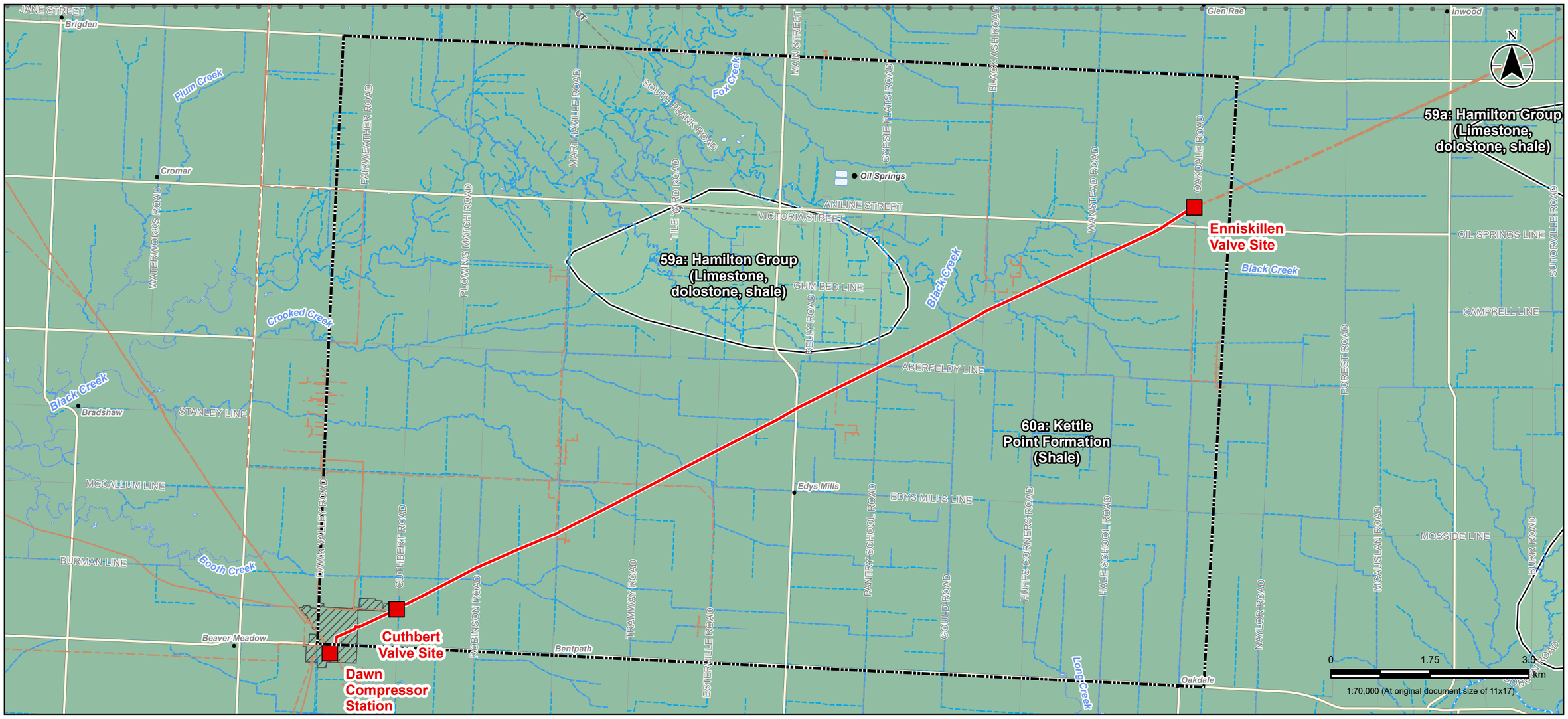
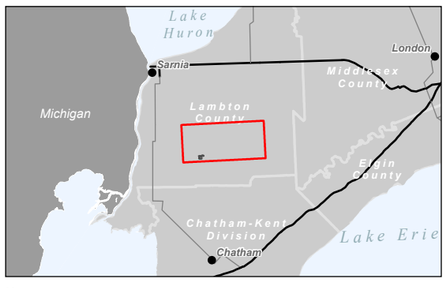
Appendix A Existing Conditions Figures

DRAFT





Legend

Bedrock Geology
- 59a: Hamilton Gp.
- 60a: Kettle Point Fm.
- Contact

Project Components
- Enbridge Station/Valve
- Proposed Pipeline
- Existing Pipeline
- Compressor Station Area
- Study Area

Base Data
- Major Road
- Minor Road
- Hydro Line
- Unknown Transmission Line
- Constructed Drain
- Watercourse (Intermittent)
- Watercourse (Permanent)
- Waterbody

Notes
1. Coordinate System: NAD 1983 UTM Zone 17N
2. Contains information licensed under the Open Government Licence – Ontario, and the Open Government Licence - Canada, accessed 2026.
3. Bedrock geology data source: Ontario Geological Survey 2011. 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release-Data 126-Revision 1. ISBN 978-1-4435-5704-7 (CD) ISBN 978-1-4435-5705-4

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Project Location
Township of Dawn-Euphemia

REVA
Prepared by AWhite on 2026-11-04
Technical Review By MKnight on 2026-10-05

Client/Project
ENBRIDGE GAS INC.
DAWN PARKWAY RENEWAL PROJECT
DAWN TO ENNISKILLEN

Figure No.
1

Title
Bedrock Geology

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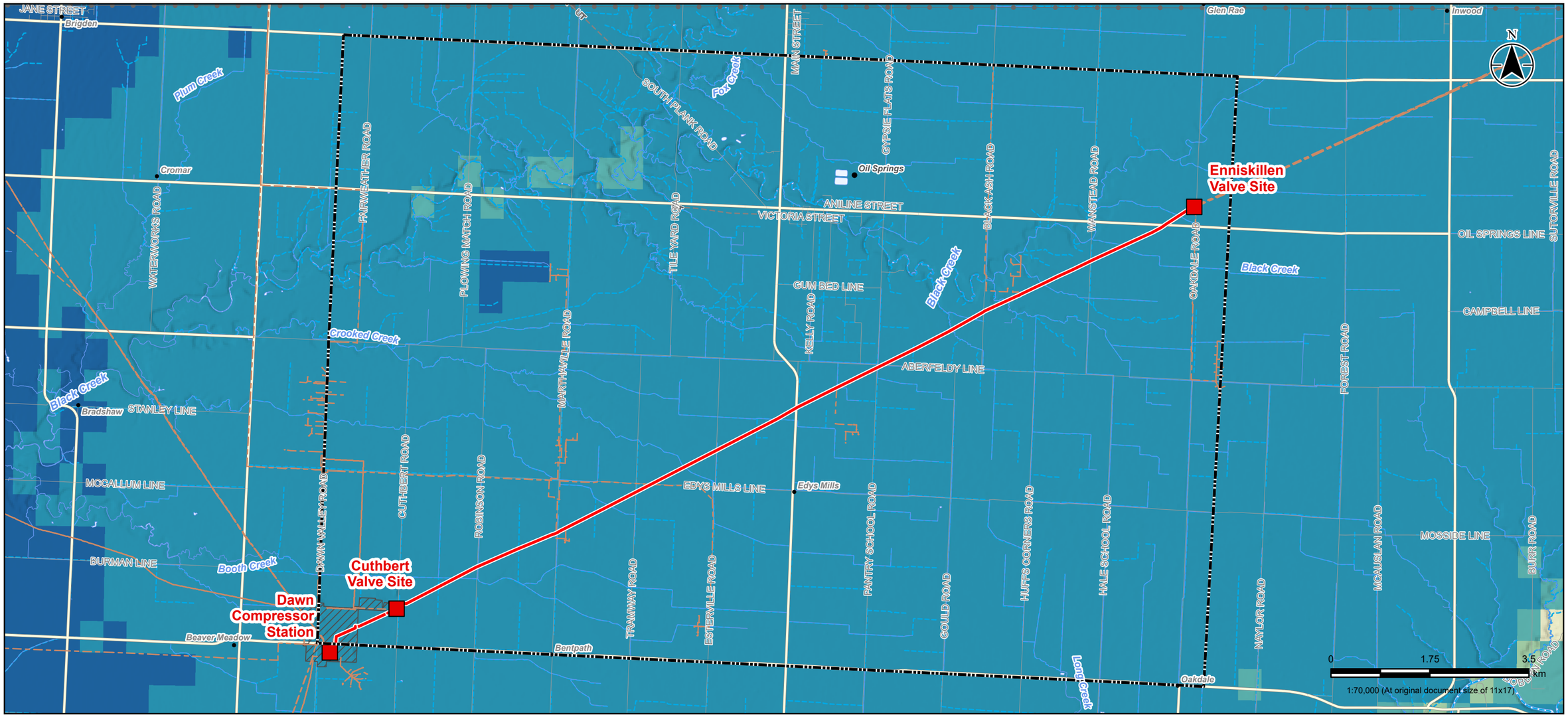

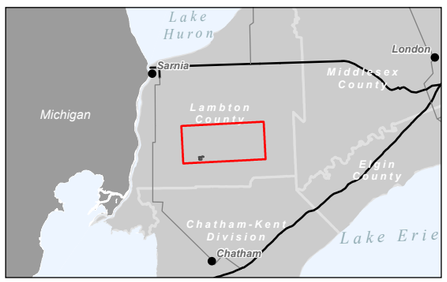

Legend

Drift Thickness (m)
- 0
- 1.001 - 5
- 5.001 - 10
- 10.001 - 30
- 30.001 - 60

Project Components
- Enbridge Station/Valve
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- Study Area

Base Data
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- Constructed Drain
- Watercourse (Intermittent)
- Watercourse (Permanent)
- Waterbody

Notes
1. Coordinate System: NAD 1983 UTM Zone 17N
2. Contains information licensed under the Open Government Licence – Ontario, and the Open Government Licence - Canada, accessed 2026.
3. Drift thickness data source: Gao, C., Shirota, J., Kelly, R.I., Brunton, F.R. and van Haaften, S. 2006. Bedrock topography and overburden thickness mapping, Southern Ontario; Ontario Geological Survey, Miscellaneous Release—Data 207.

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Project Location
Township of Dawn-Euphemia

REVA
Prepared by AWhite on 2026-11-04
Technical Review By MKnight on 2026-10-05

Client/Project
ENBRIDGE GAS INC.
DAWN PARKWAY RENEWAL PROJECT
DAWN TO ENNISKILLEN

Figure No.
2

Title
Drift Thickness

U:\160901\60901400\03_data\gis_cad\gis\ArcPro\Disciplines\APENB_ER_ExistingConditions.aprx\ENB_ER_Fig02_DriftThickness Revised on 11/4/2026 12:22 AM by AWhite

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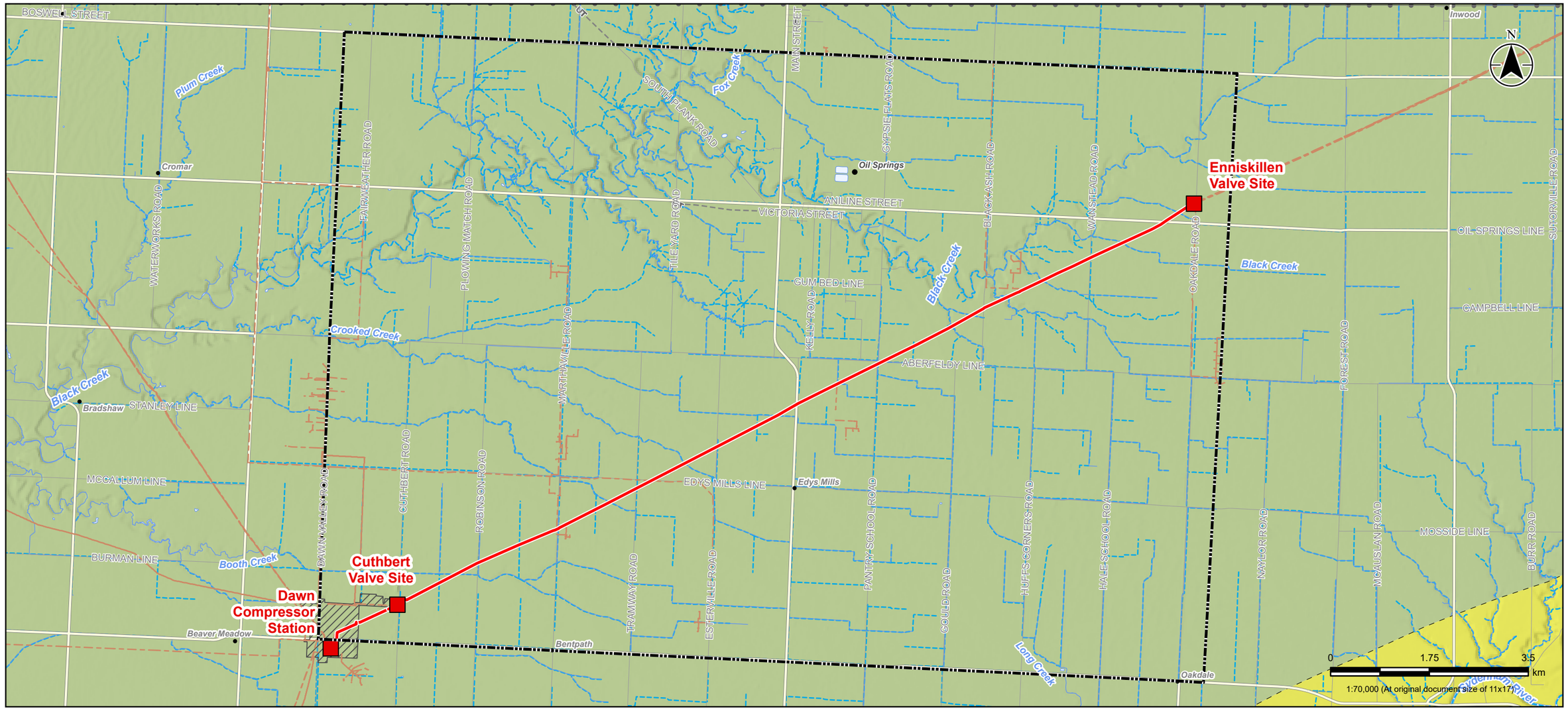

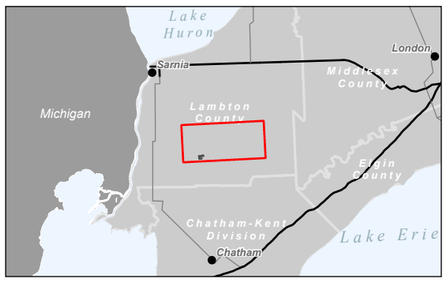

Legend

Physiography
- Contact
- 8: Bevelled Till Plains
- 11: Sand Plains

Project Components
- Enbridge Station/Valve
- Proposed Pipeline
- Existing Pipeline
- Compressor Station Area
- Study Area

Base Data
- Major Road
- Minor Road
- Hydro Line
- Unknown Transmission Line
- Constructed Drain
- Watercourse (Intermittent)
- Watercourse (Permanent)
- Waterbody

Notes
1. Coordinate System: NAD 1983 UTM Zone 17N
2. Contains information licensed under the Open Government Licence – Ontario, and the Open Government Licence - Canada, accessed 2026.
3. Physiography data source: Chapman, L.J. and Putnam, D.F. 2007. Physiography of southern Ontario; Ontario Geological Survey, Miscellaneous Release—Data 228.

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Project Location
Township of Dawn-Euphemia

REVA
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Technical Review By MKnight on 2026-10-05

Client/Project
ENBRIDGE GAS INC.
DAWN PARKWAY RENEWAL PROJECT
DAWN TO ENNISKILLEN

Figure No.
3

Title
Physiography

U:\160901609\01400\03_data\gis_cad\gis\ArcPro\Disciplines\APIENB_ER_ExistingConditions.aprx\ENB_ER_Fig03_Physiography Revised on 11/4/2026 12:22 AM by AWhite

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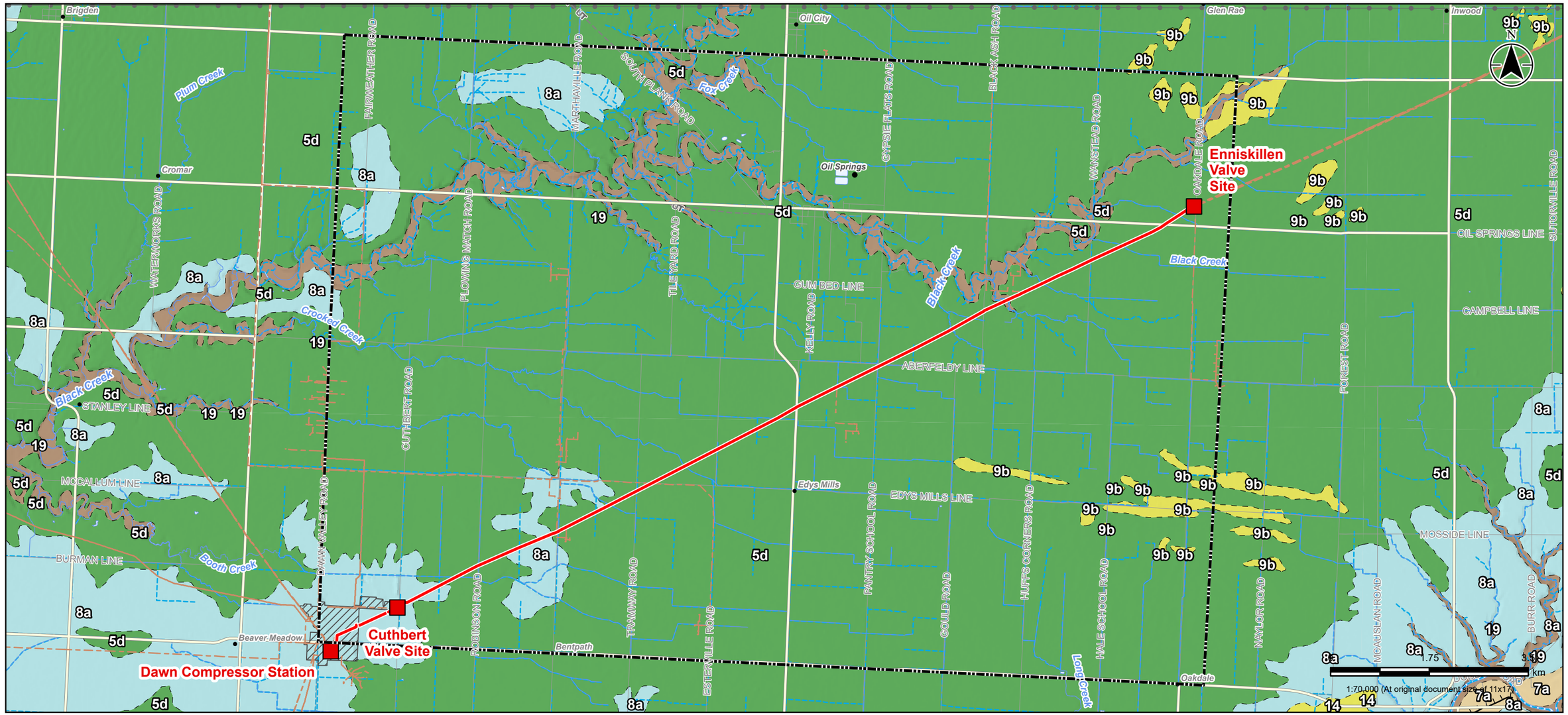

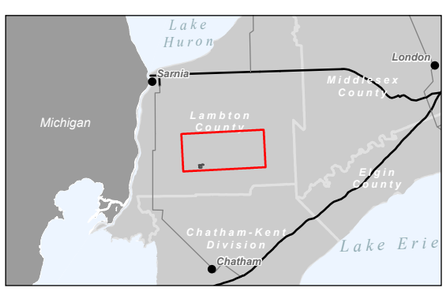

Legend

Surficial Geology

- Terrace
- Contact
- 5d: Glaciolacustrine-derived silty to clayey till
- 7a: Sandy deposits
- 8a: Massive-well laminated
- 9b: Littoral-foreshore deposits
- 14: Coarse-textured lacustrine deposits
- 19: Modern alluvial deposits

Project Components

- Enbridge Station/Valve
- Proposed Pipeline
- Existing Pipeline
- Compressor Station Area
- Study Area

Base Data

- Major Road
- Minor Road
- Hydro Line
- Unknown Transmission Line
- Constructed Drain
- Watercourse (Intermittent)
- Watercourse (Permanent)
- Waterbody

Notes

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3. Surficial geology data source: Ontario Geological Survey 2010. Surficial geology of Southern Ontario; Ontario Geological Survey, Miscellaneous Release--Data 128-REV ISBN 978-1-4435-2483-4.

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Project Location
Township of Dawn-Euphemia

REVA
Prepared by AWhite on 2026-11-04
Technical Review By MKnight on 2026-10-05

Client/Project
ENBRIDGE GAS INC.
DAWN PARKWAY RENEWAL PROJECT
DAWN TO ENNISKILLEN

Figure No.
4

Title
Surficial Geology

U:\160911600\400\03_data\gis_cad\gis\ArcPro\Disciplines\AP\ENB_ER_ExistingConditions.aprx\ENB_ER_Fig04_SurficialGeology Revised on 11/4/2026 12:22 AM by AWhite

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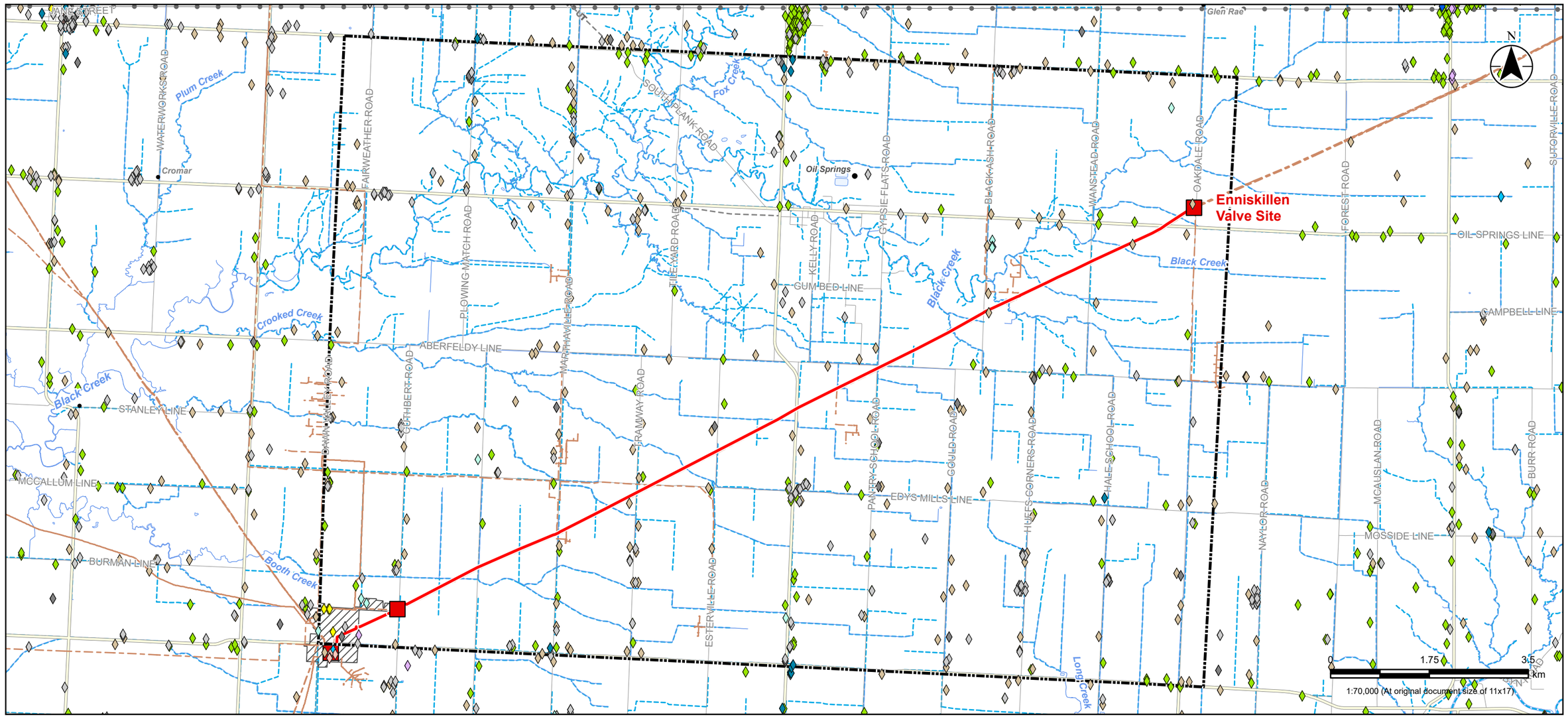

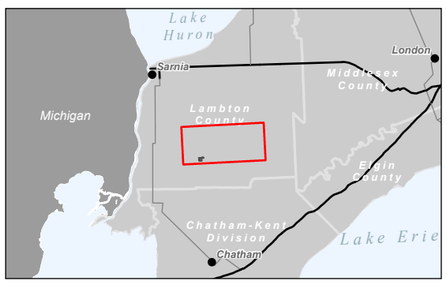

Notes

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Legend

Well Use

- Commerical
- Domestic
- Industrial
- Irrigation
- Livestock
- Monitoring
- Monitoring and Test Hole
- Municipal
- Not Used
- Other
- Public
- Test Hole

Project Components

- Enbridge Station/Valve
- Proposed Pipeline
- Existing Pipeline
- Compressor Station Area
- Study Area

Base Data

- Major Road
- Minor Road
- Hydro Line
- Unknown Transmission Line
- Constructed Drain
- Watercourse (Intermittent)
- Watercourse (Permanent)
- Waterbody

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Project Location
Township of Dawn-Euphemia

REVA
Prepared by AWhite on 2026-11-04
Technical Review By MKnight on 2026-10-05

Client/Project
ENBRIDGE GAS INC.
DAWN PARKWAY RENEWAL PROJECT
DAWN TO ENNISKILLEN

Figure No.
5

Title
Groundwater Conditions

U:\160911609\140\03_data\gis_cad\gis\ArcPro\Disciplines\APENB_ER_ExistingConditions.aprx\ENB_ER_Fig05_GroundwaterConditions Revised on 11/4/2026 12:22 AM by AWhite

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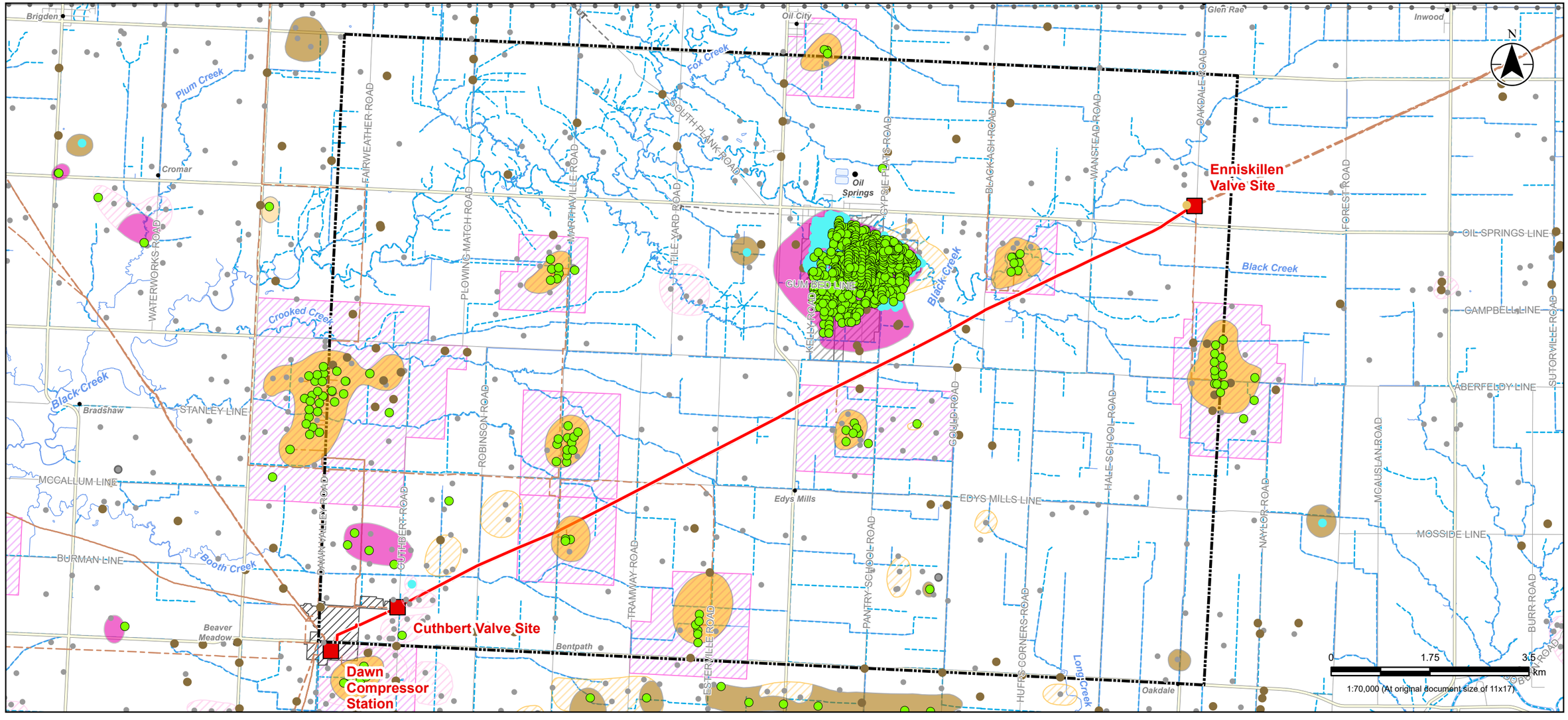

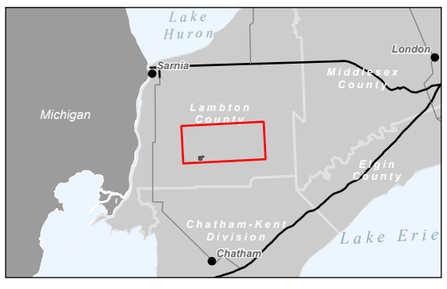

Legend

Petroleum Well
- Active Well
- Potential
- Suspended Well
- Abandoned Well
- Abandoned and Junked (Lost)
- No Well Found
- Unknown

Petroleum Pool (status)
- Active, Natural Gas
- Active, Natural Gas Storage
- Suspended, Natural Gas
- Abandoned, Natural Gas
- Active, Oil
- Abandoned, Oil
- Historical Oil Field
- Designated Gas Storage Area

Project Components
- Enbridge Station/Valve
- Proposed Pipeline
- Existing Pipeline
- Compressor Station Area
- Study Area

Base Data
- Major Road
- Minor Road
- Hydro Line
- Unknown Transmission Line
- Constructed Drain
- Watercourse (Intermittent)
- Watercourse (Permanent)
- Waterbody

Notes
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Project Location
Township of Dawn-Euphemia

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Technical Review By MKnight on 2026-10-05

Client/Project
ENBRIDGE GAS INC.
DAWN PARKWAY RENEWAL PROJECT
DAWN TO ENNISKILLEN

Figure No.
6

Title
Aggregate and Petroleum Resources

U:\160916090140003_data\gis_cad\gis\ArcPro\Disciplines\APENB_ER_ExistingConditions.aprx\ENB_ER_Fig06_AggregatesAndPetroleumResources Revised on 11/4/2026 12:22 AM by AWhite

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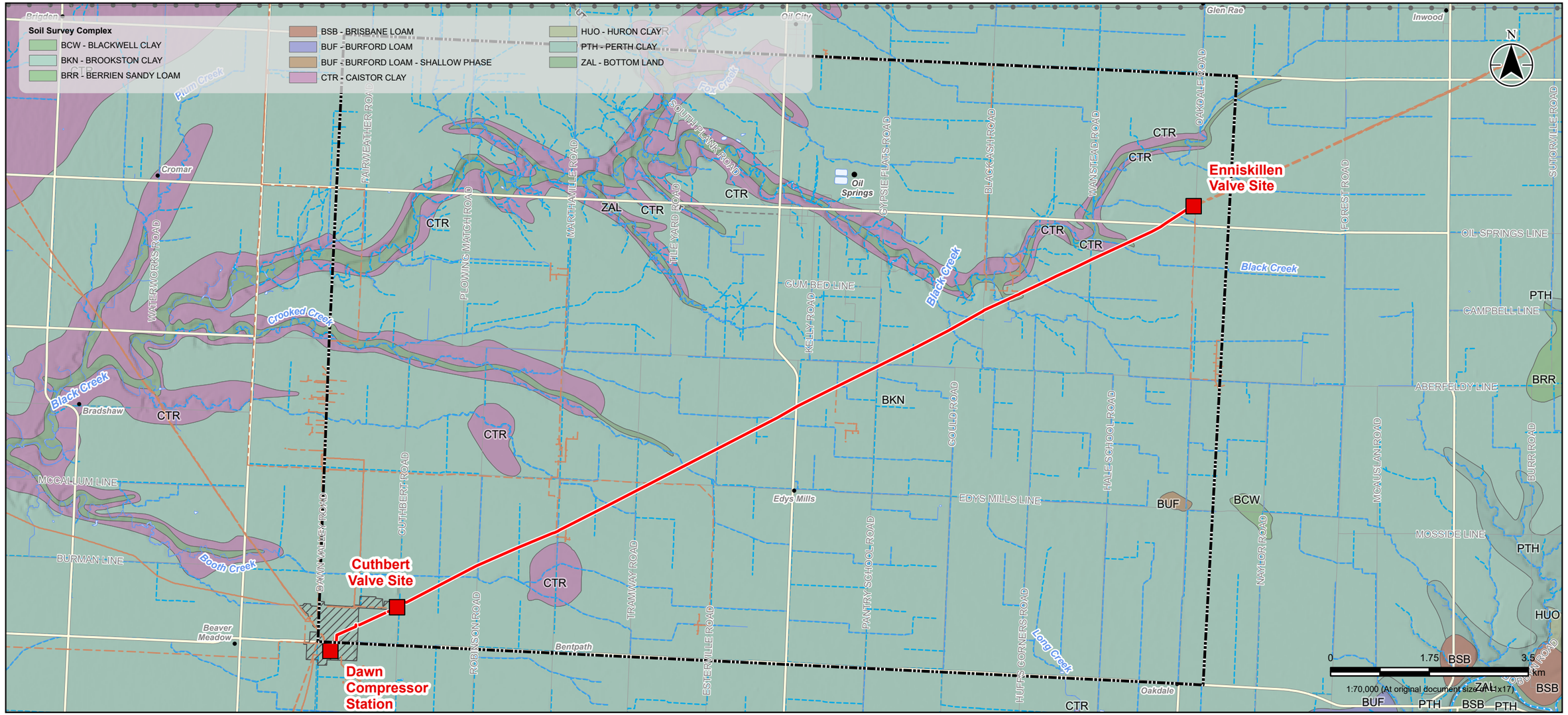

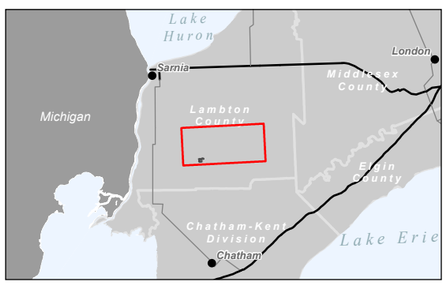

Legend

Project Components
- Enbridge Station/Valve
- Proposed Pipeline
- Existing Pipeline
- Compressor Station Area
- Study Area

Base Data
- Major Road
- Minor Road
- Hydro Line
- Unknown Transmission Line
- Constructed Drain
- Watercourse (Intermittent)
- Watercourse (Permanent)
- Waterbody

Notes
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Project Location
Township of Dawn-Euphemia

REVA
Prepared by AWhite on 2026-11-04
Technical Review By MKnight on 2026-10-05

Client/Project
ENBRIDGE GAS INC.
DAWN PARKWAY RENEWAL PROJECT
DAWN TO ENNISKILLEN

Figure No.
7

Title
Soil Type

U:\160901\60901400\03_data\gis_cad\gis\ArcPro\Disciplines\AP\ENB_ER_ExistingConditions_aprx\ENB_ER_Fig07_SoilType Revised on 11/4/2026 12:22 AM by AWhite

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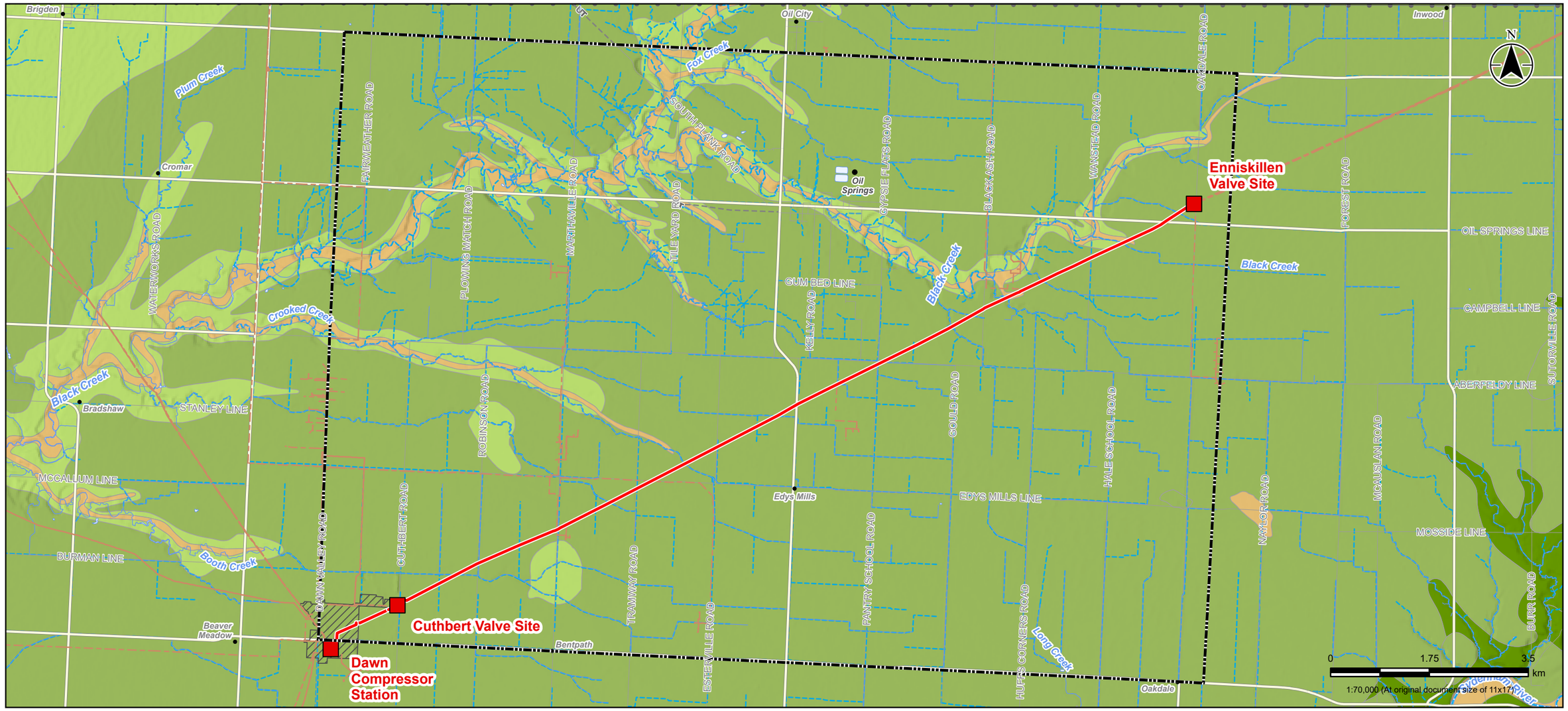

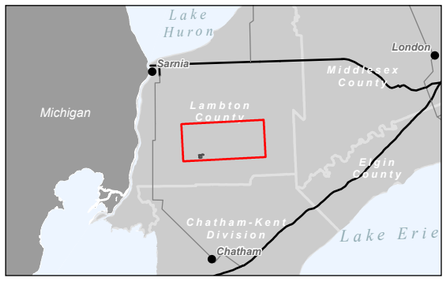

Legend

Canada Land Inventory (CLI)

- 1 - No significant limitations in use for crops
- 2 - Moderate limitations that restrict the range of crops or require moderate conservation practices
- 3 - Moderately severe limitations that restrict the range of crops or require special conservation practices
- 5 - Very severe limitations that restrict their capability in producing perennial forage crops, and improvement practices are feasible

Project Components

- Enbridge Station/Valve
- Proposed Pipeline
- Existing Pipeline
- Compressor Station Area
- Study Area

Base Data

- Major Road
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- Hydro Line
- Unknown Transmission Line
- Constructed Drain
- Watercourse (Intermittent)
- Watercourse (Permanent)
- Waterbody

Notes

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Project Location
Township of Dawn-Euphemia

REVA
Prepared by AWhite on 2026-11-04
Technical Review By MKnight on 2026-10-05

Client/Project
ENBRIDGE GAS INC.
DAWN PARKWAY RENEWAL PROJECT
DAWN TO ENNISKILLEN

Figure No.
8

Title
Soil Capabilities

U:\160910090\400\03_data\gis_cad\gis\ArcPro\Discipline\aprx\APENB_ER_ExistingConditions.aprx\ENB_ER_Fig08_SoilCapabilities Revised on 11/4/2026 12:22 AM by AWhite

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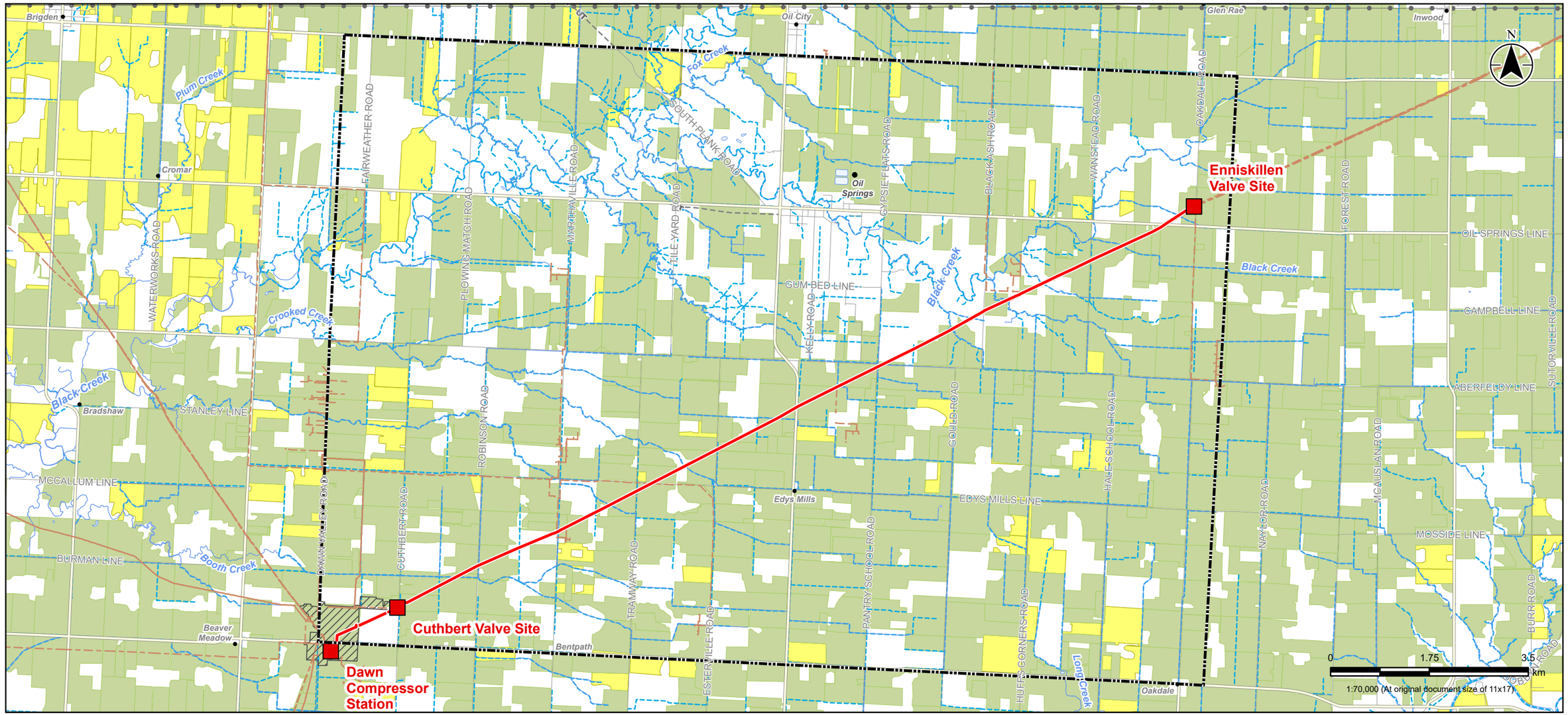

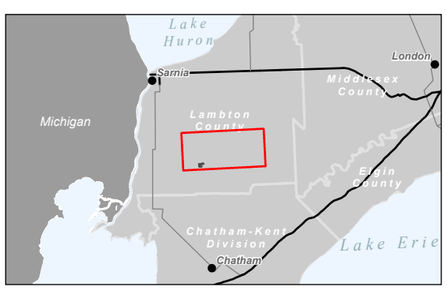

Legend

Tile Drainage Area
- Random
- Systematic

Project Components
- Enbridge Station/Valve
- Proposed Pipeline
- Existing Pipeline
- Compressor Station Area
- Study Area

Base Data
- Major Road
- Minor Road
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- Constructed Drain
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- Waterbody

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Project Location
Township of Dawn-Euphemia

REVA
Prepared by AWhite on 2026-11-04
Technical Review By MKnight on 2026-10-05

Client/Project
ENBRIDGE GAS INC.
DAWN PARKWAY RENEWAL PROJECT
DAWN TO ENNISKILLEN

Figure No.
9

Title
Known Agricultural Tile Drainage

U:\160901\60901400\03_data\gis_cad\gis\ArcPro\Disciplines\APENB_ER_ExistingConditions.aprx\ENB_ER_Fig09_AgriculturalTileDrainage Revised on 11/4/2026 12:22 AM by AWhite

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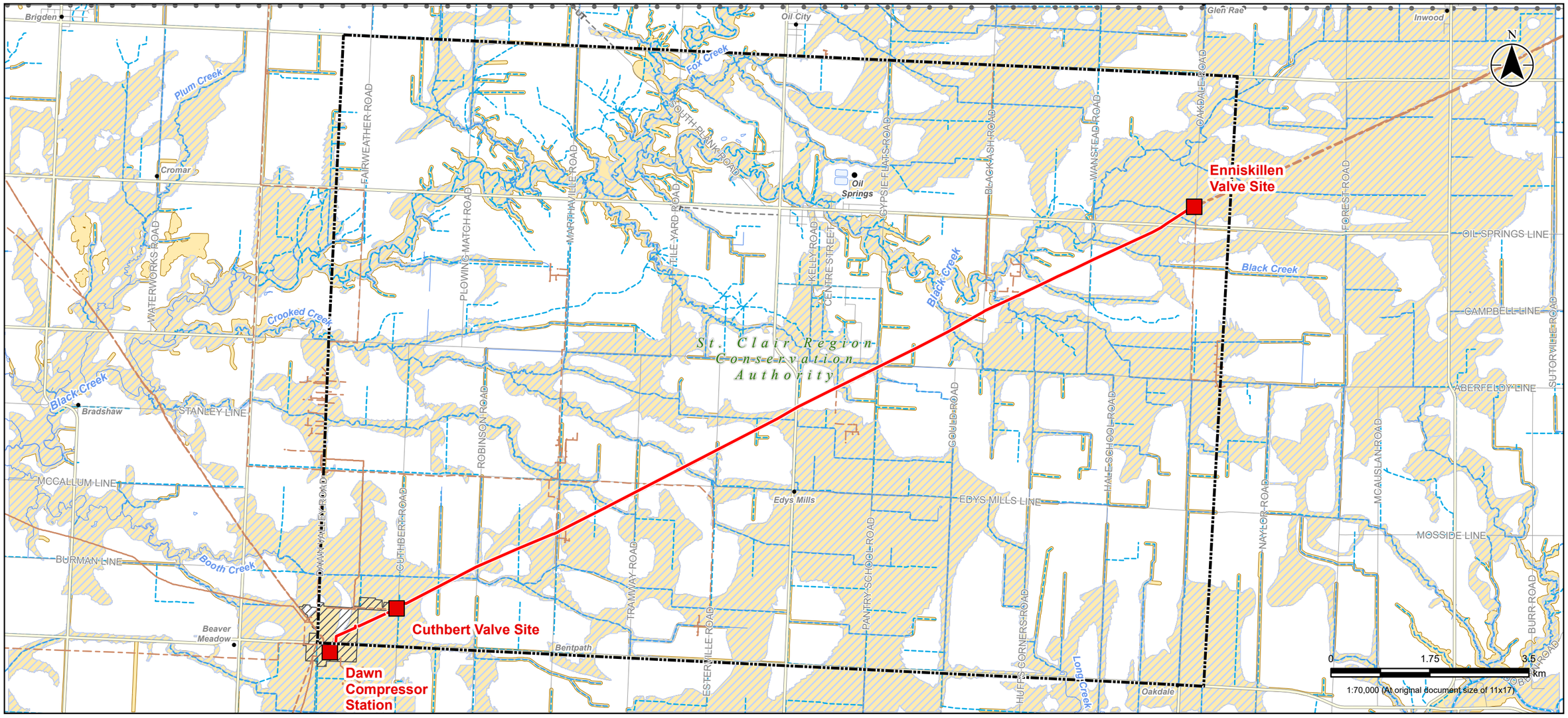

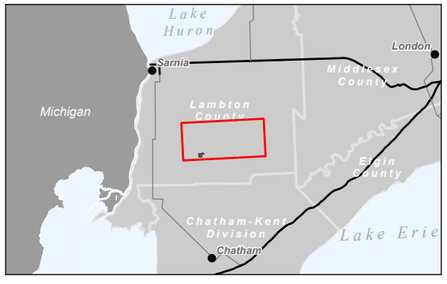

Legend

- Conservation Authority Administrative Boundary
- Areas Affected by Conservation Authority Regulations - Subject to Change
- Regulated Flood Plain - Subject to Change

Project Components

- Enbridge Station/Valve
- Proposed Pipeline
- Existing Pipeline
- Compressor Station Area
- Study Area

Base Data

- Major Road
- Minor Road
- Hydro Line
- Unknown Transmission Line
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- Watercourse (Intermittent)
- Watercourse (Permanent)
- Waterbody

Notes

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Project Location
Township of Dawn-Euphemia

REVA
Prepared by AWhite on 2026-11-04
Technical Review By MKnight on 2026-10-05

Client/Project
ENBRIDGE GAS INC.
DAWN PARKWAY RENEWAL PROJECT
DAWN TO ENNISKILLEN

Figure No.
10

Title
Floodplain and Regulation Limit

U:\160916090140003_data\gis_cad\gis\ArcPro\Disciplines\AP\ENB_ER_ExistingConditions_aprx\ENB_ER_Fig10_RegulatedArea Revised on 11/4/2026 12:22 AM by AWhite

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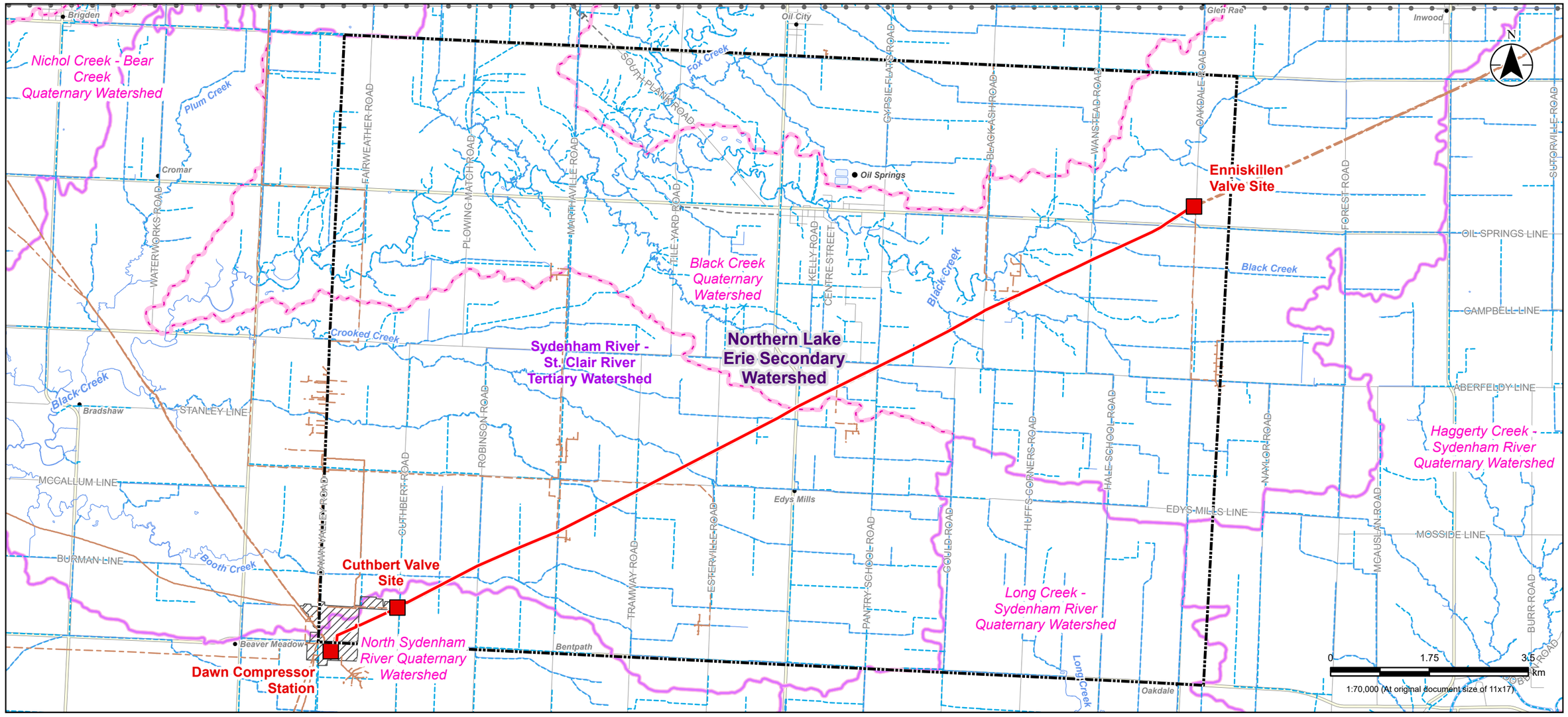

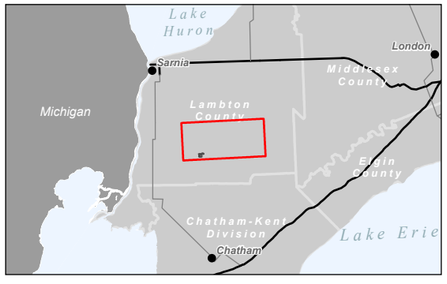

Legend

Watersheds
- Constructed Drain
- Watercourse (Intermittent)
- Watercourse (Permanent)
- Waterbody
- Secondary Watershed
- Tertiary Watershed
- Quaternary Watershed
- Local Watershed

Project Components
- Enbridge Station/Valve
- Proposed Pipeline
- Existing Pipeline
- Compressor Station Area
- Study Area

Base Data
- Major Road
- Minor Road
- Hydro Line
- Unknown Transmission Line

Notes
1. Coordinate System: NAD 1983 UTM Zone 17N
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Project Location
Township of Dawn-Euphemia

REVA
Prepared by AWhite on 2026-11-04
Technical Review By MKnight on 2026-10-05

Client/Project
ENBRIDGE GAS INC.
DAWN PARKWAY RENEWAL PROJECT
DAWN TO ENNISKILLEN

Figure No.
11

Title
Watersheds

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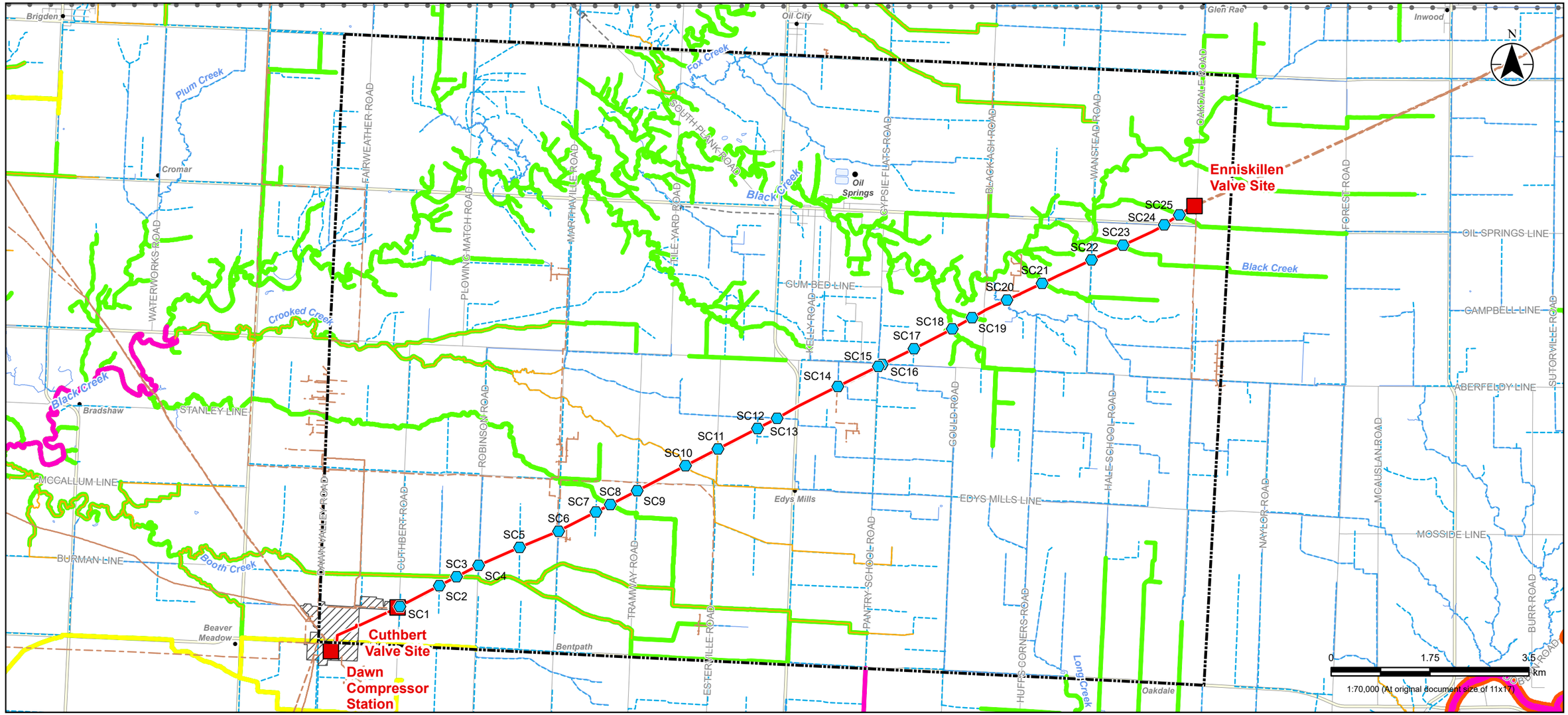

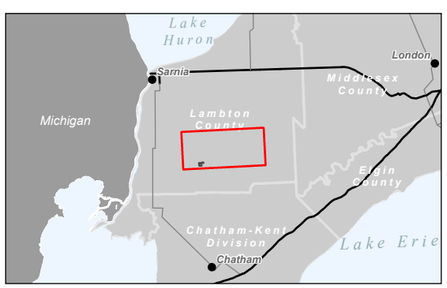

Legend

- Watercourse Crossing
- Constructed Drain
- Watercourse Thermal Regime, Warm
- Watercourse (Intermittent)
- Watercourse (Permanent)
- Aquatic Species at Risk - Endangered
- Aquatic Species at Risk - Threatened
- Aquatic Species at Risk - Special Concern
- Aquatic Species at Risk Critical Habitat
- WaterbodyThermal Regime, Warm
- Waterbody

Project Components

- Enbridge Station/Valve
- Proposed Pipeline
- Existing Pipeline
- Compressor Station Area
- Study Area

Base Data

- Major Road
- Minor Road
- Hydro Line
- UT Unknown Transmission Line

Notes

1. Coordinate System: NAD 1983 UTM Zone 17N
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3. Additional unmarked water crossings will require field verification.

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Project Location
Township of Dawn-Euphemia

REVA
Prepared by AWhite on 2026-11-04
Technical Review By MKnight on 2026-10-05

Client/Project
ENBRIDGE GAS INC.
DAWN PARKWAY RENEWAL PROJECT
DAWN TO ENNISKILLEN

Figure No.
12

Title
Potential Watercourse Crossings

U:\160911609014000\3_data\gis_cad\gis\ArcPro\Disciplines\AP\ENB_ER_ExistingConditions.aprx\ENB_ER_Fig12_PotentialWatercourseCrossings Revised on 11/4/2026 12:22 AM by AWhite

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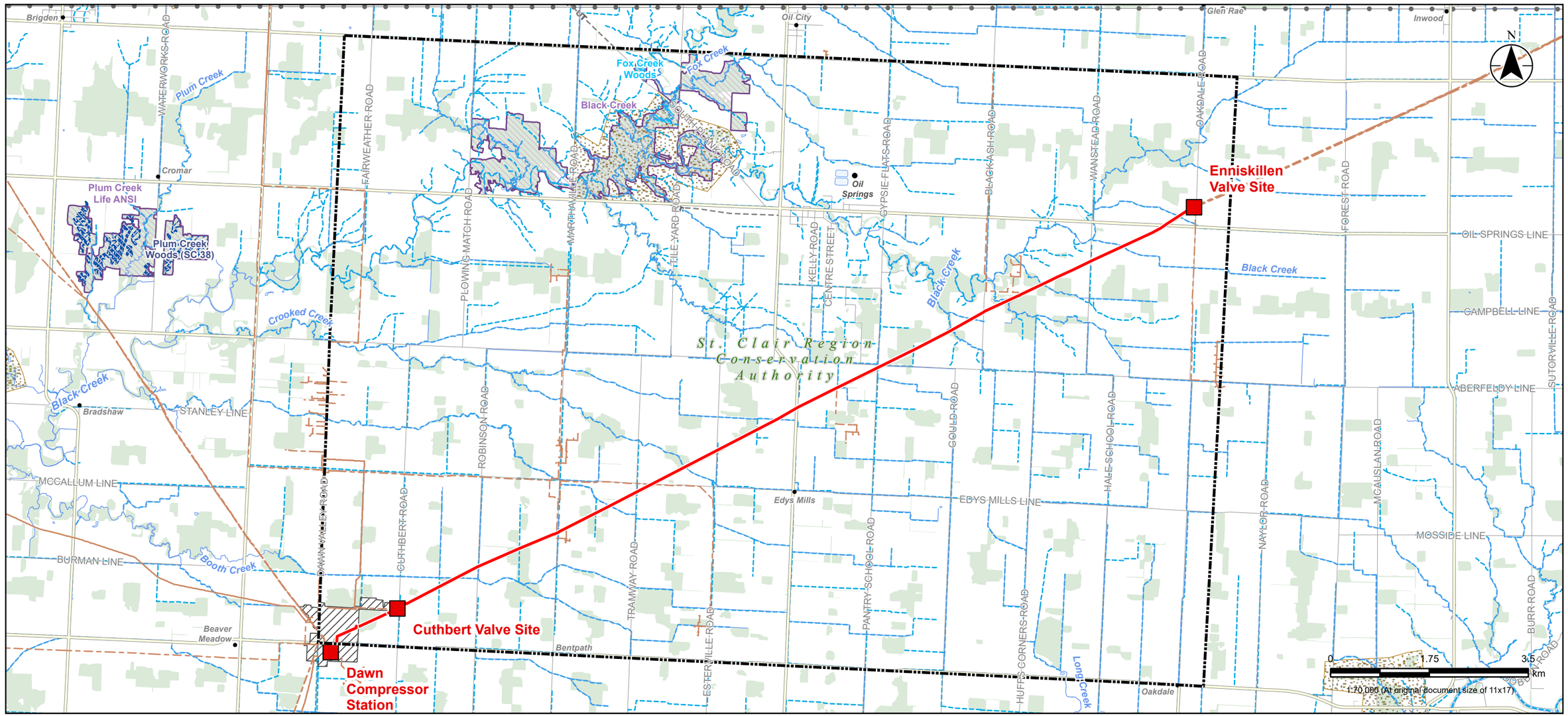

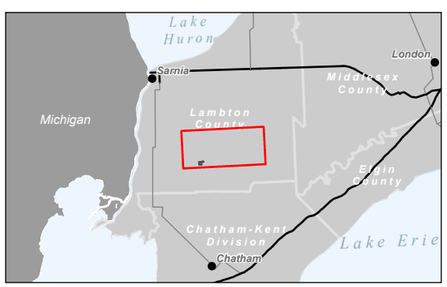

Legend

- ANSI, Life Science
- Conservation Authority Administrative Boundary
- Overwintering Area
- Wetland, Provincially Significant
- Wetland, Other Evaluated

Project Components

- Enbridge Station/Valve
- Proposed Pipeline
- Existing Pipeline
- Compressor Station Area
- Study Area

Base Data

- Major Road
- Minor Road
- Hydro Line
- Unknown Transmission Line
- Constructed Drain
- Watercourse (Intermittent)
- Watercourse (Permanent)
- Waterbody
- Wooded Area

Notes

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Project Location
Township of Dawn-Euphemia

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Technical Review By MKnight on 2026-10-05

Client/Project
ENBRIDGE GAS INC.
DAWN PARKWAY RENEWAL PROJECT
DAWN TO ENNISKILLEN

Figure No.
13

Title
Designated Natural Heritage Features

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