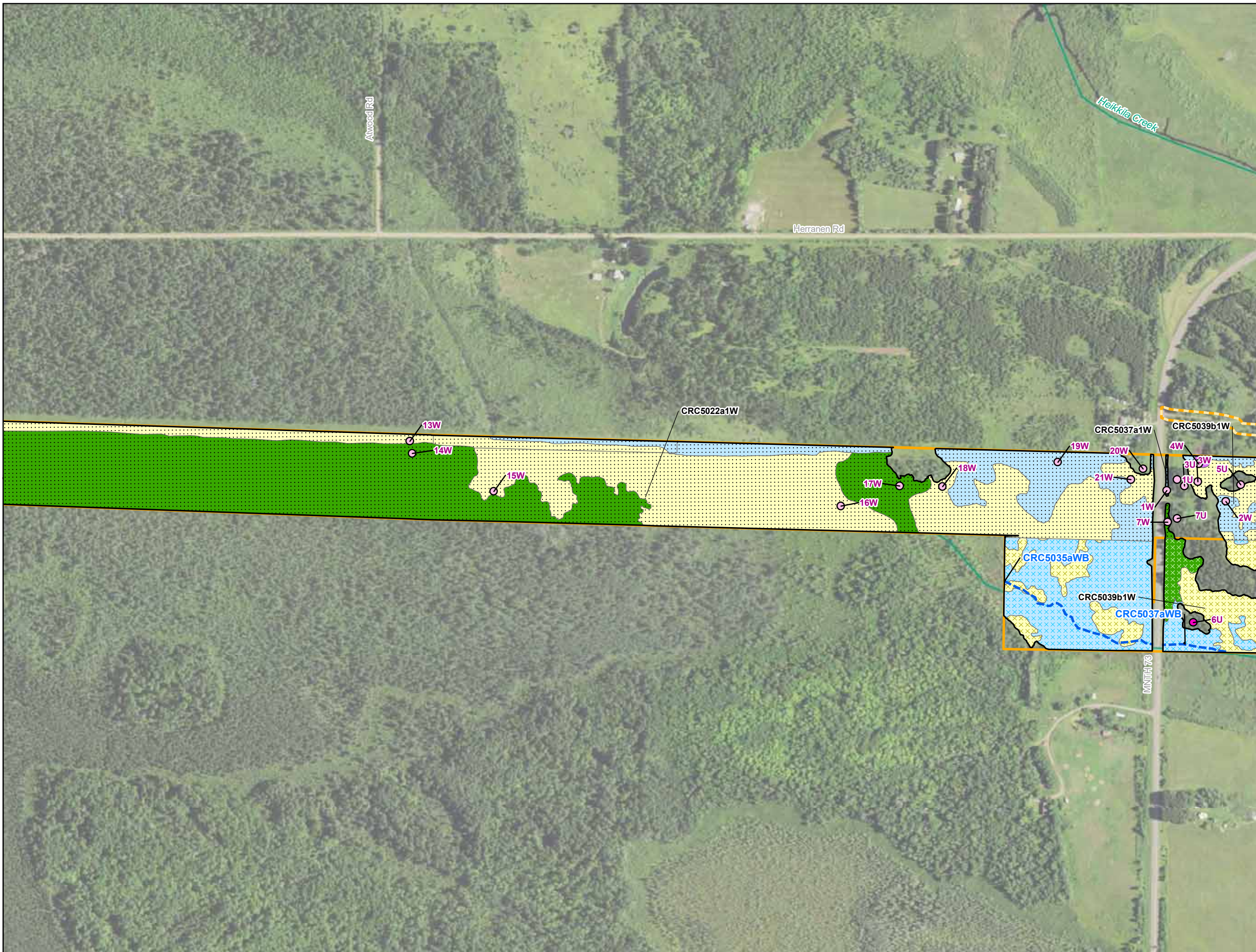
**Enbridge**

**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**







- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
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- 2017 Sample Point
- 2018 Sample Point
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- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
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- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
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- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
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- PUB

**Appendix F**  
**Exhibit F 13-10**

**Enbridge**

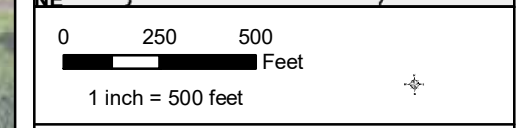
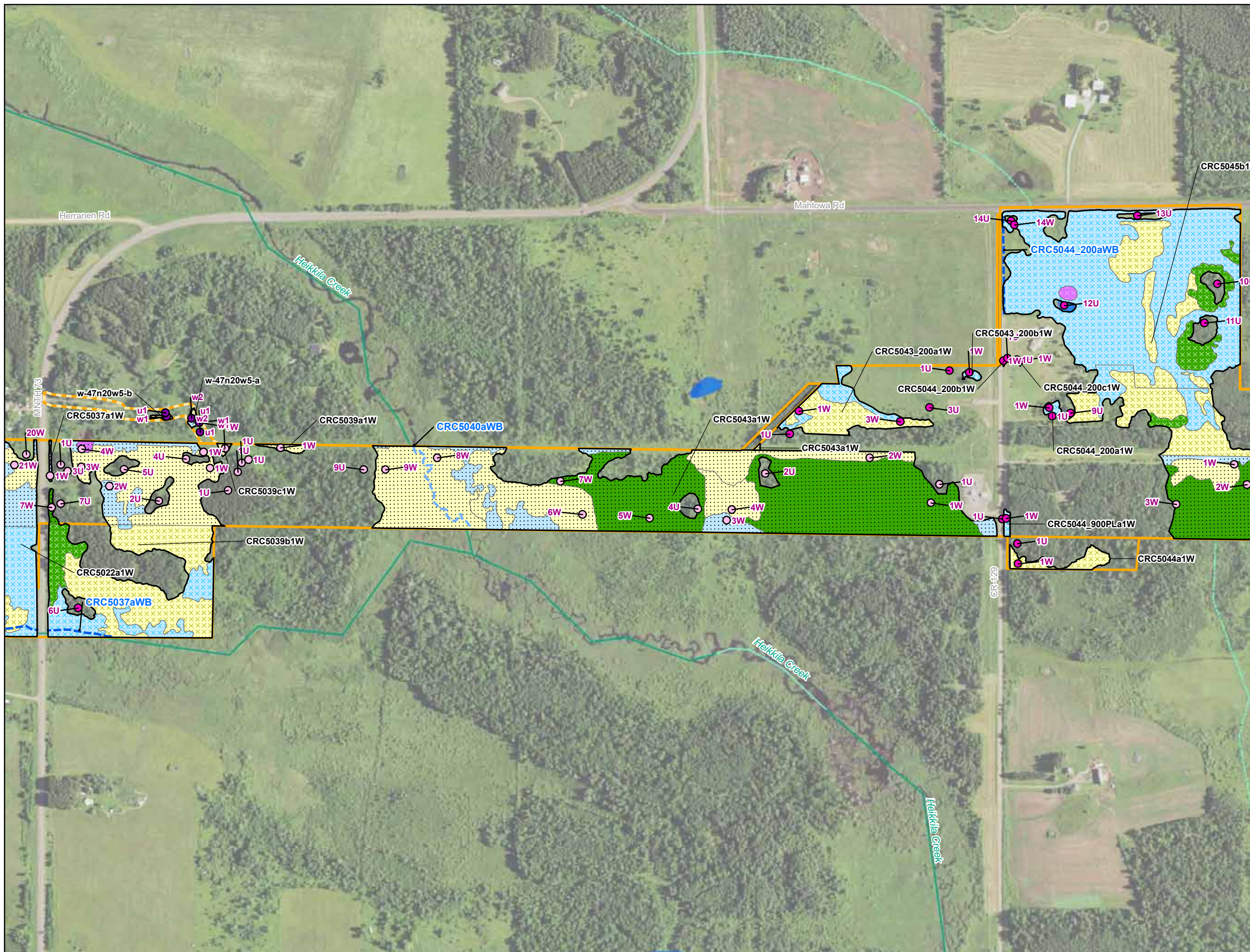
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Full\_Replacement\Field\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- L1U
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
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- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
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- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
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- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
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- PFO
- PSS
- PUB
- 2015 Wetland**
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- PFO
- PSS
- PUB
- 2016 Wetland**
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- PFO
- PSS
- PUB
- 2017 Wetland**
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- PFO
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- PUB

**Appendix F  
Exhibit F 13-11**

**Enbridge**

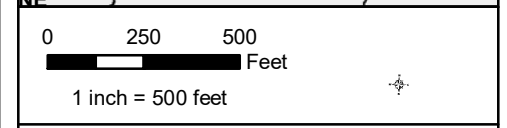
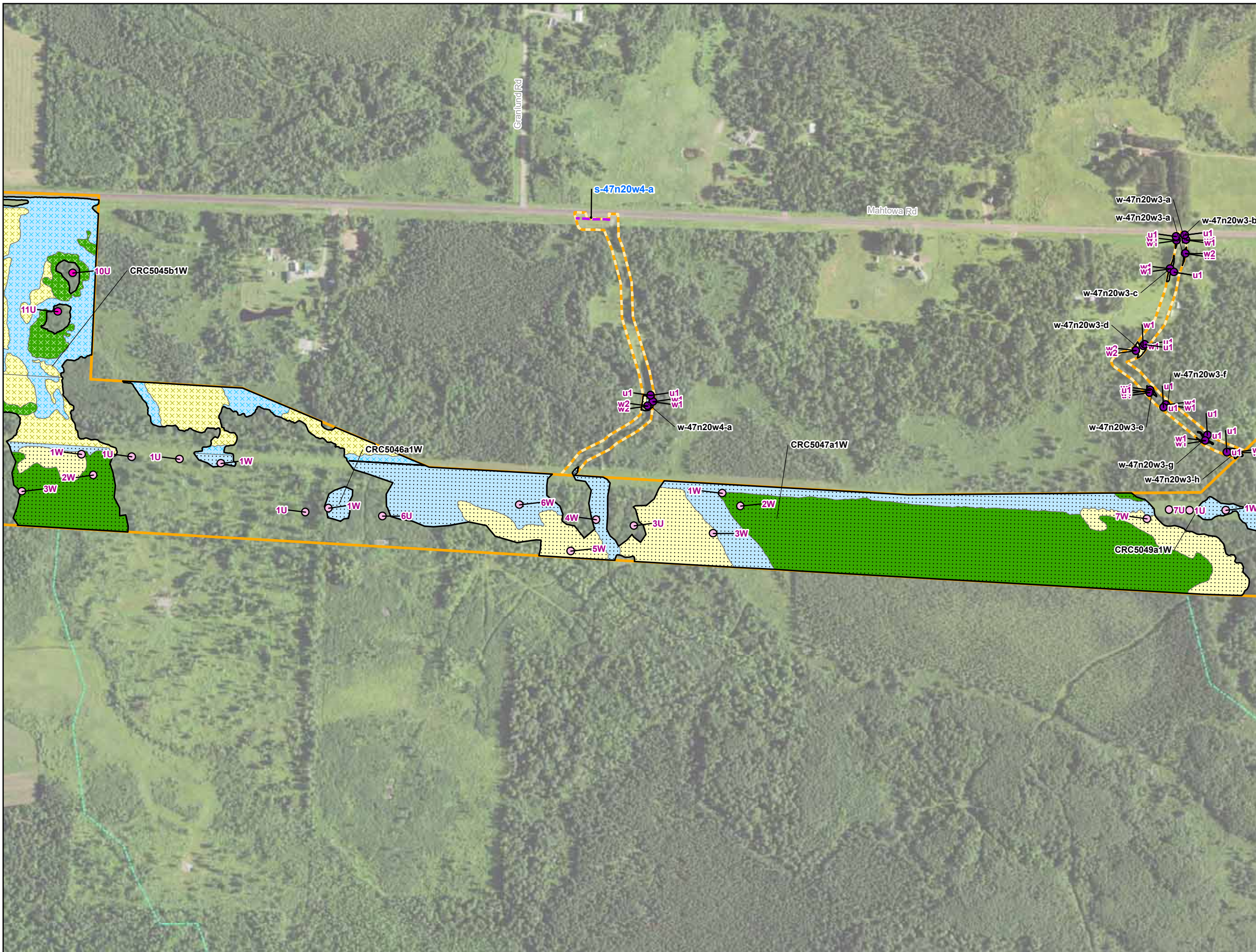
**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180310\Wetland\_Waterbody\_20180310\Wetland\_Waterbody\_20180310.mxd






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- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- ~ Waterbody
- ~ Intermittent Stream
- ~ Perennial Stream
- ~ Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- L1U
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
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- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
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- ~ 2014 Field Delineated Waterbody
- ~ 2015 Field Delineated Waterbody
- ~ 2016 Field Delineated Waterbody
- ~ 2017 Field Delineated Waterbody
- ~ 2018 Field Delineated Waterbody
- 2013 Wetland**
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- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
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- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
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- PFO
- PSS
- PUB
- 2018 Wetland**
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- PSS
- PUB

**Appendix F**  
**Exhibit F 13-12**

**Enbridge**

**Field Collected Wetlands and Waterbodies**

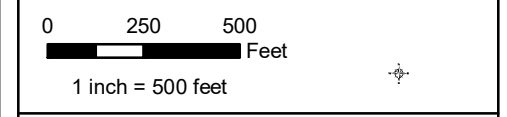
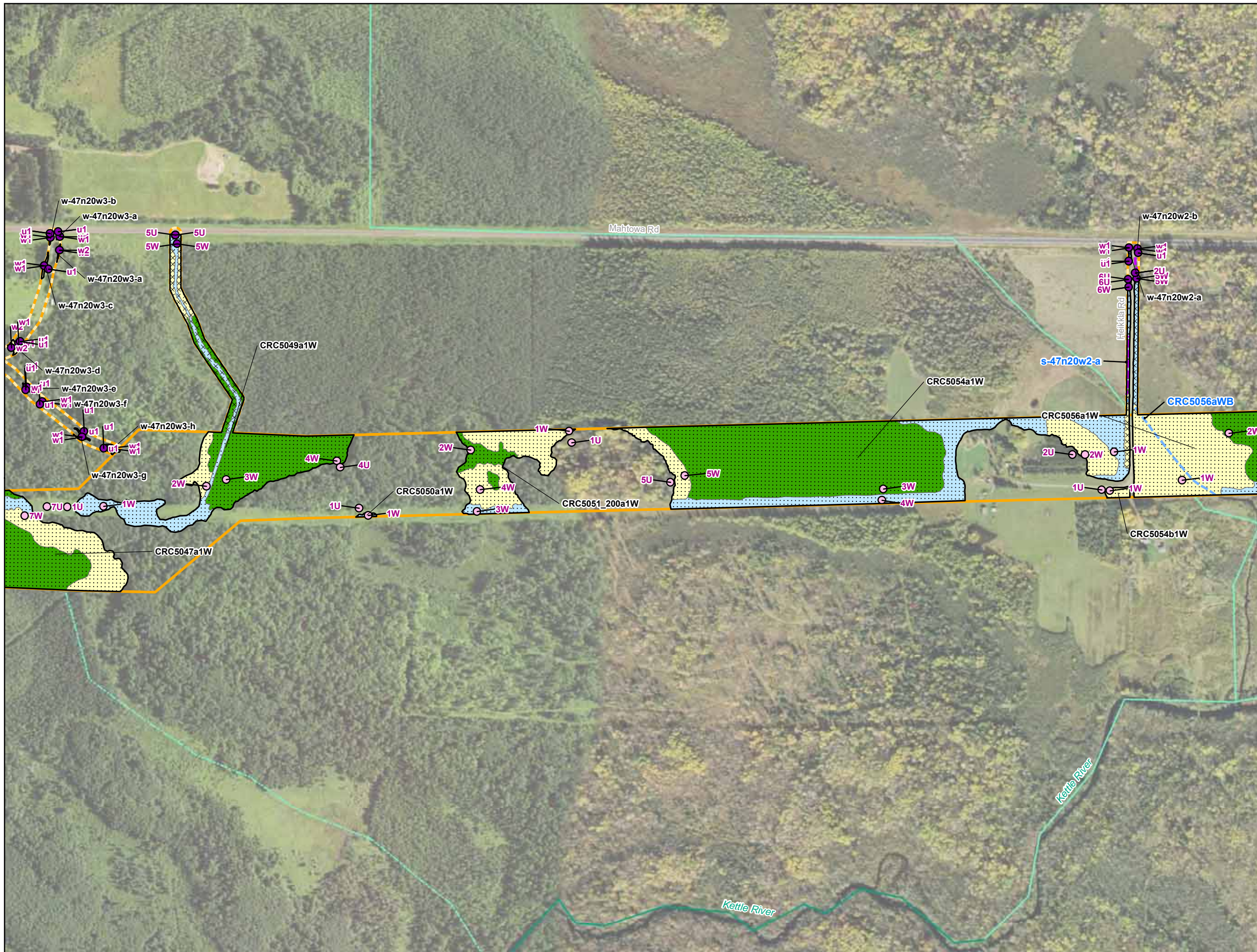
**Carlton County, Minnesota**



For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd






- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- L1U
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
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- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
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- PFO
- PSS
- PUB
- 2017 Wetland**
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- PSS
- PUB
- 2018 Wetland**
- PEM
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- PSS
- PUB

**Appendix F**  
**Exhibit F 13-13**

**Enbridge**

**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**



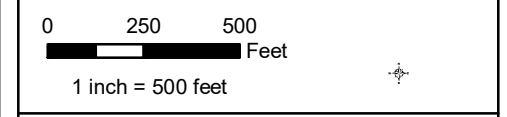
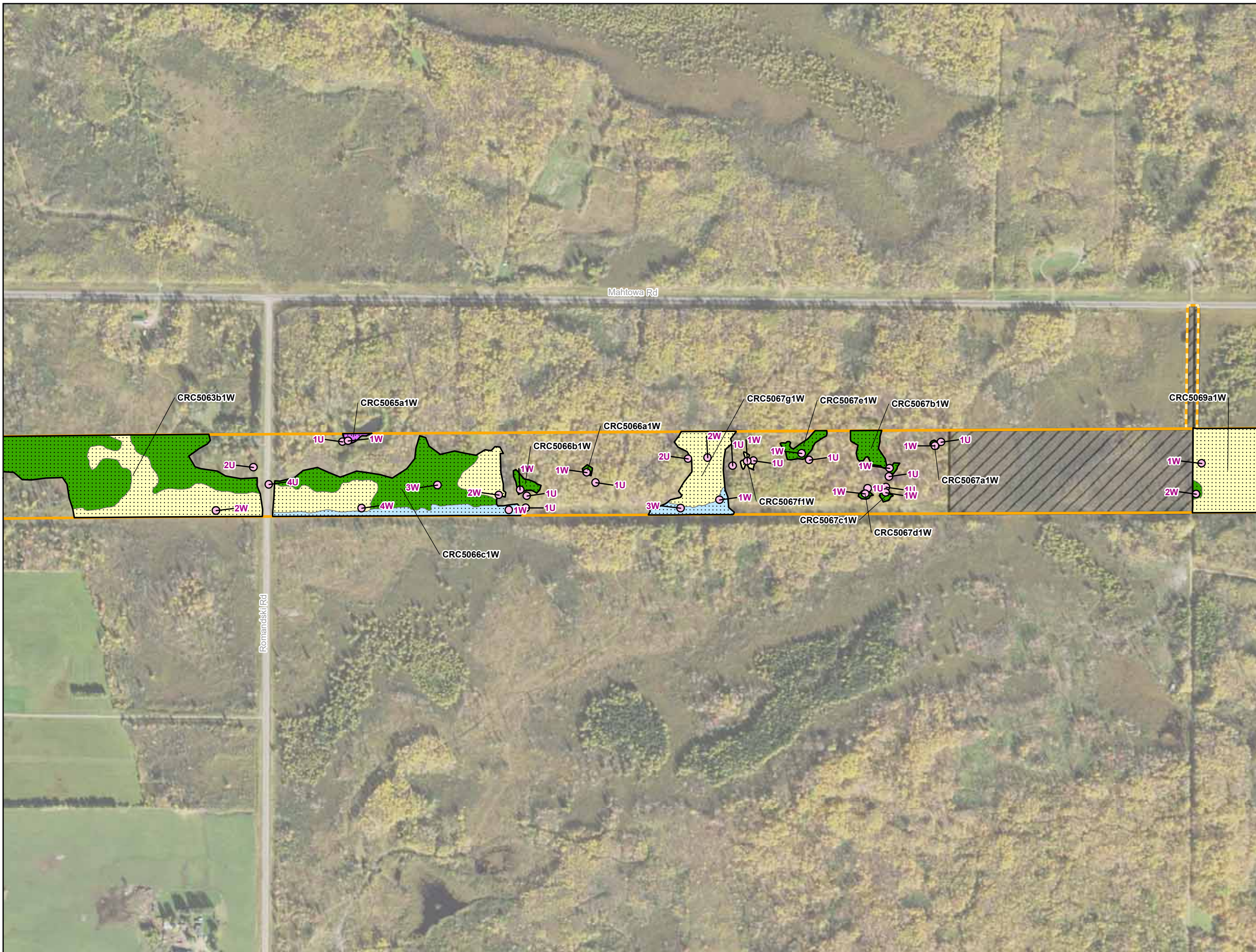
For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631.mxd









- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
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- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
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- PSS
- PUB
- L1UB
- 2014 Wetland**
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- PFO
- PSS
- PUB
- 2015 Wetland**
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- PFO
- PSS
- PUB
- 2016 Wetland**
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- PFO
- PSS
- PUB
- 2017 Wetland**
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- 2018 Wetland**
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- PSS
- PUB

**Appendix F  
Exhibit F 13-15**

**Enbridge**

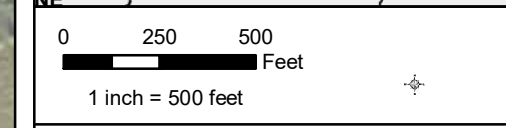
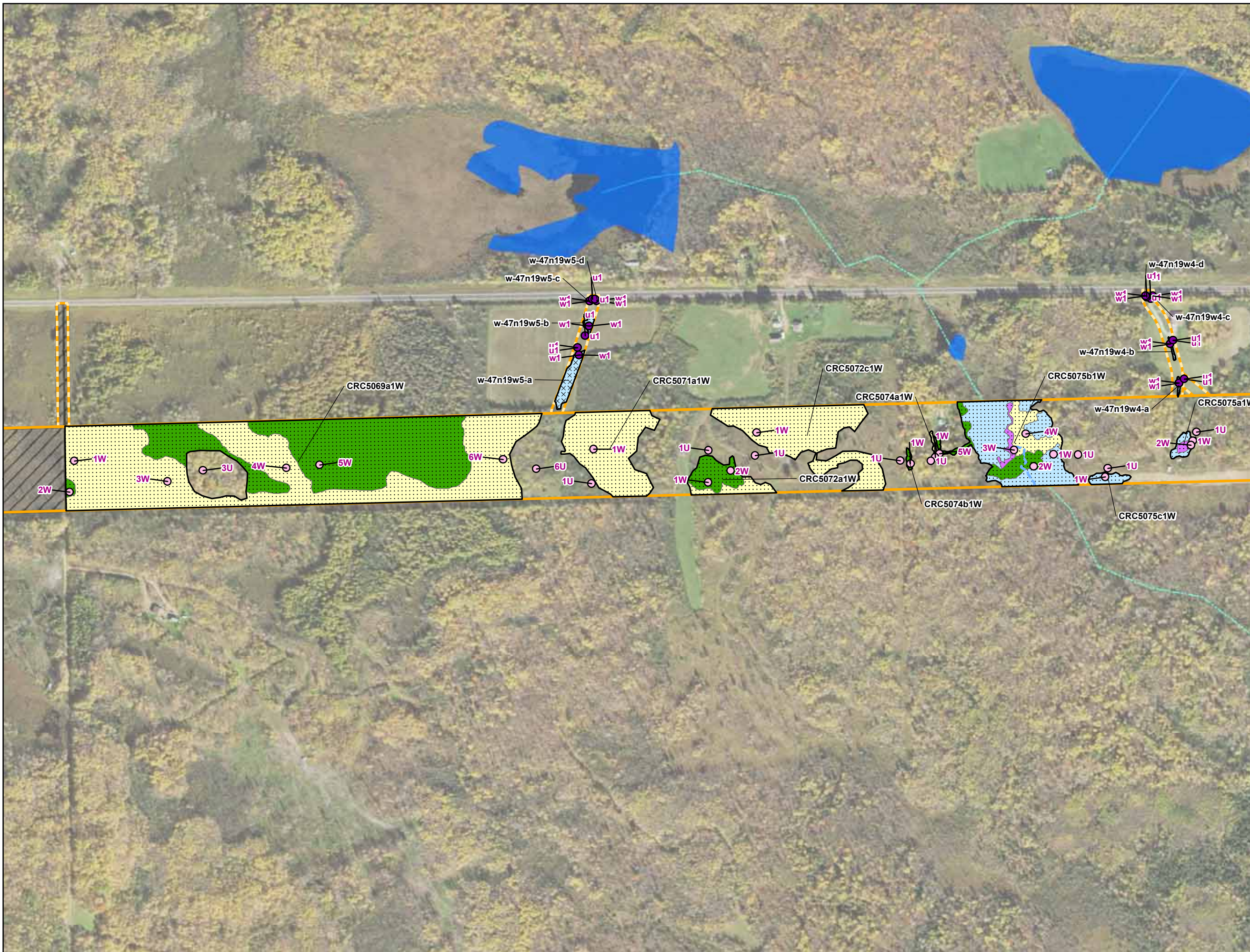
**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Full\_Replacement\Field\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd





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- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-16**

**Enbridge**

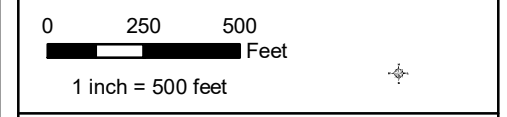
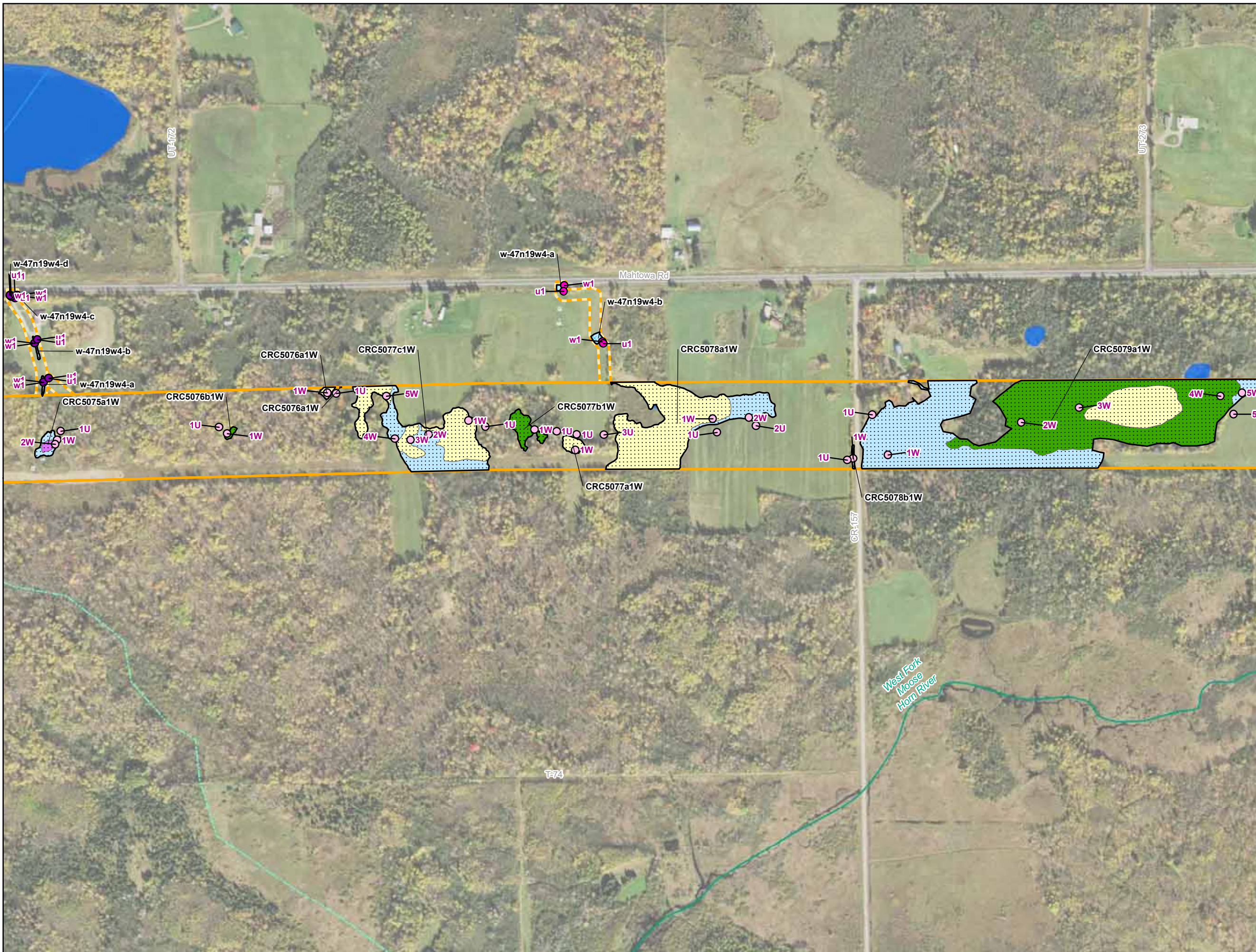
**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd






- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-17**

**Enbridge**

**Field Collected Wetlands and Waterbodies**

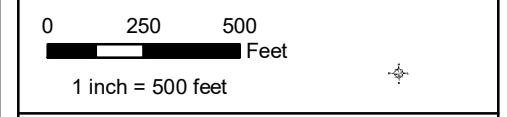
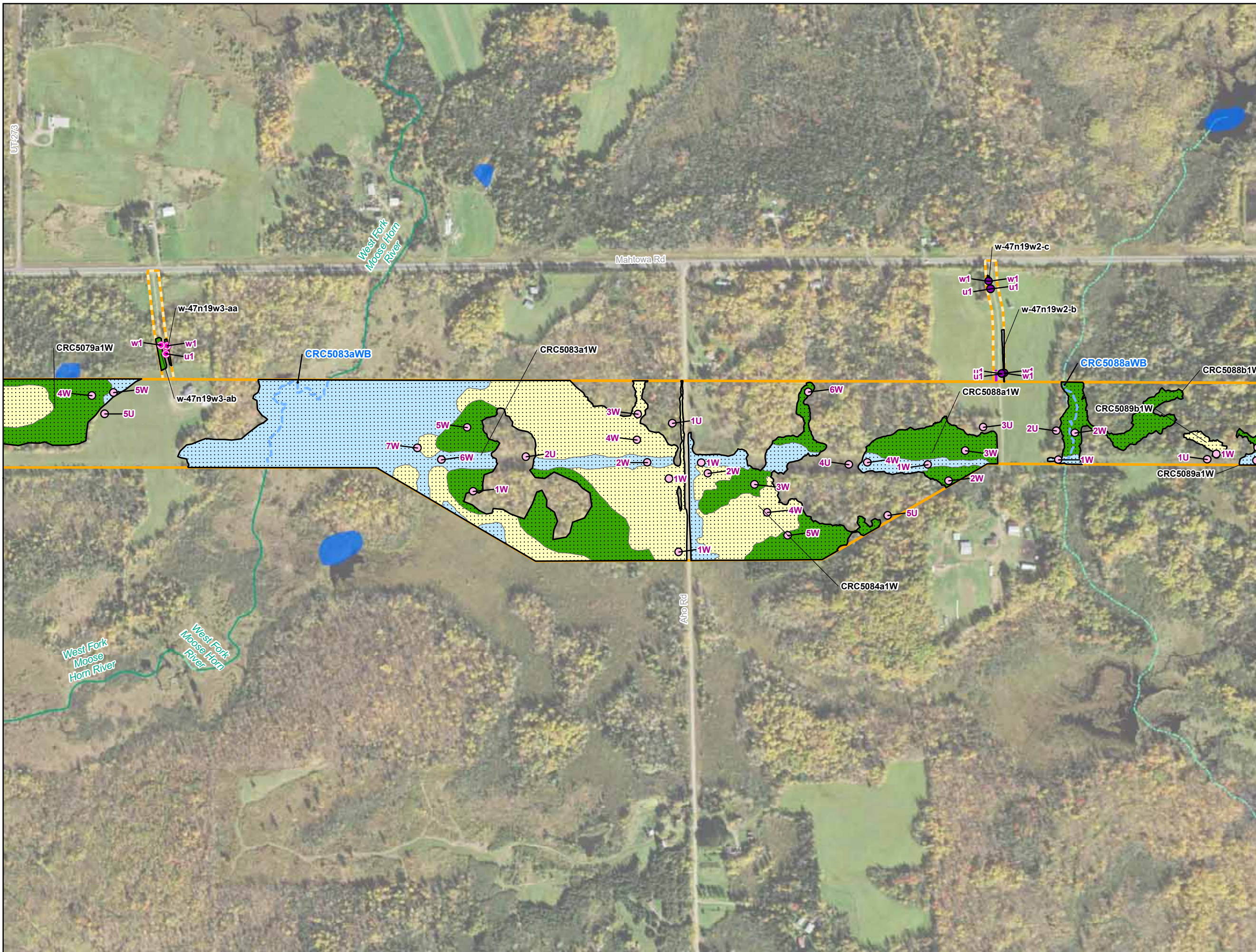
**Carlton County, Minnesota**



For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd






- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- L1U
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-18**

**Enbridge**

**Field Collected Wetlands and Waterbodies**

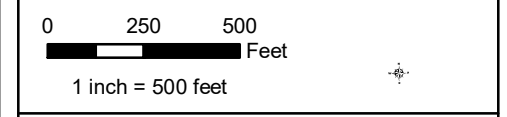
**Carlton County, Minnesota**



For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd






- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- ~ Waterbody
- ~ Intermittent Stream
- ~ Perennial Stream
- ~ Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- L1U
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- △ 2018 Sample Point
- ~ 2013 Field Delineated Waterbody
- ~ 2014 Field Delineated Waterbody
- ~ 2015 Field Delineated Waterbody
- ~ 2016 Field Delineated Waterbody
- ~ 2017 Field Delineated Waterbody
- ~ 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-19**

**Enbridge**

**Field Collected Wetlands and Waterbodies**

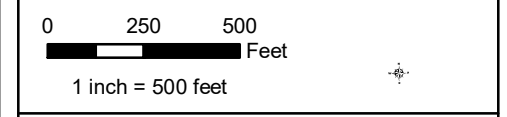
**Carlton County, Minnesota**



For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_AppendixF\_Wetland\_Waterbody.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-20**

**Enbridge**

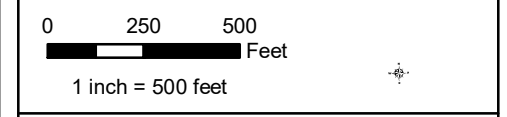
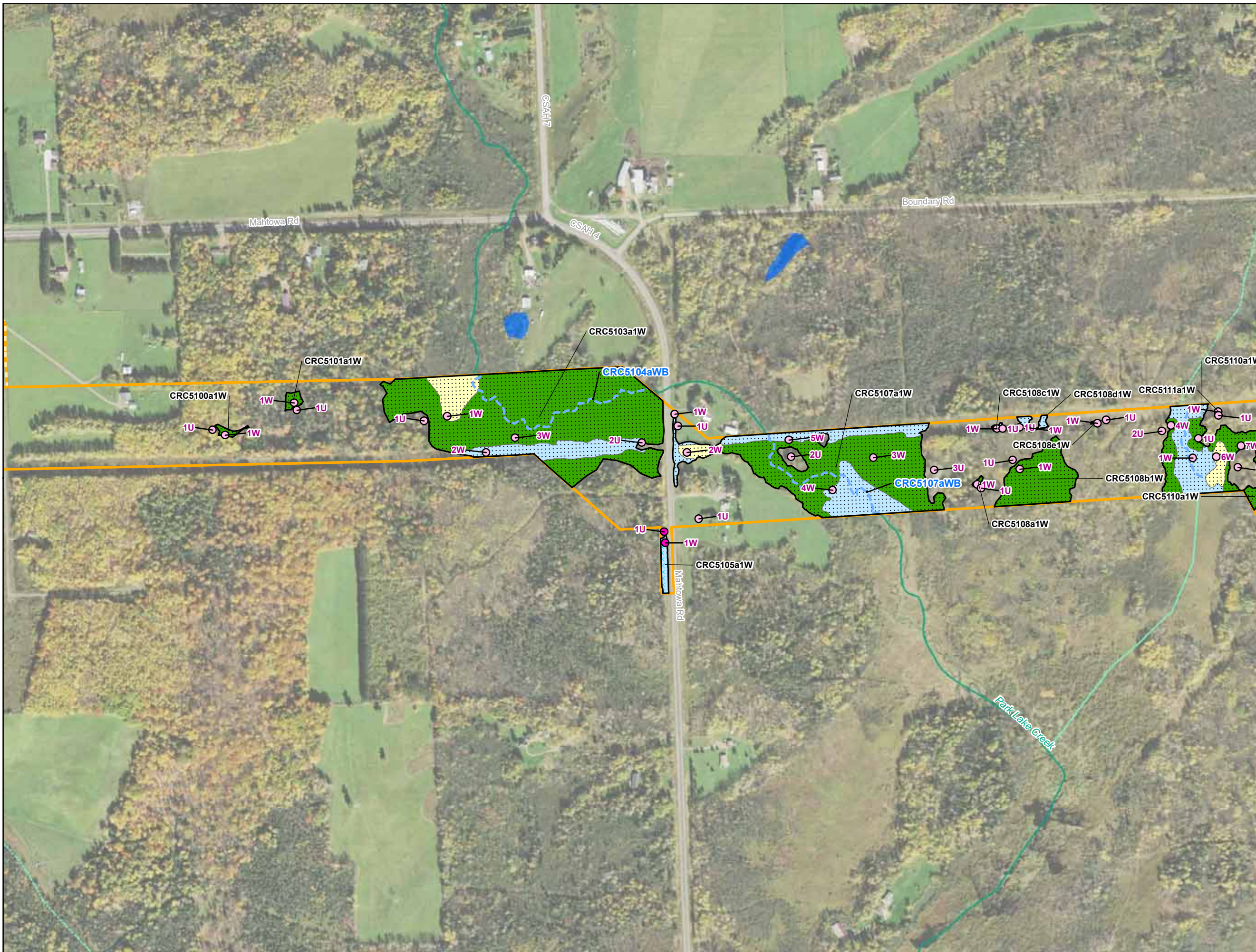
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180310\MT13CR\_Wetland\_WB\_AppendixF\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-21**

**Enbridge**

**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

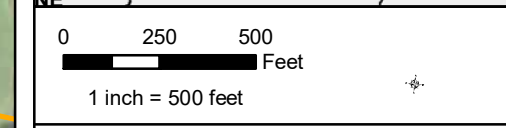
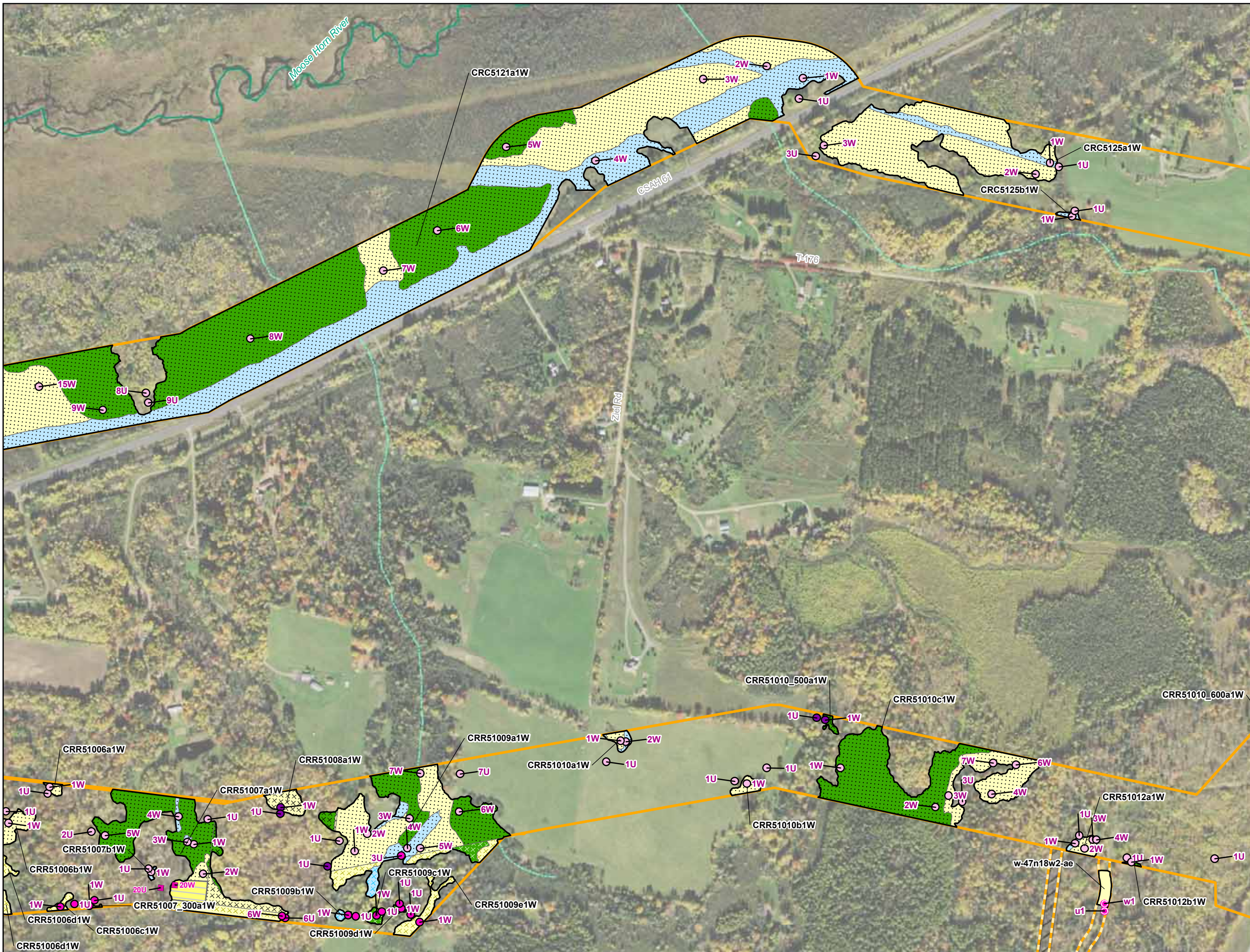
For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_FHE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_AppendixF\_Wetland\_Waterbody.mxd









- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-23**

**Enbridge**

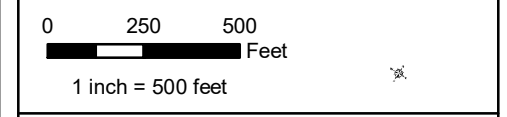
**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Source: Z:\Client\IE\_F\H\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd






- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- L1U
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-24**

**Enbridge**

**Field Collected Wetlands and Waterbodies**

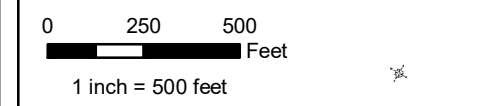
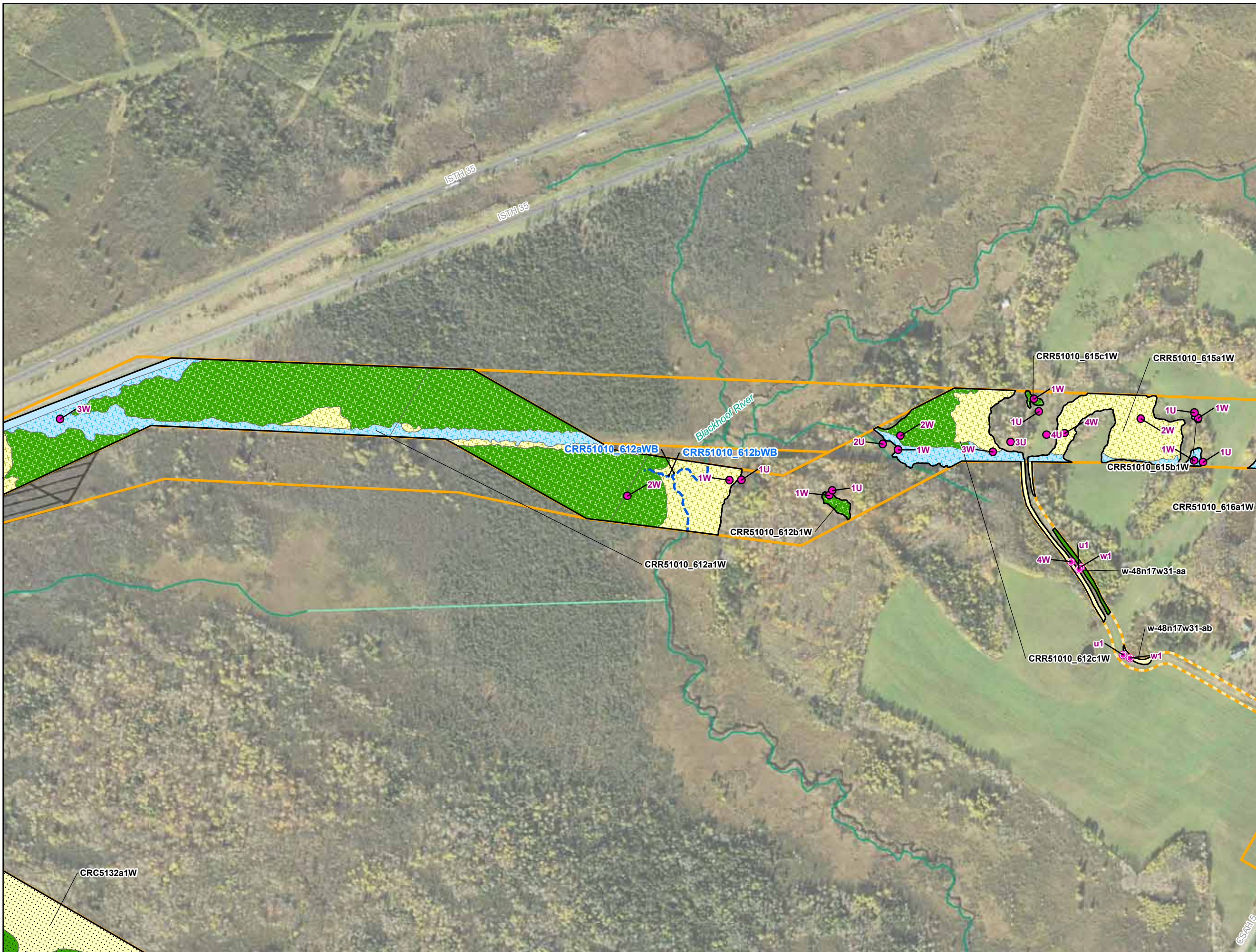
**Carlton County, Minnesota**



For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-25**

**Enbridge**

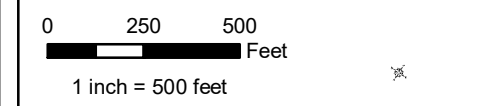
**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Date: (9/20/2018) Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_AppendixF\_Wetland\_Waterbody.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-26**

**Enbridge**

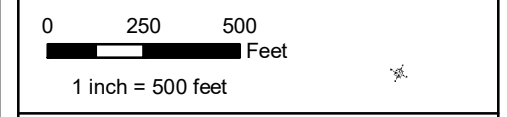
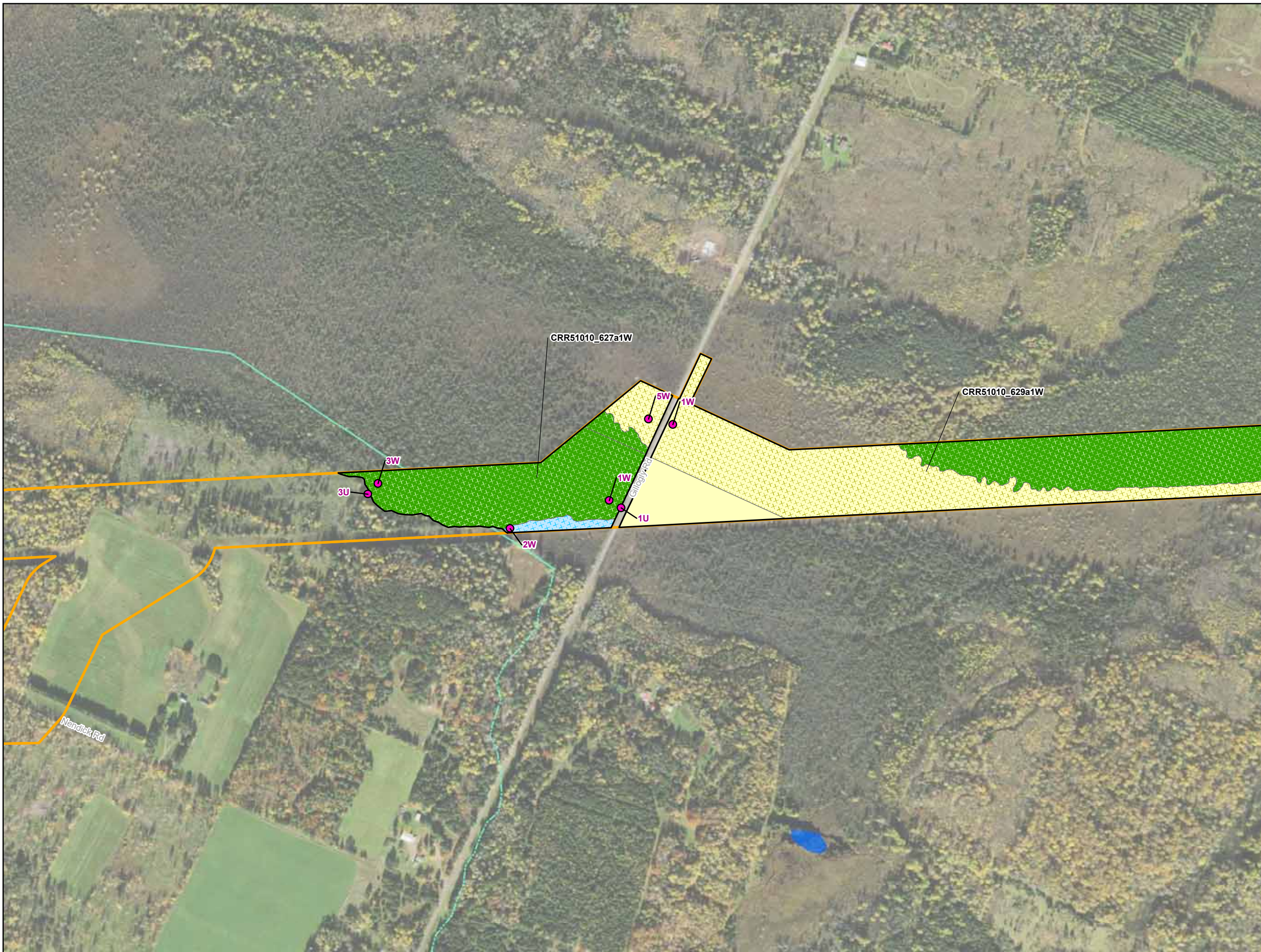
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-27**

**Enbridge**

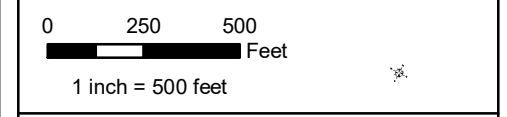
**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Min.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
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- PFO
- PSS
- PUB
- 2018 Wetland**
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- PFO
- PSS
- PUB

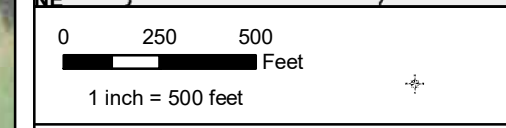
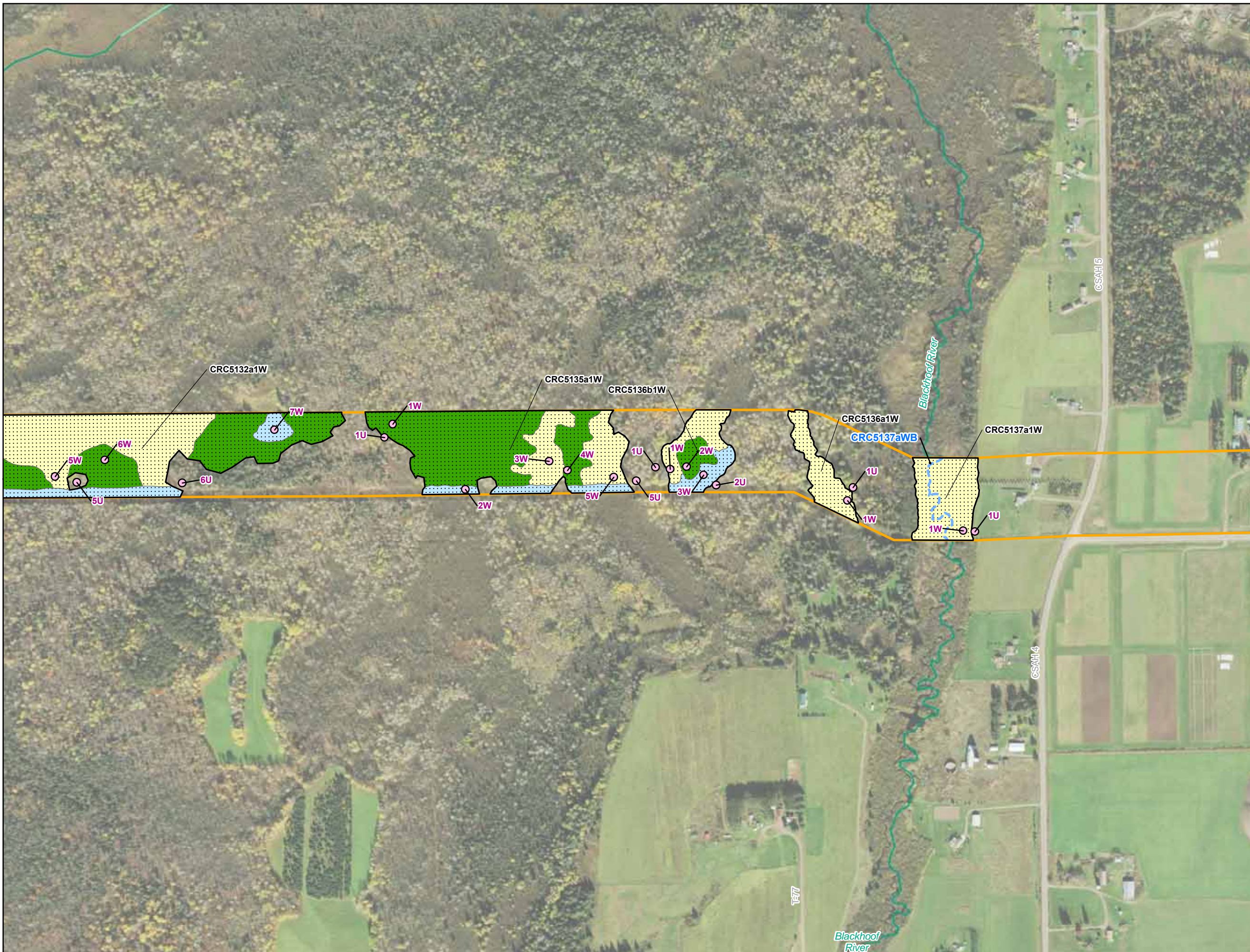
**Appendix F  
Exhibit F 13-28**

**Enbridge**  
**Field Collected Wetlands and  
Waterbodies**  
**Carlton County, Minnesota**



Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-29**

**Enbridge**

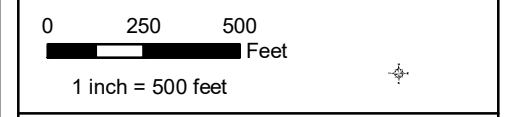
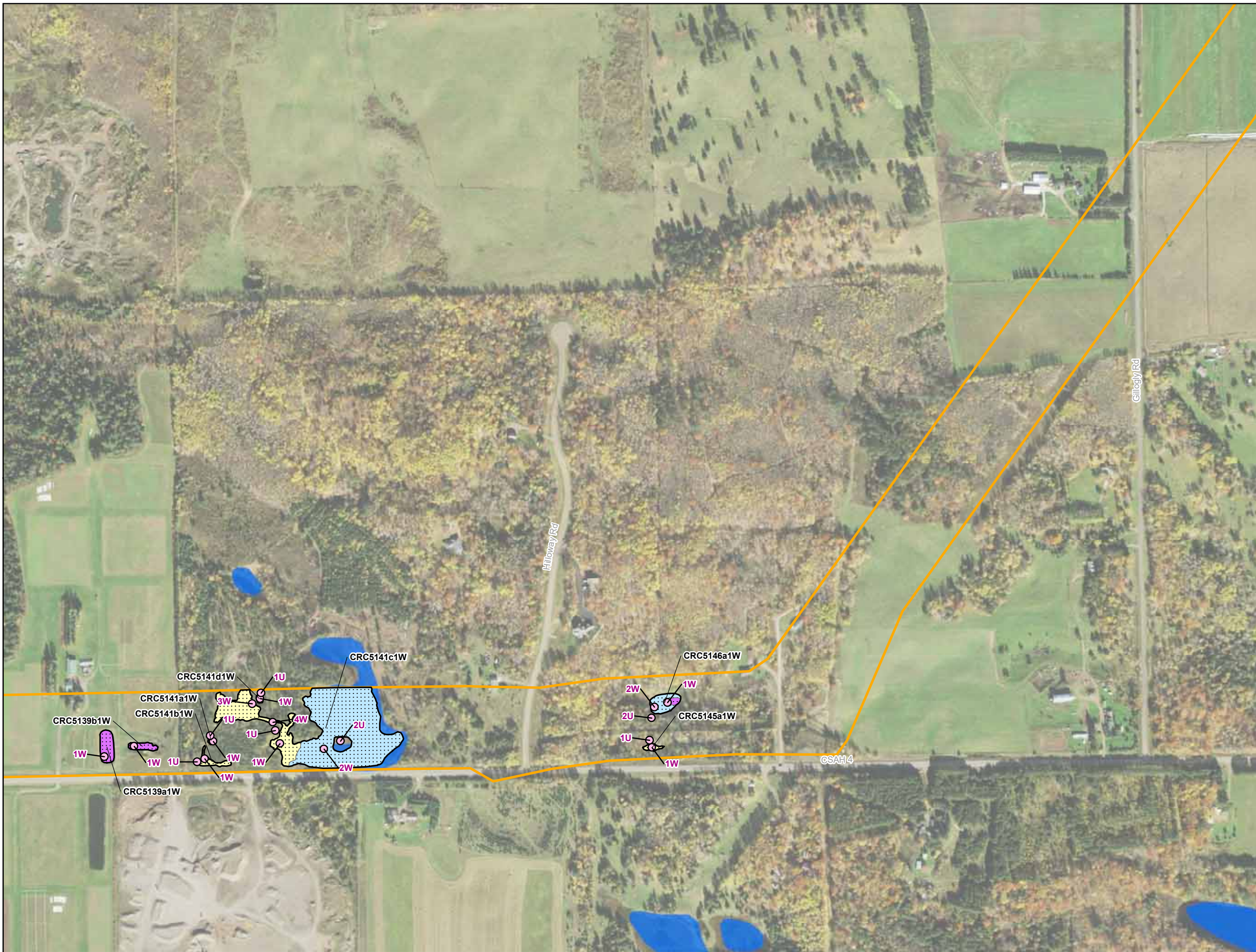
**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-30**

**Enbridge**

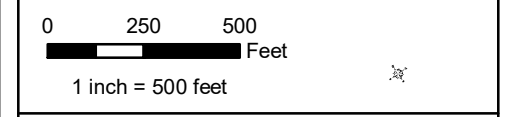
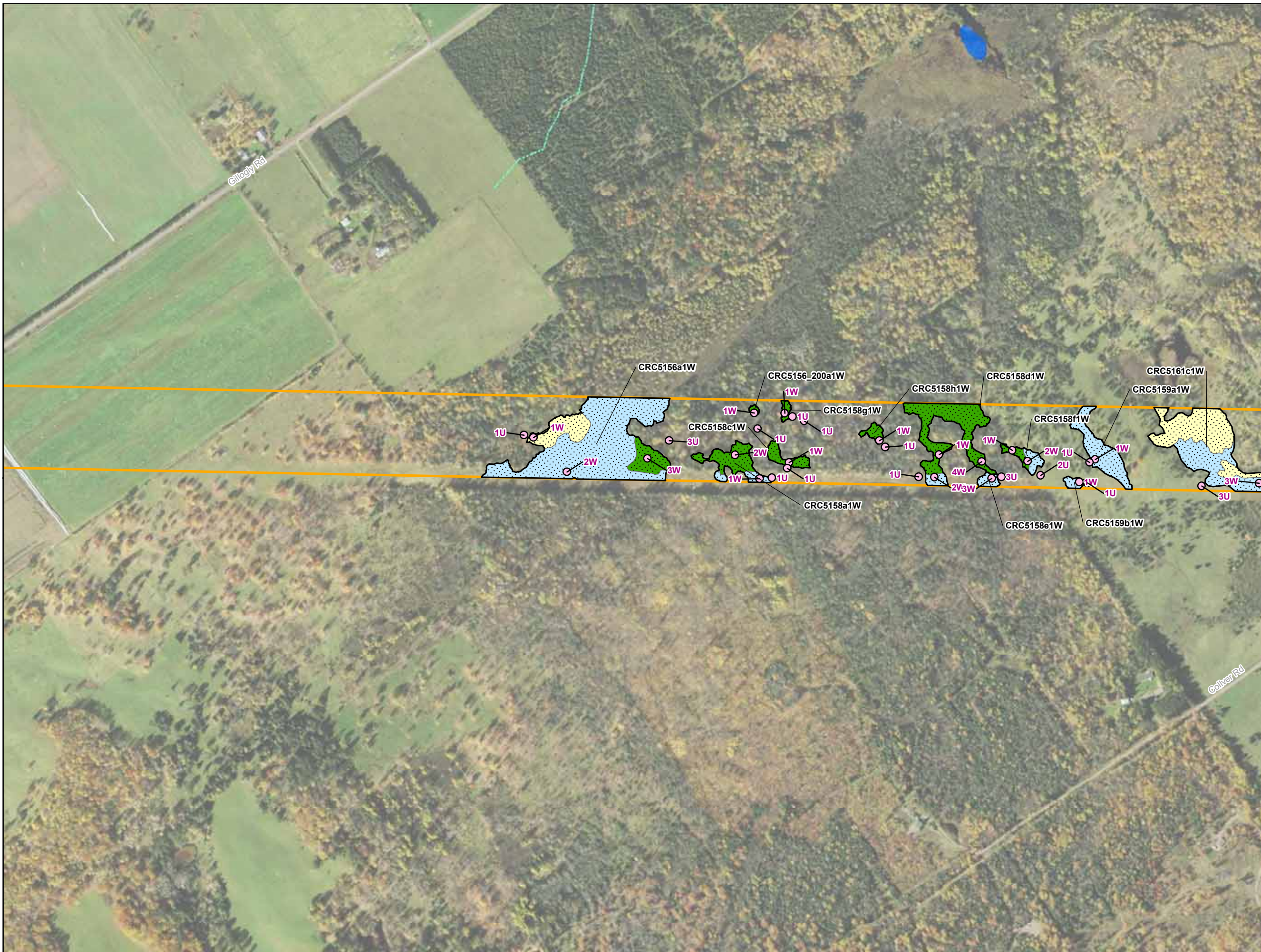
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-31**

**Enbridge**

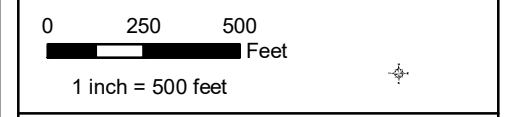
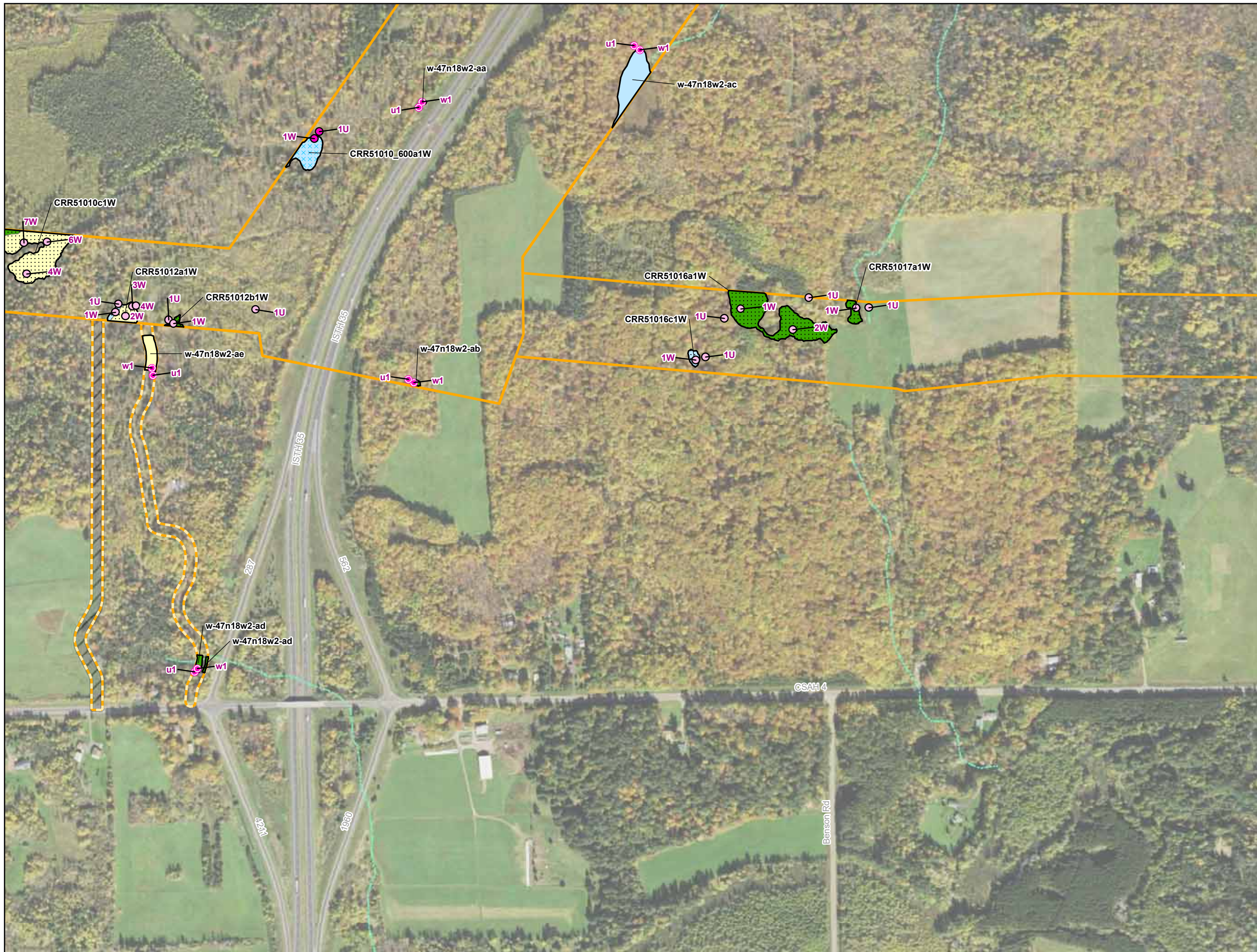
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180310\MT\CR\_Wetland\_WB\_AppendixF\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

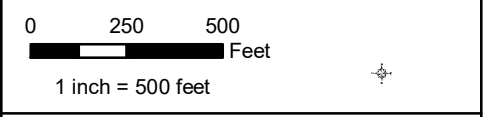
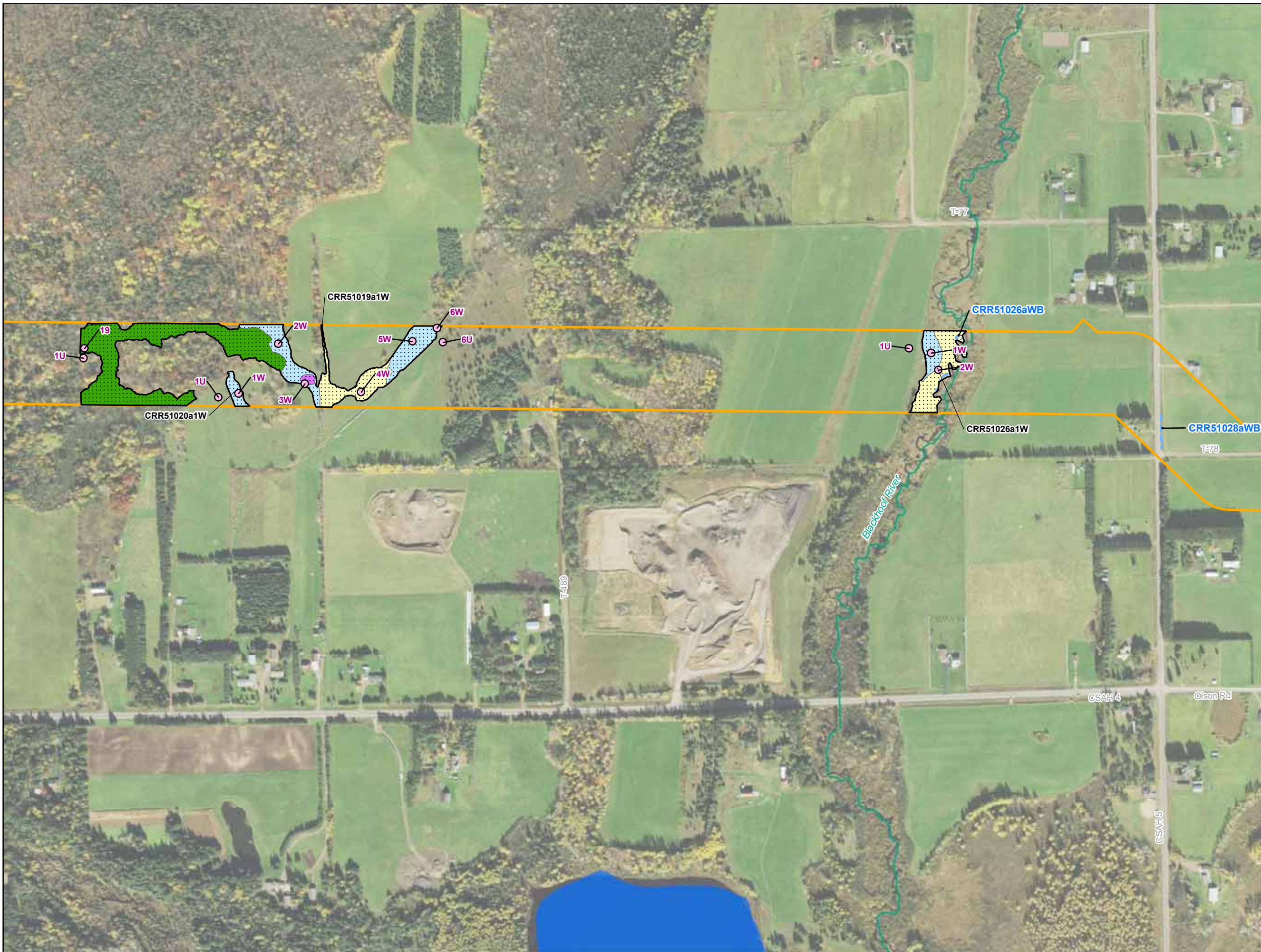
**Appendix F  
Exhibit F 13-32**

**Enbridge**  
**Field Collected Wetlands and  
Waterbodies**  
**Carlton County, Minnesota**



Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_Replacement\Field\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-33**

**Enbridge**

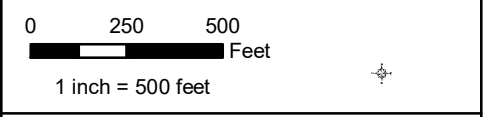
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_FHE\bridgeLine\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180831\MT\CSA\Wetland\_WB\_AppendixF\_MN.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

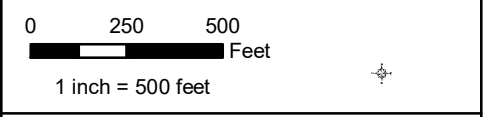
**Appendix F  
Exhibit F 13-34**

**Enbridge**  
**Field Collected Wetlands and  
Waterbodies**  
**Carlton County, Minnesota**



Source: Z:\Clients\IE\_FHE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Min.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

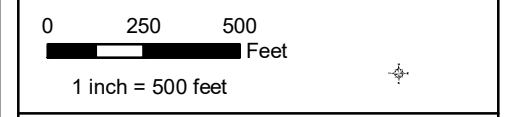
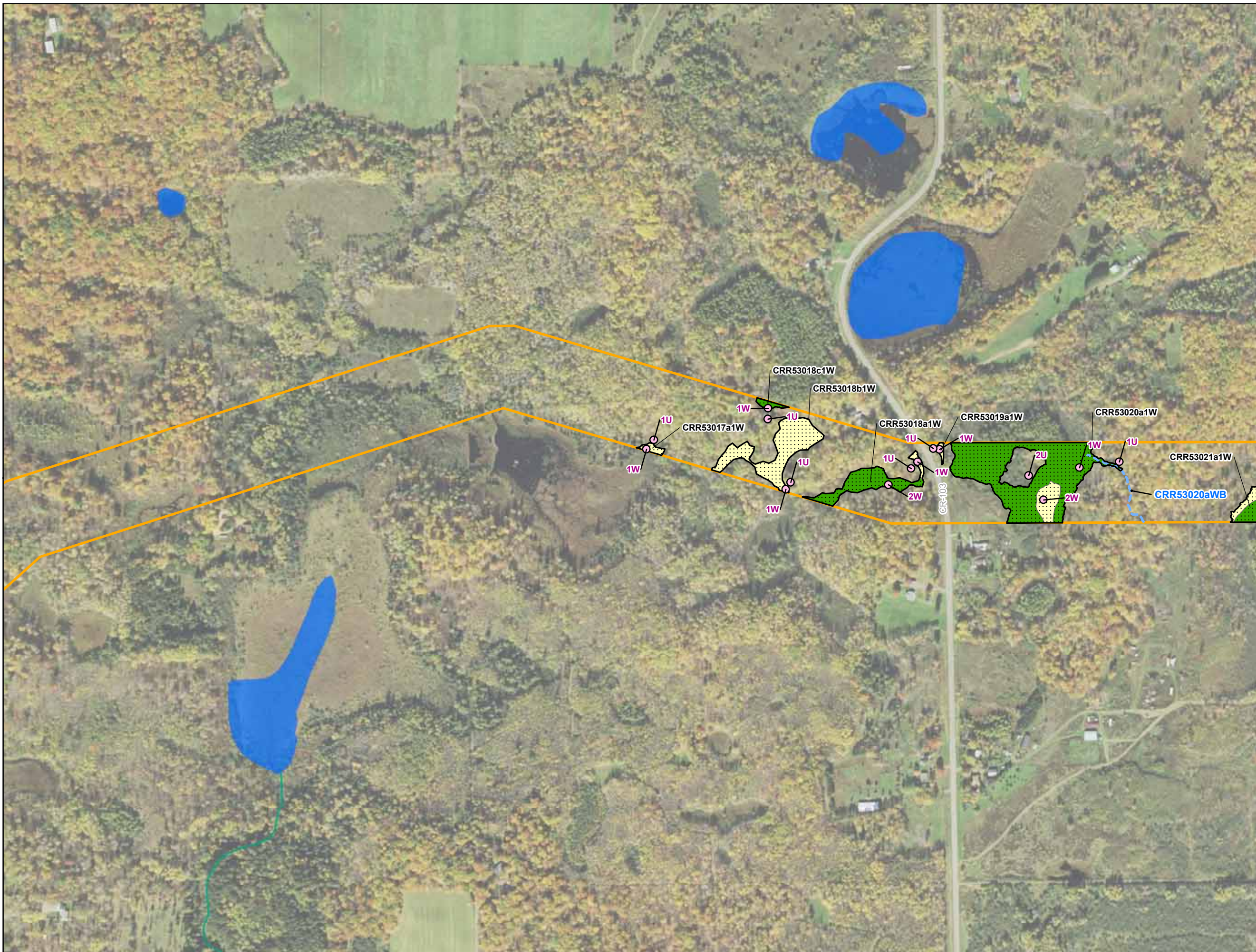
**Appendix F  
Exhibit F 13-35**

**Enbridge**  
**Field Collected Wetlands and Waterbodies**  
**Carlton County, Minnesota**



Date: (9/20/2018) Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-36**

**Enbridge**

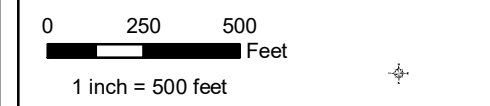
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_20180831.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
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- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
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- PFO
- PSS
- PUB
- 2018 Wetland**
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- PFO
- PSS
- PUB

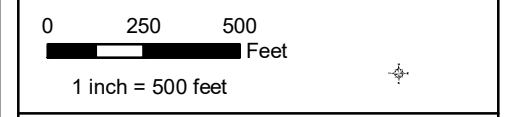
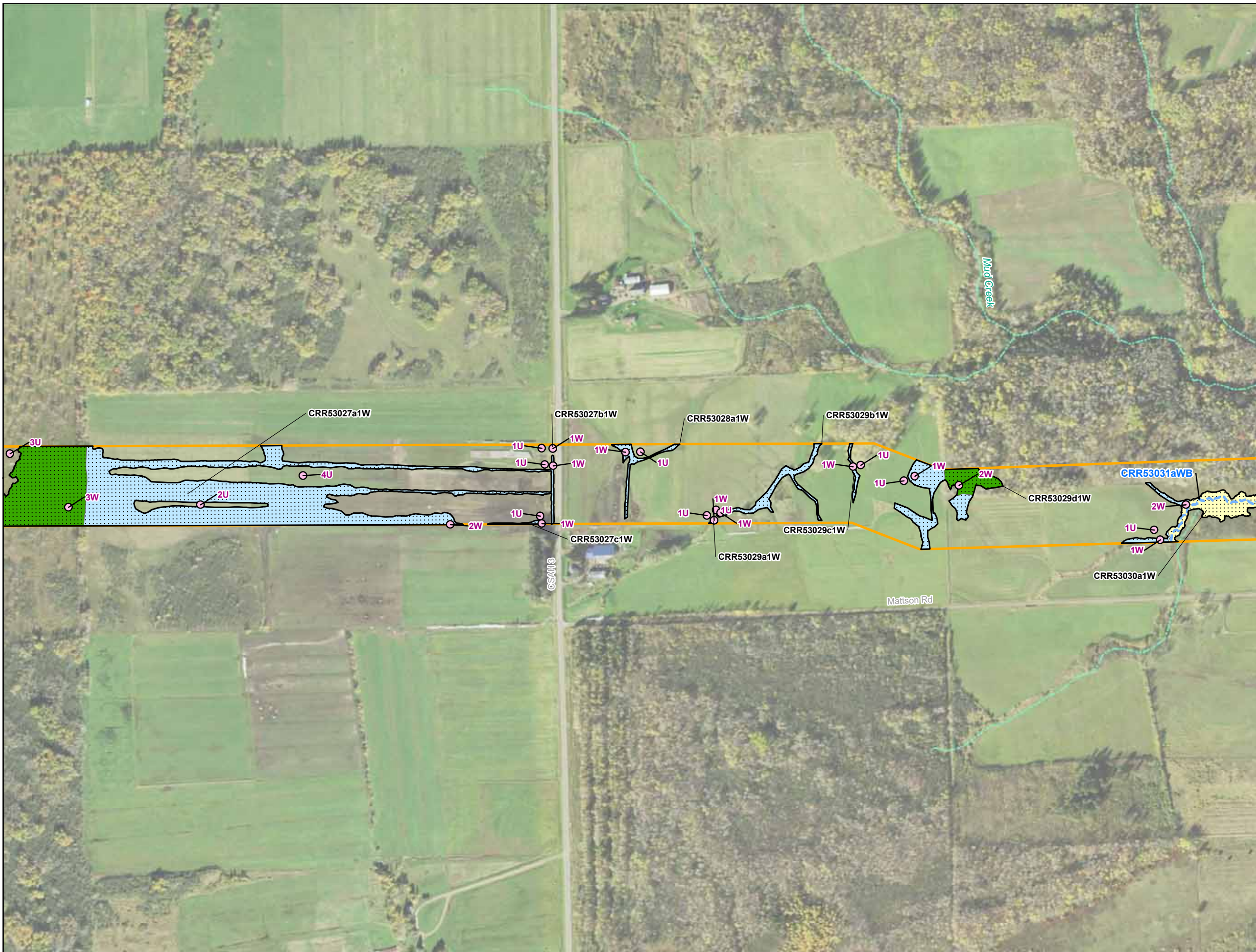
**Appendix F  
Exhibit F 13-37**

**Enbridge**  
**Field Collected Wetlands and  
Waterbodies**  
**Carlton County, Minnesota**



Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-38**

**Enbridge**

**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

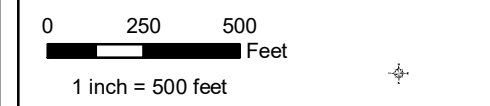
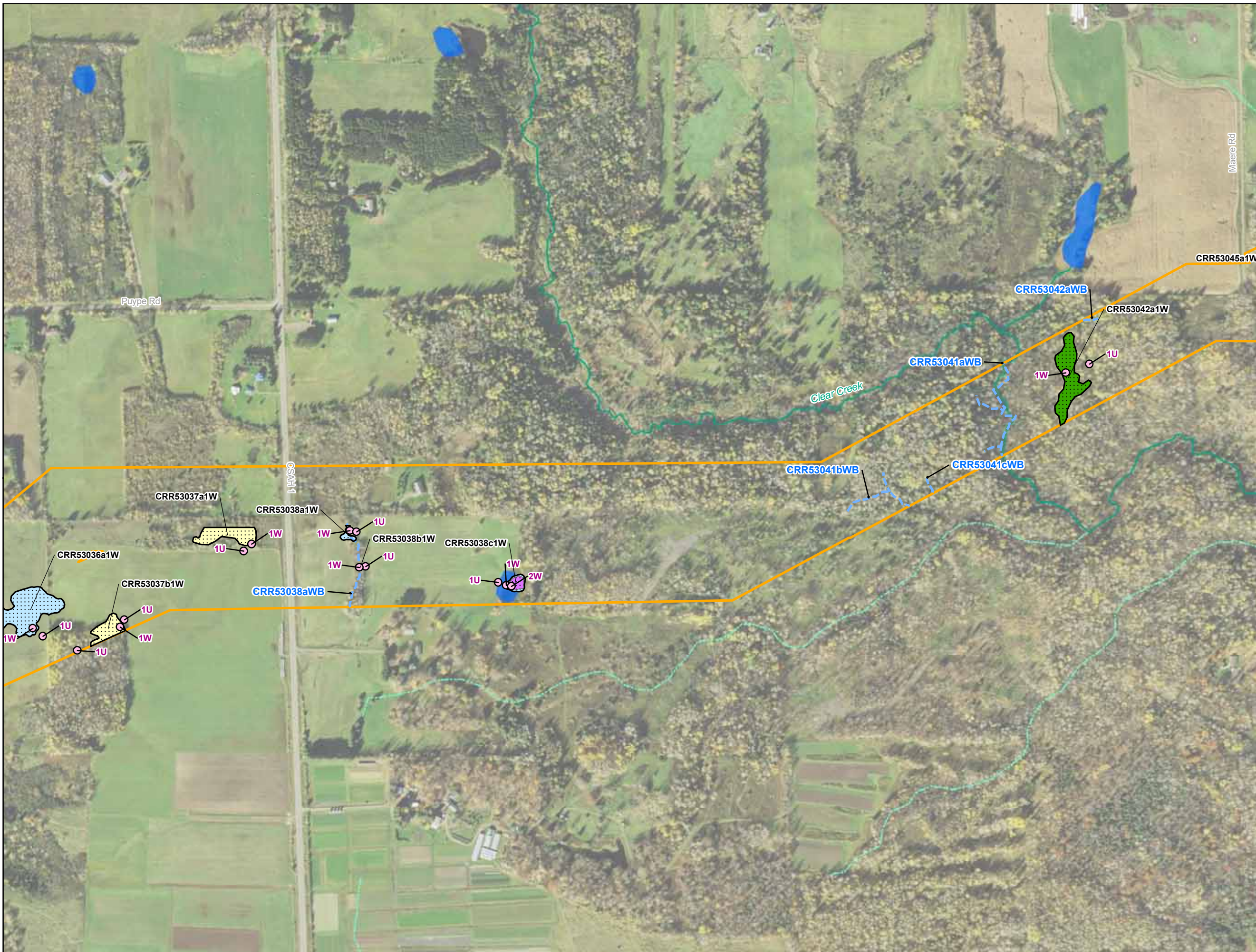
For Environmental Review Purposes Only September 2018

Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\MT\LSR\_Wetland\_WB\_AppendixF\_MN.mxd









- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-40**

**Enbridge**

**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631.mxd

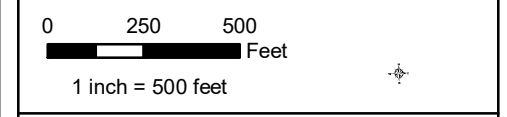
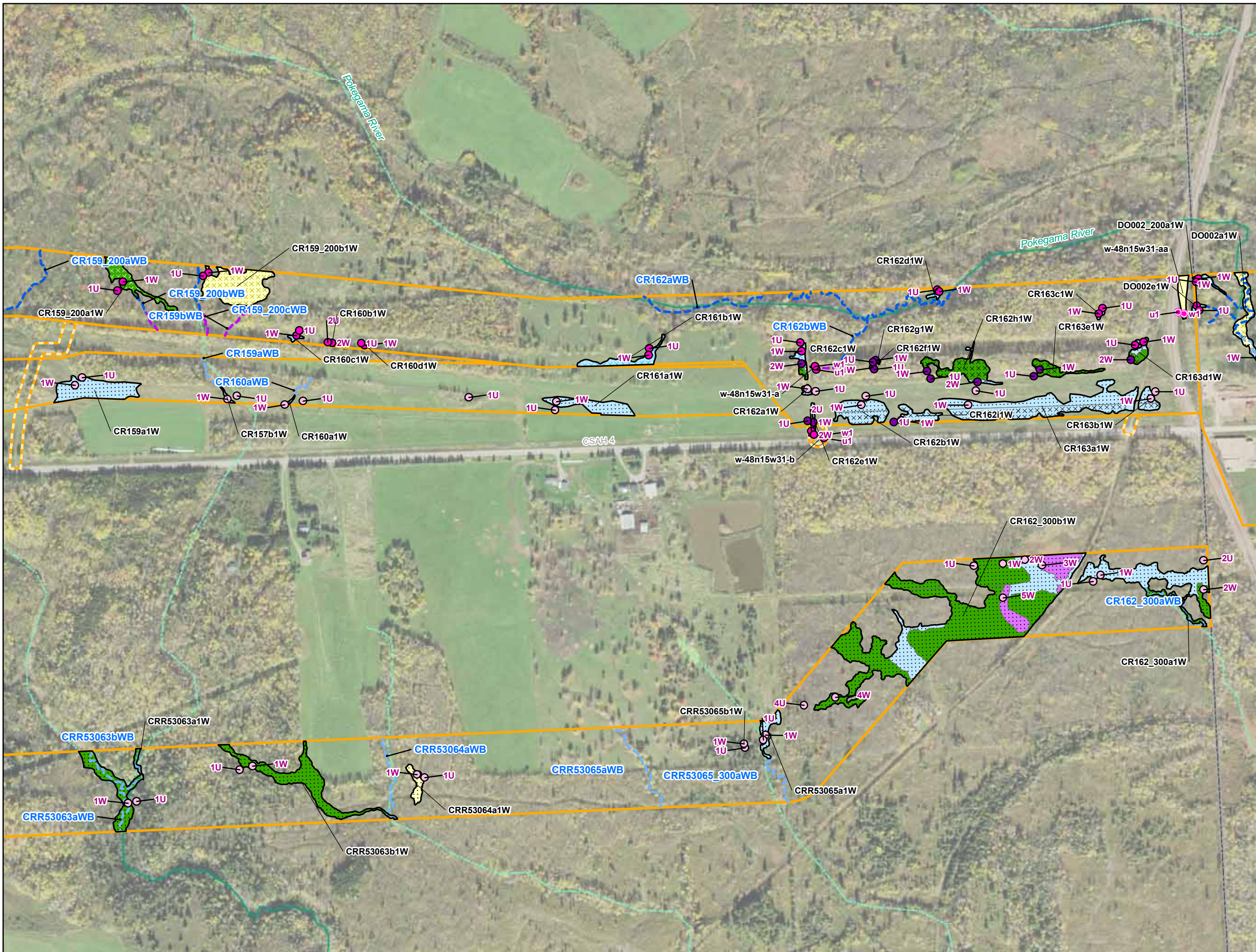












- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-43**

**Enbridge**

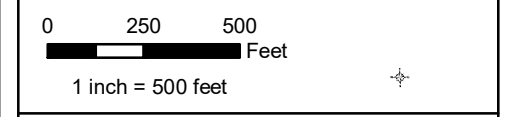
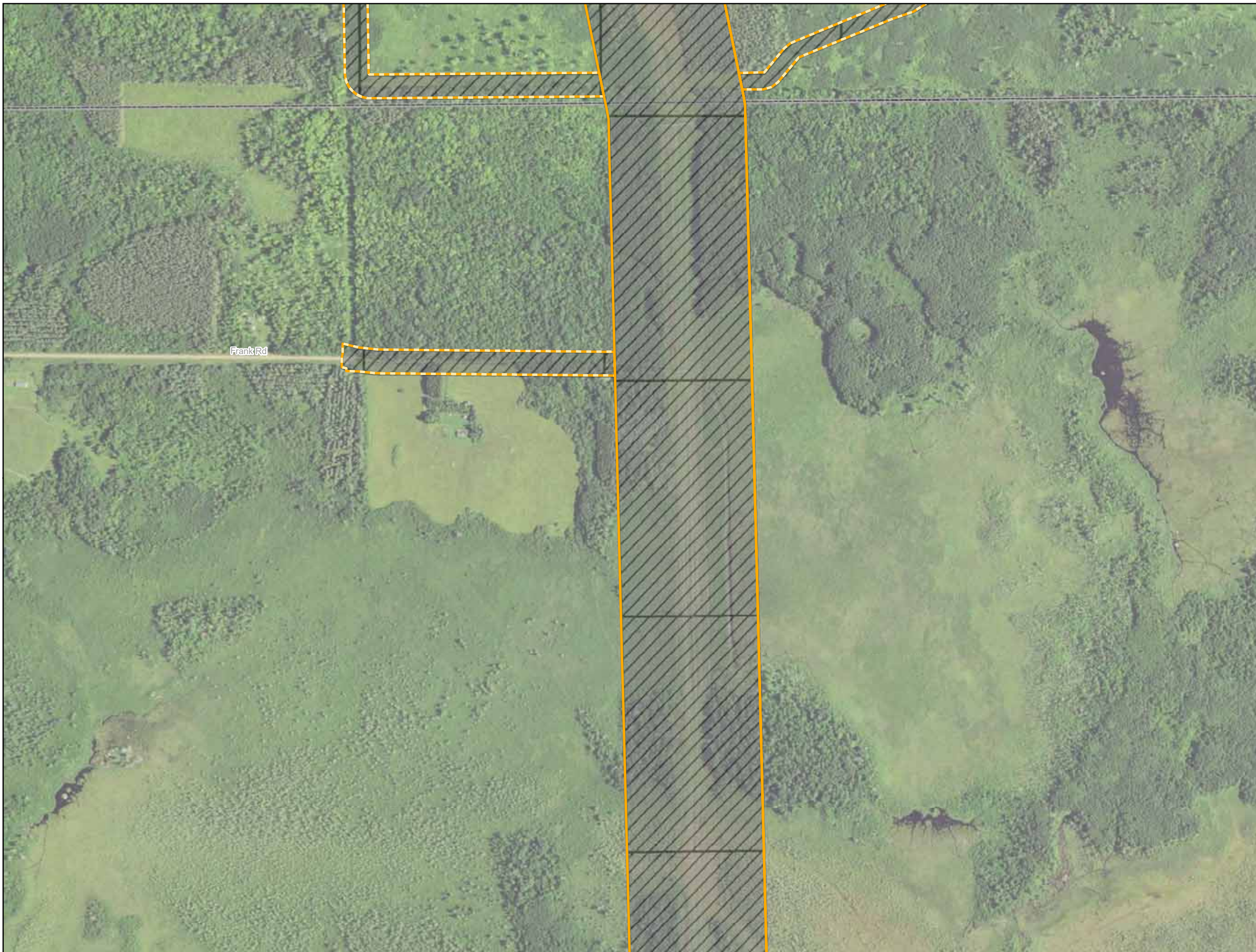
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_Replacement\Field\_Data\Wetland\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_Appendix\_F.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-44**

**Enbridge**

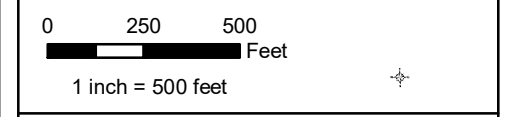
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Min.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-45**

**Enbridge**

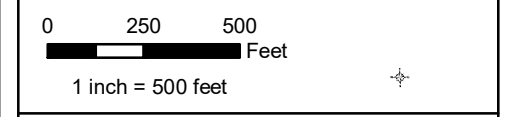
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Min.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-46**

**Enbridge**

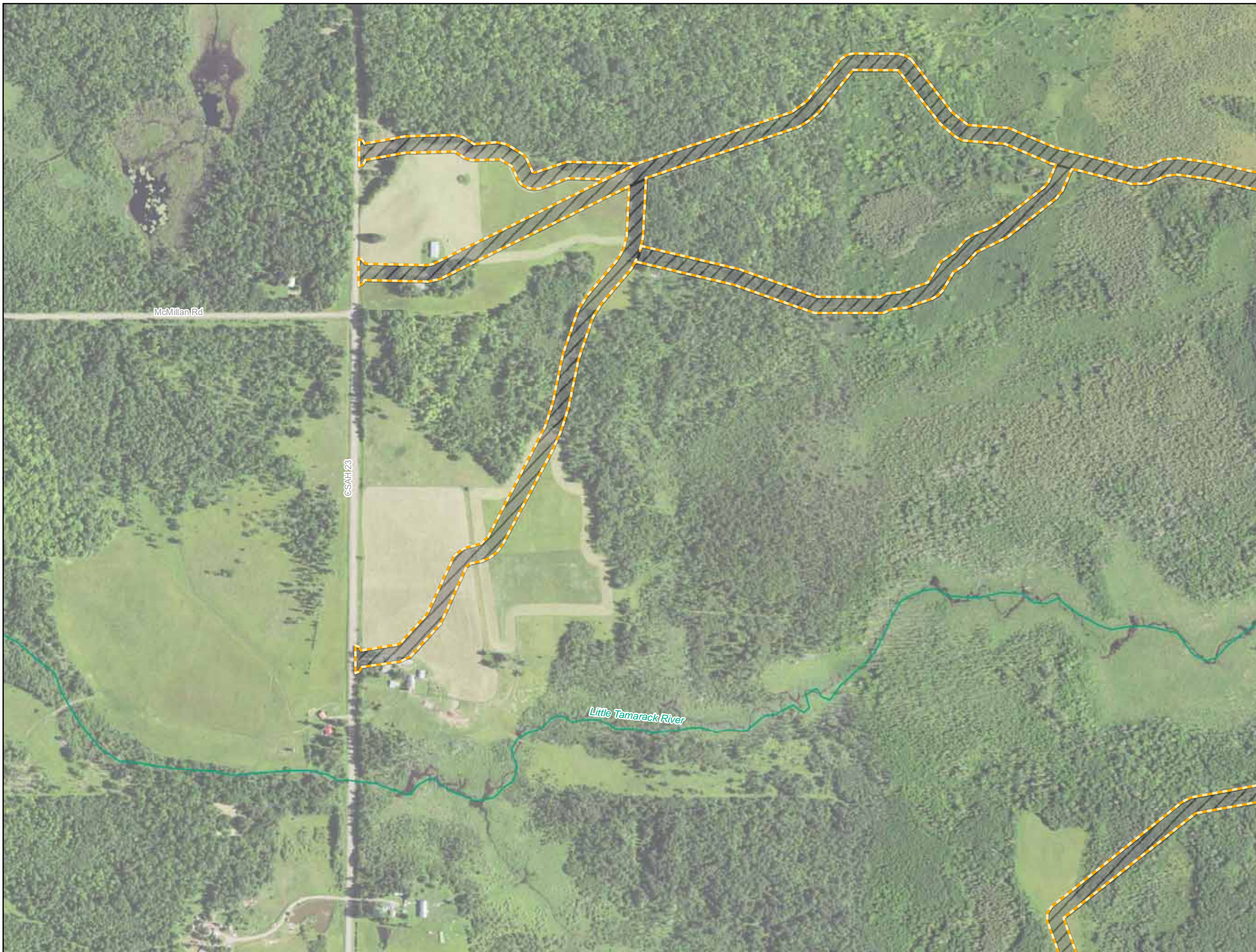
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\MT\LSR\_Wetland\_WB\_AppendixF\_MN.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-47**

**Enbridge**

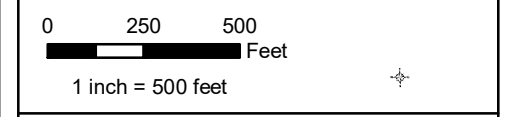
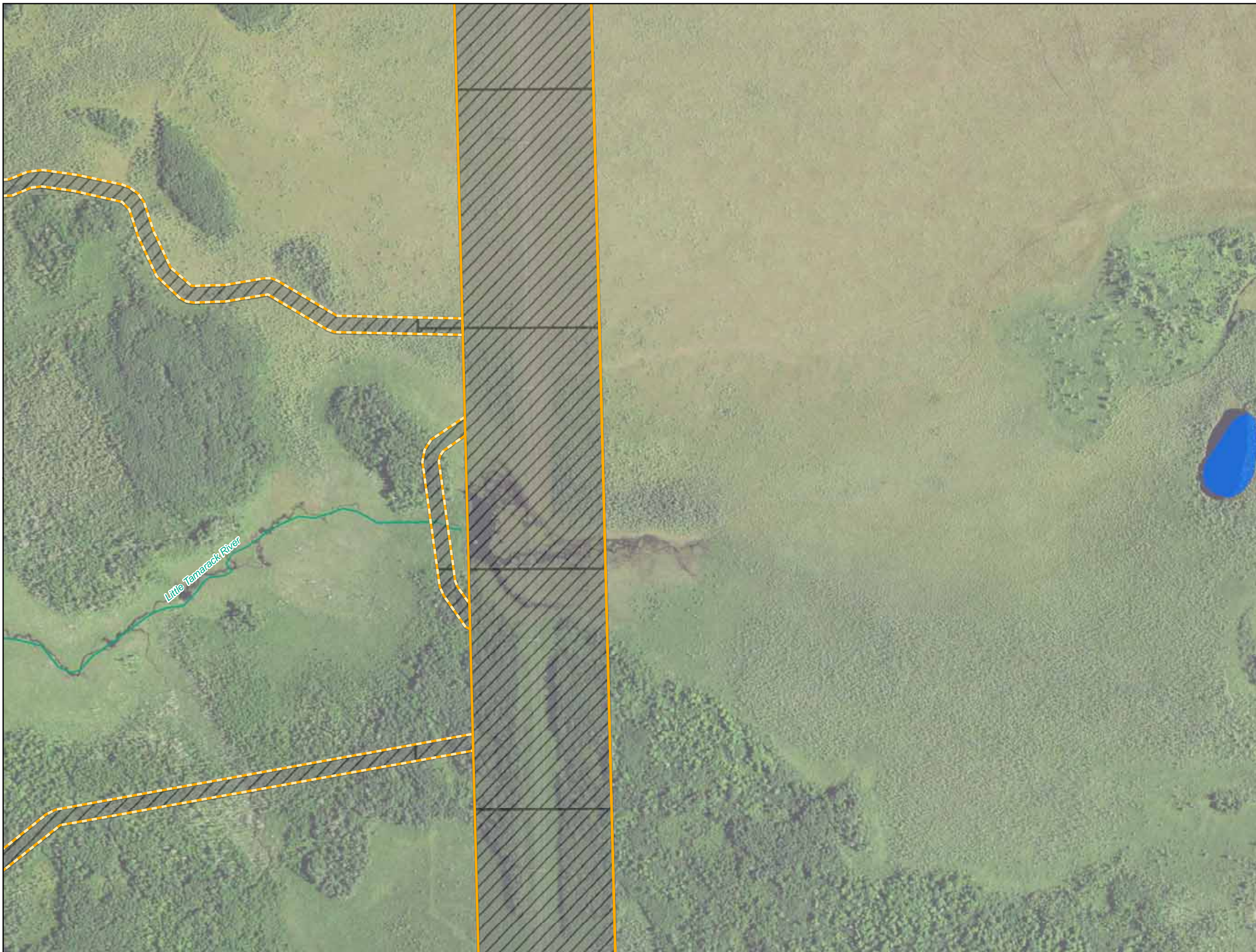
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_2018060310M\T\CSR\_Wetland\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-48**

**Enbridge**

**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_2018060310M1\LSR\_Wetland\_WB\_AppendixF\_Min.mxd Date: (9/20/2018)





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-49**

**Enbridge**

**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



CSAH 23

Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
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- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-50**

**Enbridge**

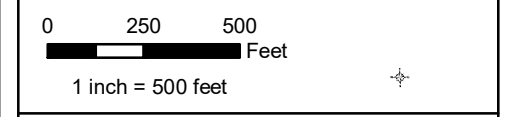
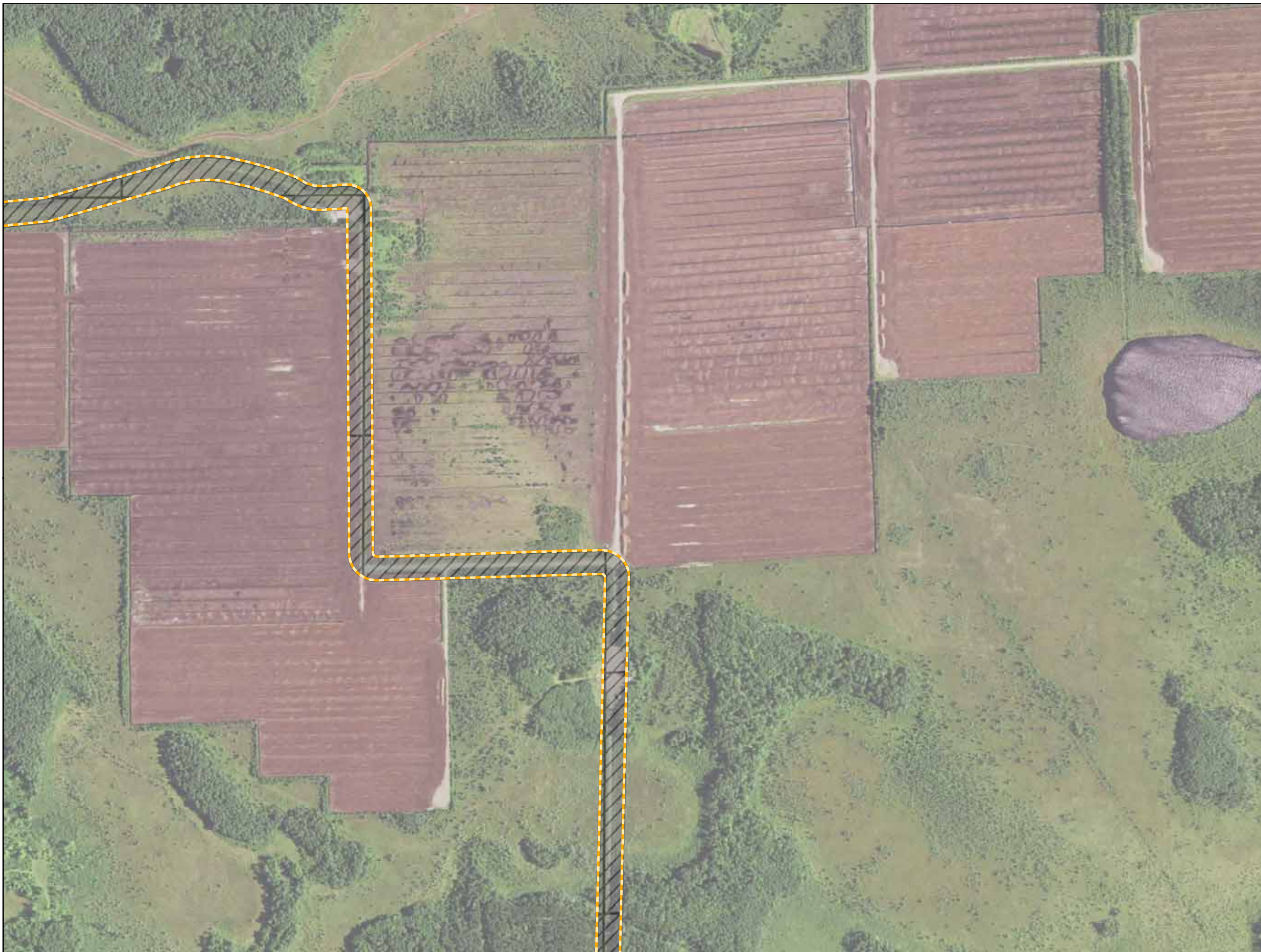
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Min.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-51**

**Enbridge**

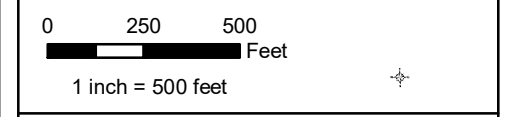
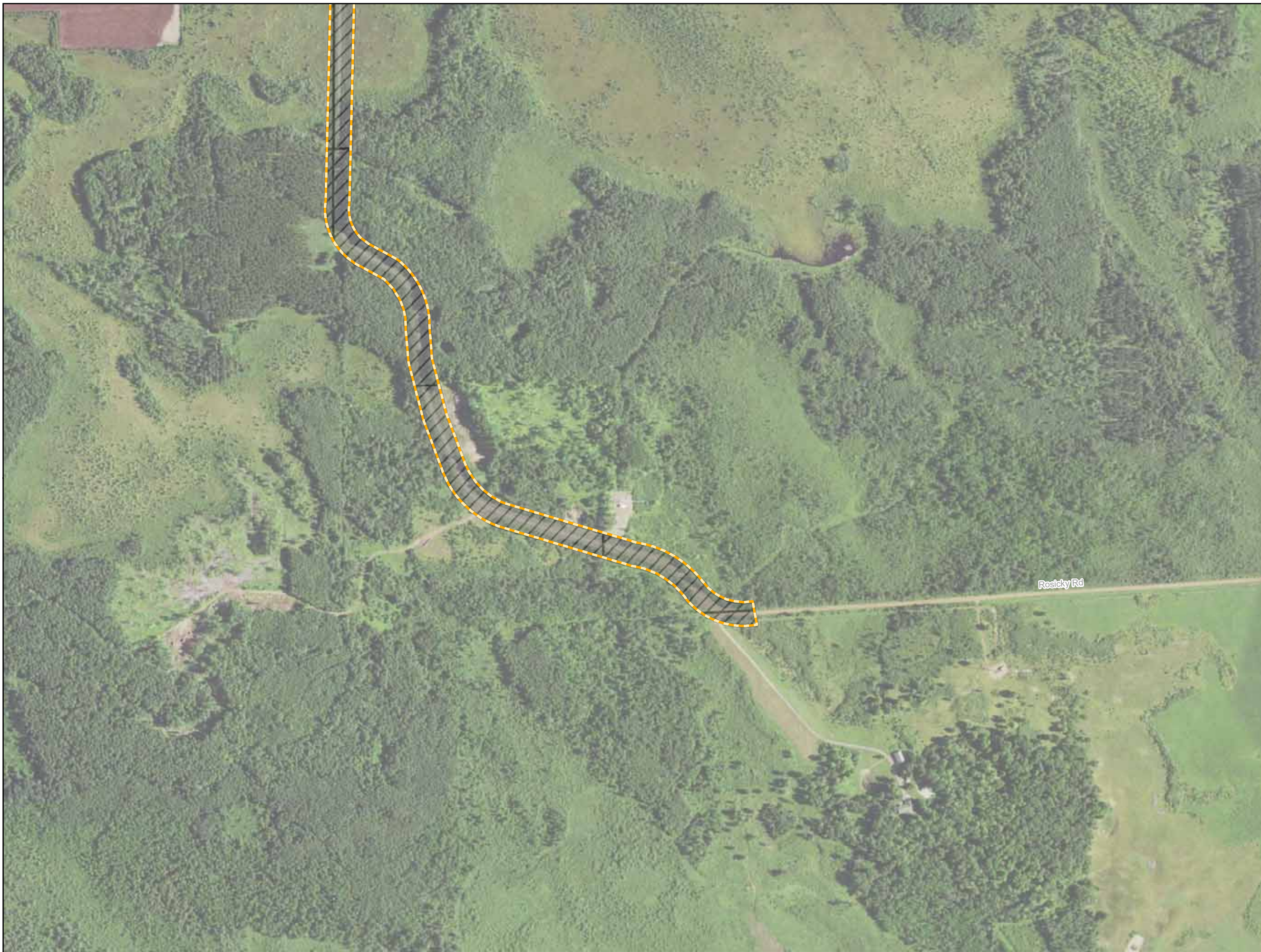
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-52**

**Enbridge**

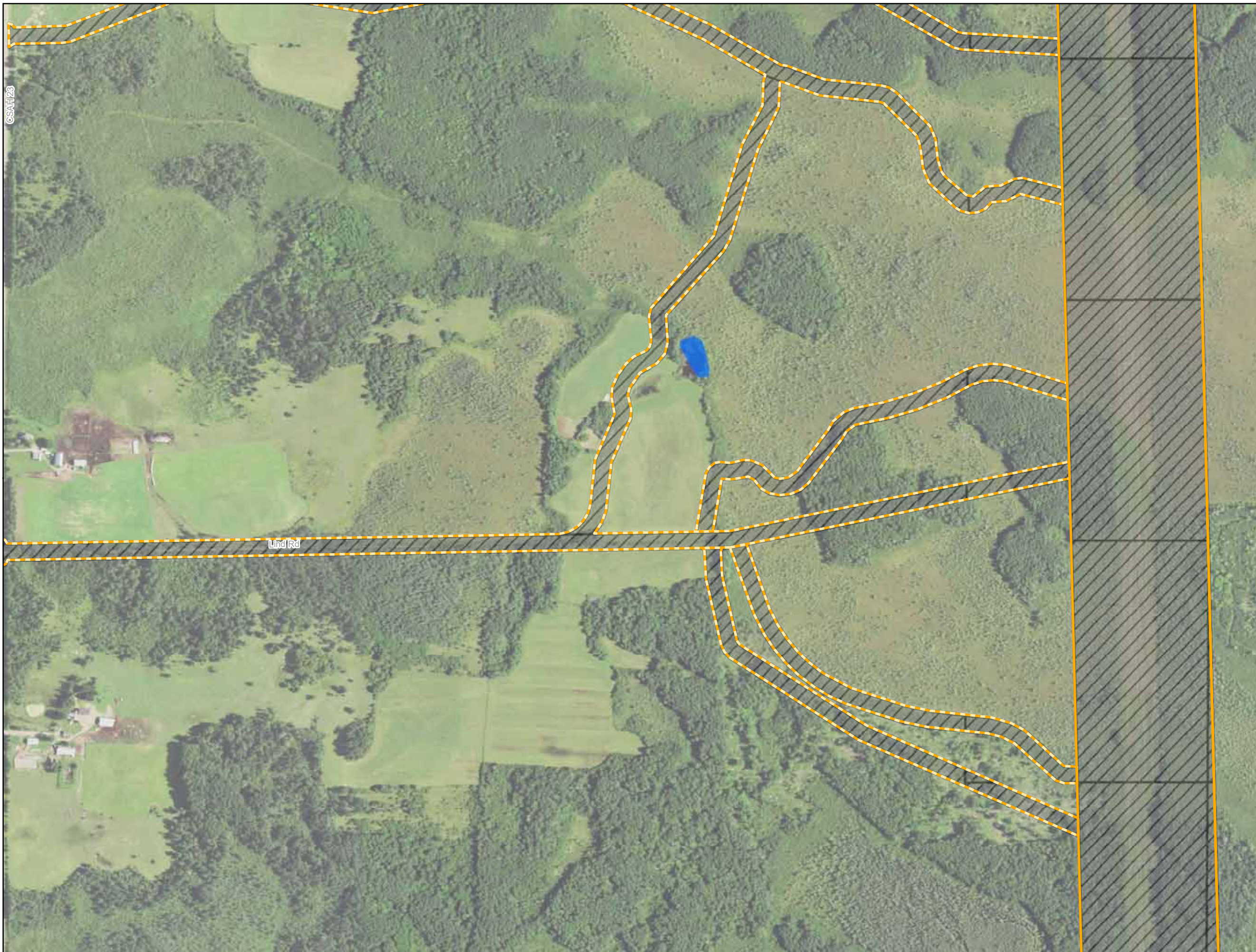
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Min.mxd





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Lind Rd



- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
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- 2018 Wetland**
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- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-53**

**Enbridge**

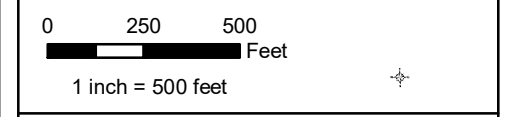
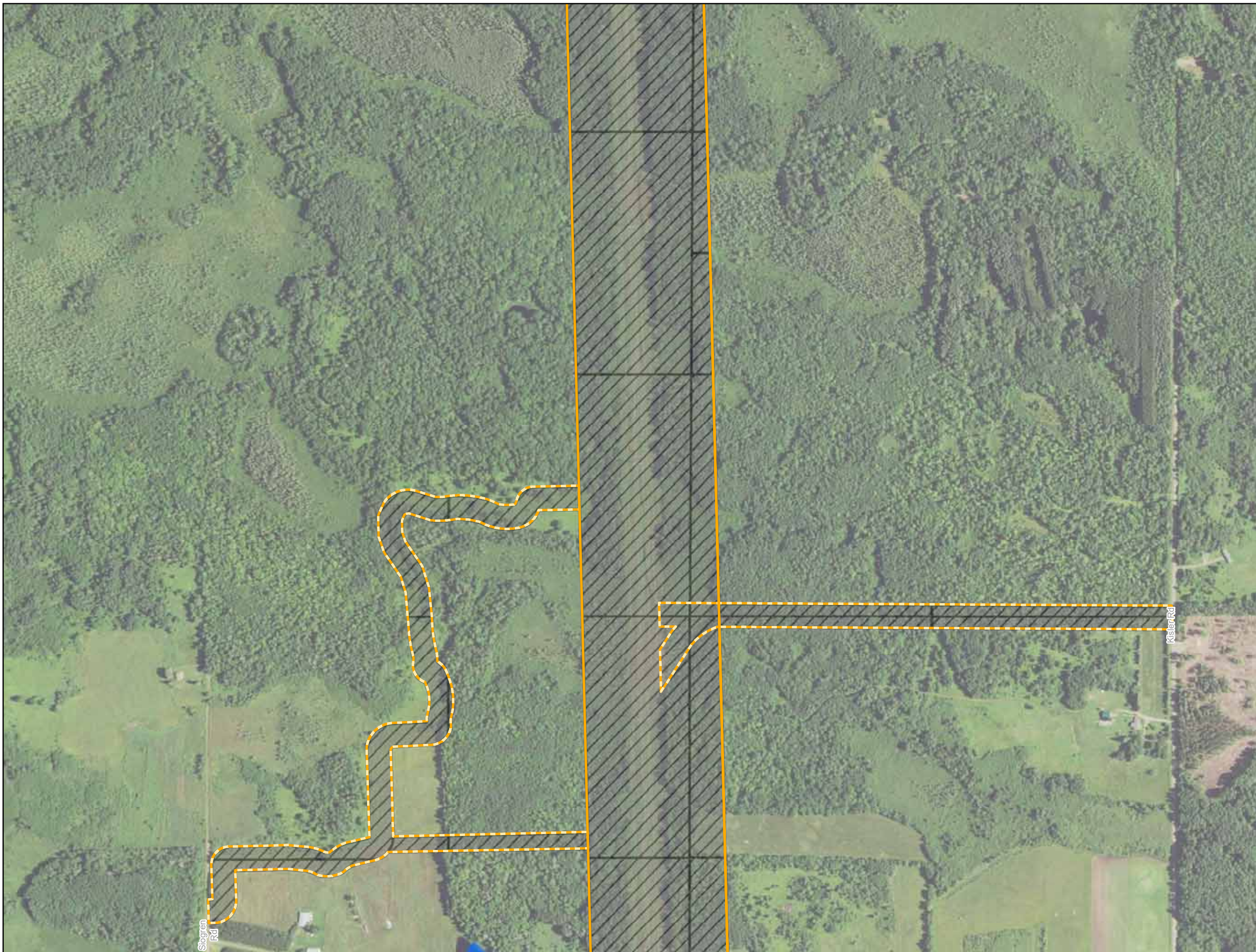
**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Full\_Replacement\Field\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
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- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-54**

**Enbridge**

**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**

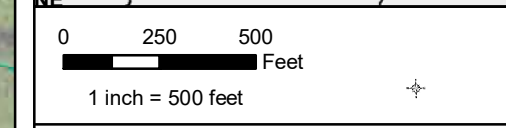
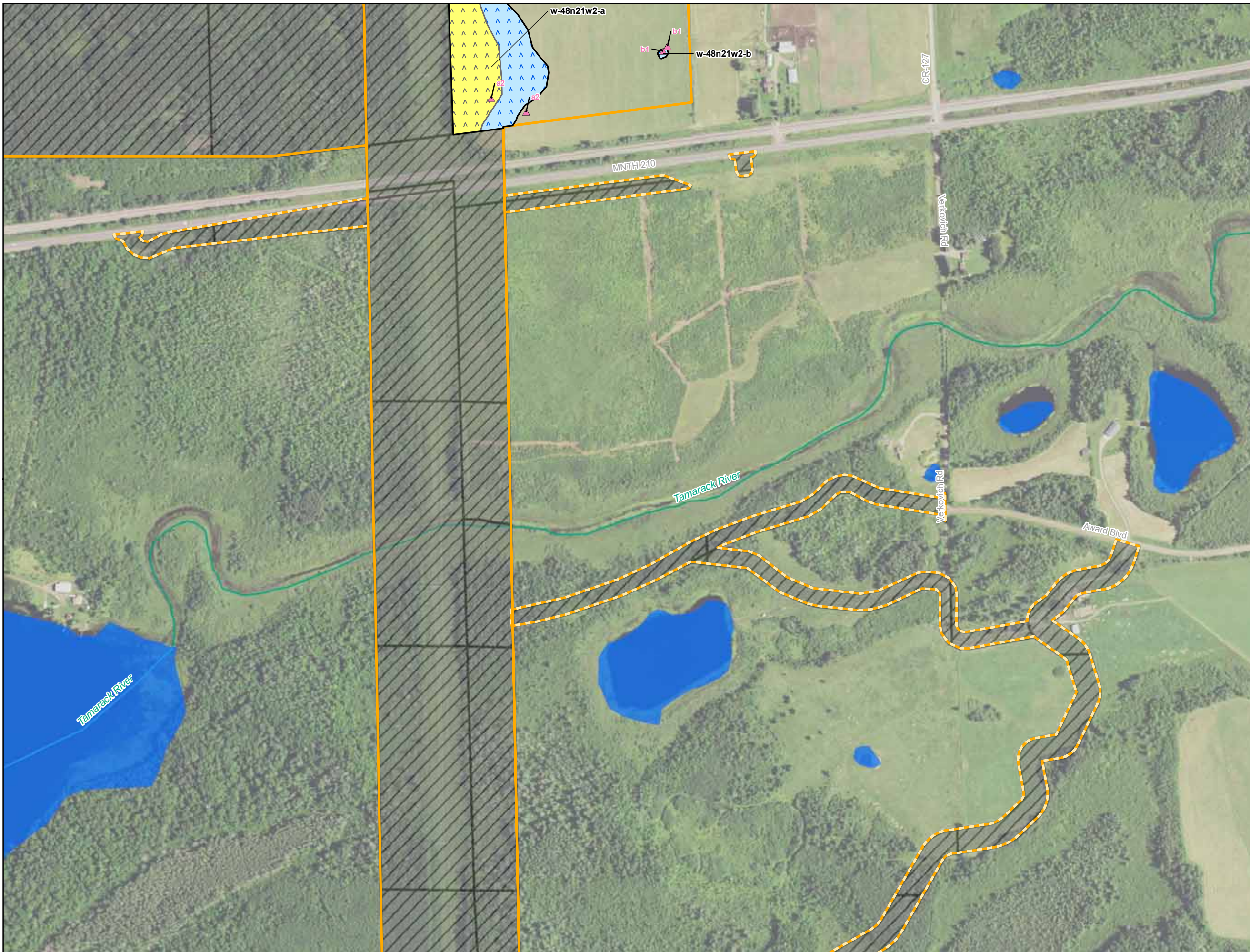


Date: (9/20/2018) Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_Appendixr\_WIN.mxd









- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-56**

**Enbridge**

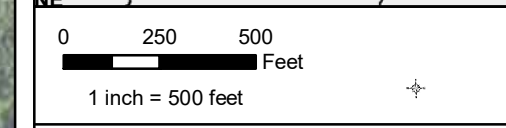
**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_MN.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-57**

**Enbridge**

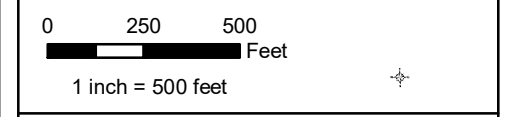
**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
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- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
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- PSS
- PUB
- L1UB
- 2014 Wetland**
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- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-58**

**Enbridge**

**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\MINN\LSR\_Wetland\_WB\_AppendixF\_MIN.mxd  
Date: (9/20/2018)





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-59**

**Enbridge**

**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



P14203

Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_Replacement\Field\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_2018060310M\T13R\_Wetland\_WB\_AppendixF\_WIN.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-60**

**Enbridge**

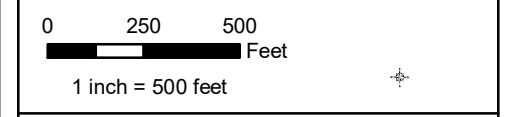
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\MT\LSR\_Wetland\_WB\_AppendixF\_MN.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-61**

**Enbridge**

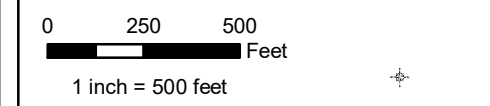
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\MT\LSR\_Wetland\_WB\_AppendixF\_WIN.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-62**

**Enbridge**

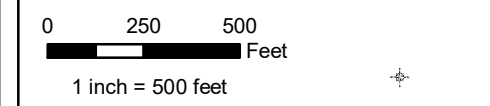
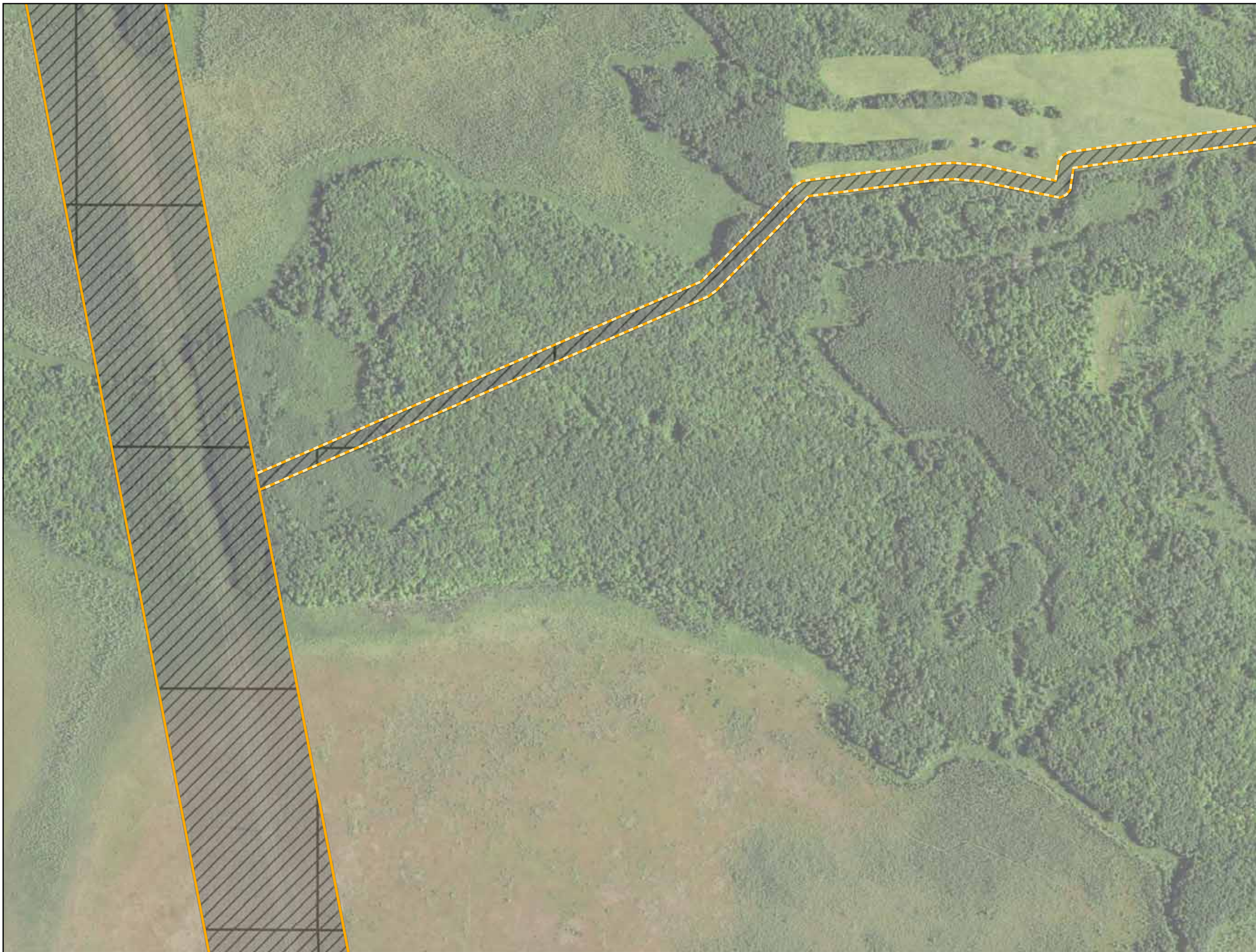
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-63**

**Enbridge**

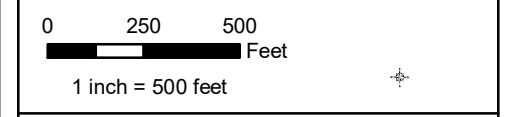
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-64**

**Enbridge**

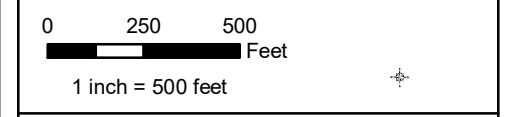
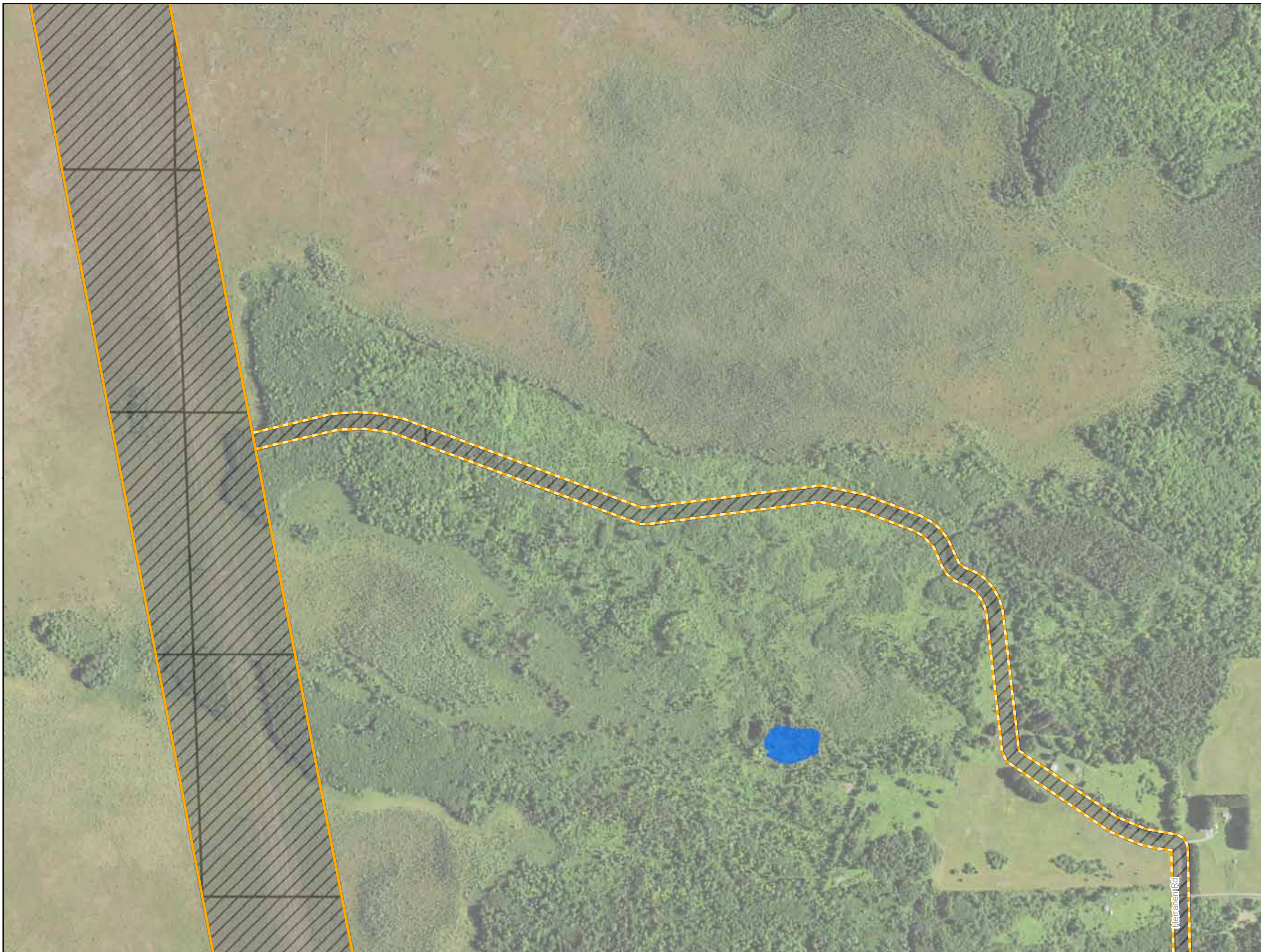
**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_2018060310M\T13R\_Wetland\_WB\_AppendixF\_Min.mxd Date: (9/20/2018)





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-65**

**Enbridge**

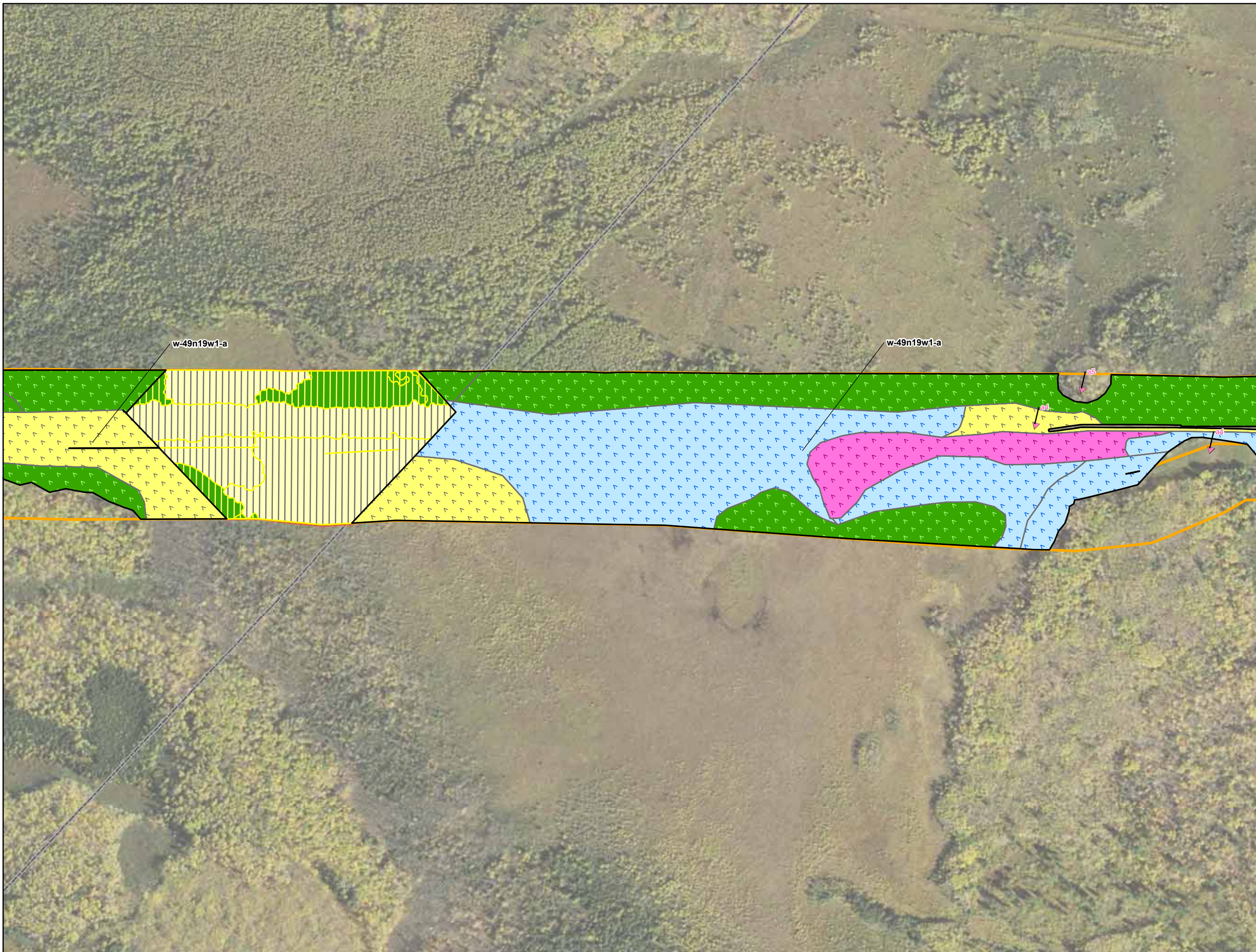
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-66**

**Enbridge**

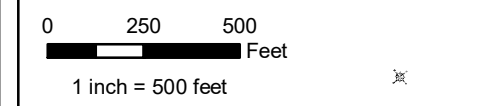
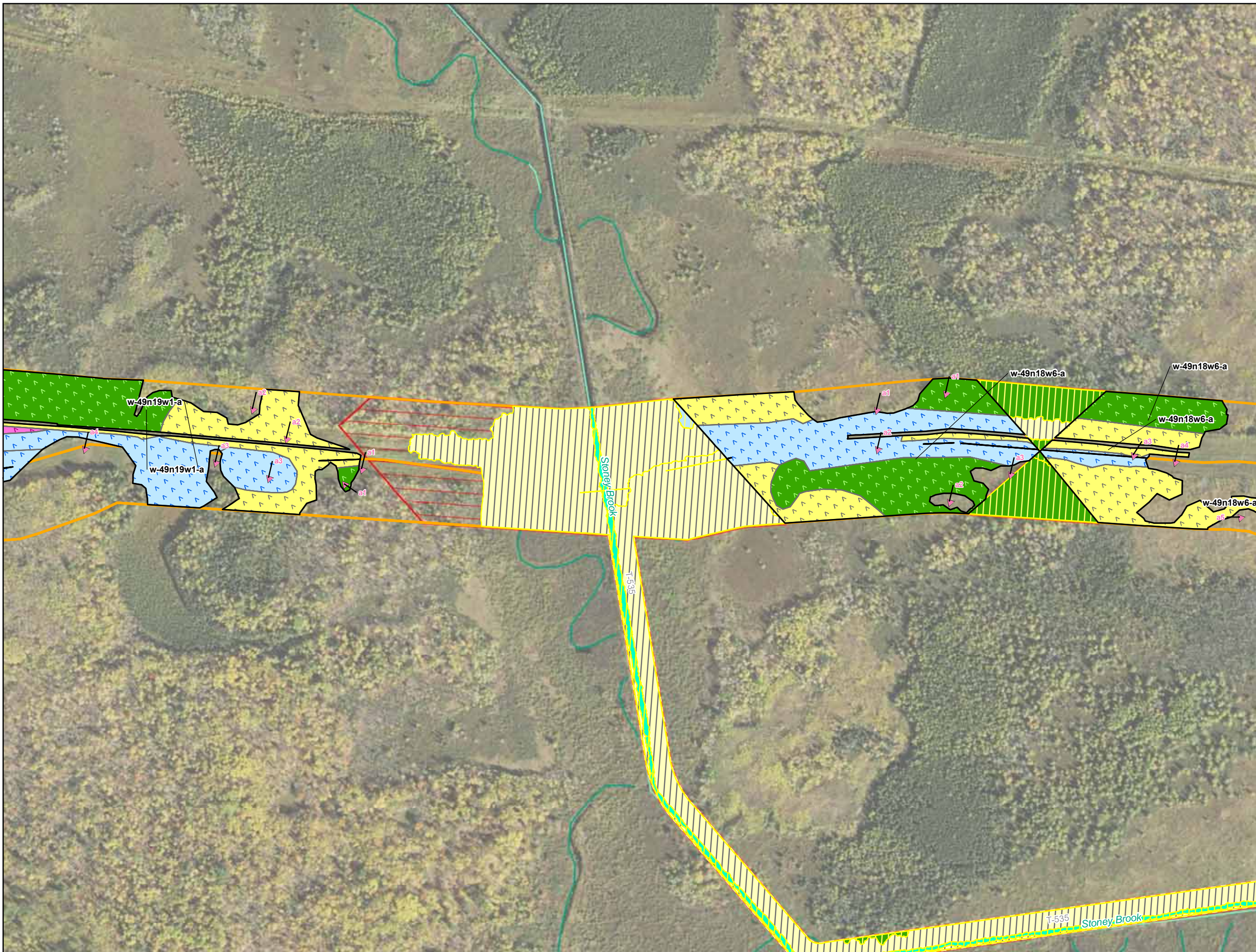
**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Full\_Replacement\Field\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-67**

**Enbridge**

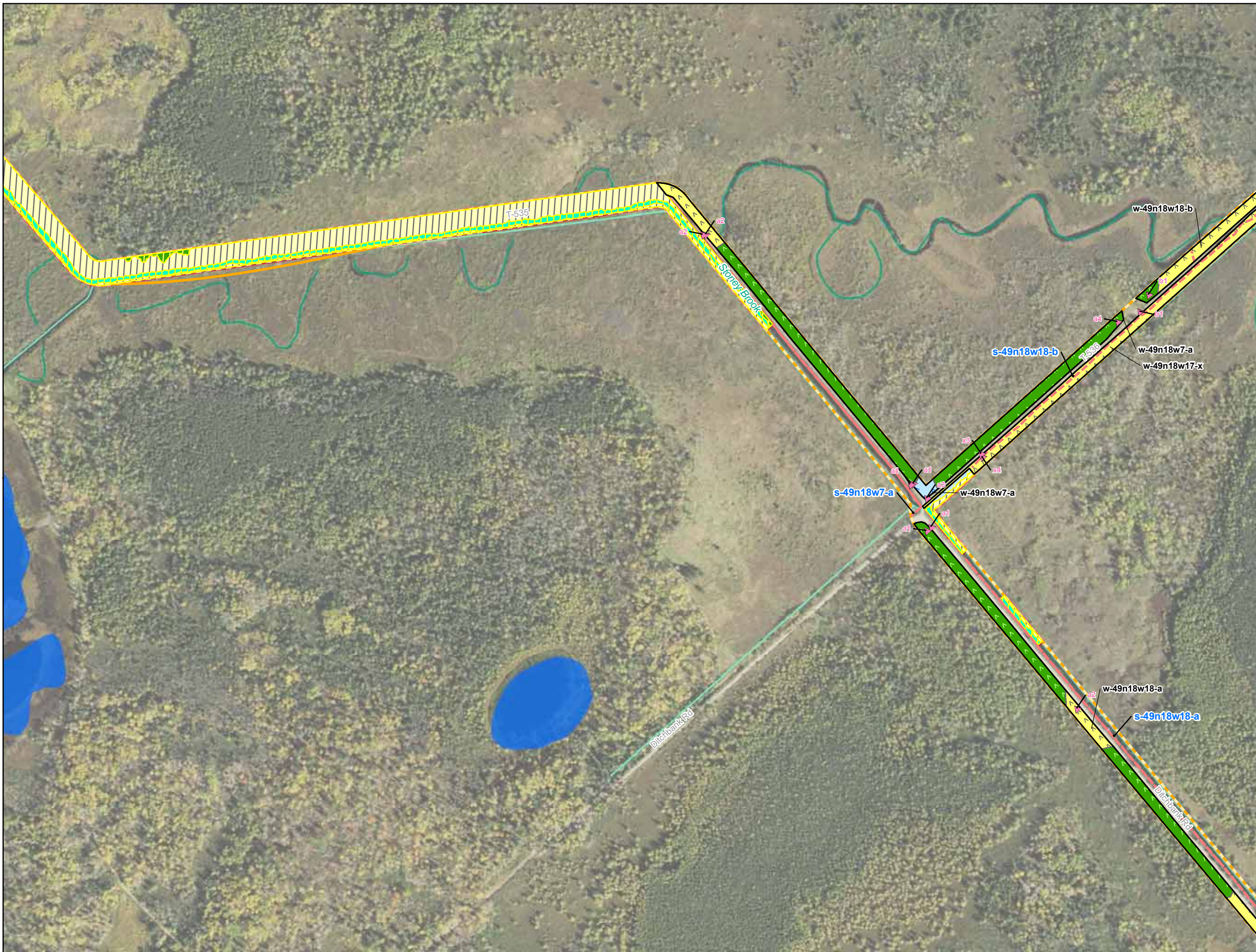
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-68**

**Enbridge**

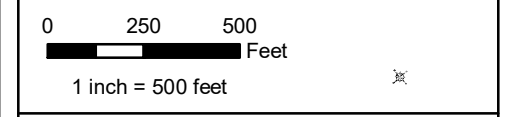
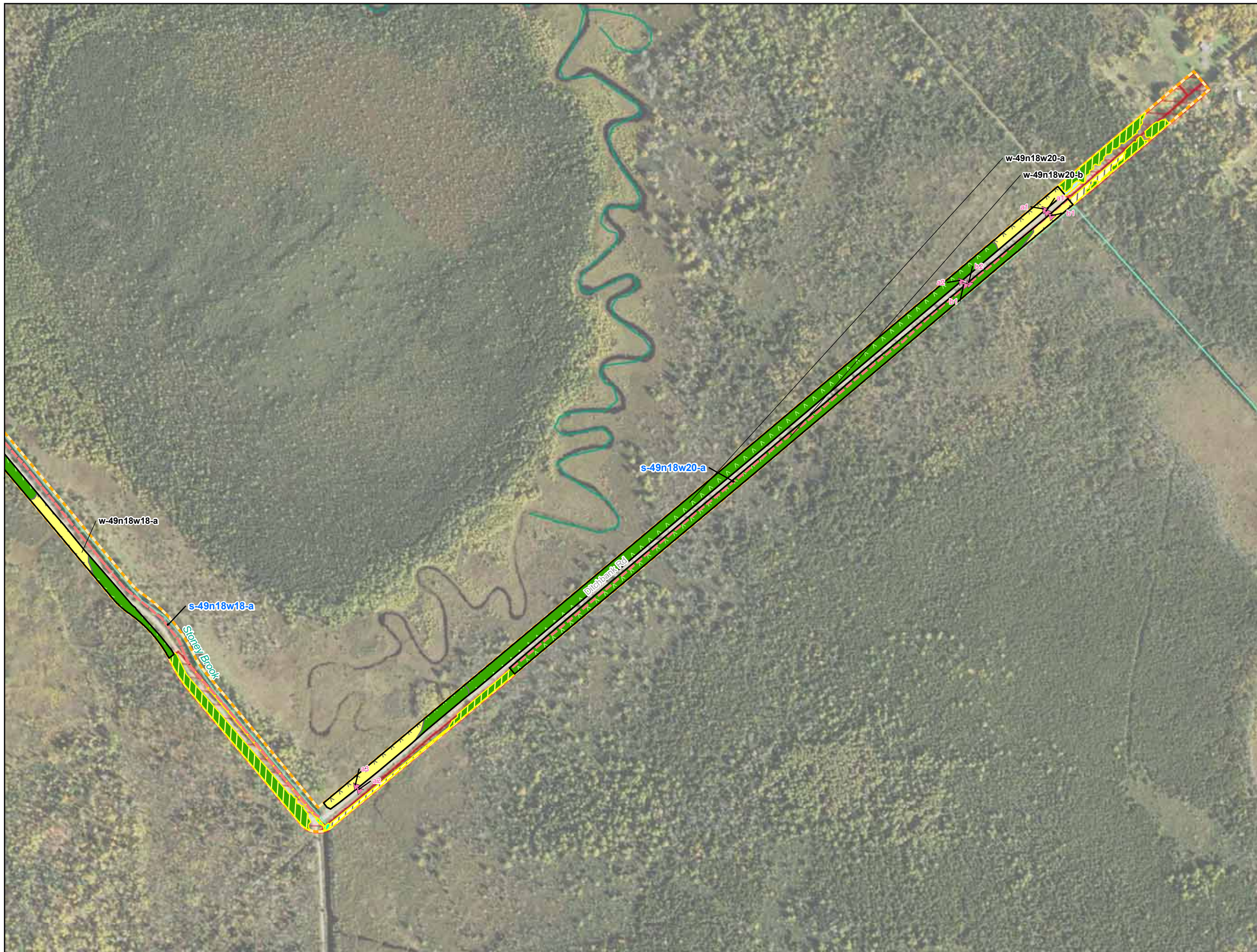
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Min.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-69**

**Enbridge**

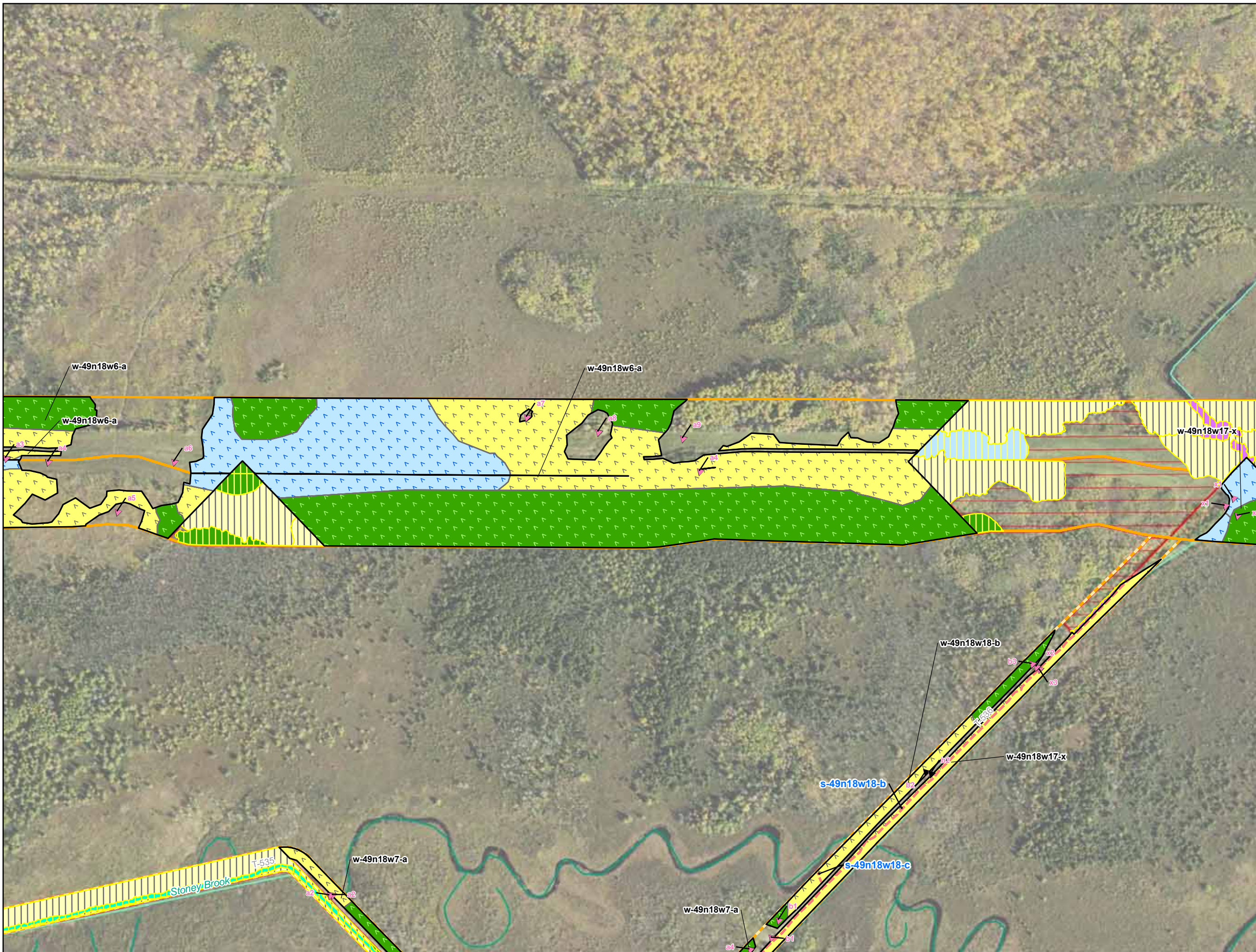
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd






- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- ~ Waterbody
- ~ Intermittent Stream
- ~ Perennial Stream
- ~ Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- ~ 2013 Field Delineated Waterbody
- ~ 2014 Field Delineated Waterbody
- ~ 2015 Field Delineated Waterbody
- ~ 2016 Field Delineated Waterbody
- ~ 2017 Field Delineated Waterbody
- ~ 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-70**

**Enbridge**

**Field Collected Wetlands and Waterbodies**

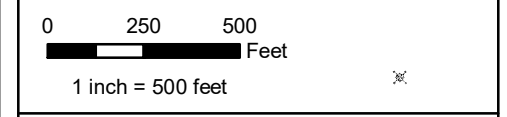
**Carlton County, Minnesota**



For Environmental Review Purposes Only September 2018

Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_20180631.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- ~ Waterbody
- ~ Intermittent Stream
- ~ Perennial Stream
- ~ Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- △ 2018 Sample Point
- ~ 2013 Field Delineated Waterbody
- ~ 2014 Field Delineated Waterbody
- ~ 2015 Field Delineated Waterbody
- ~ 2016 Field Delineated Waterbody
- ~ 2017 Field Delineated Waterbody
- ~ 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-71**

**Enbridge**

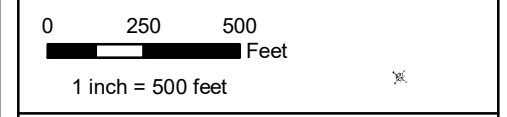
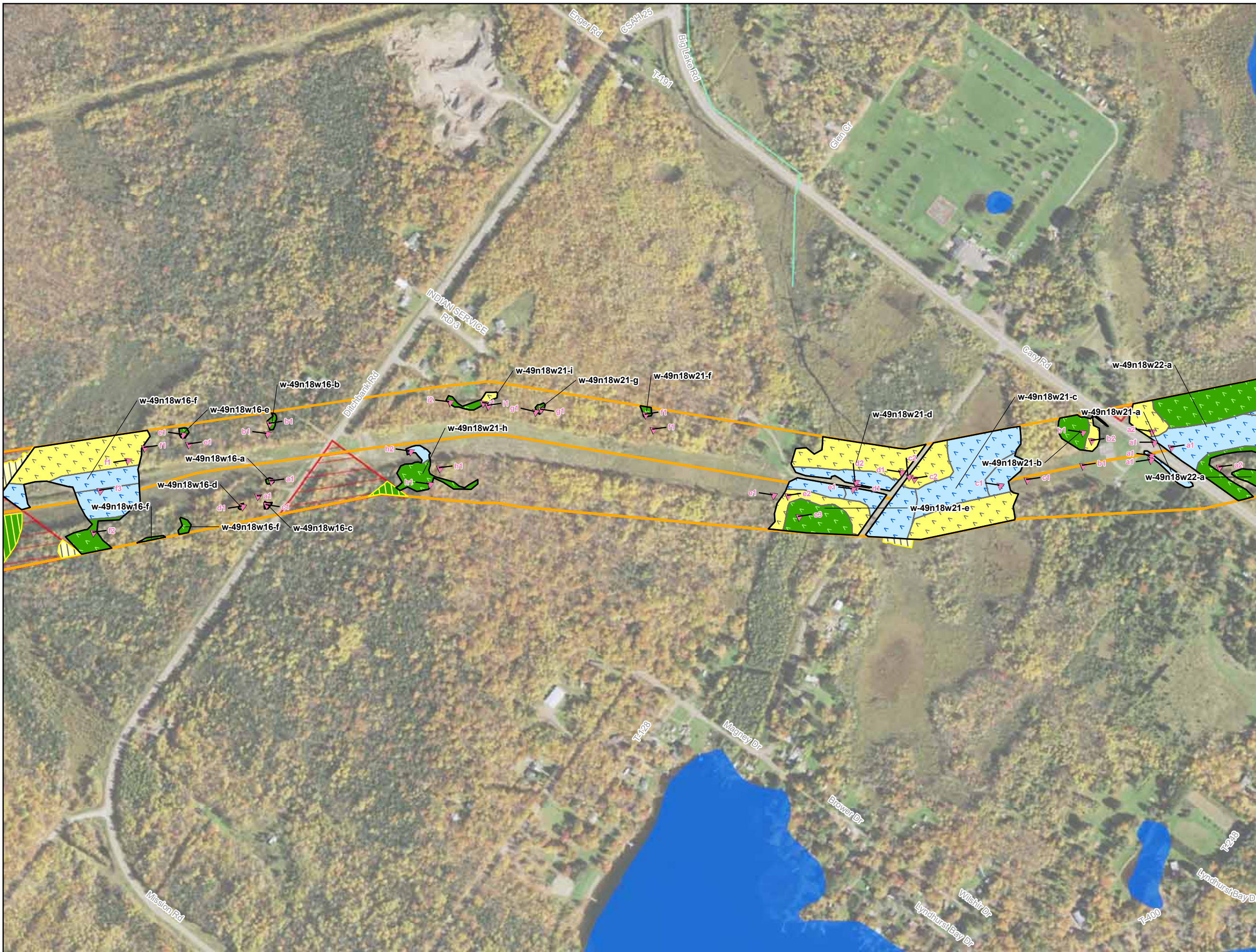
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**



Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-72**

**Enbridge**

**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

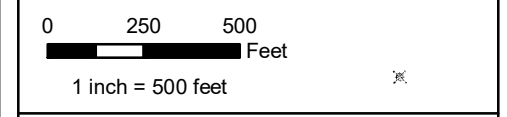
For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_FHE\bridgeLine\_3\_Full\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd









- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-74**

**Enbridge**

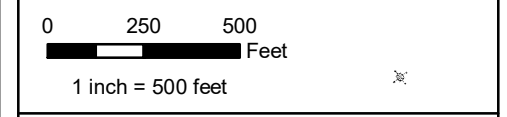
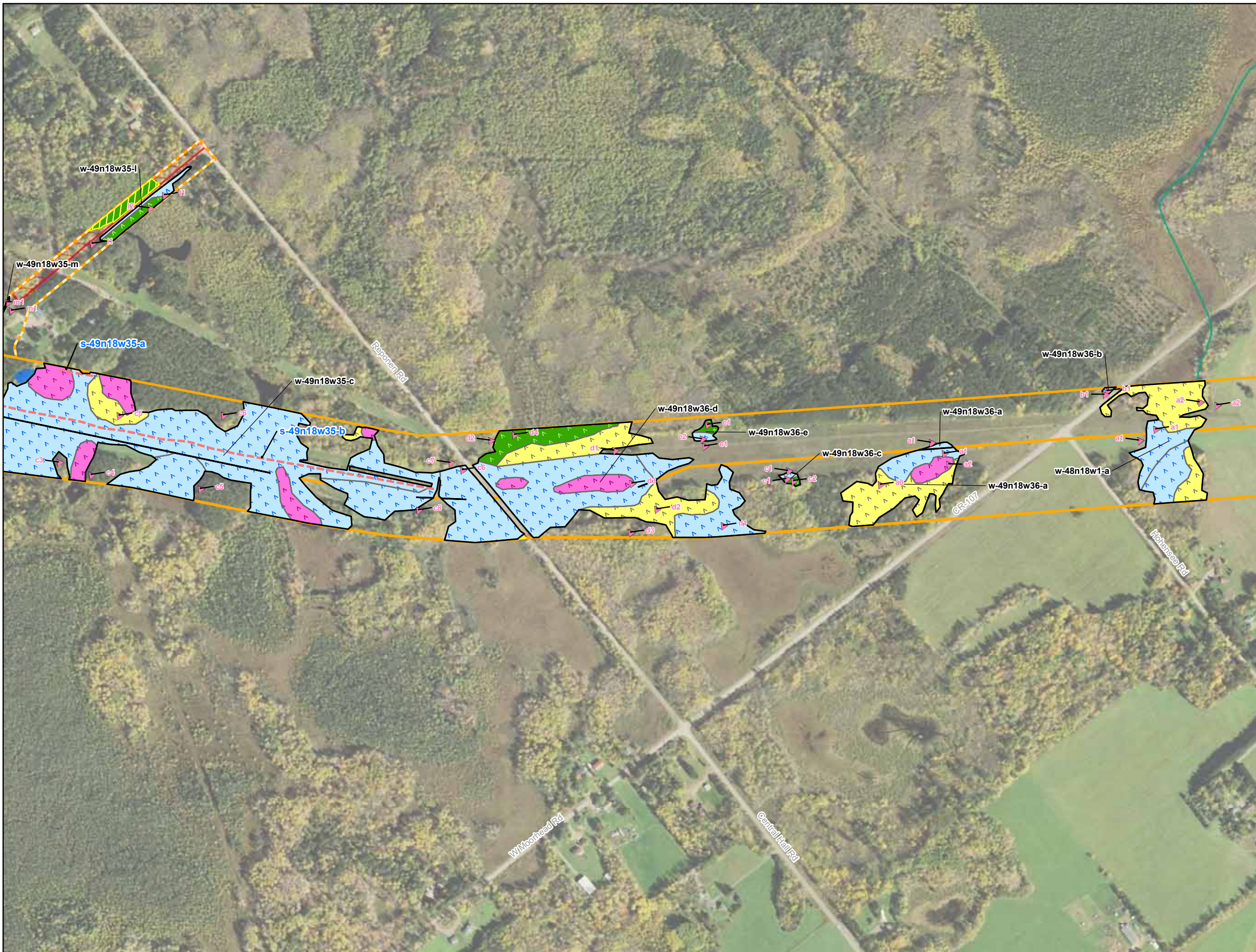
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reponen\Waterbody\_20180831\Wetland\_Waterbody\_WB\_AppendixF\_Wetland.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-75**

**Enbridge**

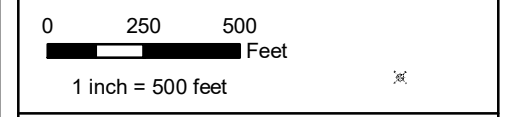
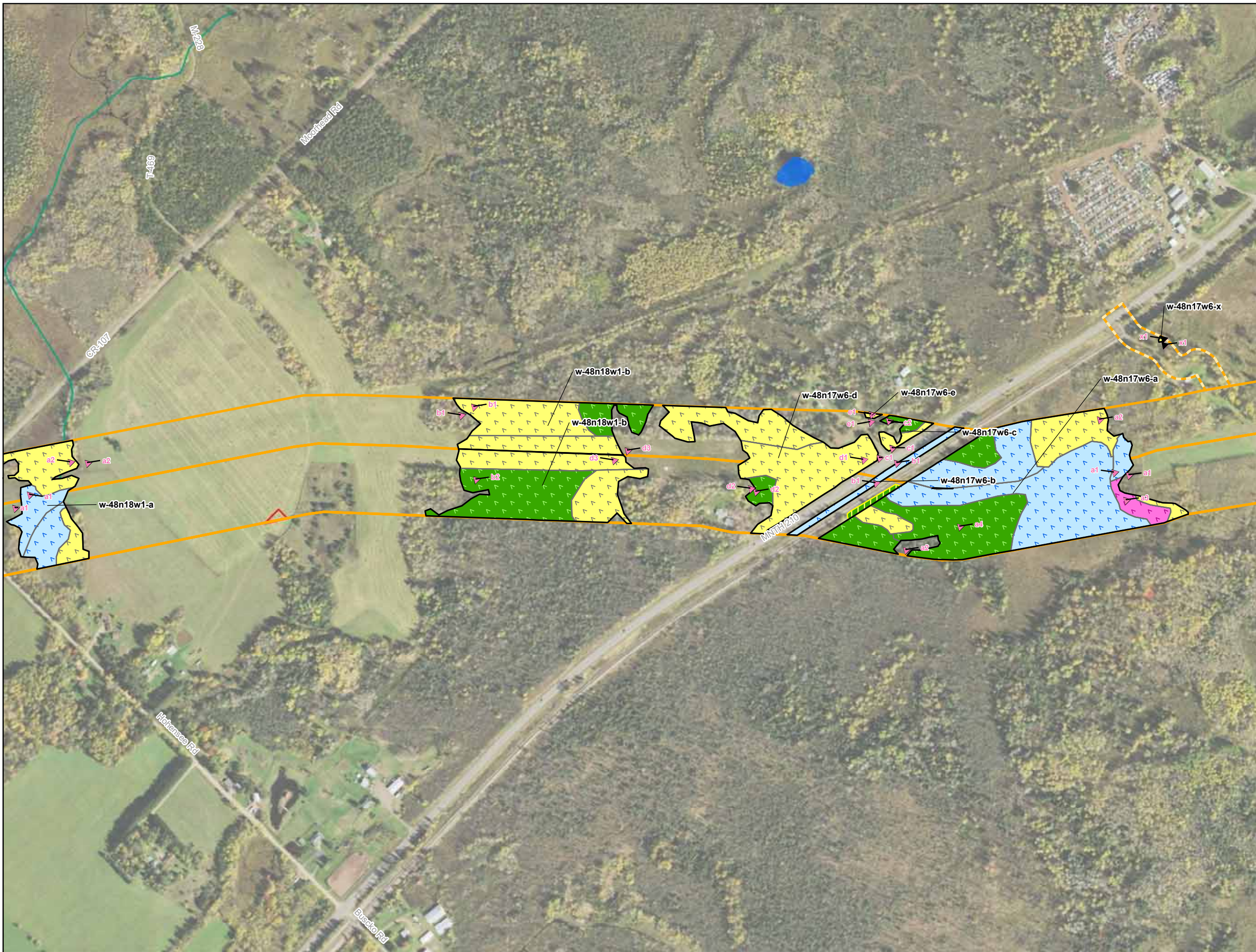
**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reponen\_Waterbody\Wetland\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-76**

**Enbridge**

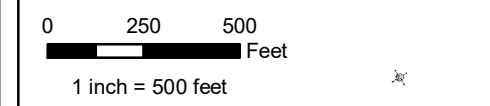
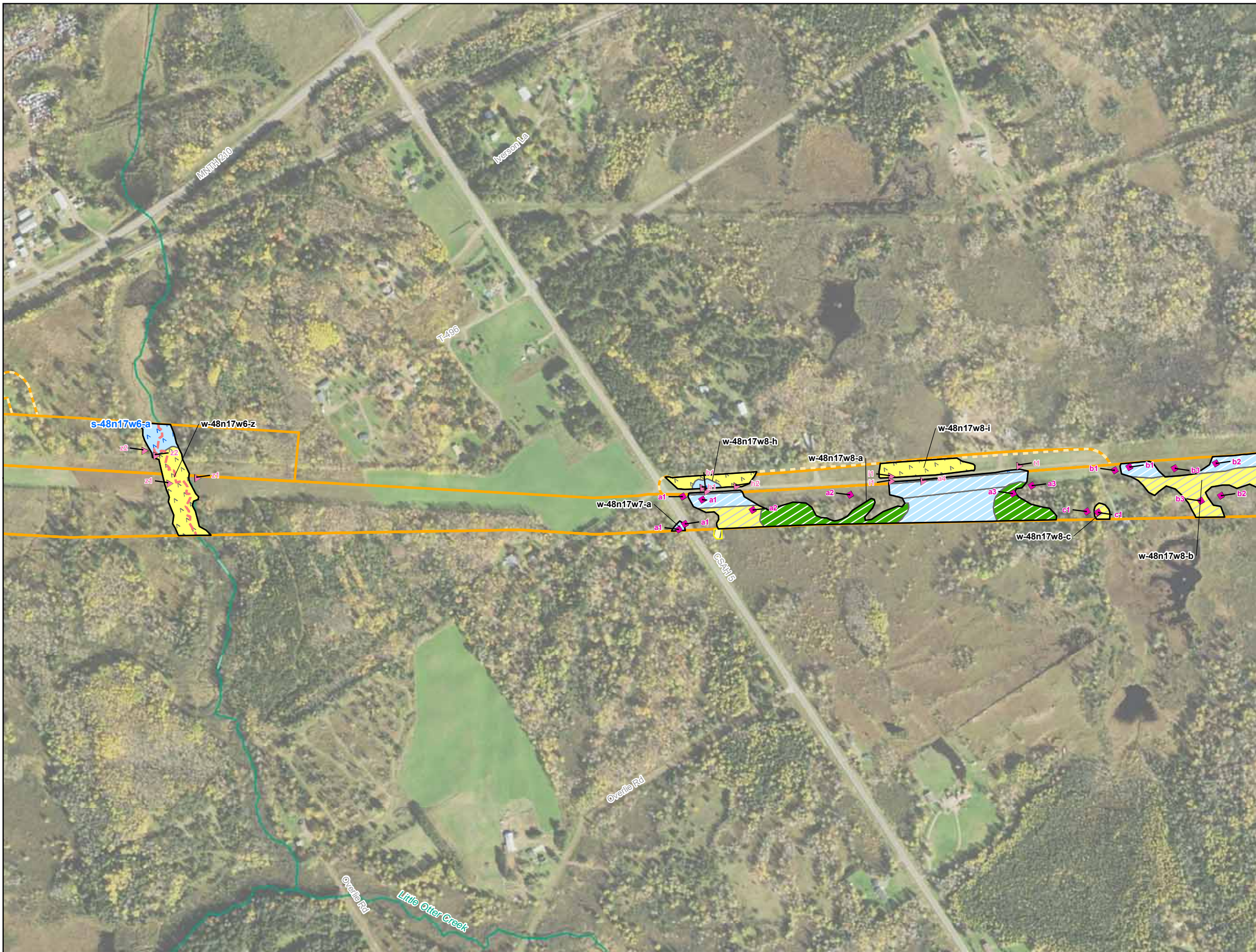
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\IE\_Data\Wetland\Waterbody\Reports\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_20180831.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-77**

**Enbridge**

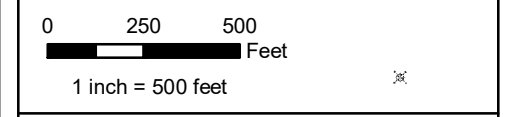
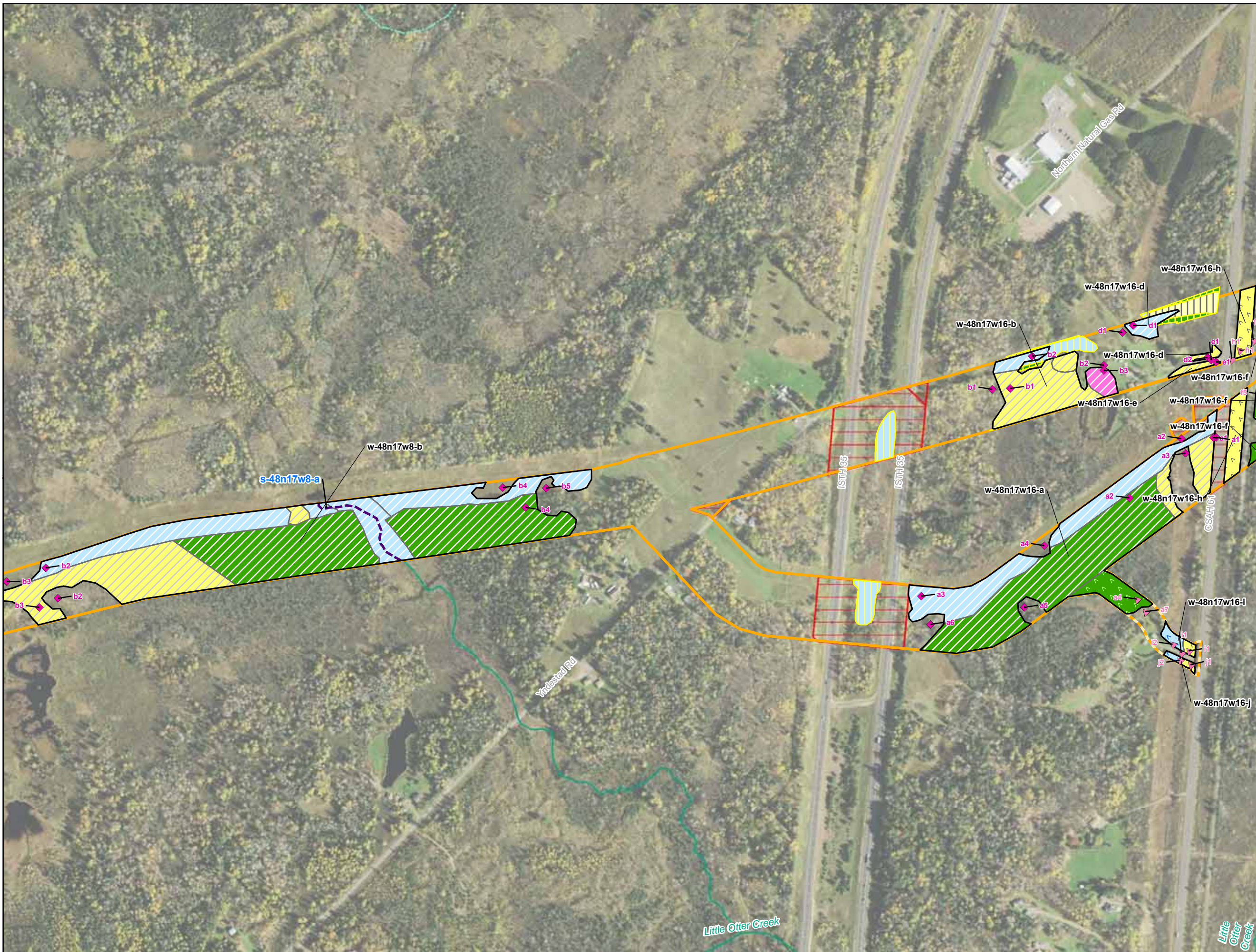
**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_Appendixr\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-78**

**Enbridge**

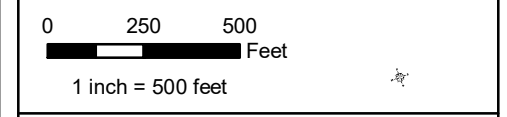
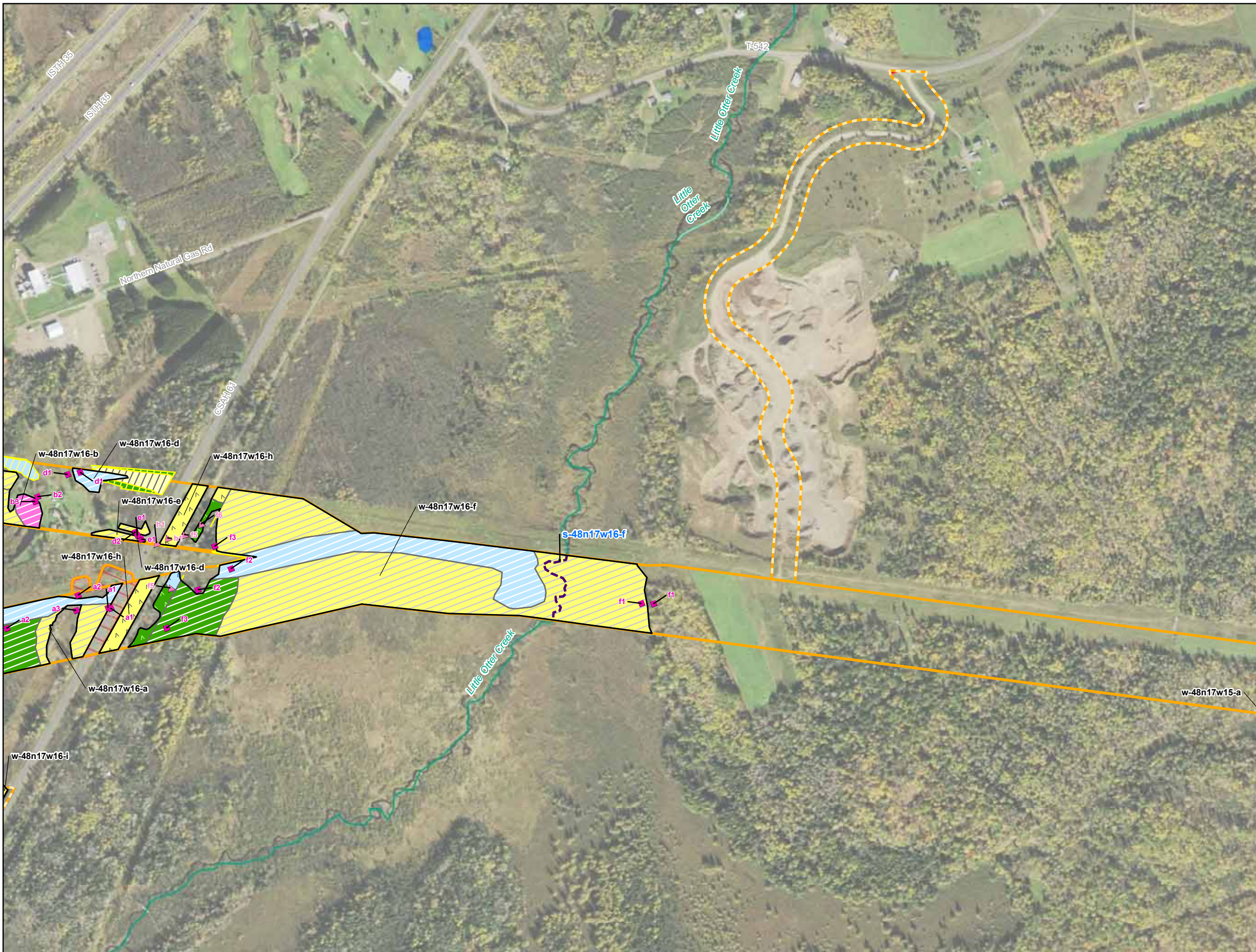
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-79**

**Enbridge**

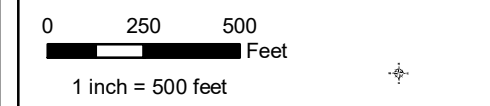
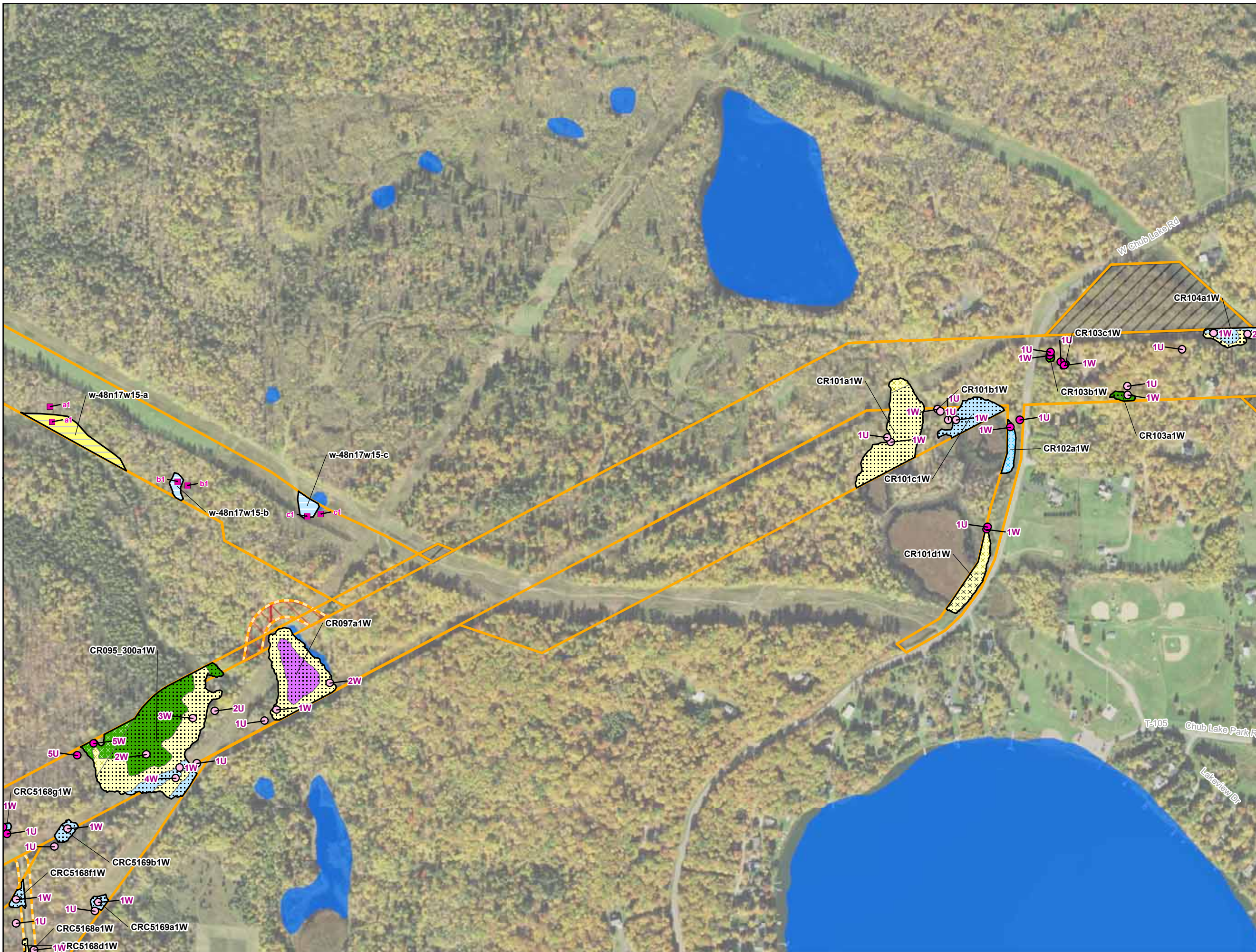
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\MINN\CS4R\_Wetland\_WB\_AppendixF\_MIN.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- ~ Waterbody
- ~ Intermittent Stream
- ~ Perennial Stream
- ~ Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- ~ 2013 Field Delineated Waterbody
- ~ 2014 Field Delineated Waterbody
- ~ 2015 Field Delineated Waterbody
- ~ 2016 Field Delineated Waterbody
- ~ 2017 Field Delineated Waterbody
- ~ 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

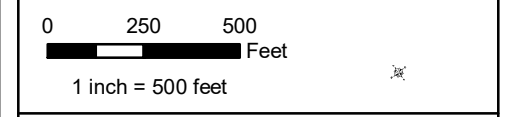
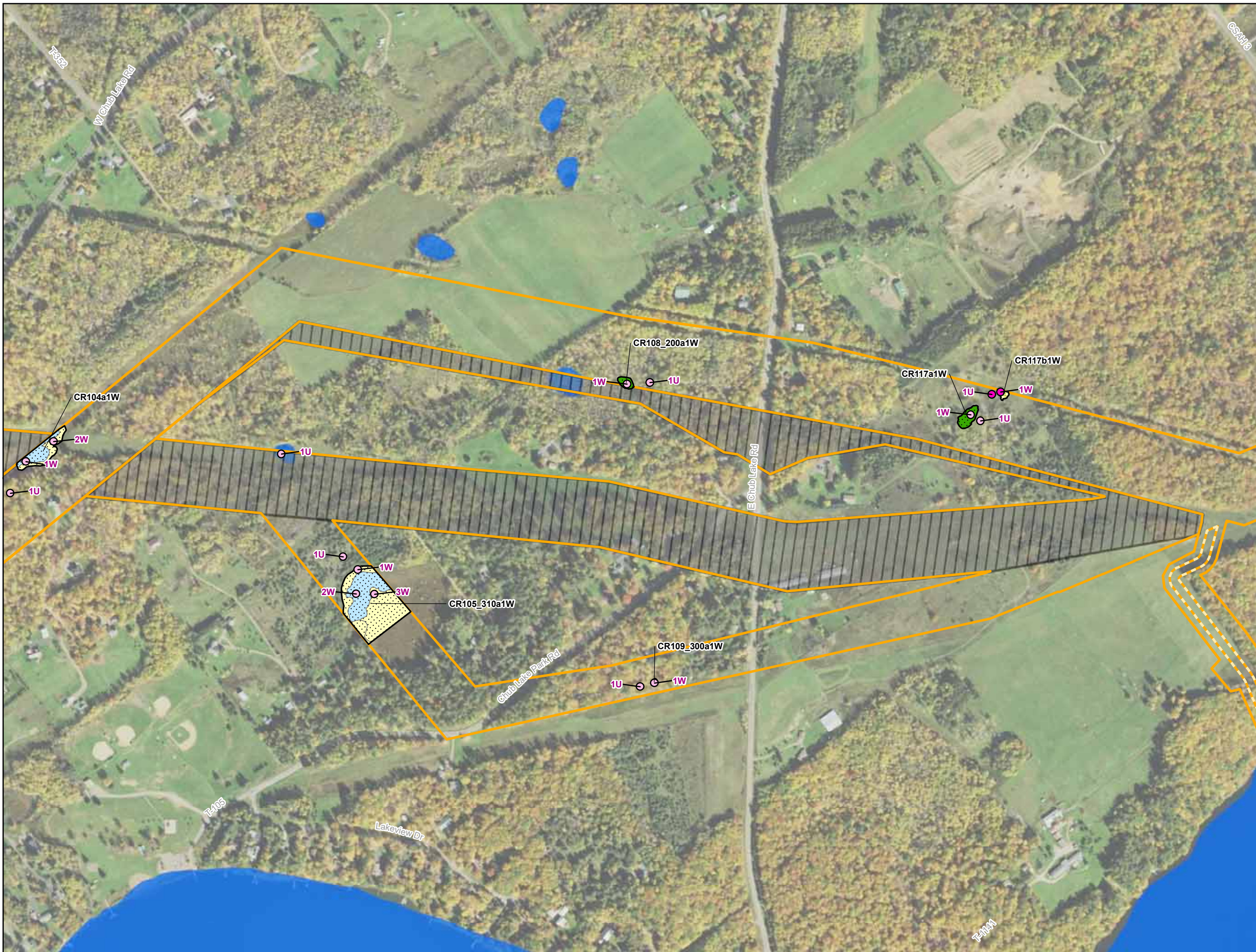
**Appendix F  
Exhibit F 13-80**

**Enbridge**  
**Field Collected Wetlands and  
Waterbodies**  
**Carlton County, Minnesota**



Source: Z:\Clients\IE\_F\H\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-81**

**Enbridge**

**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Source: (9/20/2018) Z:\Clients\IE\_FHE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_WB\_AppendixF\_Min.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-82**

**Enbridge**

**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**

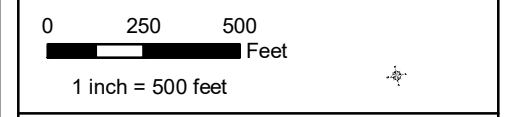


Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180831\Wetland\_Waterbody\_WB\_AppendixF\_Wetland\_WB.mxd









- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-84**

**Enbridge**

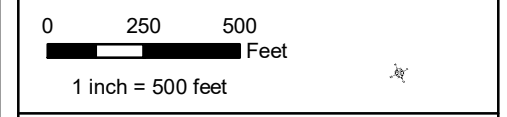
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\IE\bridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_20180631\Wetland\_Waterbody\_WB\_AppendixF\_Min.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PFO
- PSS
- PUB
- L1U
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F**  
**Exhibit F 13-85**

**Enbridge**

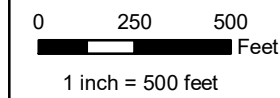
**Field Collected Wetlands and Waterbodies**

**Carlton County, Minnesota**

For Environmental Review Purposes Only September 2018

Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\Waterbody\Reports\Wetland\_Waterbody\_20180631\MT13CR\_Wetland\_WB\_AppendixF\_MN.mxd





- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-86**

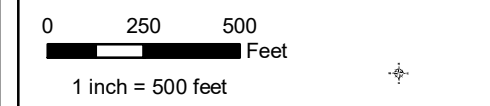
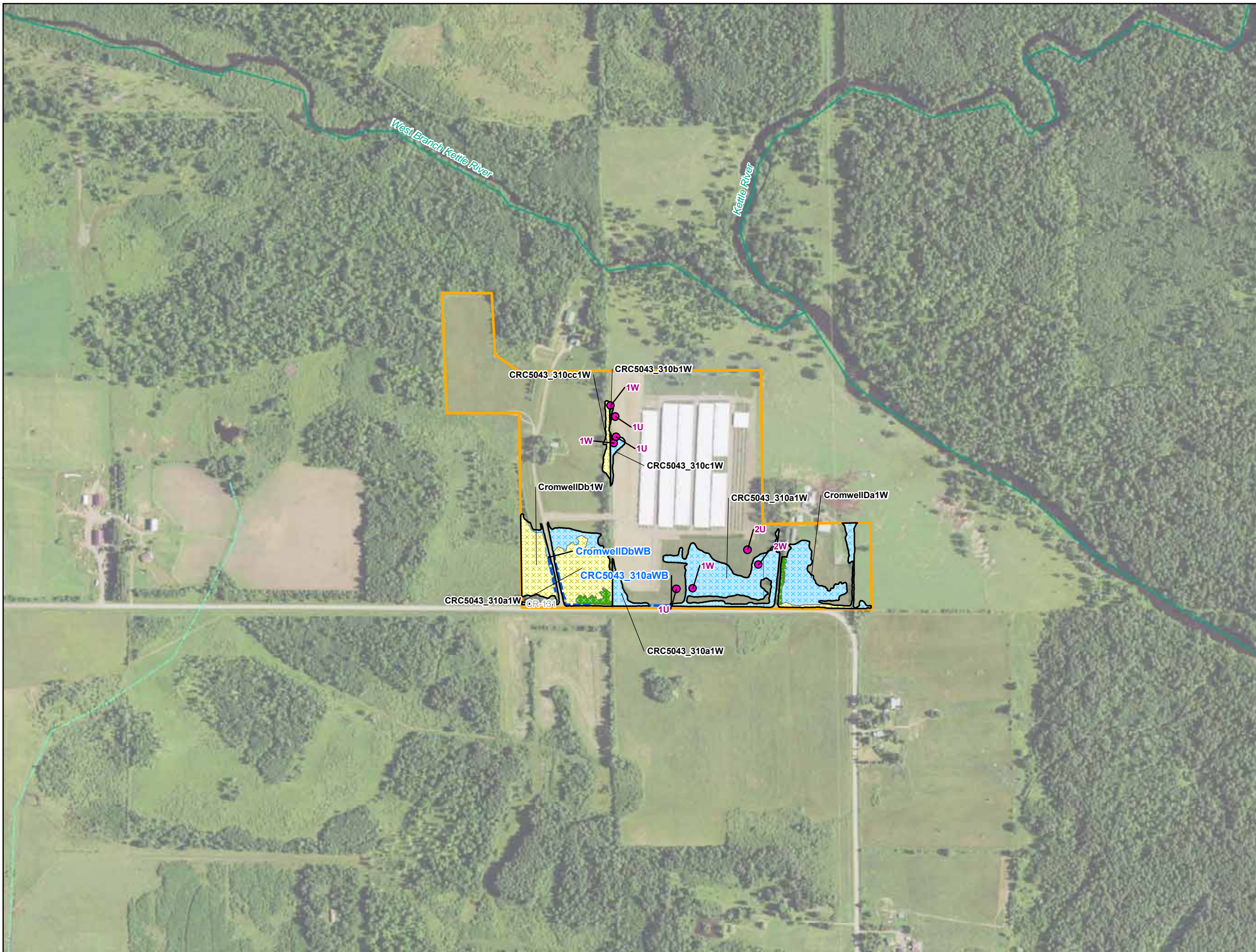
**Enbridge**

**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**







- Environmental Survey Corridor
- Access Road Survey Corridor
- Field Survey Not Complete
- Field Survey Not Required
- National Hydrography Dataset**
- Waterbody
- Intermittent Stream
- Perennial Stream
- Canal/Ditch
- NWI Wetland**
- PEM
- PSS
- L1U
- PFO
- PUB
- R2U; R4S; R5U; R3U
- Field Delineated Features**
- 2013 Sample Point
- 2014 Sample Point
- 2015 Sample Point
- 2016 Sample Point
- 2017 Sample Point
- 2018 Sample Point
- 2013 Field Delineated Waterbody
- 2014 Field Delineated Waterbody
- 2015 Field Delineated Waterbody
- 2016 Field Delineated Waterbody
- 2017 Field Delineated Waterbody
- 2018 Field Delineated Waterbody
- 2013 Wetland**
- PEM
- PFO
- PSS
- PUB
- L1UB
- 2014 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2015 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2016 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2017 Wetland**
- PEM
- PFO
- PSS
- PUB
- 2018 Wetland**
- PEM
- PFO
- PSS
- PUB

**Appendix F  
Exhibit F 13-87**

**Enbridge**

**Field Collected Wetlands and  
Waterbodies**

**Carlton County, Minnesota**



Date: (9/20/2018) Source: Z:\Clients\IE\_F\Enbridge\Line\_3\_Pull\_ReplacementField\_Data\Wetland\_Waterbody\Reports\Wetland\_Waterbody\_2018060310M\T13CR\_Wetland\_WB\_AppendixF\_MNR.mxd