HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Culvert	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 600
ABL ID: ABL_1	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.3 x 3.0		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 14		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 177.09	U/S Obvert Elev. (m):178.39	Additional Information:
Location (Road Name/Intersection): Church St	D/S Invert Elev. (m): 177.06	D/S Obvert Elev. (m): 178.36	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 45		
	Depth of Siltation (mm): 25		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

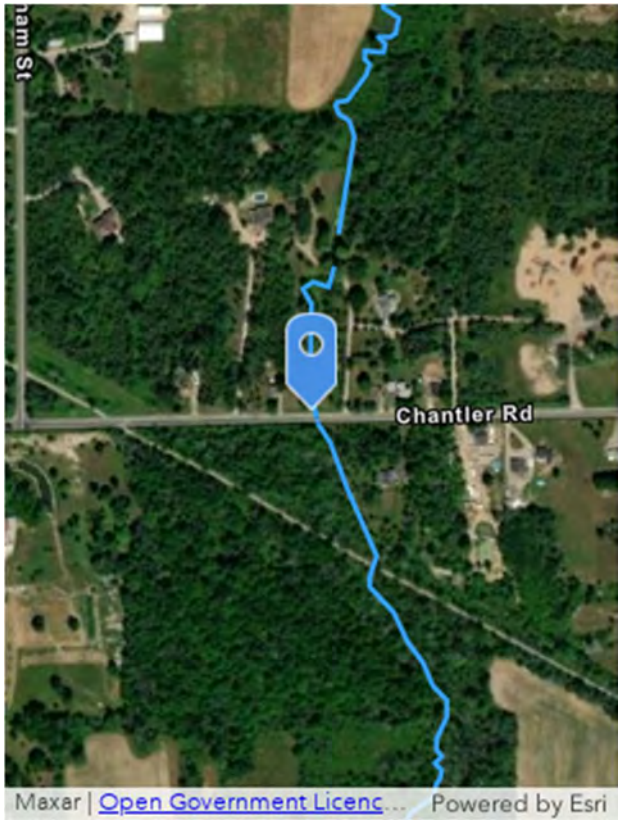
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Road Bridge, Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 200
ABL ID: ABL_3	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.9 x 2.6		Upstream Erosion (Y/N): Y
Subcatchment Name:	Length (m): 14.1		Downstream Erosion (Y/N): Y
Municipality:	U/S Invert Elev. (m): 176.20	U/S Obvert Elev. (m): 178.10	Additional Information: left cell only carrying flow from ditch
Location (Road Name/Intersection): Chantler Rd	D/S Invert Elev. (m): 176.08	D/S Obvert Elev. (m): 177.98	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 10		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

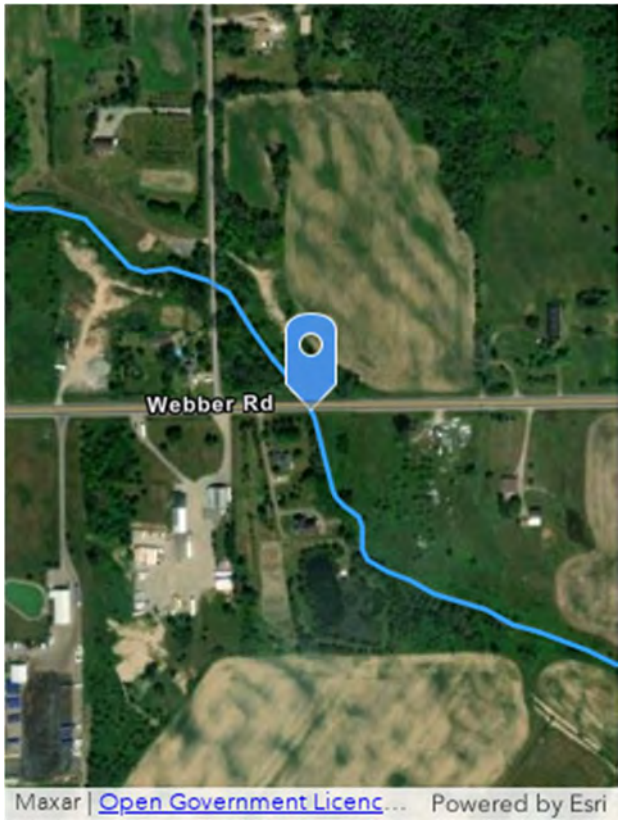
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Road Bridge	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT,MH	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 300
ABL ID: ABL_4	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 3.2 x 6.8		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 19.4		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 172.80	U/S Obvert Elev. (m): 176.00	Additional Information:
Location (Road Name/Intersection): Webber Road	D/S Invert Elev. (m): 172.94	D/S Obvert Elev. (m): 176.14	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 25		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

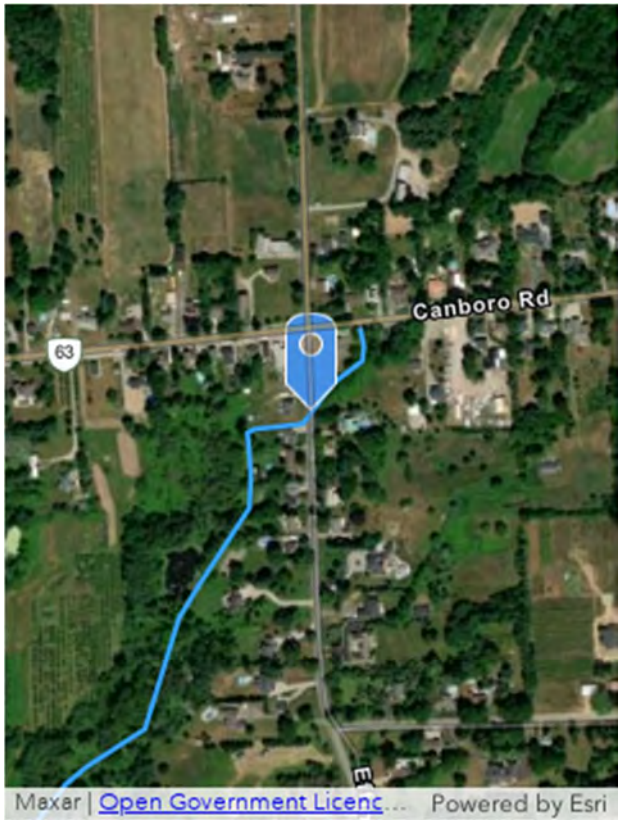
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 10
ABL ID: ABL_5	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 0.66 x 1.4		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 17		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 203.42	U/S Obvert Elev. (m):204.07	Additional Information: Gabion baskets and private culvert DS
Location (Road Name/Intersection): Effingham St	D/S Invert Elev. (m): 203.35	D/S Obvert Elev. (m): 204	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 45		
	Depth of Siltation (mm): 50		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

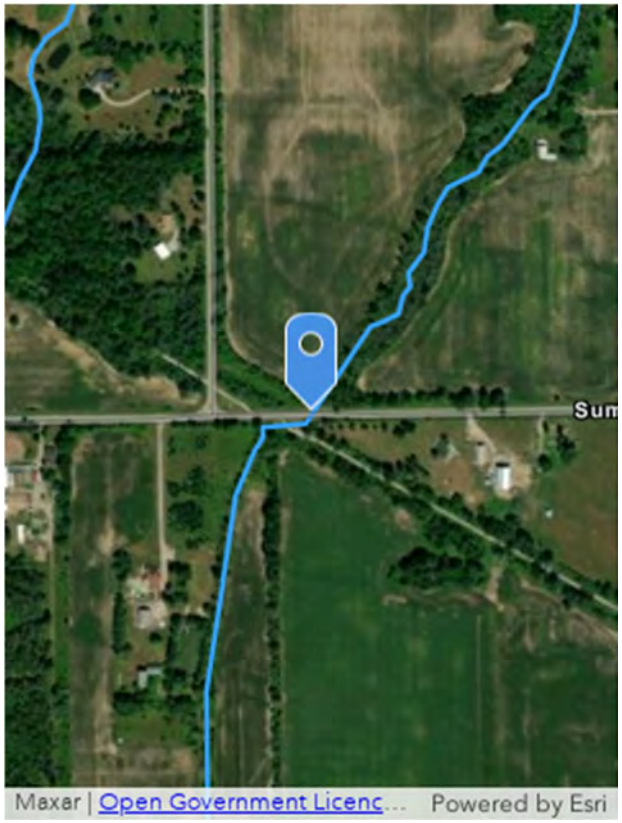
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Road Bridge	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 100
ABL ID: ABL_6	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.2 x 1.9		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 18.1		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 180.62	U/S Obvert Elev. (m): 181.82	Additional Information: Railway Trail crossing immediately appears to flow towards the structure. second trail crossing at roadway carries flow DS
Location (Road Name/Intersection): Sumbler Rd	D/S Invert Elev. (m): 180.57	D/S Obvert Elev. (m): 181.77	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 30		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

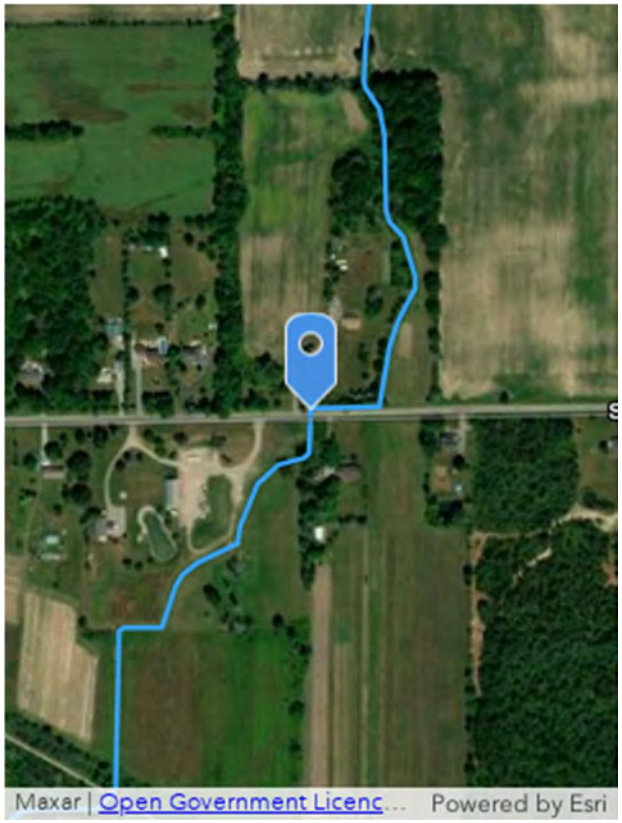
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 200
ABL ID: ABL_7	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.6 x 2.2		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 8.0		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 181.22	U/S Obvert Elev. (m): 182.82	Additional Information: Adjacent drains into US side of structure
Location (Road Name/Intersection): Sumbler Rd.	D/S Invert Elev. (m): 181.30	D/S Obvert Elev. (m): 181.90	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

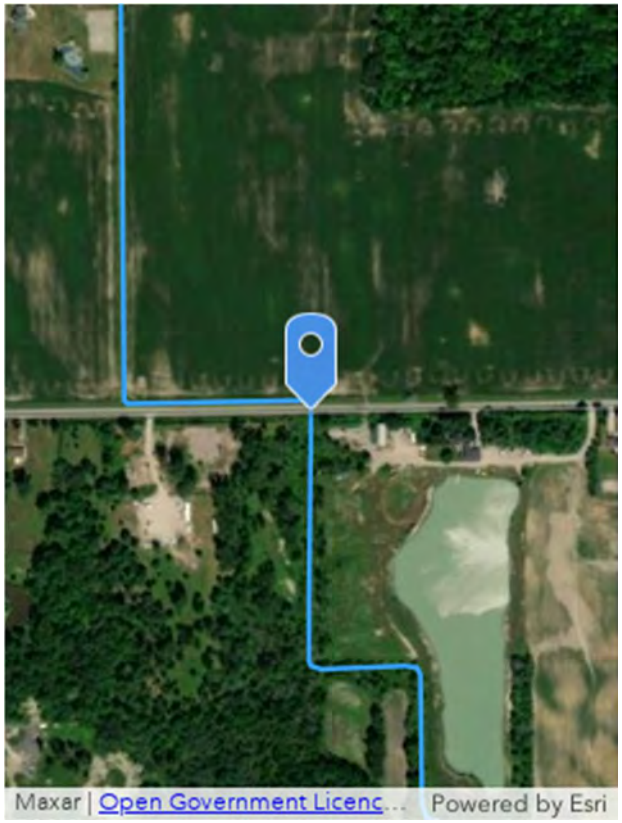
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Road Bridge, Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 230
ABL ID: ABL_8	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Choice 1	Height (m) x Width (m) or Diameter (m): 1.75 x 2.2		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 8.7		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 177.68	U/S Obvert Elev. (m): 179.43	Additional Information: DS end has been crushed
Location (Road Name/Intersection): Chantler Rd	D/S Invert Elev. (m): 177.58	D/S Obvert Elev. (m): 179.33	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

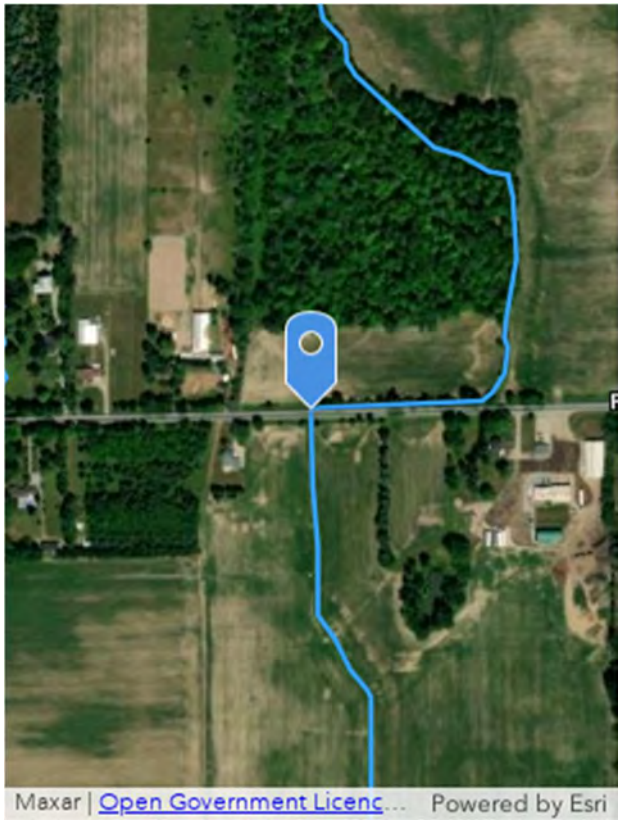
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 300
ABL ID: ABL_9	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.7 x 2.2		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 9.0		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 184.97	U/S Obvert Elev. (m): 186.67	Additional Information:
Location (Road Name/Intersection): Foss Rd	D/S Invert Elev. (m): 185	D/S Obvert Elev. (m): 186.7	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

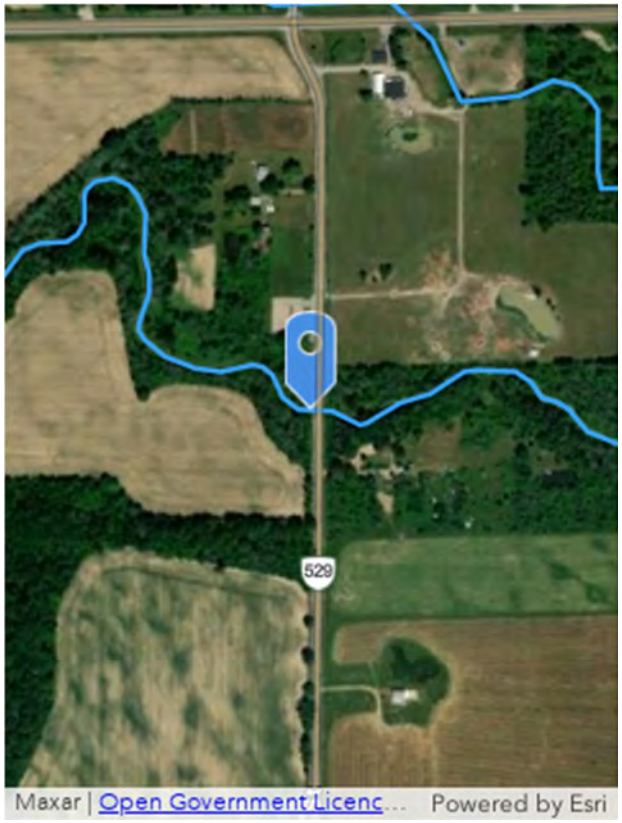
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Road Bridge	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 350
ABL ID: ABL_10	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 2.8 x 6.9		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 15.4		Downstream Erosion (Y/N): Y
Municipality:	U/S Invert Elev. (m): 172.12	U/S Obvert Elev. (m): 174.92	Additional Information: Very wide chsnnel with very slow flow. major slope/bank erosion on outside bend DS of structure
Location (Road Name/Intersection): Effingham St	D/S Invert Elev. (m): 172.05	D/S Obvert Elev. (m): 174.85	
	Inlet Type (Projecting/Mitered/Headwall): Wingwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

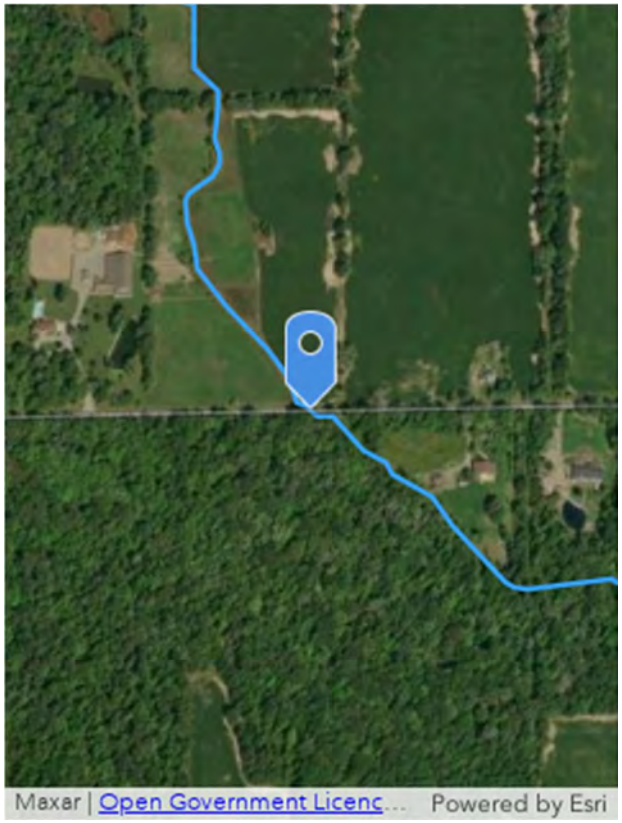
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Road Bridge, Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 130
ABL ID: ABL_11	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.2 x 1.7		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 15.8		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 177.87	U/S Obvert Elev. (m):179.07	Additional Information: Creek meanders away from road and into woodlot approx. 20m DS.
Location (Road Name/Intersection): Chantler Rd	D/S Invert Elev. (m): 177.67	D/S Obvert Elev. (m): 178.87	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 45		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

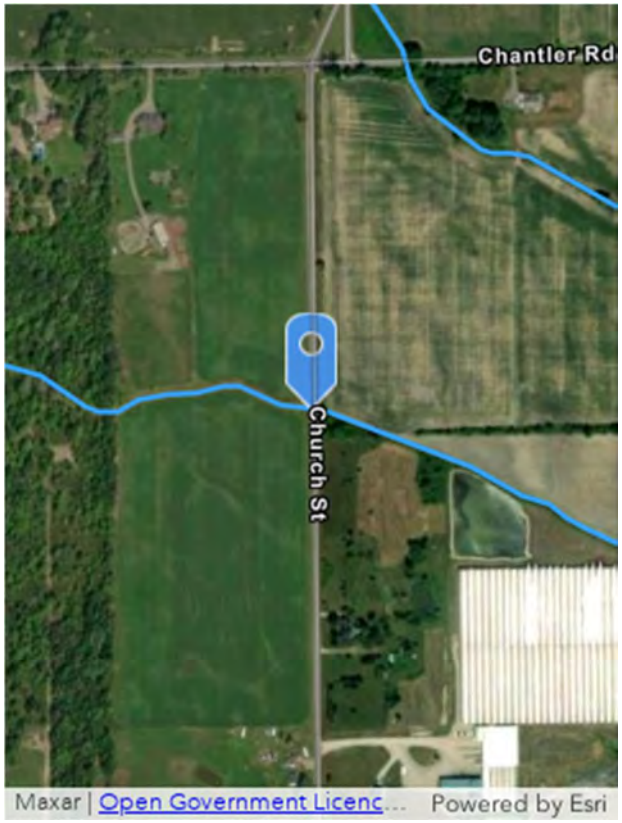
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Culvert	Shape: Rectangular	Flow Present (Y/N):
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 200
ABL ID: ABL_12	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.3 x 3		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 11.5		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 176.81	U/S Obvert Elev. (m): 178.11	Additional Information:
Location (Road Name/Intersection): Church St.	D/S Invert Elev. (m): 176.84	D/S Obvert Elev. (m): 178.14	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 25		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

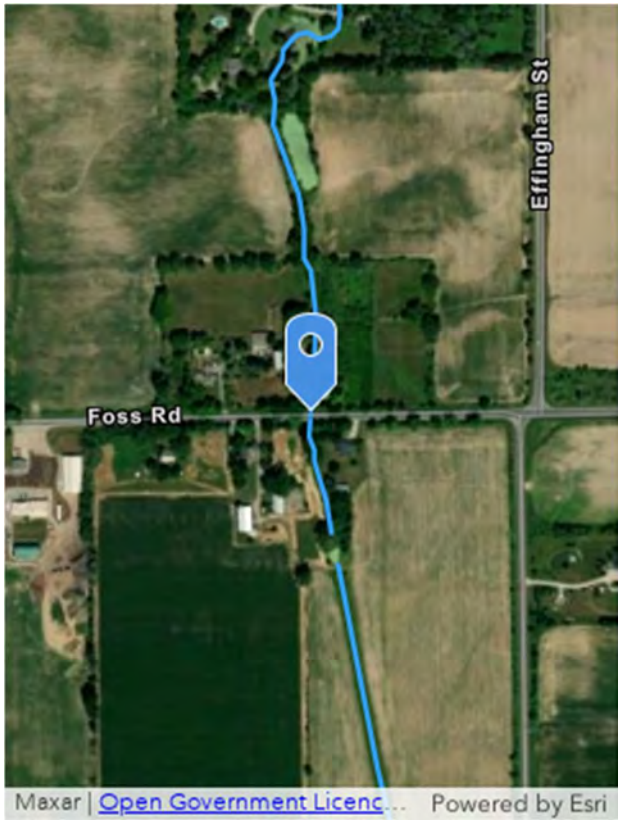
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 100
ABL ID: ABL_13	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.1 x 1.5		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 12.2		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 183.44	U/S Obvert Elev. (m):184.54	Additional Information: Adjacent offline pond drains into US side of structure
Location (Road Name/Intersection): Foss Rd	D/S Invert Elev. (m): 183.47	D/S Obvert Elev. (m): 184.57	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

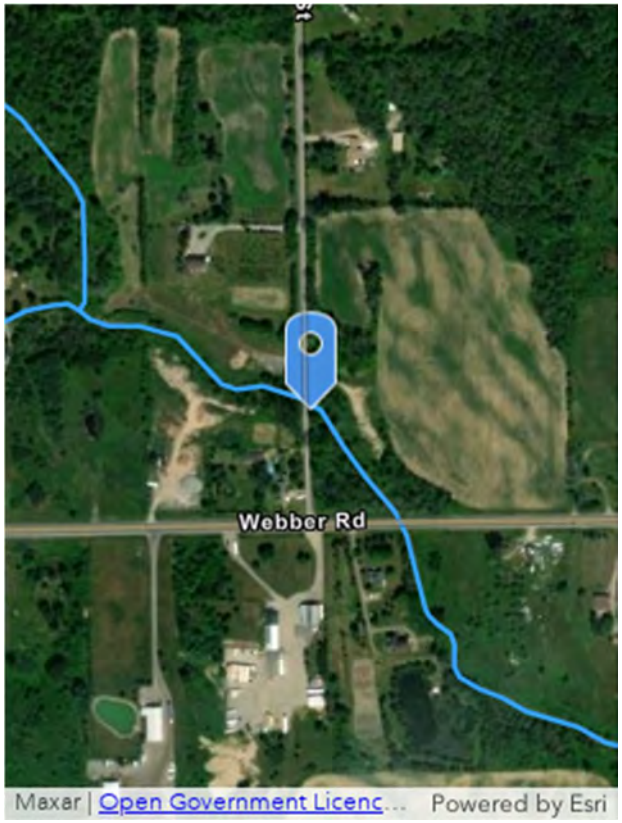
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Road Bridge, Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 3	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 400
ABL ID: ABL_14	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): x 3		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 25		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 172.83	U/S Obvert Elev. (m): 175.83	Additional Information:
Location (Road Name/Intersection): Poth St	D/S Invert Elev. (m): 172.75	D/S Obvert Elev. (m): 175.75	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 20		
	Depth of Siltation (mm): 10		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

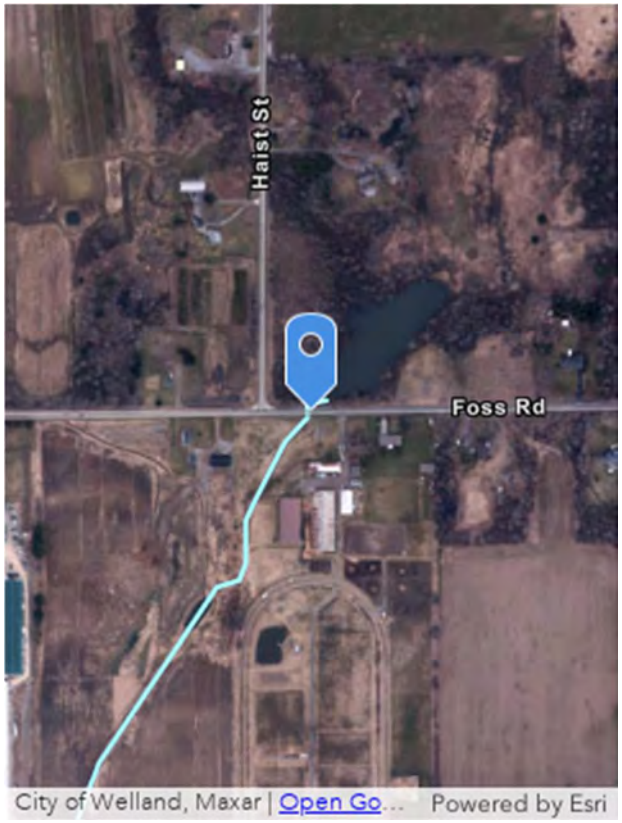
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HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/24/2023	Structure Type: Road Bridge, Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 200
ABL ID: ABL_15	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1 x 1.4		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m):		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m):	U/S Obvert Elev. (m):	Additional Information: Large pond 15m upstream of structure, upstream face has major damage
Location (Road Name/Intersection): Foss Rd	D/S Invert Elev. (m):	D/S Obvert Elev. (m):	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees):		
	Depth of Siltation (mm): 100		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

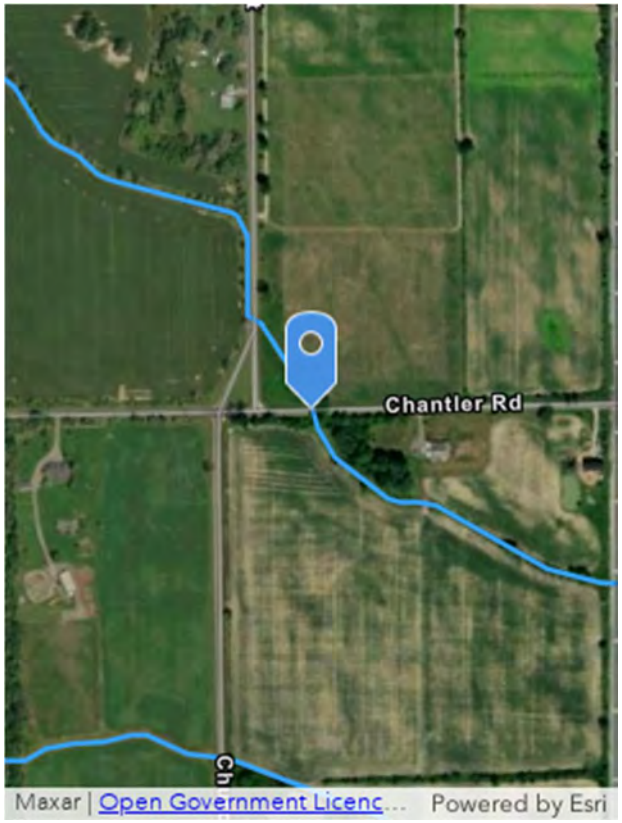
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 550
ABL ID: ABL_16	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): x 1.2		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 12.2		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 177.1	U/S Obvert Elev. (m): 178.3	Additional Information: second cell is 1.15m diameter. top of second cell is slightly crushed. Chantler ditchers drain to this structure from both directions. Significant pooling/backwatering through reach. small debris jam DS.
Location (Road Name/Intersection): Chantler Rd	D/S Invert Elev. (m): 177.03	D/S Obvert Elev. (m): 178.23	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

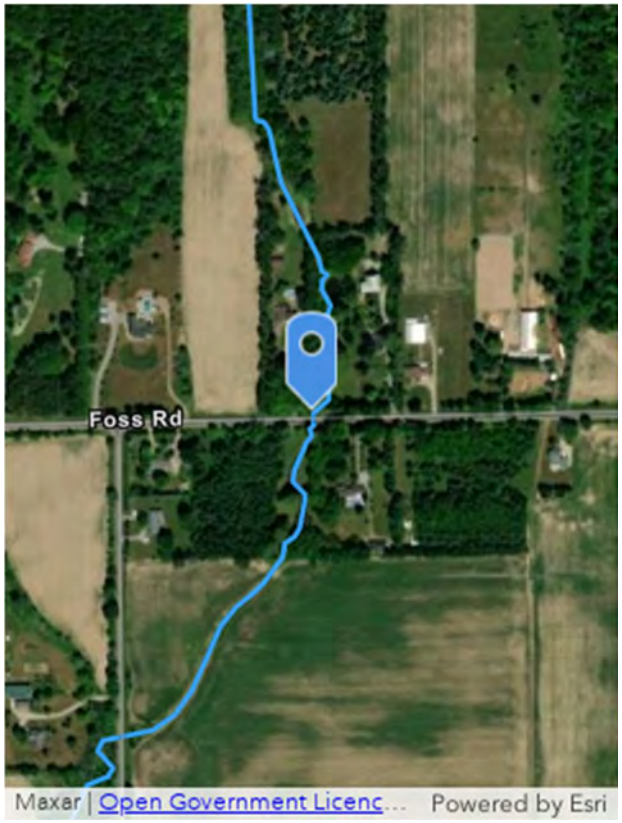
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HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 200
ABL ID: ABL_17	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 0.9 x 1.75		Upstream Erosion (Y/N): Y
Subcatchment Name:	Length (m): 12.5		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 184.62	U/S Obvert Elev. (m): 185.52	Additional Information: Concrete blocks on US are undermined. Multiple small crossings and heavy ponding DS.
Location (Road Name/Intersection): Foss Rd	D/S Invert Elev. (m): 184.64	D/S Obvert Elev. (m): 185.54	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

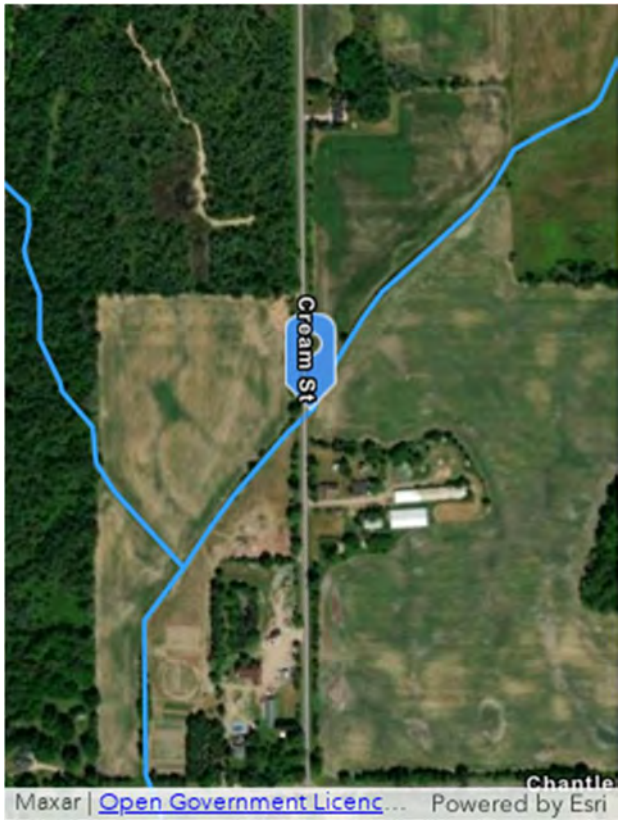
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Culvert	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 450
ABL ID: ABL_18	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.1 x 4.2		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 23.4		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 177.70	U/S Obvert Elev. (m): 178.80	Additional Information: low slope, standing water and backwatered ditches. shallow and wide channel, trees growing directly in channel DS
Location (Road Name/Intersection): Cream St	D/S Invert Elev. (m): 177.68	D/S Obvert Elev. (m): 178.78	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 45		
	Depth of Siltation (mm): 15		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

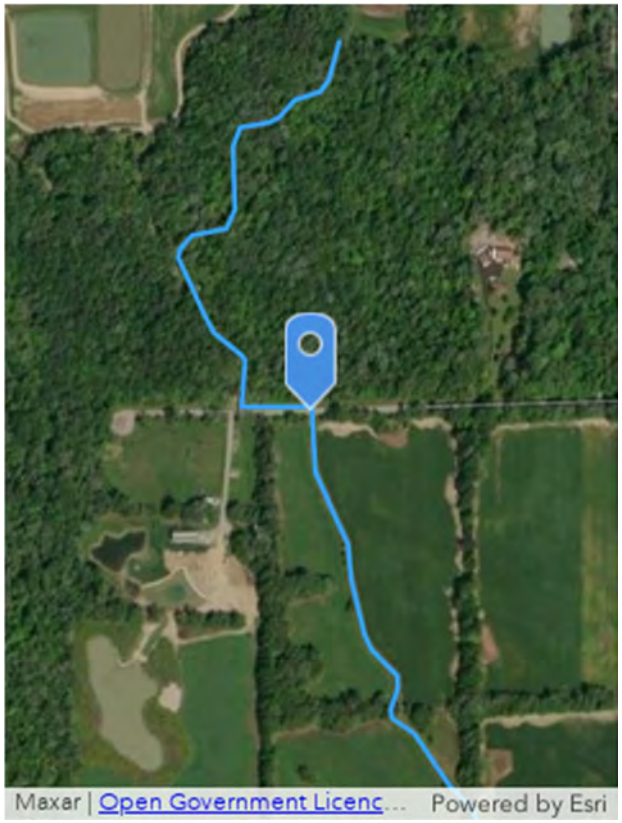
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 200
ABL ID: ABL_19	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): x 0.9		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 12.1		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 178.9	U/S Obvert Elev. (m): 179.8	Additional Information: Private bridge upstream crosses ditch only, creek meanders into wooded area just before it
Location (Road Name/Intersection): Sumbler Rd	D/S Invert Elev. (m): 178.86	D/S Obvert Elev. (m): 179.76	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees):		
	Depth of Siltation (mm): 40		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

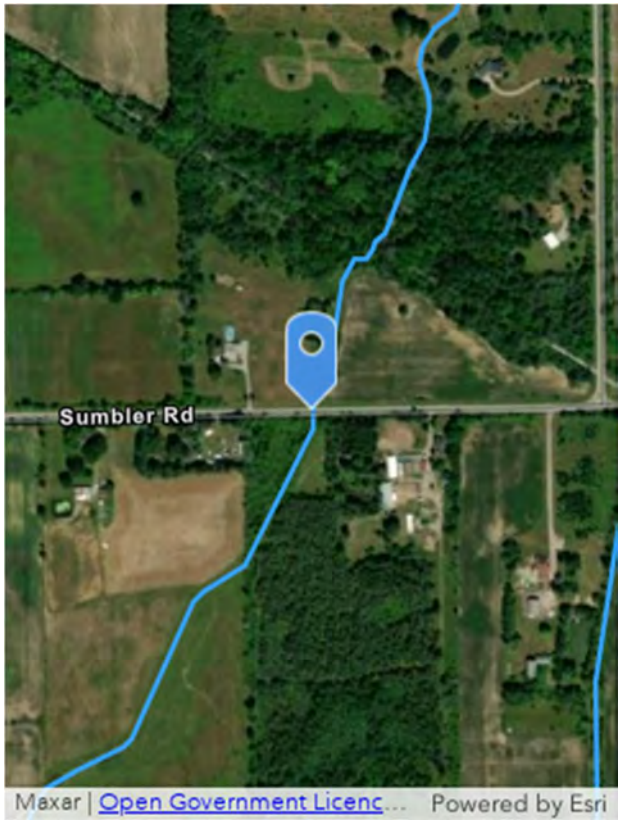
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 200
ABL ID: ABL_20	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 0.75 x 1.7		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 12.8		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 179.98	U/S Obvert Elev. (m): 180.73	Additional Information: Portion of upstream flownhas diverted through field(see photo), appears to branch off near the private pond approx. 45m upstream
Location (Road Name/Intersection): Sumbler Rd.	D/S Invert Elev. (m): 179.97	D/S Obvert Elev. (m): 180.72	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 300		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

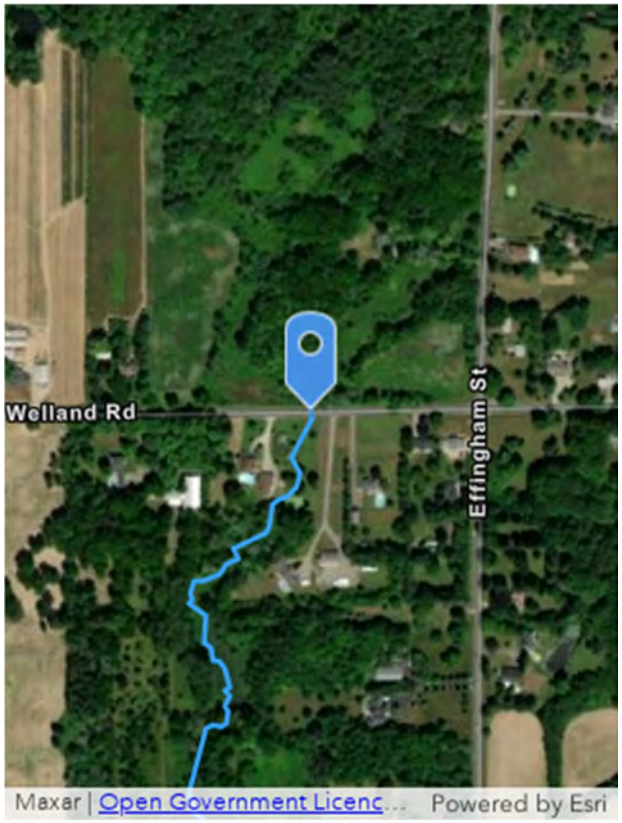
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Road Bridge, Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 150
ABL ID: ABL_21	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 0.75 x 1		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m):		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m):	U/S Obvert Elev. (m):	Additional Information: steep drop on DS sidw with riprap erosion control
Location (Road Name/Intersection): Welland Rd	D/S Invert Elev. (m):	D/S Obvert Elev. (m):	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees):		
	Depth of Siltation (mm): 200		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

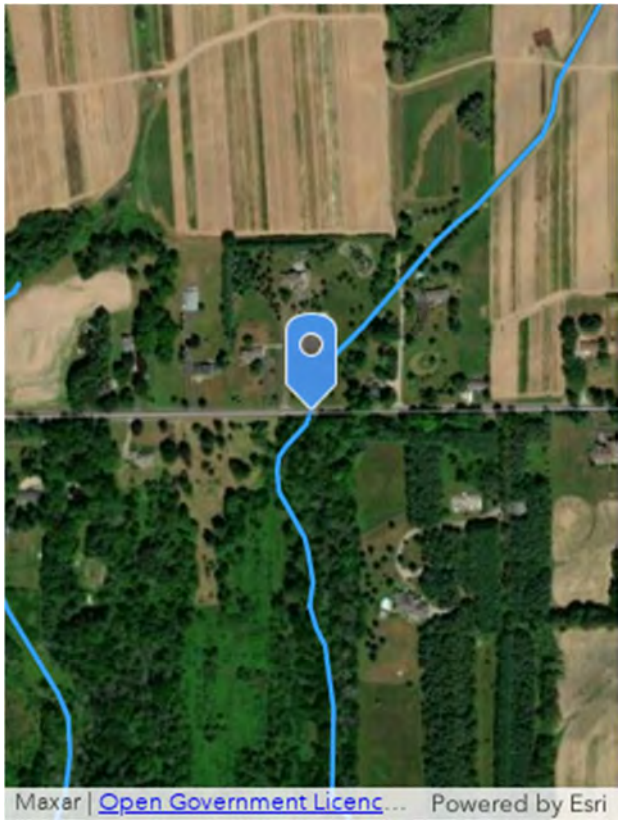
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 25
ABL ID: ABL_22	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): x 0.9		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 12.2		Downstream Erosion (Y/N): Y
Municipality:	U/S Invert Elev. (m): 189.85	U/S Obvert Elev. (m): 190.75	Additional Information: Scour pool DS, culverts perched approx 0.3m above WSE
Location (Road Name/Intersection): Welland Rd	D/S Invert Elev. (m): 189.77	D/S Obvert Elev. (m): 190.67	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 10		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

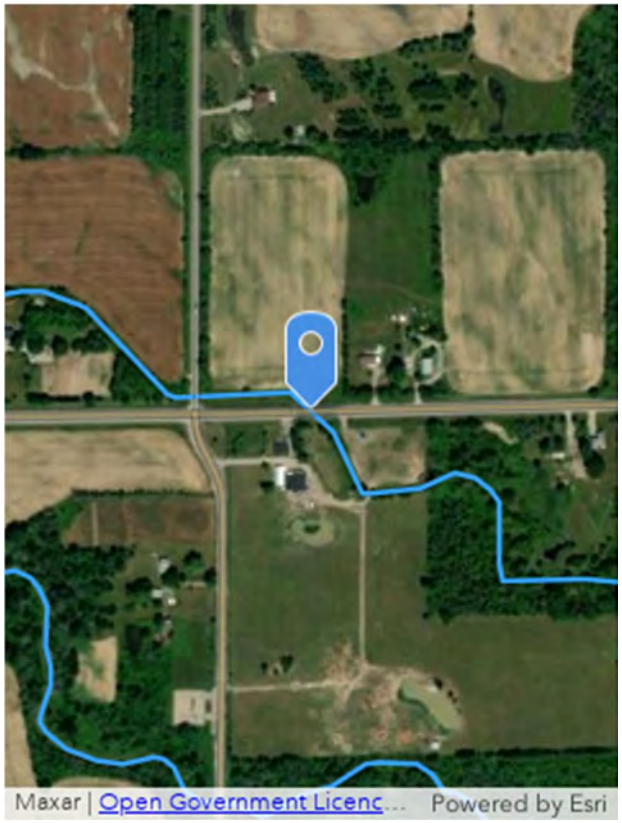
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Road Bridge, Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 250
ABL ID: ABL_23	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): x 2.4		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 42.7		Downstream Erosion (Y/N): Y
Municipality:	U/S Invert Elev. (m): 174.36	U/S Obvert Elev. (m): 176.76	Additional Information:
Location (Road Name/Intersection): Webber Rd	D/S Invert Elev. (m): 174.09	D/S Obvert Elev. (m): 176.49	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 45		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

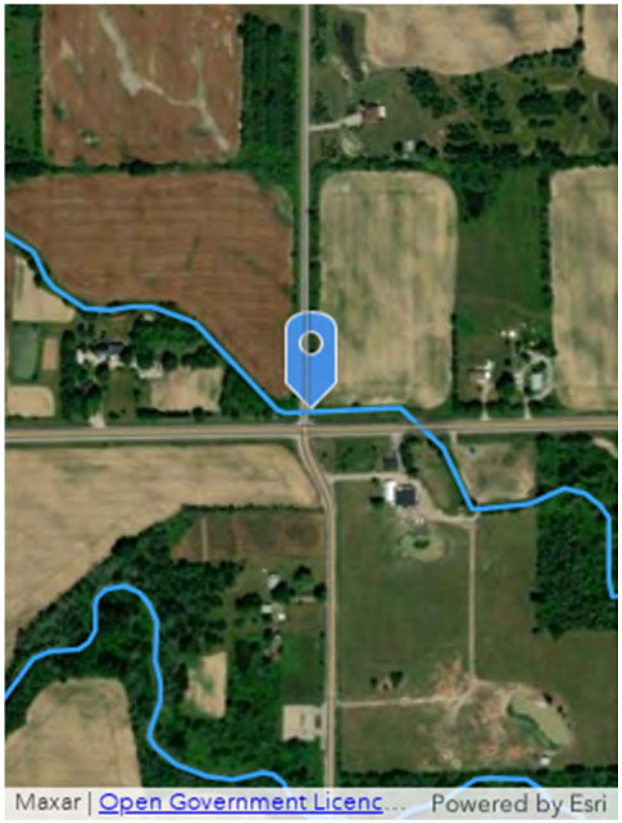
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Road Bridge, Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 150
ABL ID: ABL_24	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): x 1.7		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 21.1		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 174.6	U/S Obvert Elev. (m): 176.3	Additional Information: left carries flow
Location (Road Name/Intersection): Effingham St	D/S Invert Elev. (m): 174.5	D/S Obvert Elev. (m): 176.2	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 150		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

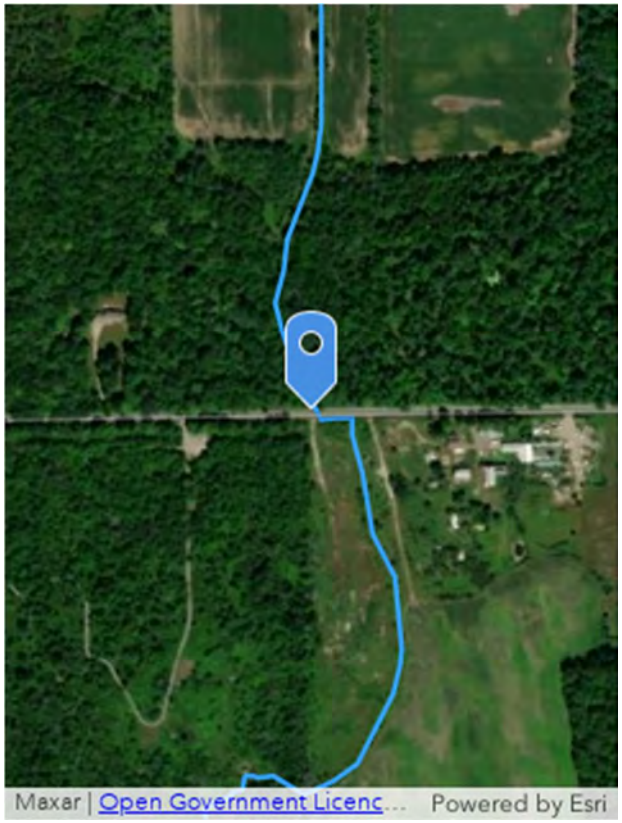
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Road Bridge, Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 450
ABL ID: ABL_25	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 0.95 x 1.8		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 15.4		Downstream Erosion (Y/N): Y
Municipality:	U/S Invert Elev. (m): 177.61	U/S Obvert Elev. (m): 178.56	Additional Information: DS outlets into sharp bend, causing bank/slope erosion
Location (Road Name/Intersection): Chantler Rd	D/S Invert Elev. (m): 177.52	D/S Obvert Elev. (m): 178.47	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 30		
	Depth of Siltation (mm): 10		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

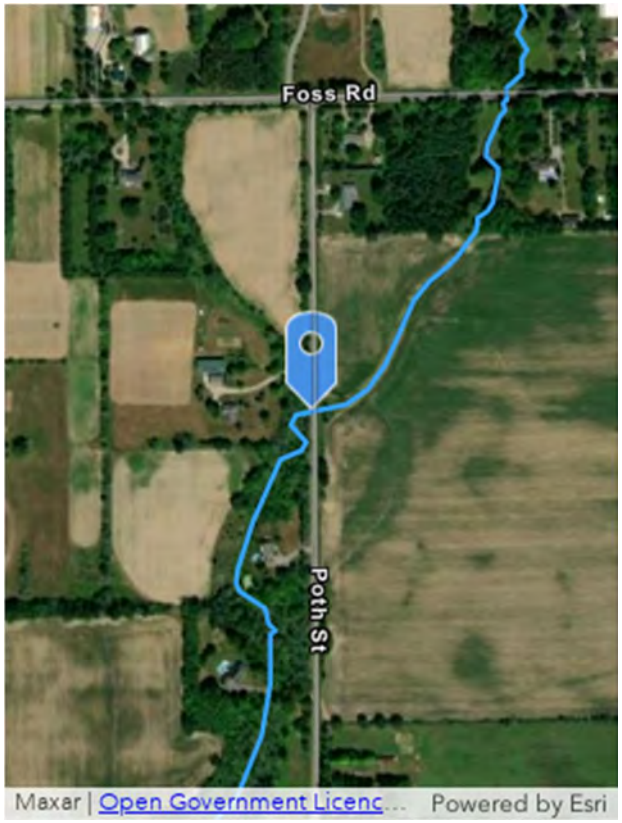
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 300
ABL ID: ABL_26	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 0.9		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 11.3		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 183.4	U/S Obvert Elev. (m): 184.3	Additional Information:
Location (Road Name/Intersection): Poth St.	D/S Invert Elev. (m): 183.34	D/S Obvert Elev. (m): 184.24	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 10		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

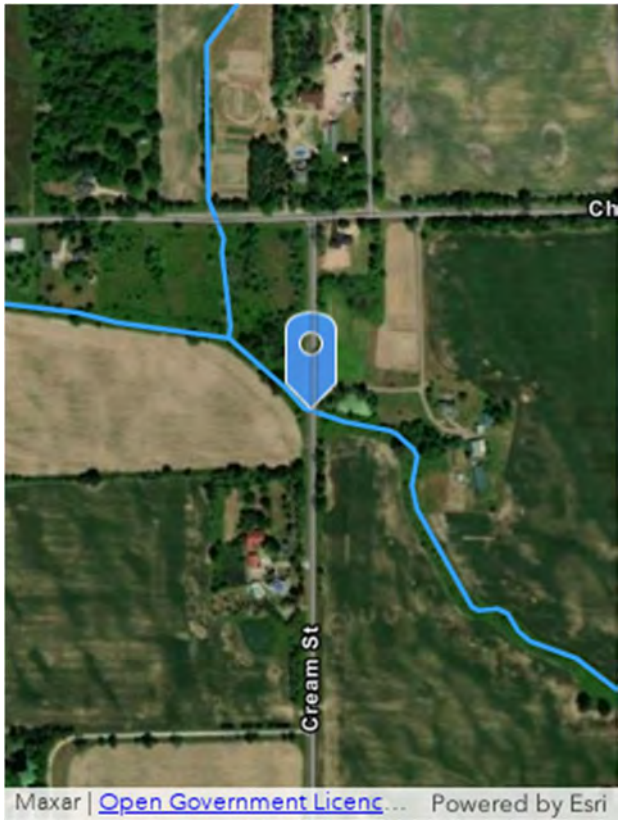
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Culvert	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 650
ABL ID: ABL_27	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 2.4 x 3.75		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 18.5		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 175.69	U/S Obvert Elev. (m): 178.09	Additional Information: upstream is backwatered, steep and fast flowing through structure. Exposed buried phone cable on DS side.
Location (Road Name/Intersection): Church St.	D/S Invert Elev. (m): 175.67	D/S Obvert Elev. (m): 178.07	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

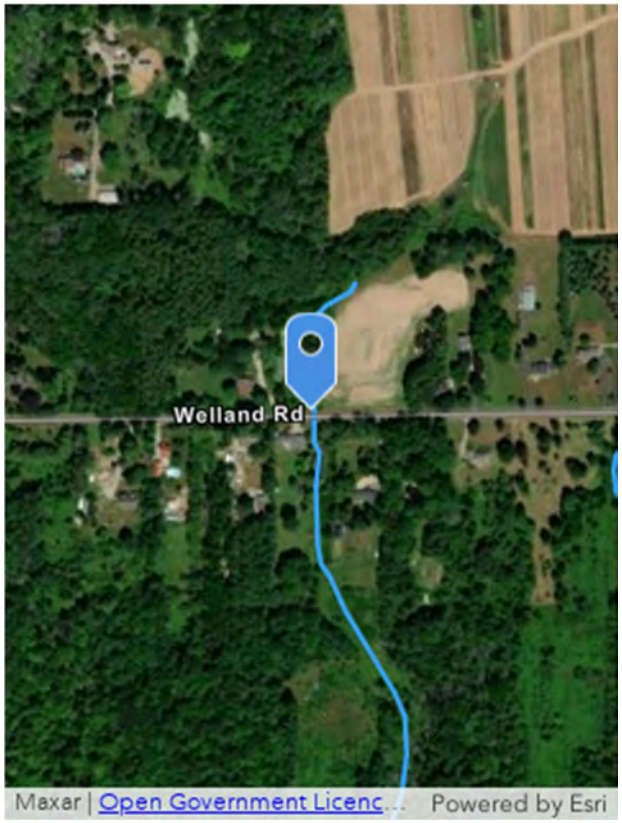
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 100
ABL ID: ABL_28	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): x 0.9		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 12.0		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 188.7	U/S Obvert Elev. (m): 189.6	Additional Information: US end damaged
Location (Road Name/Intersection): Welland Rd	D/S Invert Elev. (m): 188.47	D/S Obvert Elev. (m): 189.37	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

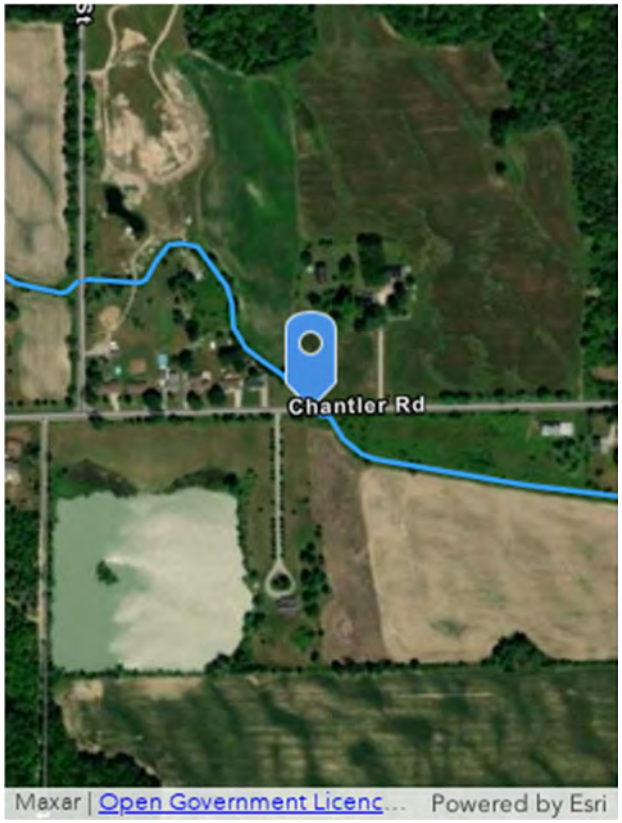
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Road Bridge, Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT ,CM	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 120
ABL ID: ABL_29	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.7 x 2.5		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 16.2		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 177.16	U/S Obvert Elev. (m): 178.86	Additional Information:
Location (Road Name/Intersection): Chantler Rd	D/S Invert Elev. (m): 177.06	D/S Obvert Elev. (m): 178.76	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 45		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

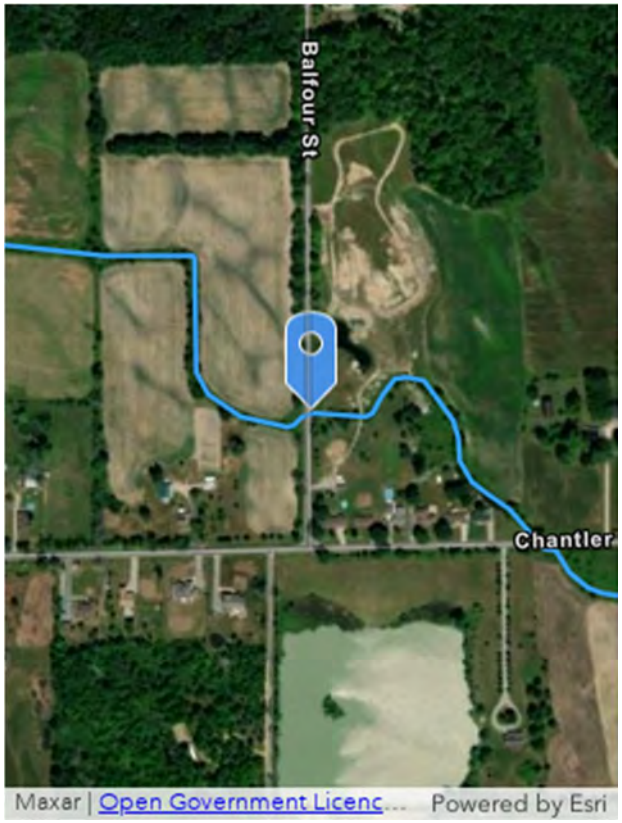
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 200
ABL ID: ABL_30	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.4 x 2		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 12.3		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 177.7	U/S Obvert Elev. (m): 179.1	Additional Information:
Location (Road Name/Intersection): Balfour St.	D/S Invert Elev. (m): 177.68	D/S Obvert Elev. (m): 179.08	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 50		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

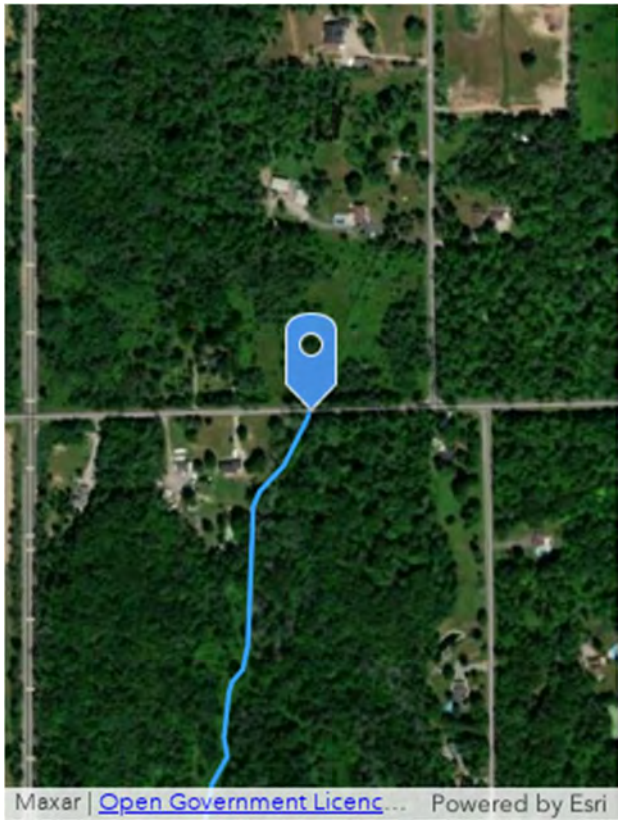
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Road Bridge, Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 200
ABL ID: ABL_31	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.2 x 1.7		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m):		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m):	U/S Obvert Elev. (m):	Additional Information: small debris jam immediately DS. Significant flow from both ditches on US side
Location (Road Name/Intersection): Sumbler Rd	D/S Invert Elev. (m):	D/S Obvert Elev. (m):	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees):		
	Depth of Siltation (mm): 15		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

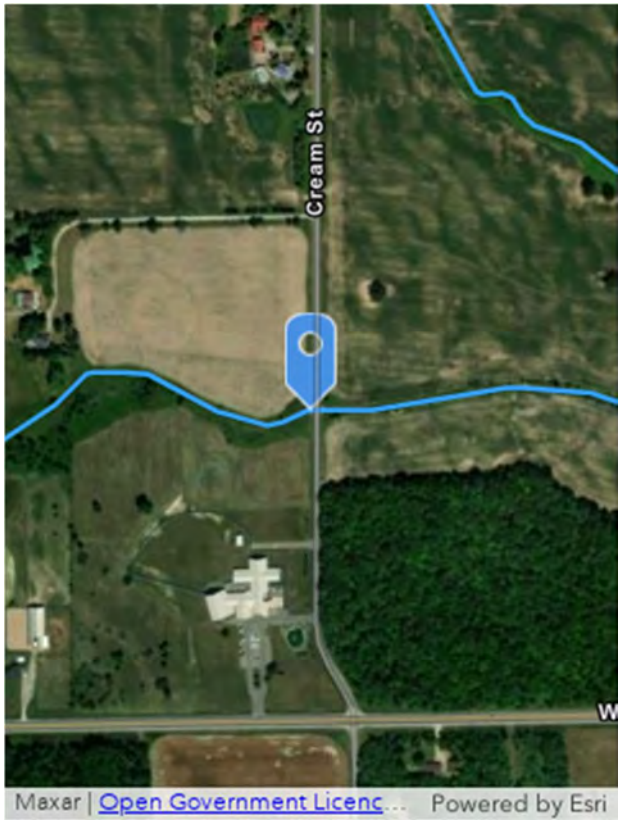
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Culvert	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 450
ABL ID: ABL_32	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 2.4 x 5.4		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 16.9		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 174.57	U/S Obvert Elev. (m): 176.97	Additional Information:
Location (Road Name/Intersection): Cream St	D/S Invert Elev. (m): 174.54	D/S Obvert Elev. (m): 176.94	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 100		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

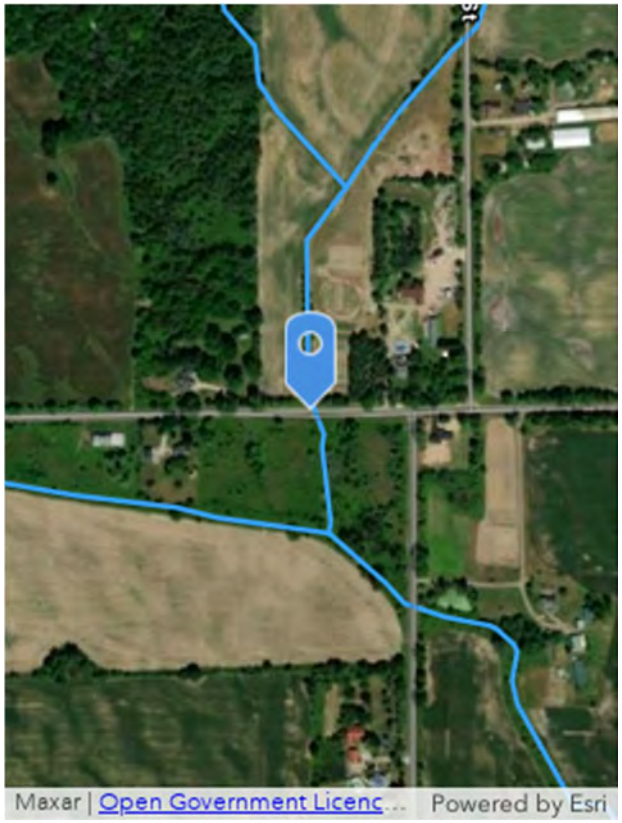
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HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Road Bridge, Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 200
ABL ID: ABL_33	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.6 x 2		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 13.2		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 176.69	U/S Obvert Elev. (m): 178.29	Additional Information:
Location (Road Name/Intersection): Chantler Rd	D/S Invert Elev. (m): 176.60	D/S Obvert Elev. (m): 178.2	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 15		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

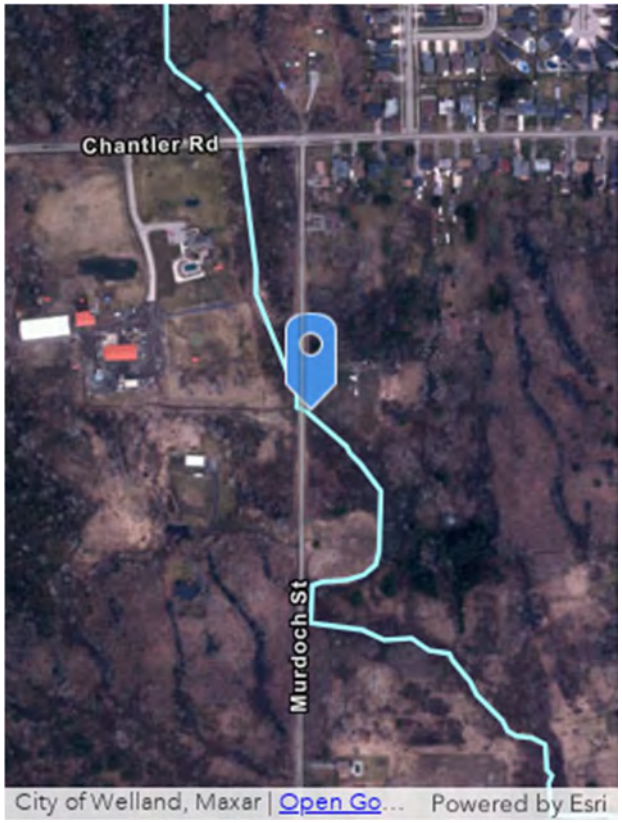
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/24/2023	Structure Type: Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 450
ABL ID: ABL_34	Material (Concrete/Steel): ABS plastic		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 0.45		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 12.1		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 178	U/S Obvert Elev. (m): 178.45	Additional Information: Water pooled on both ends. Signs on roadside state "water over road"
Location (Road Name/Intersection): Murdoch Rd	D/S Invert Elev. (m): 177.96	D/S Obvert Elev. (m): 178.41	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

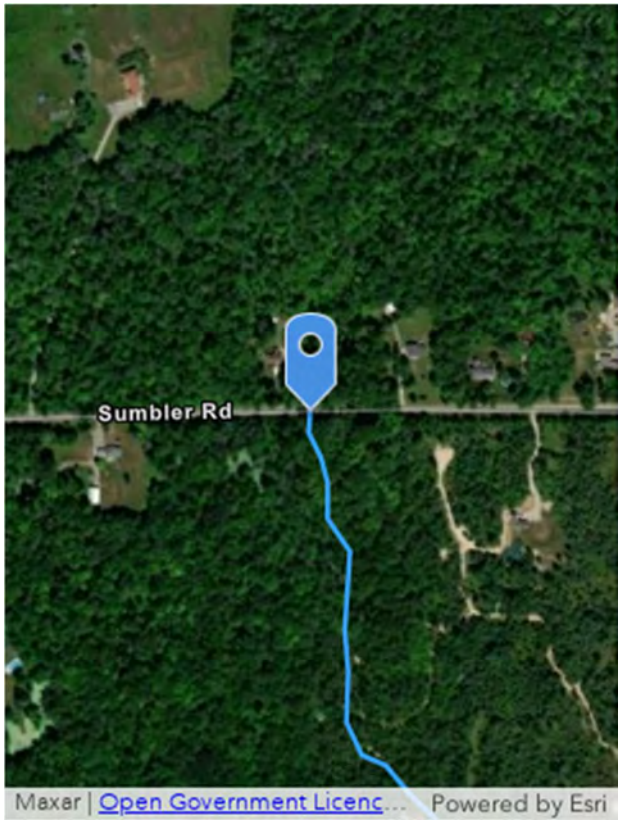
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Road Bridge, Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 100
ABL ID: ABL_35	Material (Concrete/Steel): ABS		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): x 0.53		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m):		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m):	U/S Obvert Elev. (m):	Additional Information: low slope and poor drainage. ditches slightly backwatered in both directions. Small pond on priv prop 10m US. Channel DS is wide and shallow
Location (Road Name/Intersection): Sumbler Rd	D/S Invert Elev. (m):	D/S Obvert Elev. (m):	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees):		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

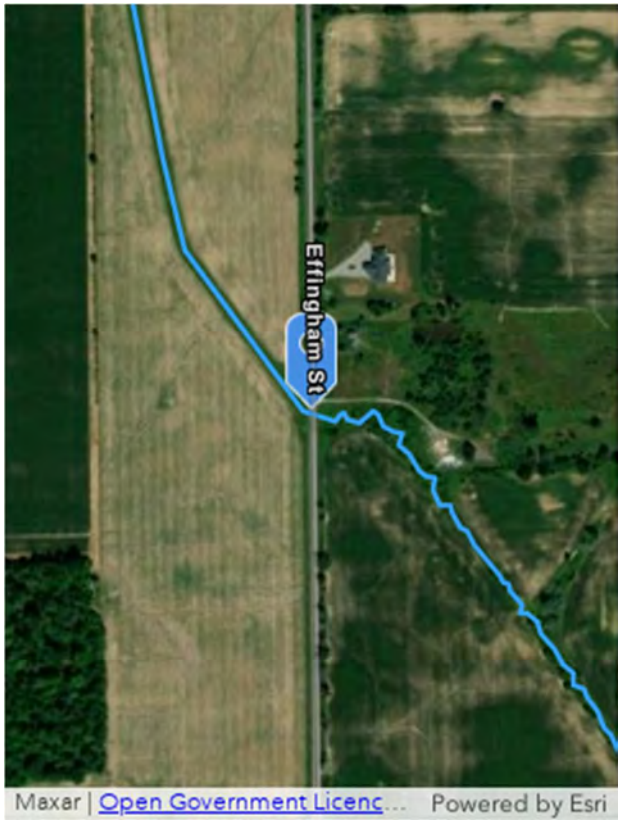
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Road Bridge, Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 200
ABL ID: ABL_36	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.5		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 11.3		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 181.89	U/S Obvert Elev. (m): 183.39	Additional Information: Washout and undermining beginning on US side.
Location (Road Name/Intersection): Effingham St	D/S Invert Elev. (m): 181.76	D/S Obvert Elev. (m): 183.26	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

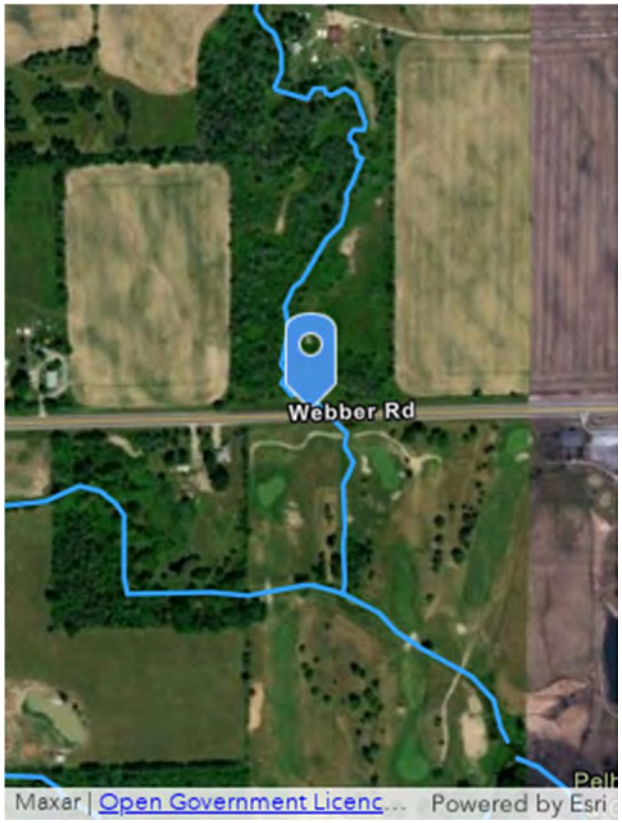
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/28/2023	Structure Type: Road Bridge, Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, MH	Number of Cells: 2	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 200
ABL ID: ABL_37	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 1.8		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 55.3		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 173.08	U/S Obvert Elev. (m): 174.88	Additional Information: flow in right cell only
Location (Road Name/Intersection): Webber Rd	D/S Invert Elev. (m): 172.95	D/S Obvert Elev. (m): 174.75	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 45		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

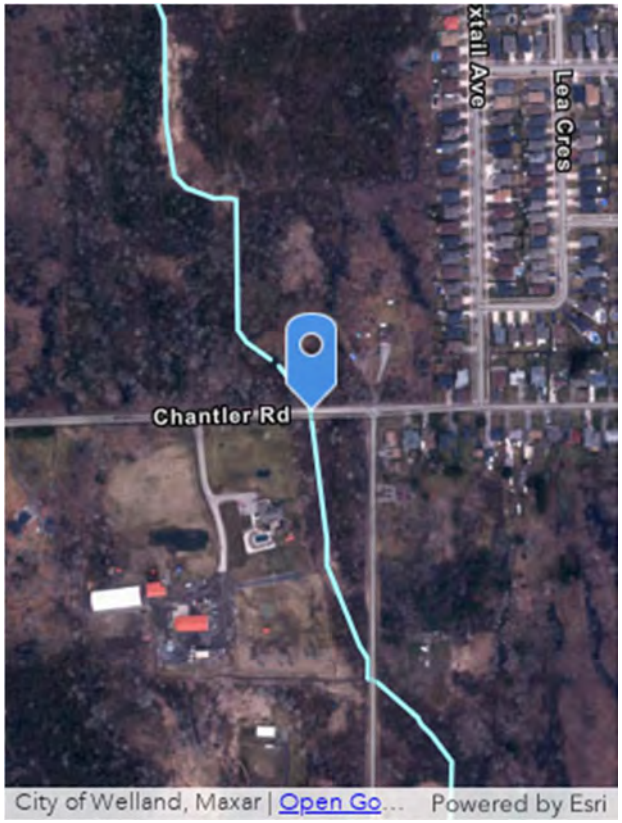
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/24/2023	Structure Type: Road Bridge, Culvert	Shape: Rectangular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 400
ABL ID: ABL_38	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Draper's Creek	Height (m) x Width (m) or Diameter (m): 1.6 x 3.0		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 17.9		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 178.51	U/S Obvert Elev. (m): 180.21	Additional Information:
Location (Road Name/Intersection): Chantler Rd	D/S Invert Elev. (m): 178.54	D/S Obvert Elev. (m): 180.24	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 30		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

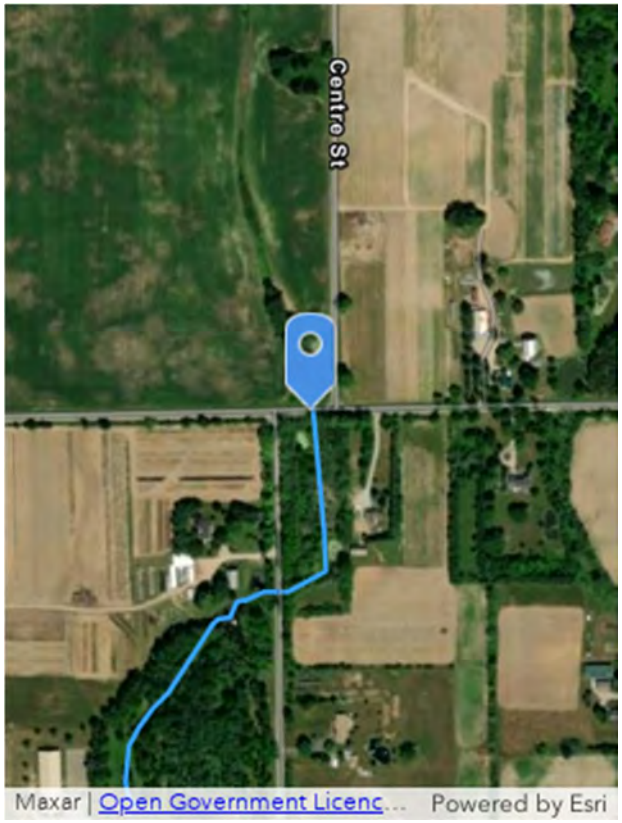
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Road Bridge, Culvert	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT,CM	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 300
ABL ID: ABL_39	Material (Concrete/Steel): Steel, Concrete		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 0.8 x 1.15		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m):		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m):	U/S Obvert Elev. (m):	Additional Information: US is large pond. DS debris jam consist mostly of cut logs and small homemade crossing structure for private trail.
Location (Road Name/Intersection): Foss Rd	D/S Invert Elev. (m):	D/S Obvert Elev. (m):	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees):		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

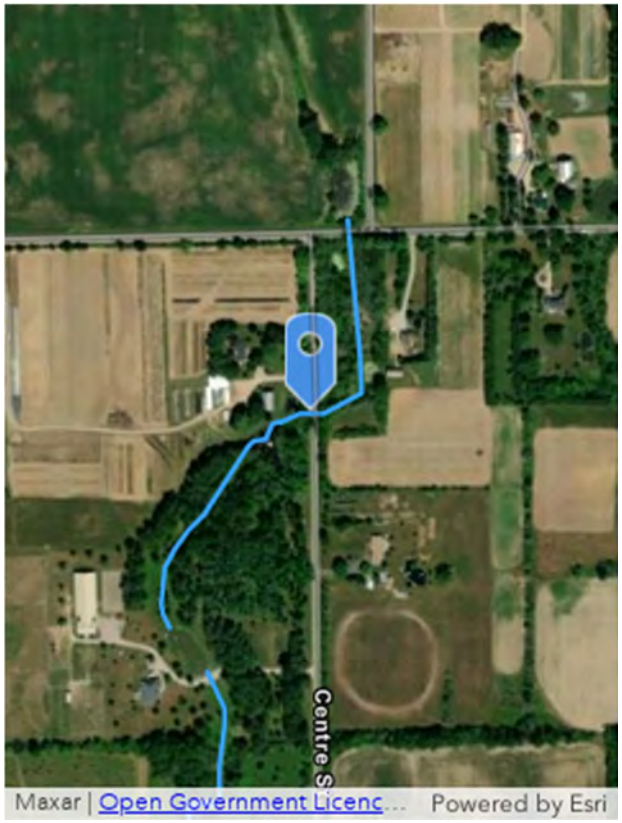
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 04/25/2023	Structure Type: Culvert	Shape: Circular	Flow Present (Y/N): Y
Field Crew: MT, CM	Number of Cells: 1	Open Footing (Yes/No): N	Approx. Depth of Water (mm): 75
ABL ID: ABL_40	Material (Concrete/Steel): Steel		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 0.6		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 12.4		Downstream Erosion (Y/N): N
Municipality:	U/S Invert Elev. (m): 184.02	U/S Obvert Elev. (m): 184.62	Additional Information: Narrow, shallow channel. trees growing in channel. Multiple ponds DS, one is online, the other is offline, seperated from creek by narrow grass strip just slightly higher than water level
Location (Road Name/Intersection): Centre St	D/S Invert Elev. (m): 184.03	D/S Obvert Elev. (m): 184.63	
	Inlet Type (Projecting/Mitered/Headwall): Projecting		
	Skew Angle of Crossing (Degrees): 0		
	Depth of Siltation (mm): 10		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

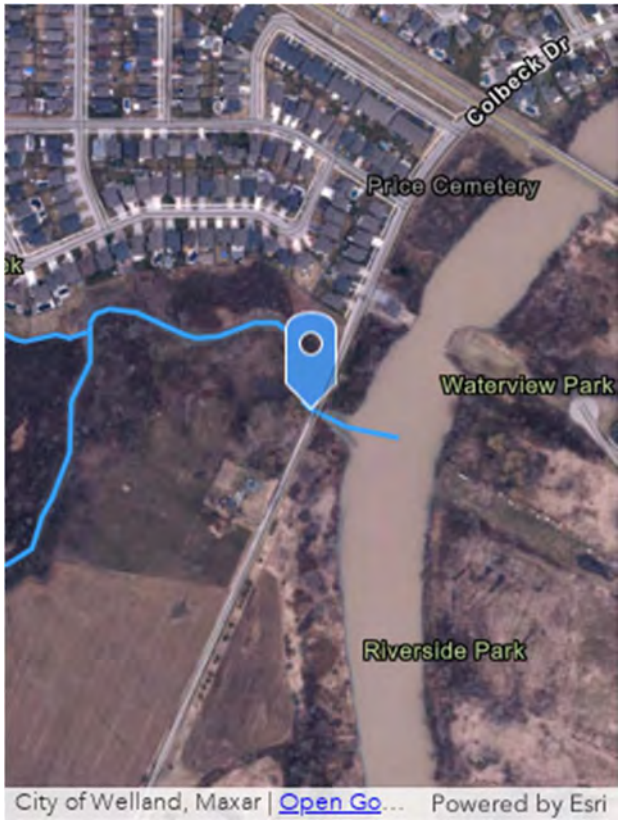
Description of Photograph:

HYDRAULIC STRUCTURE INVENTORY SHEET

Watershed and Location Information	Structure Configuration and Dimensions		Current Flow Information
Date (mm/dd/yyyy): 11/23/2023	Structure Type: Road Bridge	Shape: Arch	Flow Present (Y/N): Y
Field Crew: MT	Number of Cells: 1	Open Footing (Yes/No): Y	Approx. Depth of Water (mm): 1,300
ABL ID: ABL_41	Material (Concrete/Steel): Concrete		Approx. Velocity:
Watershed Name: Coyle Creek	Height (m) x Width (m) or Diameter (m): 3.8 x 6.89		Upstream Erosion (Y/N): N
Subcatchment Name:	Length (m): 6.40		Downstream Erosion (Y/N): N
Municipality: City of Welland	U/S Invert Elev. (m): 169.48	U/S Obvert Elev. (m): 173.28	Additional Information:
Location (Road Name/Intersection): Colbeck Drive	D/S Invert Elev. (m): 169.31	D/S Obvert Elev. (m): 173.24	
	Inlet Type (Projecting/Mitered/Headwall): Headwall		
	Skew Angle of Crossing (Degrees):		
	Depth of Siltation (mm): 0		

Site Photograph and Additional Field Notes

Site Sketch:





Upstream Face



Upstream Channel



Downstream Face



Downstream Channel

Description of Photograph: