

Nowthen Land

Anoka County, Minnesota















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Michelle is an Associate Broker and Auctioneer with Peoples Company. A nationally recognized land company and advisory firm offering services throughout the United States. An award-winning auction division, and industry leading brokerage business. Her diverse 25 plus years of real estate experience includes facilitating farm land transactions, development land as well as rural and recreational properties. Representing landowners to assist in the acquisition or disposition of land assets through traditional listings and a variety of land auction formats as well as land leases and lease sales.

Areas of Expertise

·Farm Land ·Real Estate Auctions ·Hobby Farms ·Recreational Properties ·Institutional Investor Portfolio Creation ·Strategic Marketing ·Real Estates Acquisitions ·Land Resources Income (Solar, Wind, Carbon and Minerals)

Education and Certification

- ·Licensed Real Estate Broker: Minnesota, North Dakota, South Dakota, Wisconsin and Nebraska
- ·World Wide College of Auctioneering
- ·Professional Ringmen's Institute

Community Focus

·Current volunteer and Board Member with Midwest Outdoors Unlimited

Memberships

Realtors Land Institute- National Assoc. of Realtors- MNAuctioneers Assoc.-Land Broker MLS-North Star MLS















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Property Summary





State	Minnesota
County	Anoka
Acreage	79
△ Land Real Estate Value	\$6,343 / ac
Solar Value (SOLAR FARM LEASE)	\$259 /ac /yr
⇒ Wind Value (WIND FARM LEASE)	\$1,497 /ac /yr
© Carbon (CARBON CREDITS)	\$23 /ac / yr
Mining Value	-
୍ୟ ^ର Oil and Gas (MINERAL LEASE)	\$20 /ac
	-
☐ EV Charging/Battery Storage Value	-

LandGate's <u>engineered valuations</u> take into account large amounts of granular technical data to determine market values of land-based real estate. Valuations for each of the property's segments are based on the most up to date technical data and market conditions. These valuations should not be used as a certified appraisal.





Land Summary

View the breakdown of this property's cropland, pastureland, developed, water, woodland, and barren areas.





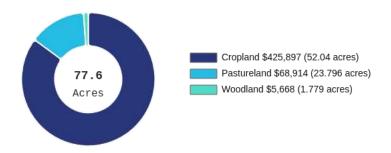
Land Details





Total Land Value:

Total Land Value \$500,480 (\$6,448/ac)



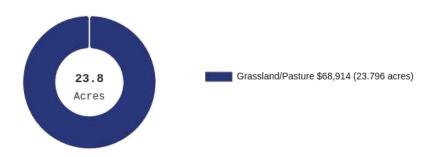


Land Breakdown:

Cropland \$425,897 (\$8,184/ac)



Pastureland \$68,914 (\$2,896/ac)



Woodland \$5,668 (\$3,186/ac)



Cropland Irrigation Percent:	26.791 %
LandGate Relative Water Stress:	39.1 %
Annual Precipitation:	32.1 ″
Average Annual Wind Speed:	18.3 mph
Average 3D Solar Irradiance:	339 W/m ²
Average High Temp:	53.9 °F
Average Low Temp:	34.8 °F
Average Slope:	1.2 °
Maximum Slope:	3°





Solar Summary

View all of the parameters that go into evaluating this property for solar.



27,537.215 MWh



Solar Details





Status:		No Solar Farm Activity	Nearest Transmission Line	
Estimated Solar Royalties / Rent			Owner:	NORTHERN STATES
Potential Solar Lease Rent:		\$259 / ac / yr		POWER CO - MINNESOTA
Buildable Acreage For Sola	ar		Distance:	1.034 miles
Gross Parcel Acreage:		79 ac	Max Capacity:	1,147 MW
Buildable Acreage For Solar		78 ac	Available Capacity:	-
Acreage Details:			Nearest Solar Farm	
	Dwelling	0 ac	Operator:	Anoka County MN CONX
	. 0		Distance:	5.724 miles
	Wetland	1 ac	Operating Capacity:	3.4 MW
	Topography		Commodity Pricing	
		0 ac	Wholesale Market:	
Nearest Substation			Avg. Energy Price:	-
		TAP139660	State/Local Incentives:	110 \$/MWh
		2.739 miles	Total Value of Solar Energy:	-
	acity.	-	Resource	
Substation Hosting cap	derey.		2D Solar Irradiance:	288.105 W/m ²
			3D Solar Irradiance:	339.389 W/m ²
			Potential Capacity / Output	
			Possible Number of Solar Panels on	51,055
			Parcel:	
			Parcel Max. Capacity:	22.72 MW

Max. Annual Output:



Solar Farms



Nearby Solar Farm (5.71 mi)



Details

Anoka County Mn Conx Name: Operator Name: Engie Na (Socore Energy Llc) Developer Name: Planned Capacity: **Building Capacity:** 3.4 MW Operating Capacity: AC Capacity: 3.4 MW Capacity Factor: 17.2% 62061 EIA Plant Code(s): Active Status: 01/01/2018 Operating Date:

Substation Interconnection: Unknown131561

Grid Voltage(s): 12.47

Transmission/Distribution System Owner Region:

Energy Storage: false
NERC Region: MRO

Balancing Authority: Midcontinent Independent

Transmission System

-)O(-

Operator, Inc..

Connexus Energy

Project Acres:

MW/Acre:

Location: ANOKA, MN

Generator Details



Project Specific PPA Data

Status: Price:

Energy Pricing

Pricing Type: LMP

EIA Region Index: STEO.ELWHU_MW.M
PNode Name: NSP.MNTCEL1

Incentive Pricing

REC/PBI Price (\$/MWh): 0

REC/PBI Price Yearly Increase (%/yr):

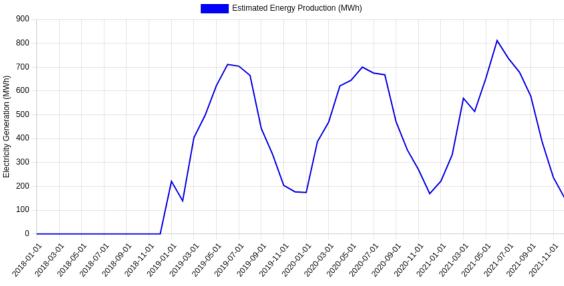
 REC/PBI Term (yrs):
 30

 FIT Price (\$/MWh):
 110

 FIT Term (yrs):
 0

Electricity Generation

Production Start:
Average Annual Electricity Generation:
Cumulative Electricity Generation:



01/01/2018

4,149 MWh/yr 16,597 MWh

Solar Lease Value Heat Map













Wind Summary

View all of the parameters that go into evaluating this property for wind.





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Wind Details



Legend:

OElectric Substation Power Plant

Energy Storage

/ Transmission Line

/ Distribution Line

Wind Farm Outline

⊕Wind Farm

Pricing Node

Wind: No Wind Farm Activity

0 ac

1 ac

0 ac

Estimated Wind Royalties / Rent

Potential Wind Lease Rent: \$1,497 / ac / yr

Buildable Acreage For Wind

Gross Parcel Acreage: 79 ac 78 ac

Total Buildable Acreage:

Acreage Details:

Dwelling

Wetland

Topography 5%

Nearest Substation

Substation Name: TAP139660 Distance: 2.739 miles

Substation Hosting Capacity:

Nearest Transmission Line

Owner: NORTHERN STATES POWER CO -

MINNESOTA

Distance: 1.034 miles Max Capacity: 1,147 MW

Available Capacity:

Nearest Wind Farm

Eolos Wind Energy Research Field Name:

Station

Distance: 46.117 miles 2.5 MW Operating Capacity:

Commodity Pricing

Wholesale Market:

Avg. Energy Price:

110 \$/MWh State/Local Incentives:

Total Value of Wind Energy:

Resource

Avg. Annual Wind Speed: 8.196875

Potential Capacity / Output

0.5 Possible Number of Wind

Turbines on Parcel:

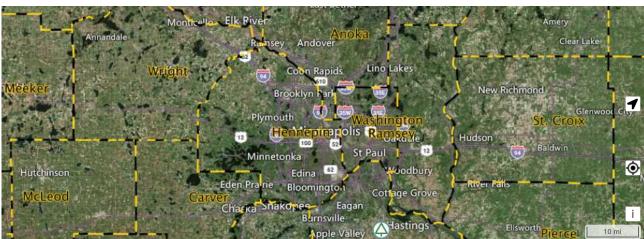
Parcel Max. Capacity: 3.209 MW Parcel Max. Annual Output: 15,129.459 MWh



Wind Farms

⇒

Nearby Wind Farm (46 mi) 🛧



Details

System Owner:

Name:Eolos Wind Energy ResearchEnergy Storage:falseField StationNERC Region:MRO

Owner Name: Balancing Authority: Midcontinent Independent

Planned Capacity: - Transmission System

Building Capacity: - Operator, Inc..

Operating Capacity:2.5 MWProject Acres:-AC Capacity:2.5 MWAcres/Turbine:-Capacity Factor:12.5%MW/Acre:-

Capacity Factor: 12.5% MW/Acre: EIA Plant Codes: 57880 Number of Turbines: 1

Status:OperatingStreet Address:Operating Date:01/01/2011City:

Point of Interconnection:Tap138602County:DAKOTAGrid Voltage(s):34.5State:MN

Transmission/Distribution Northern States Power Co -

Minnesota

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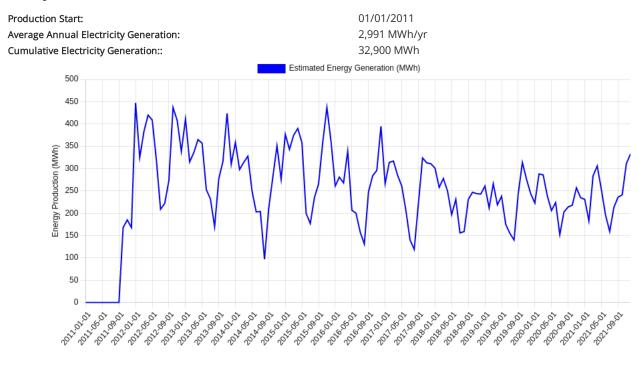
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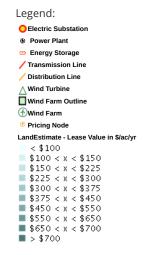
Generator Details



Electricity Generation



Wind Lease Value Heat Map





Power Grid Information

Transmission Lines (1)

Transmission Line 1



Nearby Transmission Line (1.03 mi) /



Details

IN SERVICE Status: County: Sherburne State:

NORTHERN STATES POWER CO - MINNESOTA Owner:

AC; OVERHEAD Type: 345 kV

Voltage:

SHERBURNE COUNTY Substation 1: Substation 2: **BUNKER LAKE**

Length:

Transmission Line Load & Limits

Conductor Amperage: 2,020 amps Max Capacity: 1,147 MW Available Capacity: Interconnected DER: Queued DER: Average Peak Load: Average Load:

Substations (1)

Substation 1









69 kV

Details

Substation Name:TAP139660Status:IN SERVICECity:RAMSEYCounty:ANOKAState:MNLines Connected:3Max Voltage:69 kV

Min Voltage: Load Zone:

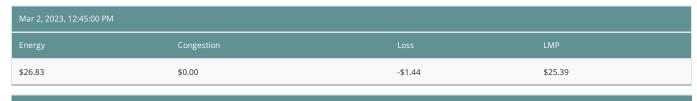


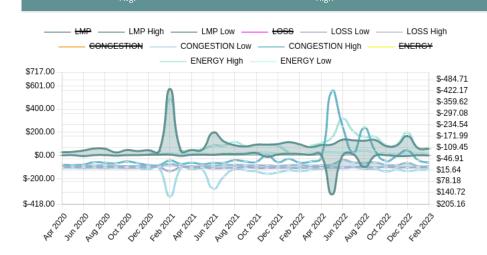
LMP Data

NSP.MNTCEL1

Wholesale Market

MIDCONTINENT INDEPENDENT TRANSMISSION SYSTEM OPERATOR, INC..





Interconnection Queue

Anoka County, MN

Queue : Date	÷	Project Name	Project Operator	Status 💠	Capacity (MW)	Point of Interconnection	Generation †	In- Service 💠 Date	Queue Source	Transmission Owner
07/22/2021	1	J2199	-	In Queue	200	COON CREEK	Battery Storage		MISO	Northern States Power (Xcel Energy)

💛 - Interconnection Queue is connecting to this substation



Anoka County, MN Stats

Installed Capacity

Total Substations:	50
Total Active Generators:	0
Active Generating Capacity (MW _{AC}):	0
Total Under Construction:	0
Total Approved Requests:	0
Total In-Queue:	1
Total Withdrawn Requests:	0
Most Recent Interconnection:	
Next Planned Interconnection:	

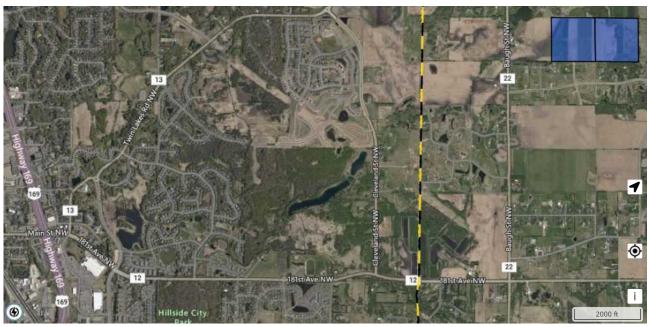


Power Plants

Power Plant 1



Nearby Power Plant (3.38 mi) (9)



Details

Name: Elk River

Operator Name: Great River Energy

Primary Energy Source: Unknown

Planned Capacity:

Building Capacity: Operating Capacity: 191.3 MW

Operating Capacity: 191.3 M
Capacity Factor: 85%

Capacity Factor: 85%
EIA Plant Code(s): 2039

Status: Operating

Operating Date:01/01/2001Point of Interconnection:Elk River

Grid Voltage(s): 230

Transmission/Distribution System Owner:

Energy Storage:

NERC Region:

MRO

Balancing Authority: Midcontinent Independent Transmission System Operator, Inc..

Street Address: 17845 East Highway 10

City:Elk RiverCounty:Sherburne

State: MN



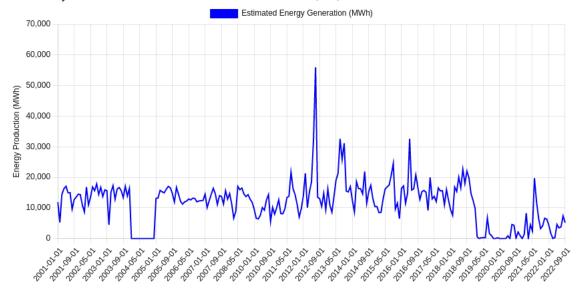
Generator Details



ID Technology	Status 💠	Operating Date	;	Nameplate Capacity (MW)	Nameplate Power Factor	Minimum Load (MW)	Retired Date
3 Municipal Solid Waste	Retired	01/01/1959		25 MW		-	03/01/2019
CT Natural Gas Fired Combustion Turbine	Operating			191.3 MW	0.85	110 MW	

Electricity Generation

Production Start: Average Annual Electricity Generation: Cumulative Electricity Generation: 01/01/2001 139,110 MWh/yr 2,921,301 MWh







Carbon Summary

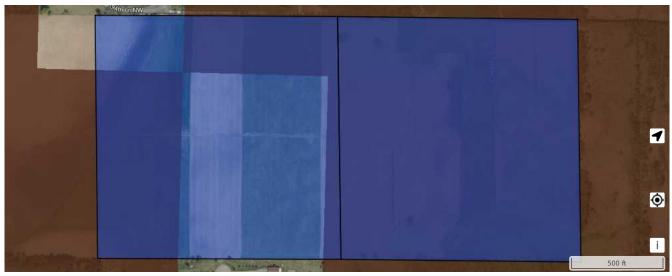
View all of the parameters that go into evaluating this property for carbon.





Carbon Details





Tree Carbon Storage in (ton/acre/year)



Min >0

Carbon Credits Summary

Total Carbon Credits

Total Parcel Acres (ac):	78.93
Tree Cover Acres (ac):	0
Non-Tree Cover Acres (ac):	78.93
Carbon Credits Offset Est. Current Year (ton/ac/yr):	0.954
Carbon Credits Offset Est. Current Year (ton/yr):	75.318
Carbon Credits Est. Current Year (\$/ac/yr):	\$32.92
Carbon Credits Est. Current Year (\$/yr):	\$2,598.19
Total Carbon Offset Est. 30 yr Avg (ton/ac/yr):	2.363
Total Carbon Offset Est. 30 yr Avg (ton/yr):	186.484
Carbon Credits Est. 30 yr Avg (\$/ac/yr):	\$195.73
Carbon Credits Est. 30 yr Avg (\$/yr):	\$15,448.60



\$6,506.70



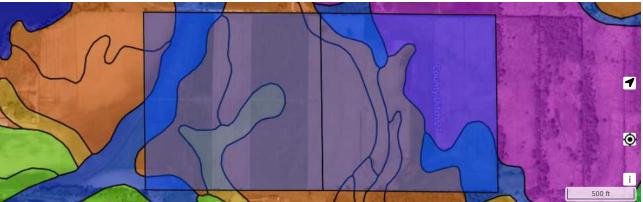
	V
Tree Carbon Credits	
Tree Acres (ac):	0
Tree Canopy Avg. Height (ft):	
Tree Canopy Density (%):	0
Forest Age (yr):	51
Mangrove Forest (ton/ac/yr):	0
Water Precipitation (in/yr):	32.00
Tree Carbon Offset Est. Current Year (ton/ac/yr):	0.000
Tree Carbon Offset Est. Current Year (ton/yr):	0.000
Tree Carbon Credits Est. Current Year (\$/ac/yr):	\$0.00
Tree Carbon Credits Est. Current Year (\$/yr):	\$0.00
Tree Carbon Offset Est. 30 yr Avg (ton/ac/yr):	0.000
Tree Carbon Offset Est. 30 yr Avg (ton/yr):	0.000
Tree Carbon Credits Est. 30 yr Avg (\$/ac/yr):	\$0.00
Tree Carbon Credits Est. 30 yr Avg (\$/yr):	\$0.00
Reforestation Potential Carbon Credits	
From Non-Tree Cover Acres (ac):	78.93
From Tree Cover Acres (ac):	0
Exclusion Zone for Non-Tree Area only (ac):	0.13
Potential Area for Reforestation Acres (ac):	24.11
Water Precipitation (in/yr):	32.00
Suggested Tree Type for Reforestation:	Red Pine
Maximum Tree Canopy Density (%):	30.60
Reforestation Carbon Offset Est. Current Year (ton/ac/yr):	0.001
Reforestation Carbon Offset Est. Current Year (ton/yr):	0.060
Reforestation Carbon Credits Est. Current Year (\$/ac/yr):	\$0.002
Reforestation Carbon Credits Est. Current Year (\$/yr):	\$1.79
Reforestation Carbon Offset Potential Est. 30 yr Avg (ton/ac/yr):	0.105
Reforestation Carbon Offset Potential Est. 30 yr Avg (ton/yr):	99.750
Reforestation Carbon Credits Est. 30 yr Avg (\$/ac/yr):	\$113.289
Reforestation Carbon Credits Est. 30 yr Avg (\$/yr):	\$8,941.9
Tree Types:	
Soils Carbon Credits	
Organic Carbon Stocks(ton/ac):	16.202
Organic Carbon Density (kg/m³):	146.993
Soil Carbon Offset Est. Current Year (ton/ac/yr):	0.953
Soil Carbon Offset Est. Current Year (ton/yr):	75.258
Soil Carbon Credits Est. Current Year (\$/ac/yr):	\$32.89
Soil Carbon Credits Est. Current Year (\$/yr):	\$2,596.40
Soil Carbon Offset Est. 30 yr Avg (ton/ac/yr):	1.099
Soil Carbon Offset Est. 30 yr Avg (ton/yr):	86.734
Soil Carbon Credits Est. 30 yr Avg (\$/ac/yr):	\$82.44
Cail Carle on Cradita Fat 20 on Aver (t.)	#C FOC 70

Soil Carbon Credits Est. 30 yr Avg (\$/yr):

B/D



Soil Types:





	Soil Type 1
Dominant Soil Group:	В
Soil Classification:	7
Soil Acres:	27.89
Soil Description:	Heyder fine sandy loam, 2 to 6 percent slopes
Carbon Offset Est. Current Year (ton/ac/yr):	0.603
Carbon Offset Est. Current Year (ton/yr):	8.440
Carbon Offset Est. 30 yr Avg (ton/ac/yr):	0.835
Carbon Offset Est. 30 yr Avg (ton/yr):	11.685
	Soil Type 2
Dominant Soil Group:	A/D
Soil Classification:	100
Soil Acres:	14.22
Soil Description:	Rifle mucky peat
Carbon Offset Est. Current Year (ton/ac/yr):	0.761
Carbon Offset Est. Current Year (ton/yr):	10.826
Carbon Offset Est. 30 yr Avg (ton/ac/yr):	0.761
Carbon Offset Est. 30 yr Avg (ton/yr):	10.826
	Soil Type 3
Dominant Soil Group:	B/D
Soil Classification:	100
Soil Acres:	12.12
Soil Description:	Loamy wet land
Carbon Offset Est. Current Year (ton/ac/yr):	1.533
Carbon Offset Est. Current Year (ton/yr):	9.289
Carbon Offset Est. 30 yr Avg (ton/ac/yr):	1.533
Carbon Offset Est. 30 yr Avg (ton/yr):	9.289
	Soil Type 4
Dominant Soil Group:	C
Soil Classification:	7
Soil Acres:	10.03
Soil Description:	Growton fine sandy loam, 1 to 4 percent slopes
Carbon Offset Est. Current Year (ton/ac/yr):	0.603
Carbon Offset Est. Current Year (ton/yr):	3.042
Carbon Offset Est. 30 yr Avg (ton/ac/yr):	0.835
Carbon Offset Est. 30 yr Avg (ton/yr):	4.211
	Soil Type 5
Dominant Soil Group:	В
Soil Classification:	0
Soil Acres:	5.96
Soil Description:	Heyder fine sandy loam, 6 to 12 percent slopes, eroded
Carbon Offset Est. Current Year (ton/ac/yr):	0.265
Carbon Offset Est. Current Year (ton/yr):	1.578
Carbon Offset Est. 30 yr Avg (ton/ac/yr):	0.380
Carbon Offset Est. 30 yr Avg (ton/yr):	2.265
3 3 3 3	Soil Type 6
	Son Type o

Dominant Soil Group:

Soil Classification:	92
Soil Acres:	4.53
Soil Description:	Nowen sandy loam
Carbon Offset Est. Current Year (ton/ac/yr):	0.732
Carbon Offset Est. Current Year (ton/yr):	3.315
Carbon Offset Est. 30 yr Avg (ton/ac/yr):	0.768
Carbon Offset Est. 30 yr Avg (ton/yr):	3.479
Soil Type	7
Dominant Soil Group:	В
Soil Classification:	0
Soil Acres:	3.49
Soil Description:	Heyder fine sandy loam, 12 to 18 percent slopes
Carbon Offset Est. Current Year (ton/ac/yr):	0.533
Carbon Offset Est. Current Year (ton/yr):	0.926
Carbon Offset Est. 30 yr Avg (ton/ac/yr):	0.765
Carbon Offset Est. 30 yr Avg (ton/yr):	1.328
Soil Type	8
Dominant Soil Group:	В
Soil Classification:	0
Soil Acres:	0.69
Soil Description:	Heyder fine sandy loam, 18 to 30 percent slopes
Carbon Offset Est. Current Year (ton/ac/yr):	0.265
Carbon Offset Est. Current Year (ton/yr):	0.183
Carbon Offset Est. 30 yr Avg (ton/ac/yr):	0.380
Carbon Offset Est. 30 yr Avg (ton/yr):	0.262





Mining Summary

View all of the parameters that go into evaluating this property for mining.





Mining





0



Mining Summary

Rock Classification:

Percent of Parcels:

Rock Types:

Name:

Acres:

Rock Type 1

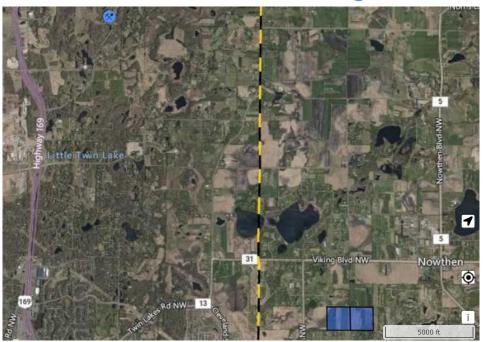
Middle and Upper Cambrian Sedimentary, Sandstone

79

100 %



Nearest Mining Locations 🛠



Details

Location Name: Barsody Pit

Location Type: **Construction Materials**

Distance from Parcel: 4.05 mi

Associated Claim/Owner Names:

Discovery Year:

Commodity Type: Non-Metal

Resource Size:

Main Commodity: Construction, Sand and Gravel

Additional Commodity:

Operation Type: Surface

County:

Rock Formation: Rock Type: Deposit Type:

Orebody Shape: Associated Waste Rock:

Geologic Notes:

Site Status: Producer State: Minnesota County: Sherburne

Year First Produced: Year Last Produced: Years Produced:







Oil and Gas

View all of the parameters that go into evaluating this property for oil & gas.







Oil & Gas





Parcel Status:

Oil & Gas: No Oil & Gas Development

Estimated Mineral Sale / Lease:

Mineral Sale: \$0 Mineral Lease: \$0

No oil and gas data to show





Executive Summary (2 Parcels)

Suggested Market Value Summary provides parcel level LandEstimate's for the following resource types: Land, Solar, Wind, Carbon Credit, and Oil & Gas Rights

Entries

Name	Id	Acreage	Address	Land Value	SOLAR FARM LEASE	WIND FARM LEASE	CARBON CREDITS	Oil & Gas (MINERAL LEASE)
1147425832	1147425832	39.7	ELK RIVER MN, 55330	\$6,021 / ac	\$262 /ac /yr	\$1,512 /ac /yr	\$20 /ac / yr	\$20 /ac

Name	Id	Acreage	Address	Land Value	SOLAR FARM LEASE	WIND FARM LEASE	CARBON CREDITS	Oil & Gas (MINERAL LEASE)
1147420606	1147420606	39.2	ANOKA MN, 55303	\$6,669 / ac	\$256 /ac /yr	\$1,482 /ac /yr	\$26 /ac / yr	\$20 /ac