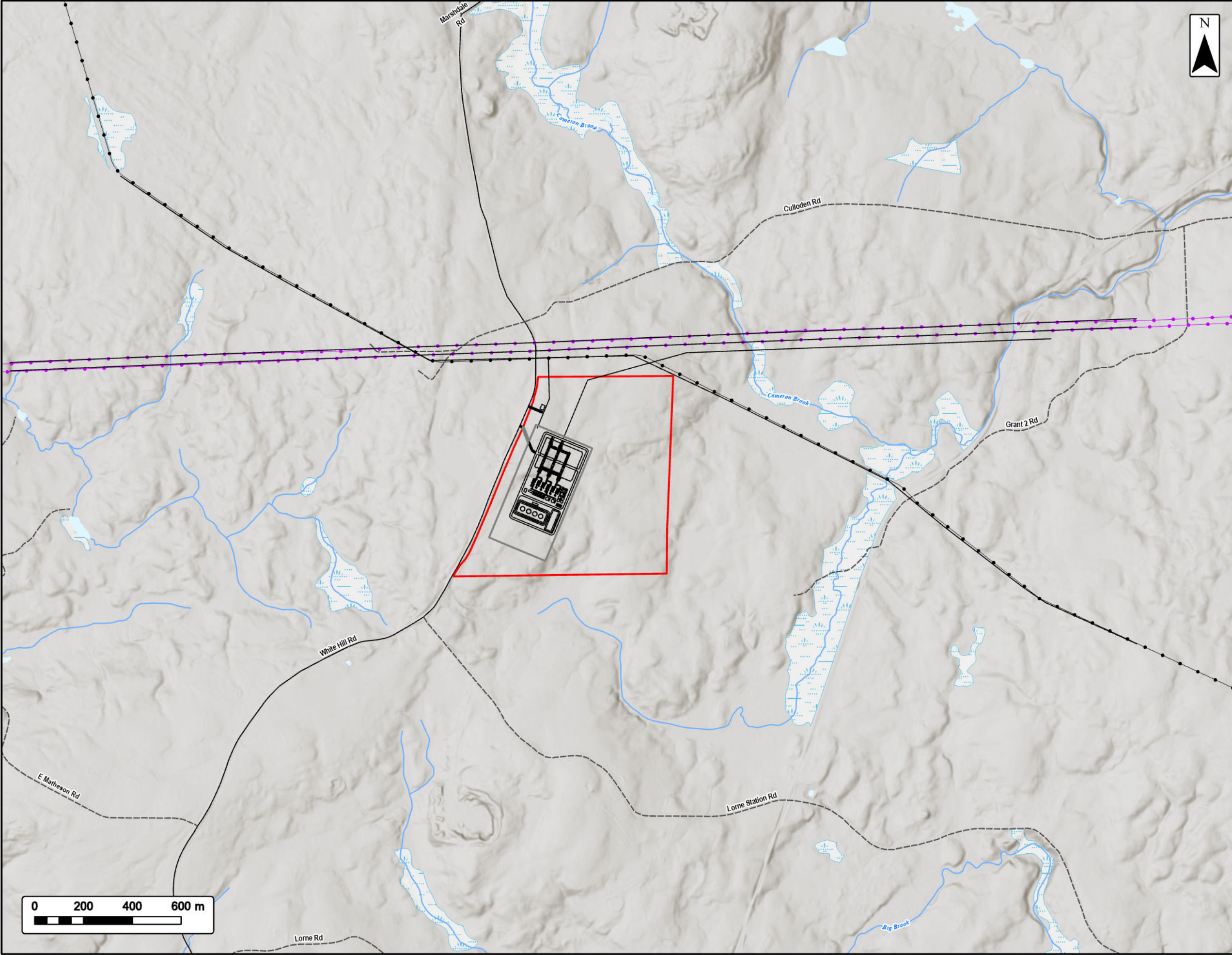




Fast Acting Natural Gas Power Generation Facility - Marshdale

Project Area

Project Area

Project Footprint

Infrastructure

Utilities (line)

Existing Pipeline

Existing Transmission Lines

Transportation

Road

Unpaved Road

Water Features

Mapped Watercourse

Mapped Lakes and Rivers

Mapped Wetland

Coordinate System: NAD 1983 CSRS UTM Zone 20N
Sources: Esri, NASA, NGA, USGS, Esri, HERE, GeoNOVA, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin

Date: 2025-12-01

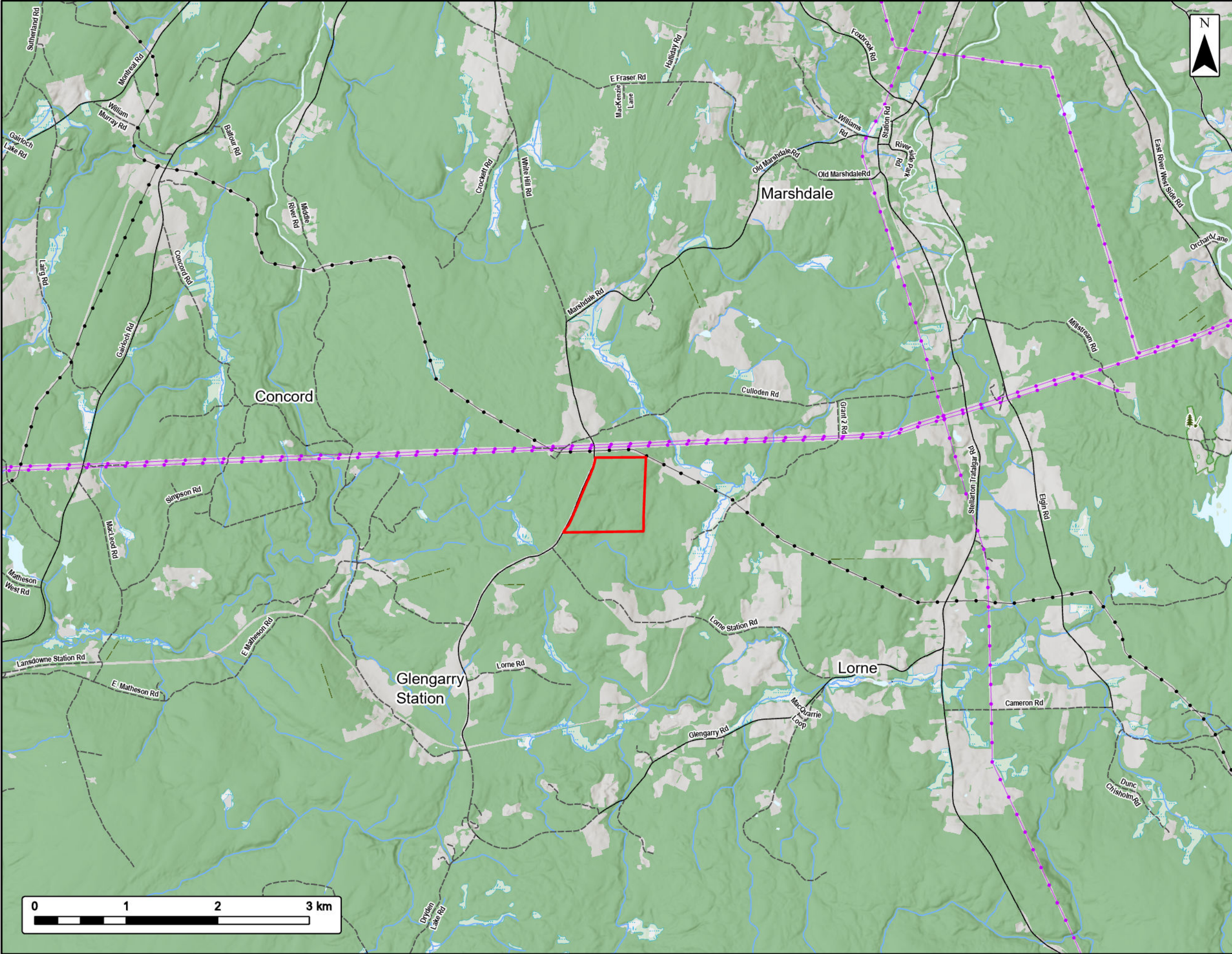
Scale: 1:15,000

Drawn By: K. Wallace

Checked By: M. Juurlink

Project #: 25-12222

Drawing #: 2.1



Fast Acting Natural Gas Power Generation Facility - Marshdale

Nearby Communities

Project Area

Utilities (line)

Existing Pipeline

Existing Transmission Lines

Transportation

Road

Unpaved Road

Water Features

Mapped Watercourse

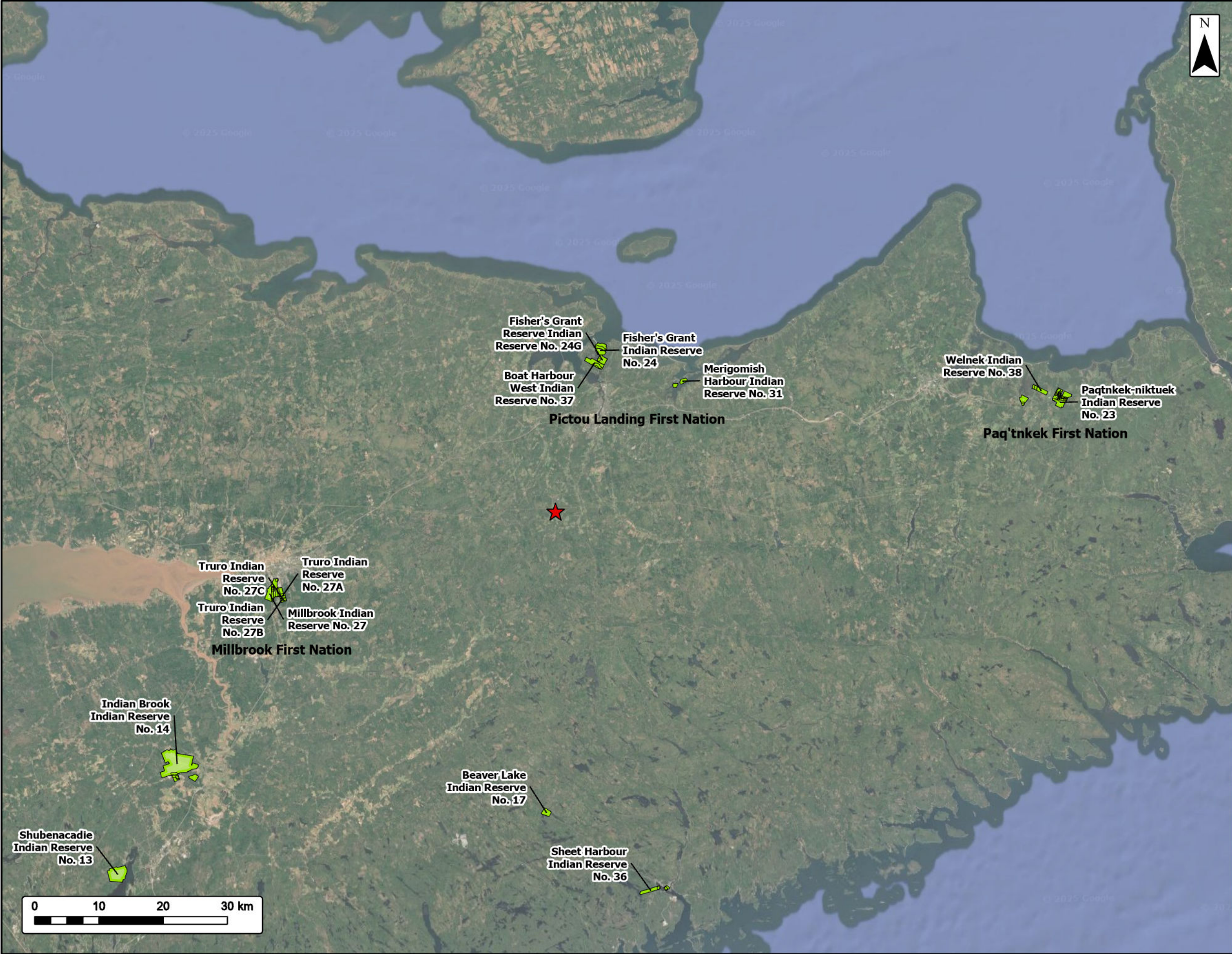
Mapped Lakes and Rivers

Mapped Wetland

Coordinate System: NAD 1983 CSRS UTM Zone 20N
Sources: Esri, NASA, NGA, USGS, Service Nova Scotia, GeoNOVA, NSNRR, ACCDC, IBA Canada, CNWII, HERE, Garmin

Date:	2025-12-01	Project #:	25-12222
Scale:	1:40,000	Drawing #:	3.1
Drawn By:	K. Wallace		
Checked By:	M. Juurlink		





Fast Acting Natural Gas Power Generation Facility - Marshdale

Mi'kmaq of Nova Scotia Communities

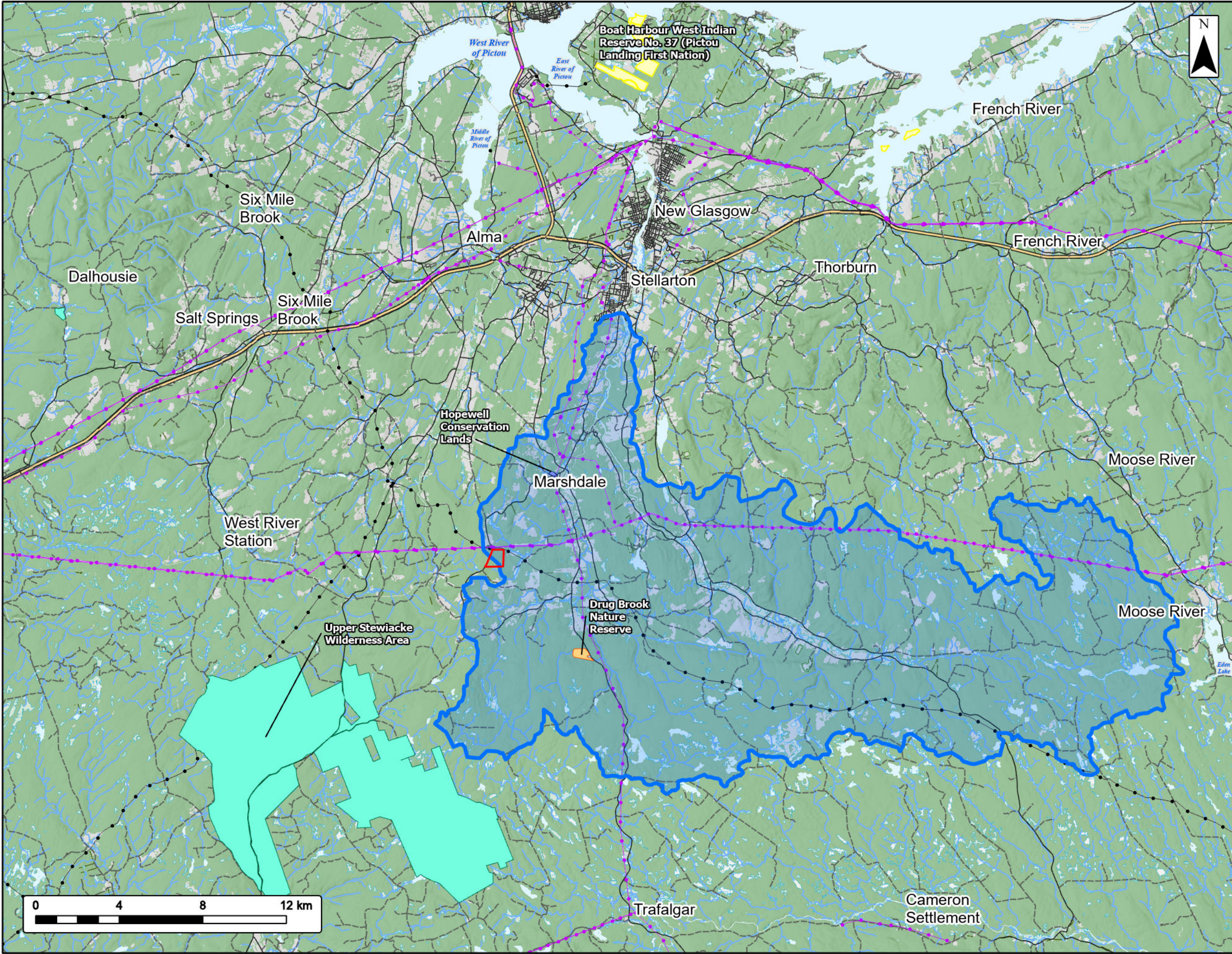
Project Location

Mi'kmaq of Nova Scotia Communities

Coordinate System: NAD 1983 CSRS UTM Zone 20N

Sources: © OpenStreetMap (and) contributors, CC-BY-SA, GeoNOVA, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin

Date:	2025-12-01	Project #:	25-12222
Scale:	1:570,000	Drawing #:	3.2
Drawn By:	K. Wallace		
Checked By:	M. Juurlink		



**Fast Acting Natural Gas Power
Generation Facility - Marshdale**
Public Parks and Protected Areas



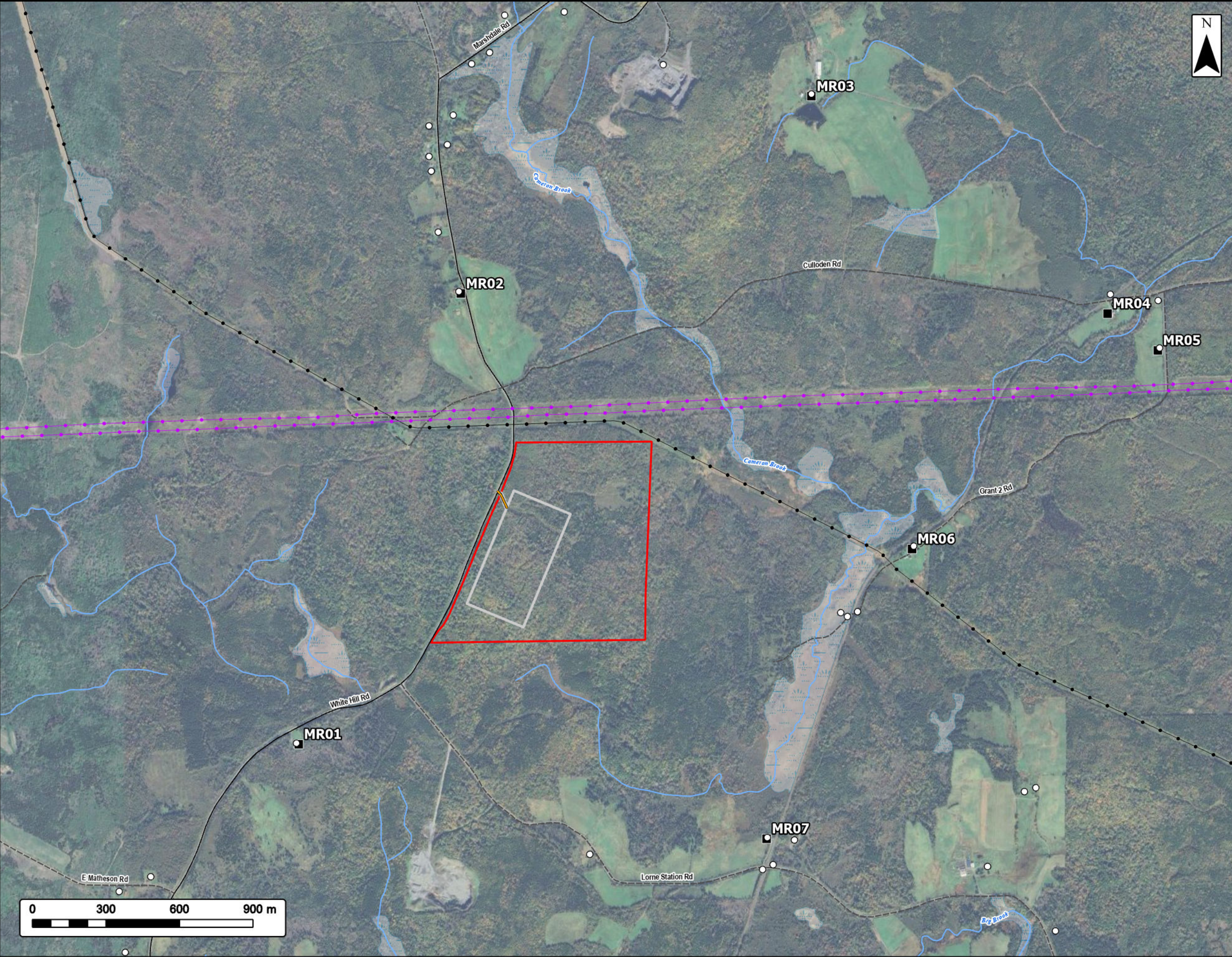
- Project Area
- Nature Reserve
- Wilderness Area
- Land Trust or Conservation Easement
- Reserve Land
- Town of Stellarton Source Water Protection Area
- Utilities (line)**
- Existing Pipeline
- Existing Transmission Lines
- Transportation**
- Trans-Canada Highway
- Road
- Unpaved Road
- Water Features**
- Mapped Watercourse
- Mapped Lakes and Rivers
- Mapped Wetland



Coordinate System: NAD 1983 CSRS UTM Zone 20N
Sources: Esri, NASA, NGA, USGS, Service Nova Scotia, GeoNOVA, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin

Date:	2025-12-01	Project #:	25-12222
Scale:	1:175,000	Drawing #:	3.3
Drawn By:	K. Wallace		
Checked By:	M. Juurlink		





Fast Acting Natural Gas Power Generation Facility - Marshdale

Receptors

Project Area

Project Footprint

Receptor

Modelled Receptor

Access Road

Utilities (line)

Existing Pipeline

Existing Transmission Lines

Transportation

Road

Unpaved Road

Water Features

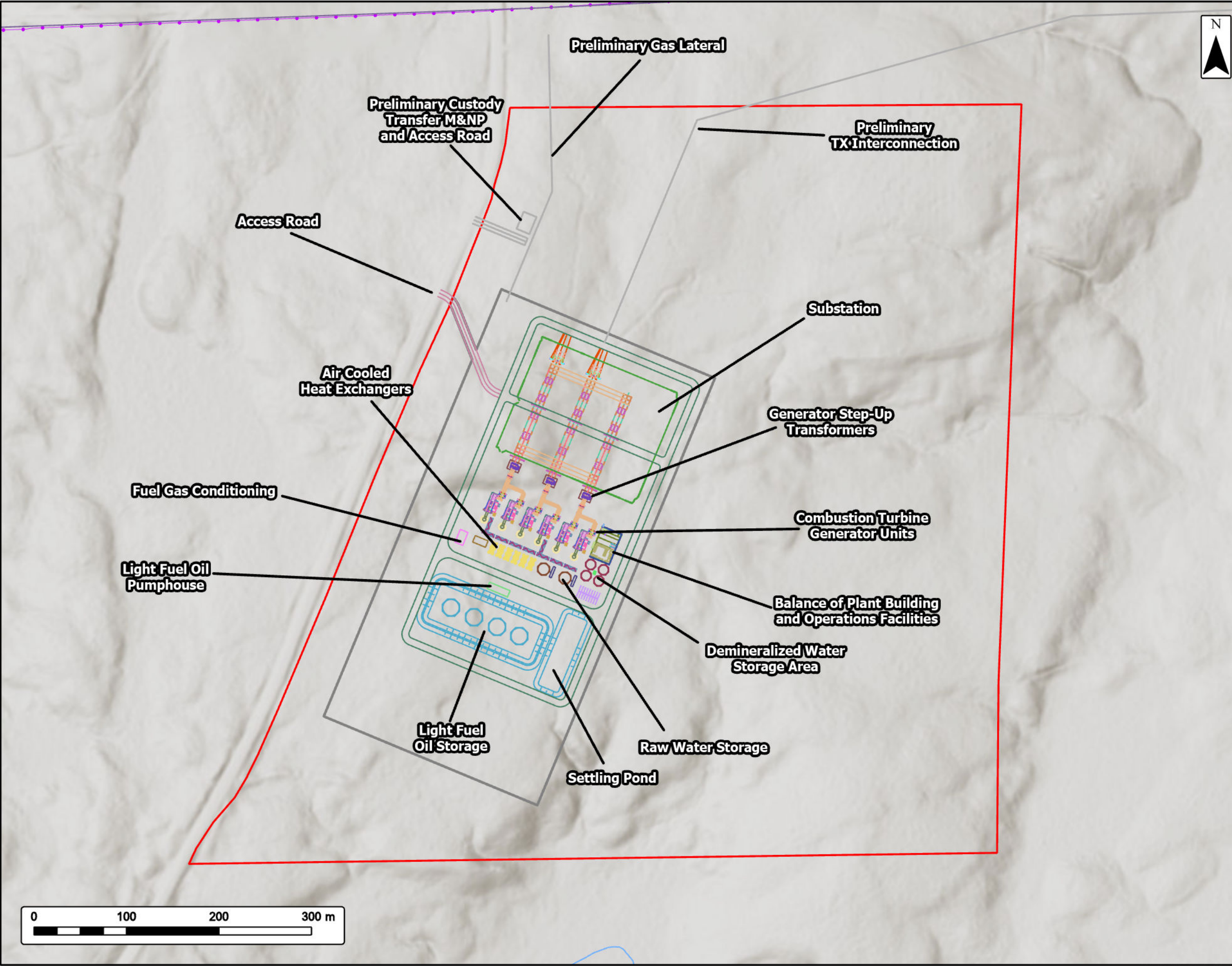
Mapped Watercourse

Mapped Wetland

Coordinate System: NAD 1983 CSRS UTM Zone 20N

Sources: © OpenStreetMap (and) contributors, CC-BY-SA, GeoNOVA, NSNRR, ACCDC, ISA Canada, CNWI, HERE, Garmin

Date:	2025-12-01	Project #:	25-12222
Scale:	1:15,000	Drawing #:	3.4
Drawn By:	K. Wallace		
Checked By:	M. Juurlink		



Fast Acting Natural Gas Power Generation Facility - Marshdale
Project Components



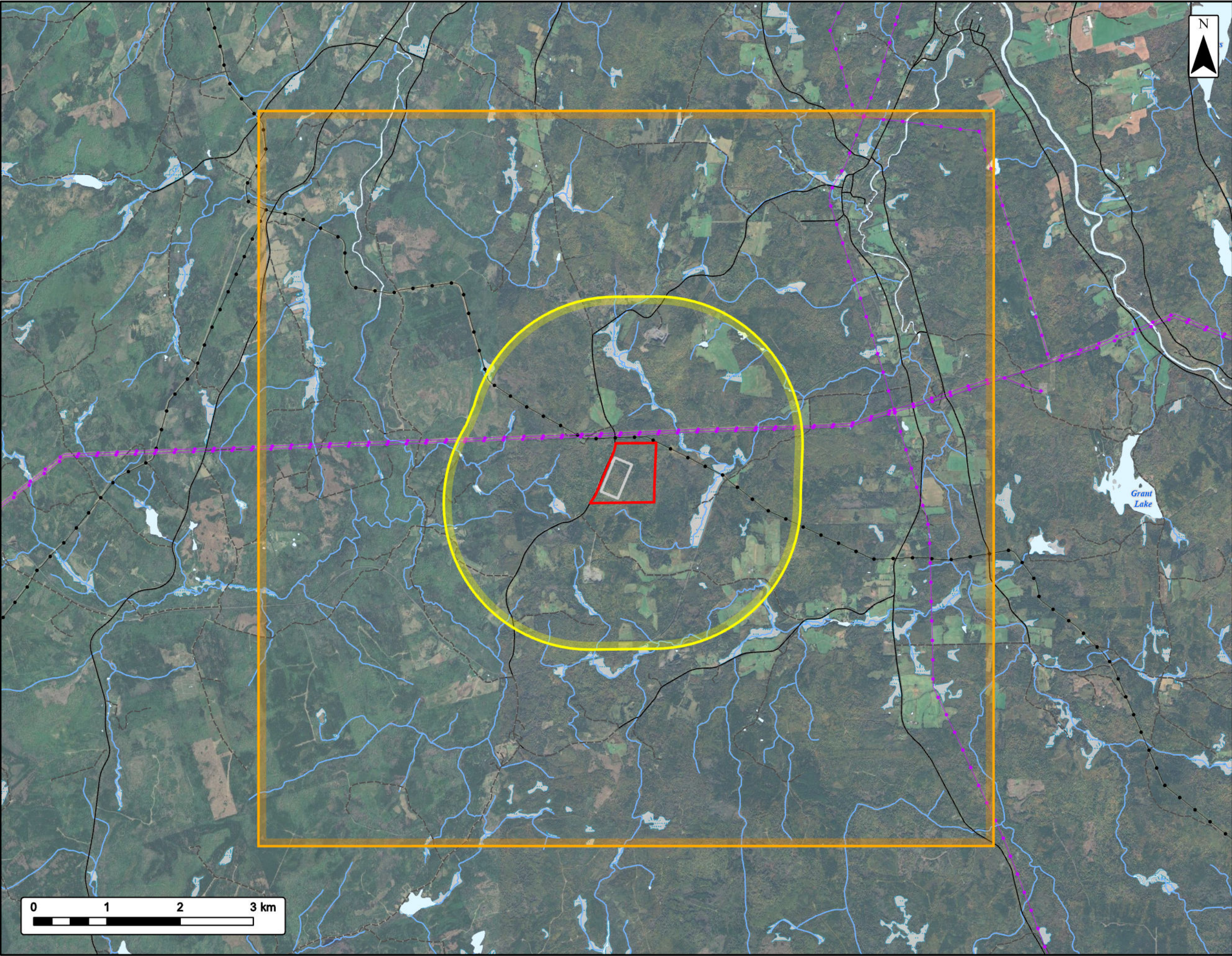
Project Area	
Project Footprint	
Infrastructure	
Incidental Infrastructure	
Utilities (line)	
Existing Power Transmission Lines	
Water Features	
Mapped Watercourse	



Coordinate System: NAD 1983 CSRS UTM Zone 20N
Sources: Sources: Esri, Vantor, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodanzyreisen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap, and the GIS user community, GeoNOVA, NSNRR, ACCOC, IBA Canada, CNVI, HERE, Garmin

Date:	2025-12-10	Project #:	25-12222
Scale:	1:4,000	Drawing #:	3.5
Drawn By:	K. Wallace		
Checked By:	M. Juurlink		





Fast Acting Natural Gas Power Generation Facility - Marshdale

Atmospheric Spatial Boundaries



Project Area

Project Footprint

Air LAA

Noise LAA

Utilities (line)

Existing Pipeline

Existing Transmission Lines

Transportation

Road

Unpaved Road

Water Features

Mapped Watercourse

Mapped Lakes and Rivers

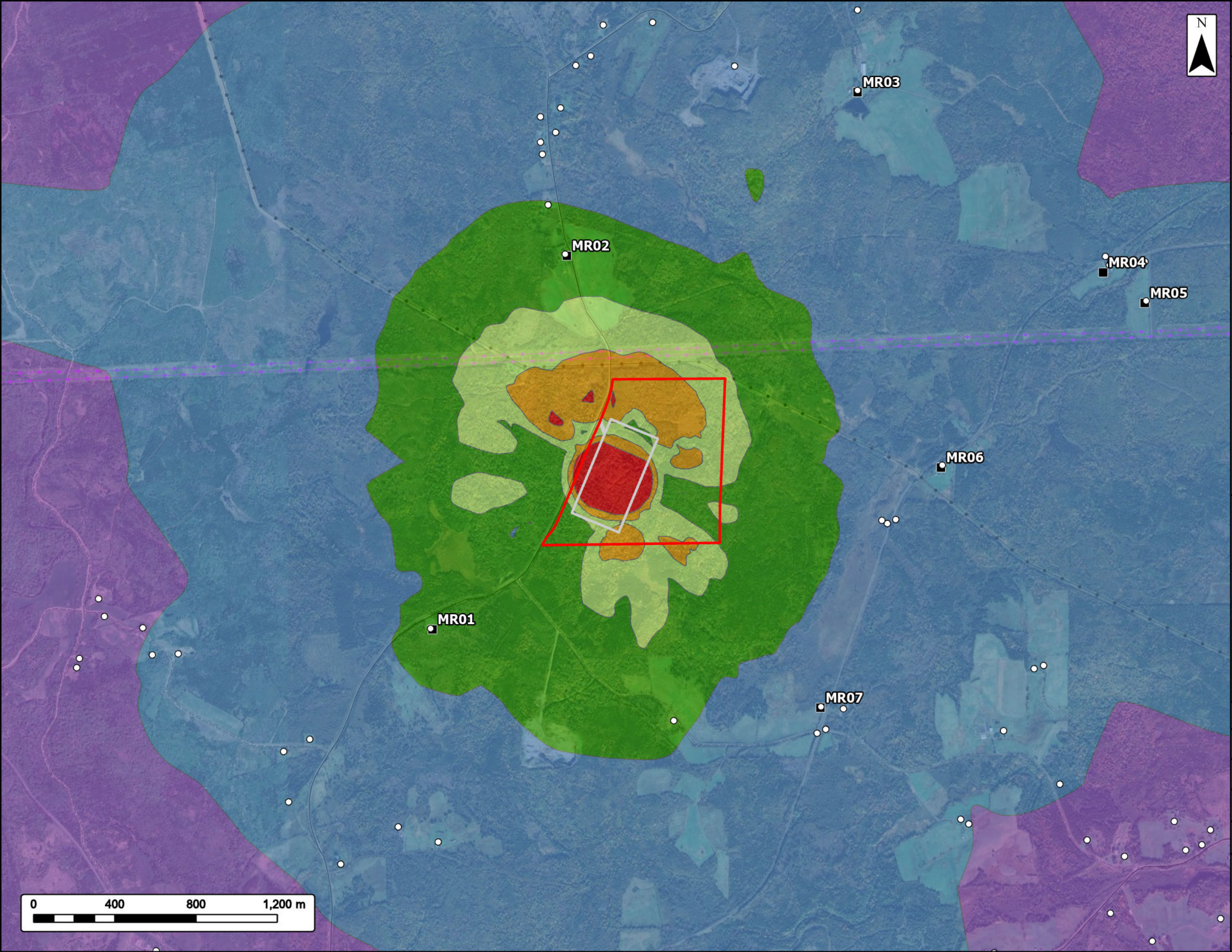
Mapped Wet Areas



Coordinate System: NAD 1983 CSRS UTM Zone 20N
Sources: © OpenStreetMap (and) contributors, CC-BY-SA, GeoNOVA, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin

Date:	2025-12-01	Project #:	25-12222
Scale:	1:50,000	Drawing #:	7.1
Drawn By:	K. Wallace		
Checked By:	R. Hearn		





Fast Acting Natural Gas Power Generation Facility - Marshdale

Max Predicted 1-hour NO₂ Concentrations

Project Area

Project Footprint

Receptor

Modelled Receptor

ug/m³ (Inclusive of background) *

10 - 20

20 - 40

40 - 60

60 - 80

80 - 100

100 - 211

Utilities (line)

Existing Pipeline

Existing Transmission Lines

Transportation

Road

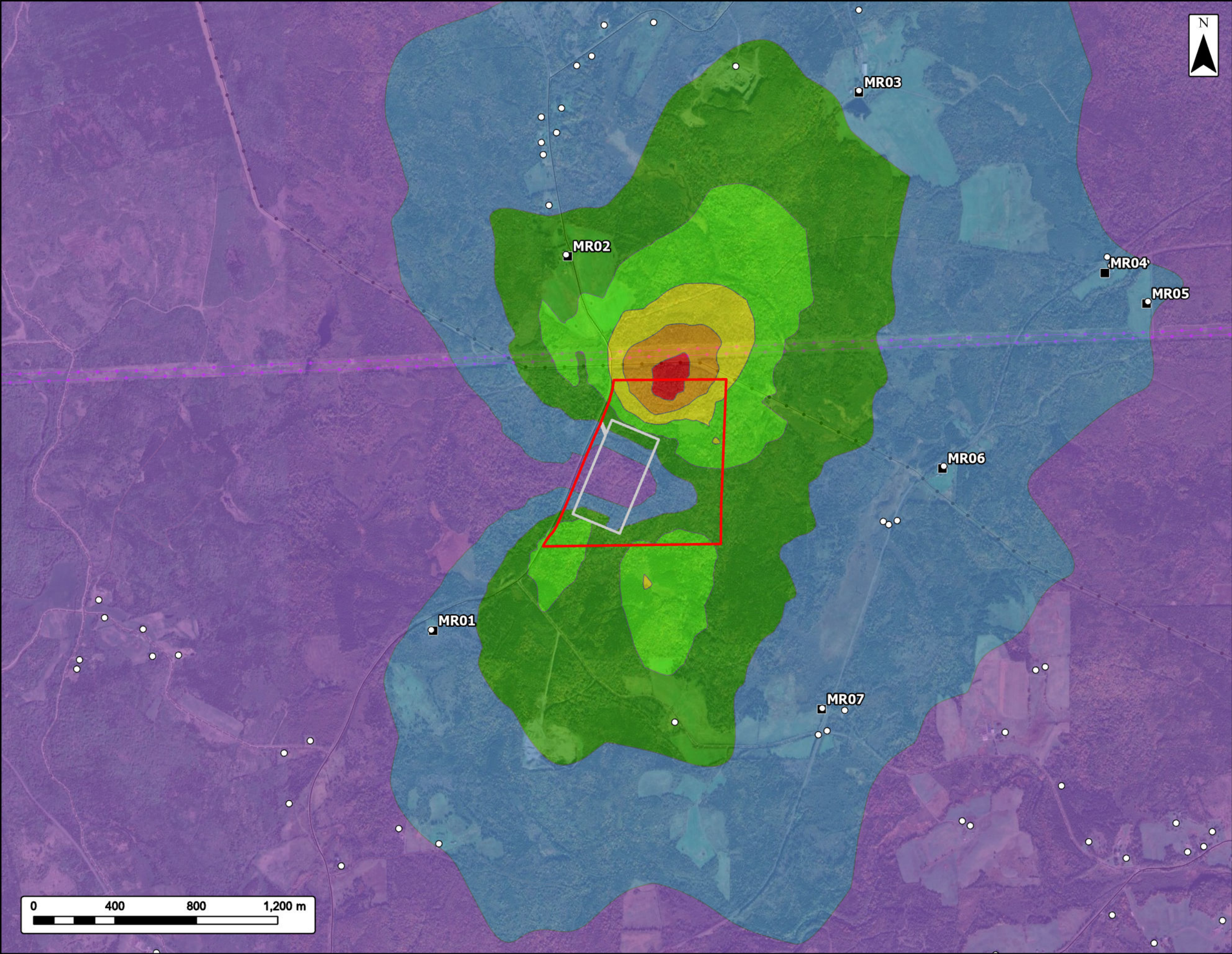
Unpaved Road

*** Background: 3.76 ug/m³**
AAQS Maximum Permissible Limit: 400 ug/m³

Coordinate System: NAD 1983 CSRS UTM Zone 20N

Sources: © OpenStreetMap (and) contributors, CC-BY-SA, GeoNOVA, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin

Date:	2025-12-10	Project #:	25-12222
Scale:	1:18,000	Drawing #:	7.2
Drawn By:	K. Wallace		
Checked By:	R. Hearn		



Fast Acting Natural Gas Power Generation Facility - Marshdale

Predicted 24-hour PM2.5 Concentrations

Project Area

Project Footprint

Receptor

Modelled Receptor

11.20 - 11.40

11.40 - 11.60

11.60 - 11.80

11.80 - 12.00

12.00 - 12.20

12.20 - 12.40

12.40 - 12.60

Utilities (line)

Existing Pipeline

Existing Transmission Lines

Transportation

Road

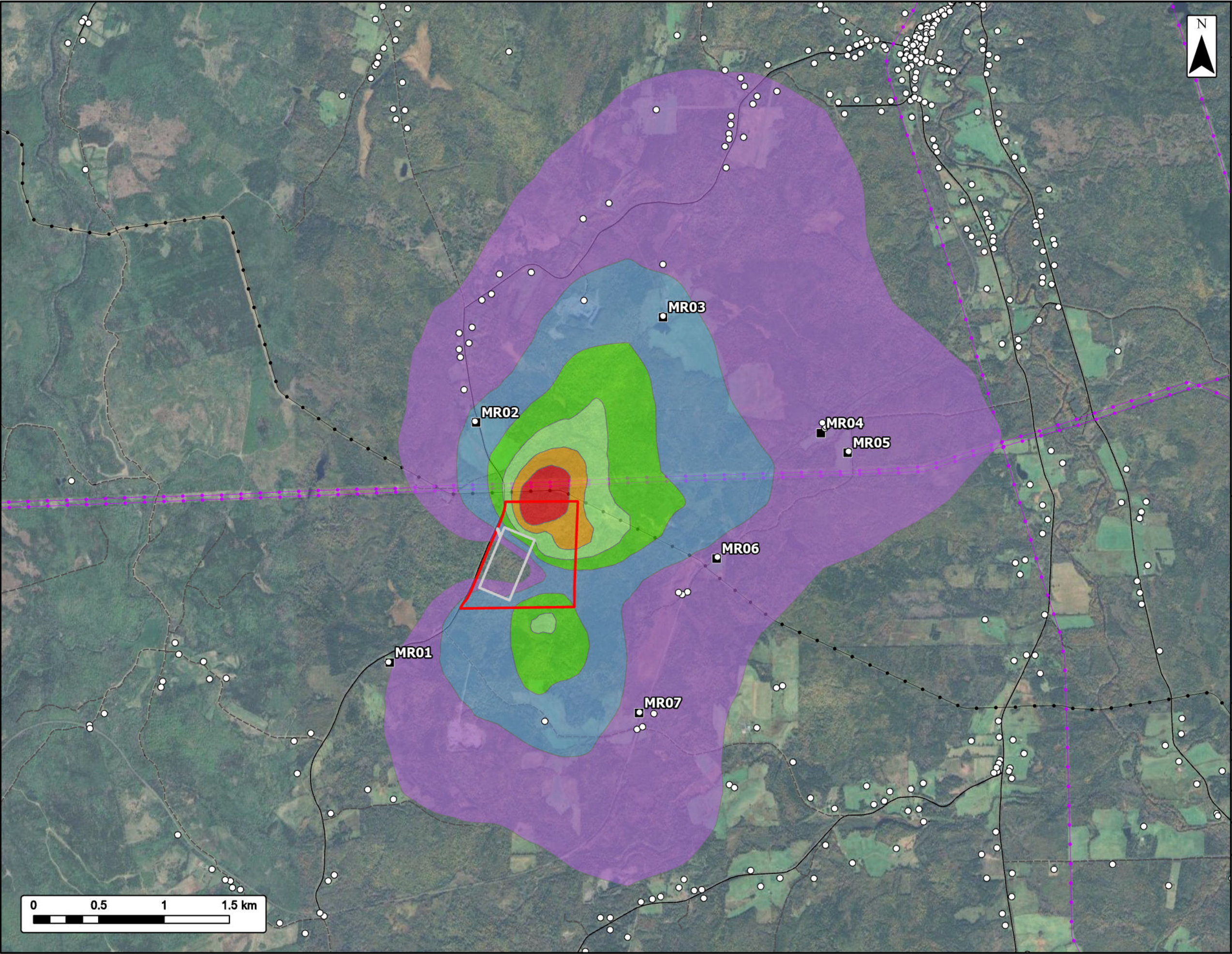
Unpaved Road

* Background: 11.2 ug/m³

CAAQS Limit: 27 ug/m³

Date:	2025-12-10	Project #:	25-12222
Scale:	1:18,000	Drawing #:	7.3
Drawn By:	K. Wallace		
Checked By:	R. Hearn		

S:\Strum Project Files\2025 Files\25-12222\Drawings\AroGIS\IEA [delete if not EA project]\25-12222_RIPS_NoiseandAirDis\25-12222_RIPS_NoiseandAirDis.aprx



Fast Acting Natural Gas Power Generation Facility - Marshdale

Predicted Annual PM2.5 Concentrations

Project Area

Project Footprint

Receptor

Modelled Receptor

ug/m³ (Inclusive of background)*

5.000 - 5.020

5.020 - 5.040

5.040 - 5.060

5.060 - 5.080

5.080 - 5.100

5.100 - 5.130

Utilities (line)

Existing Pipeline

Existing Transmission Lines

Transportation

Road

Unpaved Road

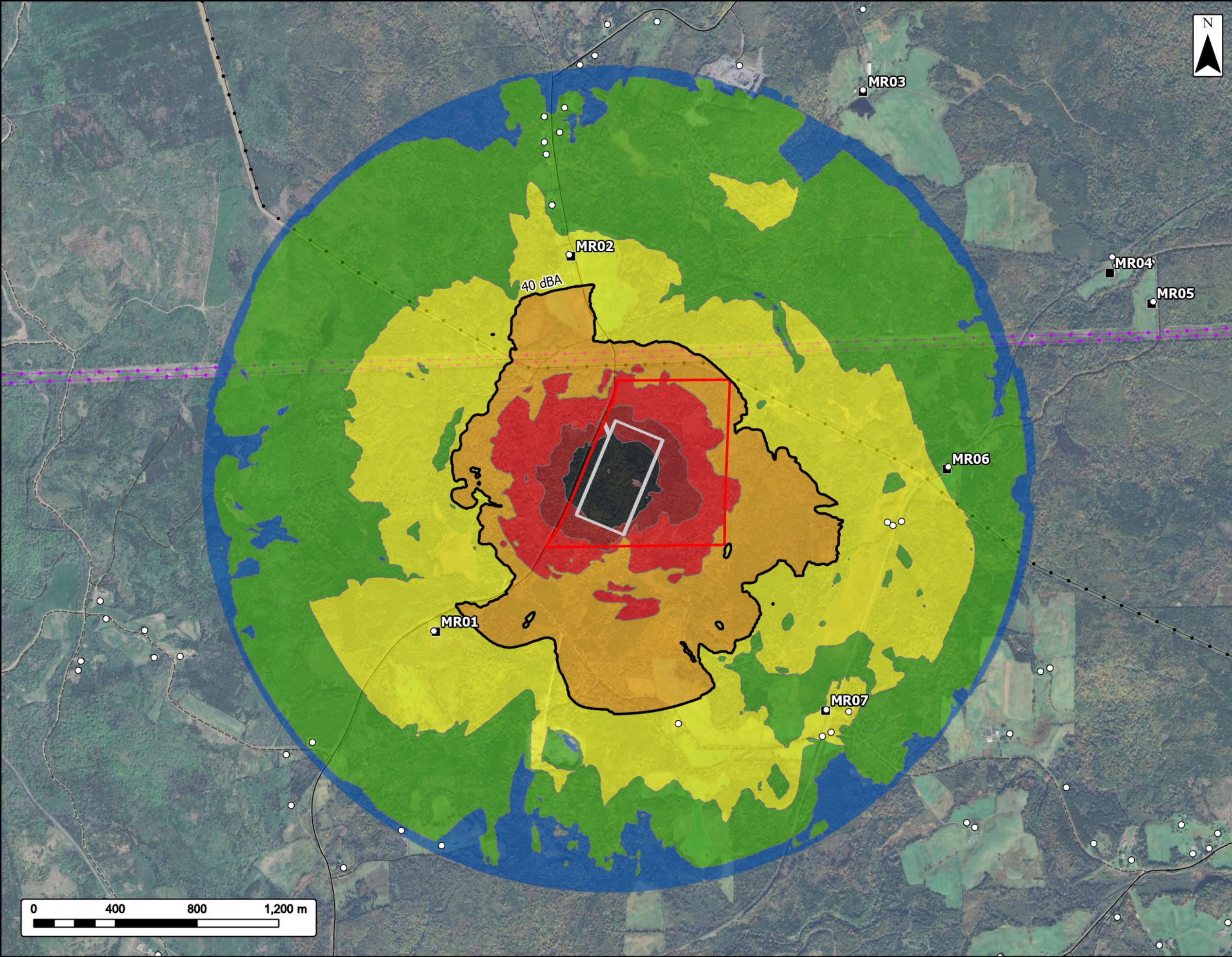
* Background: 5.0 ug/m³

CAAQS Limit: 8.8 ug/m³

Coordinate System: NAD 1983 CSRS UTM Zone 20N

Sources: © OpenStreetMap (and) contributors, CC-BY-SA, GeoNOVA, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin

Date:	2025-12-10	Project #:	25-12222
Scale:	1:28,000	Drawing #:	7.4
Drawn By:	K. Wallace		
Checked By:	R. Hearn		



Fast Acting Natural Gas Power Generation Facility - Marshdale

Noise Model

Project Area

Preliminary Site Boundary

Receptor

Modelled Receptor

Permissible Overnight Sound Level for a Rural Area (40 dBA)

Noise Contour (dBA)

25 - 30

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

55 +

Utilities (line)

Existing Pipeline

Existing Transmission Lines

Transportation

Road

Unpaved Road

Coordinate System: NAD 1983 CSRS UTM Zone 20N

Sources: © OpenStreetMap (and) contributors, CC-BY-SA, GeoNOVA, NSNRR, ACCDC, IBA Canada, CNWI, HERE, Garmin

Date:	2025-12-10	Project #:	25-12222
Scale:	1:18,000	Drawing #:	7.5
Drawn By:	K. Wallace		
Checked By:	R. Hearn		