

Photo No.: Photos-20180514-212410.jpg Description: Inlet



Photo No.: Photos-20180514-212444.jpg Description: Upstream



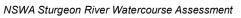
Photo No.: Photos-20180514-212500.jpg Description: Downstream



Photo No.: Photos-20180514-212529.jpg Description: Deck



Photo No.: Photos-20180514-212625.jpg Description: Outlet







Inspection Date: May 11, 2018 **Watercourse Name:** Sturgeon River

GPS Co-ordinates:

UTM: 11 | **Easting:** 691,046 | **Northing:** 5,956,120

Stream Classification: Fluvial (Permanent - Large)
Bankfull Width: 100m (Estimated to Nearest
Metre) Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Timber

Total Deck Length: 10 m

Deck Width (Number of Lanes): 1
Decking Material: Concrete
Decking Pattern: Open
Curb Type: Concrete

Road Surface Material: Gravel Abutment Type: Log Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath **Wingwall Functioning?:** Yes - in good condition and no materials eroding from underneath

Armour: None

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: Yes, damaged guardrail

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns Emergency Repair Required?: No

Overall Risk: Low

Comments: Water is in contact with abutment walls. Large riparian area downstream of

bridge.





Photo No.: Photos-20180511-212631.jpg Description: Downstream



Photo No.: Photos-20180511-212647.jpg Description: Outlet



Photo No.: Photos-20180511-212849.jpg Description: Deck



Photo No.: Photos-20180511-212902.jpg Description: Upstream



Photo No.: Photos-20180511-212930.jpg Description: Inlet





Inspection Date: May 11, 2018 **Watercourse Name:** Sturgeon River

GPS Co-ordinates:

UTM: 11 | **Easting:** 686,345 | **Northing:** 5,956,762

Stream Classification: Fluvial (Permanent - Large)
Bankfull Width: 8m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Timber

Total Deck Length: 19 m

Deck Width (Number of Lanes): 2
Decking Material: Concrete
Decking Pattern: Closed
Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Log Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath **Wingwall Functioning?:** Yes - in good condition and no materials eroding from underneath

Armour: Other - abutment walls Opening Blockage: 0%

Cause of blockage: Other - none Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns Emergency Repair Required?: No

Overall Risk: Low

Comments: Fill slope is in contact with abutment walls.





Photo No.: Photos-20180511-204314.jpg Description: Deck



Photo No.: Photos-20180511-204517.jpg Description: Upstream



Photo No.: Photos-20180511-204529.jpg Description: Inlet



Photo No.: Photos-20180511-204623.jpg Description: Downstream



Photo No.: Photos-20180511-204650.jpg Description: Outlet





Inspection Date: May 08, 2018
Watercourse Name: Riviere Qui Barre

GPS Co-ordinates:

UTM: 12 | **Easting:** 311,776 | **Northing:** 5,955,732

Stream Classification: Fluvial (Permanent - Small)
Bankfull Width: 8m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Concrete

Total Deck Length: 20 m

Deck Width (Number of Lanes): 2
Decking Material: Concrete
Decking Pattern: Closed
Curb Type: Concrete

Road Surface Material: Other - pavement Abutment Type: Concrete Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath **Wingwall Functioning?:** Yes - in good condition and no materials eroding from underneath

Armour: Riprap

Opening Blockage: 0%

Cause of blockage: Other - none Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns Emergency Repair Required?: No

Overall Risk: Low Comments:





Photo No.: Photos-20180508-213850.jpg Description: Upstream



Photo No.: Photos-20180508-213901.jpg Description: Inlet



Photo No.: Photos-20180508-214000.jpg Description: Downstream



Photo No.: Photos-20180508-214009.jpg Description: Outlet



Inspection Date: May 08, 2018
Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 12 | **Easting:** 311,205 | **Northing:** 5,955,396

Stream Classification: Fluvial (Permanent - Large)
Bankfull Width: 10m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: Yes Erosion Location (Inlet or Outlet): Both

Erosion Source: Fill Slope

Erosion Extent: Low Total Erosion Area: 18 m²

Most Common Bridge Substructure Material: Timber

Total Deck Length: 19 m
Deck Width (Number of Lanes): 1
Decking Material: Concrete
Decking Pattern: Open
Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Log Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath **Wingwall Functioning?:** Yes - in good condition and no materials eroding from underneath

Armour: Vegetation **Opening Blockage:** 0%

Cause of blockage: Other - none Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Damaged, sign is either down or needs to be replaced

Fish Passage Assessment: No Concerns Emergency Repair Required?: No

Overall Risk: Low

Comments: Some lumber on abutment walls missing.







Photo No.: Photos-20180508-212420.jpg Description: Outlet



Photo No.: Photos-20180508-212500.jpg Description: Deck

Photo No.: Photos-20180508-212520.jpg Description: Downstream



Photo No.: Photos-20180508-212537.jpg Description: Upstream



Photo No.: Photos-20180508-212638.jpg Description: Inlet

Crossing ID: WC_0355

NSWA Sturgeon River Watercourse Assessment





Inspection Date: May 16, 2018
Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 12 | **Easting:** 313,990 | **Northing:** 5,955,109

Stream Classification: Fluvial (Permanent - Large)
Bankfull Width: 12m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: Yes Erosion Location (Inlet or Outlet): Both

Erosion Source: Bank Slump

Erosion Extent: Low Total Erosion Area: 9 m²

Most Common Bridge Substructure Material: Concrete

Total Deck Length: 40 m

Deck Width (Number of Lanes): 2
Decking Material: Concrete
Decking Pattern: Closed
Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Concrete Blocks

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: No wingwalls present

Armour: Vegetation **Opening Blockage:** 0%

Cause of blockage: Other - none Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns Emergency Repair Required?: No

Overall Risk: Low

Comments: Some riprap present but not complete. No wingwalls present.

Crossing ID: WC_0356

NSWA Sturgeon River Watercourse Assessment





Photo No.: Photos-20180516-200042.jpg Description: Upstream



Photo No.: Photos-20180516-200102.jpg Description: Inlet



Photo No.: Photos-20180516-200142.jpg Description: Downstream



Photo No.: Photos-20180516-200201.jpg Description: Outlet



Inspection Date: May 14, 2018
Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 12 | **Easting:** 306,549 | **Northing:** 5,955,875

Stream Classification: Fluvial (Permanent - Large)
Bankfull Width: 10m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Steel

Total Deck Length: 24 m

Deck Width (Number of Lanes): 2 Decking Material: Concrete Decking Pattern: Closed

Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Steel Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath **Wingwall Functioning?:** Yes - in good condition and no materials eroding from underneath

Armour: Riprap

Opening Blockage: <10%

Cause of blockage: Organic debris Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns Emergency Repair Required?: No

Overall Risk: Low

Comments: Build up of organic debris on abutment pilings.









Photo No.: Photos-20180514-213844.jpg Description: Inlet



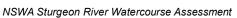
Photo No.: Photos-20180514-213929.jpg Description: Downstream



Photo No.: Photos-20180514-213953.jpg Description: Outlet



Photo No.: Photos-20180514-214037.jpg Description: Debris build up







Inspection Date: May 18, 2018 Watercourse Name: Carrot Creek

GPS Co-ordinates:

UTM: 12 | Easting: 324,146 | Northing: 5,953,573

Stream Classification: Fluvial (Permanent - Small)
Bankfull Width: 4m (Estimated to Nearest Metre)

Crossing Type: Culvert - Multiple Culvert(s) Diameter: 1) 1.5 m

2) 1.5 m

Erosion at Site: No Structural Problems: None

Greater than 10% of the culvert diameter blocked by debris?: No Substrate in Culvert?: Unknown Substrate Type: unknown

For what length of culvert?: unknown What proportion has backwater?: 75% Culvert Slope: Level and Uniform

Outlet Gap: none Embedded?: No

Pool Depth: none Scour pool apparent?: No

Fish Passage Assessment: No Concerns Emergency Repair Required?: No

Overall Risk: Low

Comments: Creek follows ditch downstream. Upstream comes into contact with culvert at an angle, some

pooling noted.







Photo No.: Photos-20180518-165629.jpg Description: Upstream



Photo No.: Photos-20180518-165658.jpg Description: Inlet



Photo No.: Photos-20180518-165751.jpg Description: Downstream



Photo No.: Photos-20180518-165807.jpg Description: Culvert 1 - Outlet



Photo No.: Photos-20180518-165830.jpg Description: Culvert 2 - Outlet



Photo No.: Photos-20180518-165939.jpg
Description: Culvert downstream from farm access road 20m downstream







Inspection Date: May 11, 2018 **Watercourse Name:** Sturgeon River

GPS Co-ordinates

UTM: 11 | **Easting:** 679,848 | **Northing:** 5,955,803

Stream Classification: Fluvial (Permanent - Large)
Bankfull Width: 10m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: Yes Erosion Location (Inlet or Outlet): Both

Erosion Source: Fill Slope

Erosion Extent: Low Total Erosion Area: 6 m²

Most Common Bridge Substructure Material: Timber

Total Deck Length: 16 m

Deck Width (Number of Lanes): 1

Decking Material: Concrete

Decking Pattern: Open

Curb Type: Concrete

Road Surface Material: Gravel Abutment Type: Log Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath **Wingwall Functioning?:** Yes - in good condition and no materials eroding from underneath

Armour: None

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: Yes, damaged guardrail

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns Emergency Repair Required?: No

Overall Risk: Low

Comments: Fill slope erosion noted due to no armour present.





Photo No.: Photos-20180511-191217.jpg Description: Downstream



Photo No.: Photos-20180511-191228.jpg Description: Upstream



Photo No.: Photos-20180511-191249.jpg Description: Deck



Photo No.: Photos-20180511-191311.jpg Description: Inlet



Photo No.: Photos-20180511-191426.jpg Description: Outlet





Inspection Date: May 11, 2018 Watercourse Name:Sturgeon River

GPS Co-ordinates:

UTM: 11 | **Easting:** 679,315 | **Northing:** 5,955,528

Stream Classification: Fluvial (Permanent - Large)
Bankfull Width: 10m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Concrete

Total Deck Length: 20 m

Deck Width (Number of Lanes): 2 Decking Material: Concrete Decking Pattern: Closed Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Concrete Blocks

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: None present

Armour: Riprap
Opening Blockage: 0%

Cause of blockage: Other - none Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: Some Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: Beaver dam located 125m upstream from bridge. 25m upstream from CN bridge. dam sitting at 1m high. flow going over top

of dam. Rip rap redone on south end of inlet

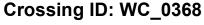






Photo No.: Photos-20180511-184919.jpg Description: Inlet



Photo No.: Photos-20180511-184956.jpg Description: Upstream



Photo No.: Photos-20180511-185105.jpg Description: Downstream



Photo No.: Photos-20180511-185132.jpg Description: Outlet



Inspection Date: May 11, 2018
Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 11 | **Easting:** 679,293 | **Northing:** 5,955,504

Stream Classification: Fluvial (Permanent - Large)
Bankfull Width: 10m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Concrete

Total Deck Length: 20 m

Deck Width (Number of Lanes): 2
Decking Material: Concrete
Decking Pattern: Closed
Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Concrete Blocks

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: None present

Armour: Riprap
Opening Blockage: 0%

Cause of blockage: Other - none Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: Some Concerns

Emergency Repair Required?: No

Overall Risk: Low

Comments: beaver dam located 75m upstream, upstream of CN bridge. channel thins through CN bridge then widens under highway

bridge

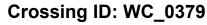






Photo No.: Photos-20180511-183912.jpg Description: Upstream



Photo No.: Photos-20180511-183939.jpg Description: Inlet



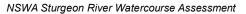
Photo No.: Photos-20180511-184027.jpg Description: Beaver dam upstream



Photo No.: Photos-20180511-184145.jpg Description: Downstream



Photo No.: Photos-20180511-184158.jpg Description: Outlet







Inspection Date: May 11, 2018
Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 11 | **Easting:** 689,647 | **Northing:** 5,956,031

Stream Classification: Fluvial (Permanent - Large)
Bankfull Width: 6m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Timber

Total Deck Length: 16 m

Deck Width (Number of Lanes): 1
Decking Material: Concrete
Decking Pattern: Open
Curb Type: Concrete

Road Surface Material: Gravel Abutment Type: Log Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath **Wingwall Functioning?:** Yes - in good condition and no materials eroding from underneath

Armour: None

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: Yes, damaged guardrail

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns Emergency Repair Required?: No

Overall Risk: Low

Comments: Bridge is at capacity for water level, hard to determine integrity of structure.

Noted to find 2 dead adult foxes near waters edge





Photo No.: Photos-20180511-211227.jpg Description: Downstream



Photo No.: Photos-20180511-211255.jpg Description: Upstream



Photo No.: Photos-20180511-211314.jpg Description: Deck



Photo No.: Photos-20180511-211351.jpg Description: Inlet



Photo No.: Photos-20180511-211457.jpg Description: Outlet





Inspection Date: May 11, 2018 Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 11 | **Easting:** 678,900 | **Northing:** 5,955,295

Stream Classification: Fluvial (Permanent - Large)
Bankfull Width: 6m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: Potential Erosion Location (Inlet or Outlet): Both

Erosion Source: Bank Slump

Erosion Extent: Low Total Erosion Area: 20 m²

Most Common Bridge Substructure Material: Timber

Total Deck Length: 7 m

Deck Width (Number of Lanes): 1

Decking Material: Wood **Decking Pattern:** Open

Curb Type: None - There is no curb, or the curb pattern has openings

Road Surface Material: Gravel Abutment Type: Log Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath **Wingwall Functioning?:** Yes - in good condition and no materials eroding from underneath

Armour: None

Opening Blockage: 0%

Cause of blockage: Other - none Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns Emergency Repair Required?: No

Overall Risk: Low

Comments: steep bank slope from road near wing walls. 45 degree angle down, it's vegetated.

Crossing ID: WC_0382

ENVIRONMENTAL



Photo No.: Photos-20180511-180920.jpg Description: Upstream



Photo No.: Photos-20180511-181011.jpg Description: Inlet



Photo No.: Photos-20180511-181053.jpg Description: Downstream



Photo No.: Photos-20180511-181125.jpg Description: Outlet



Photo No.: Photos-20180511-181206.jpg Description: Deck



Photo No.: Photos-20180511-181239.jpg Description: Possible erosion from road to bank







Inspection Date: May 16, 2018

Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 12 | **Easting:** 315,354 | **Northing:** 5,952,380

Stream Classification: Fluvial (Permanent - Large)
Bankfull Width: 12m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Steel

Total Deck Length: 36 m

Deck Width (Number of Lanes): 1
Decking Material: Concrete
Decking Pattern: Closed
Curb Type: Concrete

Road Surface Material: Gravel Abutment Type: Steel Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: None present

Armour: Other - steel pilings with steel sheets horizontally between them

Opening Blockage: 0%

Cause of blockage: Other - none Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns Emergency Repair Required?: No

Overall Risk: Low

Comments: Possible erosion control present at bank level. Water can still get behind steel

pilings and fill slope.







Photo No.: Photos-20180516-202230.jpg Description: Deck



Photo No.: Photos-20180516-202305.jpg Description: Upstream



Photo No.: Photos-20180516-202328.jpg Description: Downstream



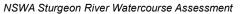
Photo No.: Photos-20180516-202524.jpg Description: Outlet



Photo No.: Photos-20180516-202538.jpg Description: Erosion control?



Photo No.: Photos-20180516-202731.jpg Description: Inlet







InspectionDate:May18,2018WatercourseName:Sturgeon River

GPS Co-ordinates:

UTM: 12 | **Easting:** 330,389 | **Northing:** 5,951,641

Stream Classification: Fluvial (Permanent - Large)
Bankfull Width: 10m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Concrete

Total Deck Length: 40 m

Deck Width (Number of Lanes): 2 Decking Material: Concrete Decking Pattern: Closed Curb Type: Concrete

Road Surface Material: Other - pavement **Abutment Type:** Concrete Blocks

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath **Wingwall Functioning?:** Yes - in good condition and no materials eroding from underneath

Armour: None

Opening Blockage: 0%

Cause of blockage: Other - none Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns Emergency Repair Required?: No

Overall Risk: Low

Comments: Area below walking path is grass vegetated. This could lead to erosional issues.





Photo No.: Photos-20180518-145713.jpg Description: Upstream



Photo No.: Photos-20180518-145736.jpg Description: Inlet



Photo No.: Photos-20180518-145814.jpg Description: Outlet



Photo No.: Photos-20180518-145845.jpg Description: Downstream



Photo No.: Photos-20180518-145855.jpg Description: Downstream



Photo No.: Photos-20180518-150002.jpg
Description: Areas upstream and downstream have small flood plains that are flooded







Inspection Date: May 16, 2018 Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 12 | **Easting**: 317,362 | **Northing**: 5,950,071

Stream Classification: Fluvial (Permanent - Large)
Bankfull Width: 12m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Steel

Total Deck Length: 30 m

Deck Width (Number of Lanes): 1
Decking Material: Concrete
Decking Pattern: Closed
Curb Type: Concrete

Road Surface Material: Gravel Abutment Type: Steel Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath

Wingwall Functioning?: None present

Armour: Other - steel walls but none on fill slope

Opening Blockage: 0%

Cause of blockage: Other - none Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns Emergency Repair Required?: No

Overall Risk: Low

Comments: river and ice barges caused flooding across flood plain this past spring says

landowner. old bridge abutments still in channel but lower than water level





Photo No.: Photos-20180516-204223.jpg Description: Deck



Description: Upstream



Photo No.: Photos-20180516-204330.jpg Description: Downstream



Photo No.: Photos-20180516-204414.jpg Description: Outlet



Photo No.: Photos-20180516-204542.jpg Description: Inlet





Inspection Date: May 14, 2018 Watercourse Name: Kilini Creek

GPS Co-ordinates:

UTM: 11 | **Easting:** 689,193 | **Northing:** 5,950,850

Stream Classification: Fluvial (Permanent - Small)
Bankfull Width: 5m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: No

Most Common Bridge Substructure Material: Timber

Total Deck Length: 5 m

Deck Width (Number of Lanes): 1
Decking Material: Concrete
Decking Pattern: Open
Curb Type: Concrete

Road Surface Material: Gravel Abutment Type: Log Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath **Wingwall Functioning?:** Yes - in good condition and no materials eroding from underneath

Armour: None

Opening Blockage: 0%

Cause of blockage: Organic debris Structural Problems: None

Bridge Signs: No, sign is not present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns Emergency Repair Required?: No

Overall Risk: Low

Comments: Stream converges at bridge from 2 different directions. Bridge is at stream capacity, unable to determine structural integrity. Some organic debris blockage.





Photo No.: Photos-20180514-171129.jpg Description: Upstream south



Photo No.: Photos-20180514-171153.jpg Description: Upstream - Southwest



Photo No.: Photos-20180514-171213.jpg Description: Deck



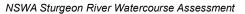
Photo No.: Photos-20180514-171231.jpg Description: Downstream



Photo No.: Photos-20180514-171311.jpg Description: Outlet



Photo No.: Photos-20180514-171424.jpg Description: Inlet







Inspection Date: May 11, 2018 Watercourse Name: Sturgeon River

GPS Co-ordinates:

UTM: 11 | **Easting:** 659,053 | **Northing:** 5,951,080

Stream Classification: Fluvial (Permanent - Large)
Bankfull Width: 12m (Estimated to Nearest Metre)

Crossing Type: Bridge - Permanent

Erosion at Site: Yes Erosion Location (Inlet or Outlet): Both

Erosion Source: Fill Slope,Other (snowmobile trail)
Erosion Extent: Low Total Erosion Area: 17 m²

Most Common Bridge Substructure Material: Timber

Total Deck Length: 13 m

Deck Width (Number of Lanes): 1

Decking Material: Concrete

Decking Pattern: Closed

Curb Type: Concrete

Road Surface Material: Other - pavement

Abutment Type: Log Pilings

Abutment Functioning?: Yes - in good condition and no materials eroding from underneath **Wingwall Functioning?:** Yes - in good condition and no materials eroding from underneath

Armour: None

Opening Blockage: 0%

Cause of blockage: Other - none

Structural Problems: Yes, damaged guardrail

Bridge Signs: Yes, sign is present

Grader markers or bridge reflectors?: Yes, sign is present

Fish Passage Assessment: No Concerns Emergency Repair Required?: No

Overall Risk: Low

Comments: Upstream has defined channel, downstream dissipates into wetland with no defined channel noted. Snowmobile trail noted with signage under bridge and spot to leave ice and travel along the ditch. Area has exposed ground.



