Massena Brownfield Opportunity Area Draft Revitalization Plan

Massena, New York

Prepared for St. Lawrence County with funding from the New York State Department of State Brownfield Opportunity Areas Grant program.

MASSENA Doa

DRAFT June 2017



Acknowledgments

The organizations and entities below contributed to the Massena Brownfield Opportunity Area planning process and the findings presented in the draft revitalization plan.

STEERING COMMITTEE

- St. Lawrence County
- St. Lawrence County Industrial Development Agency
- Town of Massena
- Greater Massena Business Development Corporation
- St. Regis Mohawk Tribe Office of Economic Development
- Revitalizing Auto Communities Environmental Response Trust

REGIONAL PARTNERS

- Village of Massena
- Empire State Development, North Country Region
- Development Authority of the North Country
- Workforce Development Institute
- New York Power Authority
- New York State Department of State
- New York State Department of Environmental Conservation
- New York State Department of Transportation
- St. Regis Mohawk Tribe Planning and Infrastructure Division
- St. Regis Mohawk Tribe Environmental Division
- Mohawk Council of Akwesasne Economic Development
- U.S. Environmental Protection Agency
- U.S. General Services Administration









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1 Description of the Project and Boundary

1.1 LEAD PROJECT SPONSORS

Through the Brownfield Opportunity Area (BOA) program, the New York State Department of State provides grants to local governments to create revitalization strategies for neighborhoods affected by brownfields and vacant and underutilized properties. In 2011, St. Lawrence County, the lead project sponsor, completed a Step 1 Pre-Nomination Study for the former General Motors site in Massena, New York (GM Massena site). In 2015, St. Lawrence County initiated a Step 2 Revitalization Plan for the Massena BOA encompassing the former GM Massena site and adjacent properties. The Revitalization Plan builds on the preliminary planning work established in the Pre-Nomination Study and provides indepth analyses of redevelopment opportunities and site-specific redevelopment feasibility. This report summarizes St. Lawrence County's Revitalization Plan process and outlines revitalization strategies and actions to advance redevelopment across strategic locations within the Massena BOA.

1.2 PROJECT OVERVIEW AND DESCRIPTION

Massena is part of the North Country region, an area comprising New York's northern-most counties – Jefferson, Lewis, St. Lawrence, Franklin, Clinton, Essex and Hamilton. Massena (population 12,902) is in northeastern St. Lawrence County.¹

The Massena BOA Study Area encompasses 415 acres in the northeastern portion of Massena, along the St. Lawrence River and border of Akwesasne (Mohawk Nation of the federally recognized St. Regis Mohawk Tribe). The study area encompasses the former GM

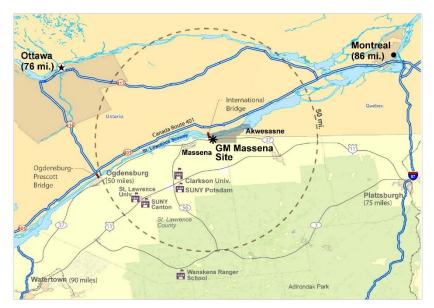


Figure 1-1. Regional Context

¹ Population based on 2014 American Community Survey, estimated population for the Town of Massena.

Massena Superfund site and surrounding properties.

1.3 GOALS

The purpose of the Massena BOA is to develop a redevelopment strategy for the GM Massena site that:

- Advances market-based redevelopment strategies for catalyst zones in the BOA Study Area.
- Identifies infrastructure improvements needed to support revitalization.
- Addresses challenges and builds on local assets.
- Develops multi-stakeholder support for a unified vision.
- Establishes partnerships and actions to advance revitalization.

1.4 COMMUNITY PRIORITIES AND VISION

The Massena BOA project uses an areawide approach to ensure that revitalization investments take the interests of the property owners, local and tribal governments and community residents into account alongside market considerations and physical conditions. While the Massena BOA faces challenges – a legacy of contamination and a regional economy with a declining industrial economic base – the community and region also has a significant opportunity – to build on the BOA's location and infrastructure assets along with the area's cultural and manufacturing heritage.

Vision Statement

Community input during visioning forums in June and July 2015 and subsequent Steering Committee discussion resulted in the vision statement below.

The vision of the Massena BOA is a productive use that provides employment and tax revenue that contribute to the economic health of the region, while also improving environmental and public health conditions for people living, working and recreating nearby.

Supplemental goals to guide evaluation of redevelopment options identified during the June and July 2015 forums are outlined below.

- Leverage site assets.
- Create jobs and contribute to the local tax base.
- Balance environment and economy.
- Maintain flexibility to accommodate multiple uses, or a single business.
- Pursue a phased approach to allow for redevelopment over time.
- Establish partnerships to support a unified vision.

1.5 BROWNFIELD OPPORTUNITY AREA BOUNDARY DESCRIPTION AND JUSTIFICATION

The Massena BOA Study Area encompasses about 415 acres. The St. Lawrence River borders the area to the north. Akwesasne (St. Regis Mohawk Tribe) borders the area to the east. The Raquette River borders the area to the south. The former Alcoa/Reynolds Metals Plant borders the area to the west. The area is accessible from State Route 37 and is located next to the Seaway International Bridge, which connects New York to Ontario, Canada. Akwesasne (the Hamlet of Hogansburg) is the nearest population center; it

Section 1. Description of the Project and Boundary

is located about a half-mile to the east. The Village of Massena is located five miles to the west. Given the BOA Study Area's focus on the GM Massena Superfund site and surrounding assets, the BOA Study Area does not include any residents.

The BOA Study Area includes St. Lawrence County portions of the GM Massena Superfund site as well as properties immediately west of the site, including the U.S. Border Station, International Bridge approach and vacant land. The study area also includes nearby properties with infrastructure assets.

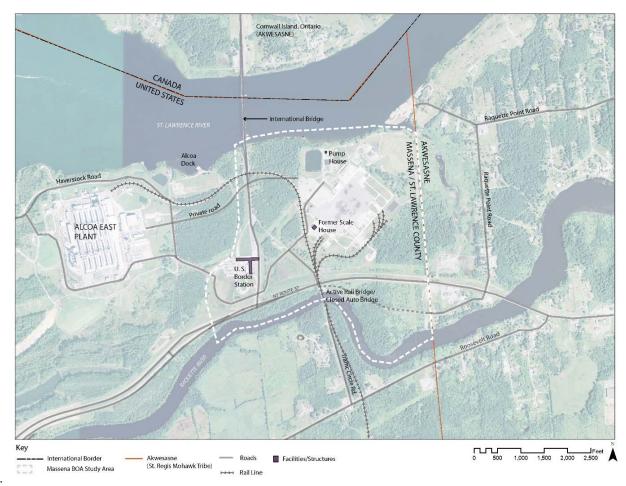


Figure 1-2. The Massena BOA Study Area

2 Community Participation and Techniques to Enlist Partners

St. Lawrence County administers the Massena BOA Revitalization Plan. The County's Planning Office serves as the administrator of the BOA project. The County formed a Steering Committee in 2014 to serve as the primary decision-making body for the Massena BOA regarding Revitalization Plan recommendations.

2.1 COMMUNITY PARTICIPATION

The Massena BOA Steering Committee (Steering Committee) includes representatives from the following entities:

- Town of Massena
- St. Lawrence County Board of Legislators
- Greater Massena Business Development Corporation
- St. Regis Mohawk Tribe Office of Economic Development
- St. Lawrence County Industrial Development Agency
- Revitalizing Auto Communities Environmental Response Trust

Overview of Key Stakeholder Organizations

The Steering Committee enlists the participation of local governments, the St. Regis Mohawk Tribe, and regional organizations and partners involved in the revitalization of the Massena BOA. The roles and general interests of these parties are described below.

North Country Revitalization Task Force – Following the closure of Massena's General Motors Powertrain plant in 2009, St. Lawrence County formed the North Country Revitalization Task Force to track cleanup progress and begin planning for the redevelopment of the site. Task Force participants include area businesses and representatives from local and tribal governments, labor unions, local and regional economic development organizations, and regulatory agencies. The governments and organizations represented on the Task Force are also part of the project's Steering Committee.

Town of Massena – The municipal government, local land use authority and host community of the Massena BOA. The Town encompasses the Village of Massena – a separate municipal entity – along with the hamlets of Massena Center, Massena Springs, Raquette River and Roosevelt Town. The Town has authority to regulate land use and zoning and is responsible for site plan review. Massena's Town Supervisor is a member of the project's Steering Committee.

St. Lawrence County Board of Legislators – The County's elected officials are invested in the project through participation in the Task Force and the project's Steering Committee. A representative of the County's Board of Legislators chairs the Task Force and Steering Committee.

St. Regis Mohawk Tribe (SRMT) – The federally recognized Native American tribal government for the Mohawk Nation of Akwesasne. The land known as Akwesasne includes areas in Franklin County as well as portions of the Canadian provinces of Ontario and Quebec. The SRMT tribal government oversees the portions of Akwesasne in Franklin County and is led by a Tribal Council that includes three elected tribal chiefs and six sub-chiefs. Tribal

Section 2. Community Participation Plan & Techniques to Enlist Partners

government divisions provide government administration, public safety, housing, community and social services, and public health, planning, infrastructure, environmental and economic development services. The Akwesasne community is located next to the Massena BOA; contaminant releases from the former GM Massena facility have disproportionately impacted its population and ecological resources. The SRMT Environment Division serves as a partner agency with EPA and the New York Department of Environmental Conservation regarding the site's environmental remediation and monitoring. SRMT's Office of Economic Development is represented on the Steering Committee.

St. Lawrence County Industrial Development Agency (IDA) – This public-benefit corporation was established to promote, encourage, attract and develop job opportunities and economically sound commerce and industry in St. Lawrence County. The IDA is invested in the revitalization of the Massena BOA as an important potential source of jobs and revenue for the region. Its executive director is a member of the project's Steering Committee.

Greater Massena Business Development Corporation (BDC) – The local development corporation established to assist to existing businesses and promote economic growth in the Village and Town of Massena. Its director is a member of the project's Steering Committee.

Revitalizing Auto Communities Environmental Response Trust (RACER Trust) – The entity responsible for addressing environmental contamination at the GM Massena Superfund site and promoting the site's redevelopment. The 2011 General Motors Bankruptcy settlement established the trust corporation. The RACER Trust oversees remediation of the 217-acre site and has been working to market the property for reuse in coordination with the Task Force and IDA since 2011. Its deputy redevelopment manager is a member of the project's Steering Committee.

Empire State Development and the North Country Regional Economic Development Council (NREDC) – The regional economic development public-private partnership established to develop long-range strategic economic development plans for the region encompassing St. Lawrence County and Massena. Its executive director, who serves as regional director at Empire State Development for the North Country, is a member of the Task Force and an advisory resource to the project's Steering Committee.

U.S. Environmental Protection Agency (EPA) – The federal agency overseeing the remediation of the GM Massena Superfund site under the authority of the federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA or Superfund). EPA's remedial project manager is responsible for ensuring the site's cleanup protects human health and the environment. EPA is currently overseeing the RACER Trust's construction of the site's remedy, anticipated for completion in 2018. While EPA does not regulate land use, the Agency's review of future land use and development plans is necessary to ensure land use compatibility with site remedies. EPA's remedial project manager is an advisory resource to the Task Force and the project's Steering Committee.

New York Department of Environmental Conservation (NYSDEC) – The state's environmental regulatory agency has authority to review and approve site redevelopment plans to ensure consistency with cleanup standards. NYSDEC is also the lead agency responsible for oversight of the Minerals Processing Facility State Superfund site, which is located within the GM Massena site.

2.2 PLANNING PROCESS (TECHNIQUES TO ENLIST PARTNERS)

St. Lawrence County initiated the Massena BOA Revitalization Plan process in January 2015. St. Lawrence County's Planning Office and the County's environmental counsel staffed the project, with support from a consulting team (Skeo Solutions, E.M. Pemrick and Company, Moran Stahl and Boyer, and MJ Engineering).

The planning process was structured around a series of technical project tasks integrated with two levels of community participation. Community participation included nine Steering Committee technical working sessions and five forums to gather community input and strengthen regional partnerships as described below and outlined in Table 1.

Steering Committee Meetings

- The committee convened nine working sessions to review and discuss revitalization considerations ranging from existing conditions, goals and community engagement to infrastructure, redevelopment feasibility and market analysis, and finally to site buildout and programmatic marketing strategy (See process described in box to the right).

Community Forums – The committee has convened four forums to engage community members, regional organizations and project partners in building a shared vision and strategy for revitalization. During visioning forums in June and July 2015 in Massena and Akwesasne, community members shared input regarding goals, opportunities, future uses and a vision for the Massena BOA. Regional Partners Roundtable discussions in November 2016 focused on identifying regional partnerships, collaboration opportunities and resources to support infrastructure investments needed for the Massena BOA. A separate Redevelopment Strategies and Community Revitalization Forum in November 2016 shared

THE PROCESS

Vision, Goals and Opportunities (2015)

- Evaluated existing conditions and conducted interviews to gather regional economic development considerations, potential partnership opportunities and goals for revitalization.
- Convened community visioning forums in June and July 2015 to gather community input regarding a vision for the BOA, strategic assets, future land uses and potential redevelopment opportunities.
- Evaluated economic sector trends and analyzed infrastructure conditions to clarify market and redevelopment feasibility.

Coalition Building and Strategy Development (2016)

- Developed case studies of revitalization approaches for industrial communities in transition and developed a set of potential redevelopment concepts for the Massena BOA.
- Evaluated job and tax generation potential along with regional market considerations for redevelopment concepts to help and prioritize and refine redevelopment options.
- Recommended a mixed-use redevelopment concept and developed programmatic marketing strategy.
- Convened a community engagement and regional partners forums in November 2016 to gather input regarding the mixed-use marketing strategy and strategic infrastructure investments necessary to support redevelopment.

Priority Actions (2017)

- Prioritize near-term actions for project partners.
- Coalition and partnership building among regional partners for revitalization strategy.

examples of successful industrial community revitalization approaches and gathered community input to refine a redevelopment strategy for the Massena BOA. Together, these forums have established the basis for the community vision statement and redevelopment concepts for the Massena BOA.

Stakeholder Focus Group Discussions – To supplement community input, the project also employed a focus group meetings and discussions to gather information and build support for potential revitalization opportunities. The project team identified regional economic development considerations and potential partnership opportunities during regional focus group discussions in March 2015 and May 2016. These included meetings with municipal, tribal, state and federal governments and agencies, regional private and non-profit groups, and economic development agencies across the North Country and Ontario, Canada.

Government	Institutions	Economic Development Organizations	Private Sector and Non-Governmental Organizations
 St. Lawrence County Board of Legislators St. Lawrence County Planning Office Town of Massena Village of Massena St. Regis Mohawk Tribe Office of Economic Development St. Regis Mohawk Tribe Planning and Infrastructure Division St. Regis Mohawk Tribe Environmental Division Mohawk Council of Akwesasne Economic Development NYSDEC New York State Department of Transportation (NYSDOT) U.S. Environmental Protection Agency U.S. General Services Administration 	 State University of New York (SUNY) Canton SUNY Potsdam Clarkson University - Shipley Center for Innovation St. Lawrence County Workforce Investment Board Workforce Development Institute • 	 St. Lawrence County Industrial Development Agency Greater Massena Business Development Corporation Empire State Development, North Country Region Ogdensburg Bridge and Port Authority City of Cornwall (Ontario) Economic Development City of Ottawa (Ontario) Economic Development & Innovation Department Invest Ottawa (Ontario) 	 St. Lawrence County Workforce Investment Board Workforce Development Institute St. Lawrence County Chamber of Commerce North Country Chamber of Commerce CITEC RACER Trust Alcoa Curran Renewable Energy LLC New York Power Authority Enbridge St. Lawrence Gas Strader-Ferris International Corning Kassian Real Estate Paul Post Realty

Table 2-A. Stakeholders Engaged through Forums and Focus Groups

Section 2. Community Participation Plan & Techniques to Enlist Partners

Project Website – The project website (massenaboa.skeo.com) is a tool for sharing information about the Massena BOA process. It provides an overview of the project, discusses ways for people to get involved in the process, shares Steering Committee meeting materials and project documents, and provides reference materials and contact information.

Table 2-B. Project Task and Meetings Sequence

Project Activities	Date	Steering Committee Meetings	Forums
Project Initiation	January 2015	SC1	
Goals and Existing Conditions	April 2015	SC2	
Community Engagement Plan	May 2015 - October 2015	SC3	Community Visioning Forums
Redevelopment Feasibility Analysis	July - October 2015	SC4	
Market/Economic Analysis	July - October 2015		
Site Buildout Analysis	February 2016	SC5	
Marketing Plan	July 2016	SC6	Developers Roundtable
	November 2016	SC7	Community Forum
Revitalization Plan	November 2016	SC8	Regional Partners Roundtable #1
	May 2017	SC9	SEQRA Scoping Session
	June 2017		NYSDOS Regional Partners Roundtable

3 Analysis of the Brownfield Opportunity Area

3.1 COMMUNITY AND REGIONAL SETTING

Regional Context

The Massena BOA Study Area is a 415-acre area in the Town of Massena in St. Lawrence County, New York. Massena is located in the North Country region, an area that includes Jefferson, Lewis, St. Lawrence, Franklin, Clinton, Essex, and Hamilton counties. The region is the largest region in the state, covering more than 11,000 square miles. It stretches across northern New York from the eastern shore of Lake Ontario to the western edge of Lake Champlain, and from the international border with Canada in the north to the Adirondack Mountains in the south.

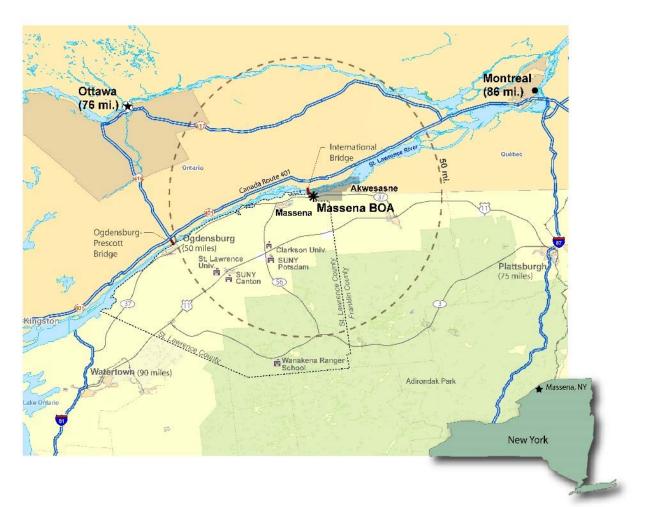


Figure 3-1. Community and Regional Setting

The BOA Study Area is located 75 and 90 miles from the North Country region's largest population centers – Plattsburgh (pop. 19,989) and Watertown (pop. 27,023). The area is a similar distance from the much larger Canadian population centers of Ottawa, Ontario (pop. 883,391) and Montreal, Quebec (pop. 1,649,519). Cornwall, Ontario (pop. 46,340) is located just three miles across the border.

Massena

This town of 13,000 residents encompasses 56 square miles and includes the Village of Massena (a separate municipality) and the hamlets of Massena Springs, Massena Center, Raquette River and Roosevelt Town. Massena became known as St. Lawrence County's industrial center in the twentieth century. The construction of the Robert Moses Power Dam on the St. Lawrence River created a cheap power source that drew major manufacturers Alcoa, Reynolds Metals and General Motors to Massena. Each company established manufacturing plants that employed thousands of workers. In the past 25 years, however, Massena has experienced a decline in manufacturing and a loss of jobs. GM closed its Powertrain plant in 2009. Alcoa idled its East Plant (formerly Reynolds Metals) in 2014 and permanently closed the facility in 2015. Today, Alcoa's Massena operations have about 750 employees.

Akwesasne

Akwesasne, the Mohawk territory of the federally recognized SRMT, is located next to the Massena BOA. The Akwesasne territory straddles the intersection of the United States and Canada borders, as well as provincial boundaries of Ontario and Quebec on both banks of the St. Lawrence River. Most of the land is located in the United States. Although divided by an international border, the residents consider themselves to be one community. Today, Akwesasne's U.S. population is 3,228.

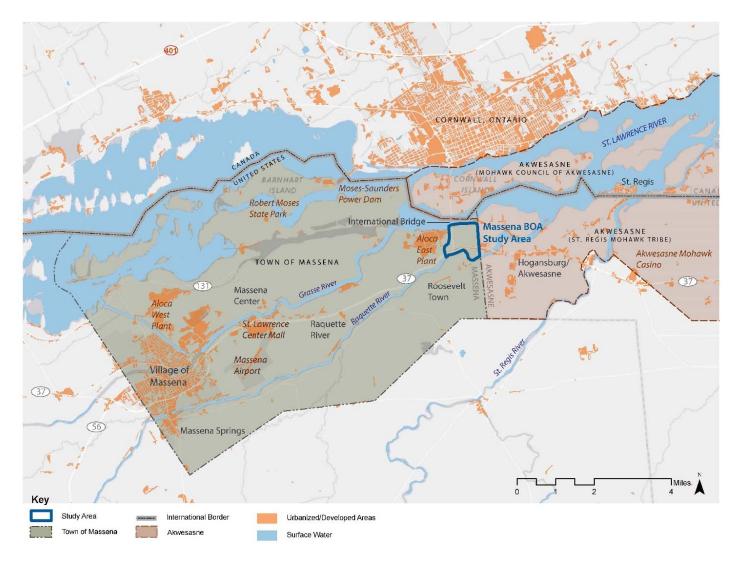


Figure 3-2. Massena and Akwesasne Context Map

Akwesasne is a Mohawk community whose cultural and geographic existence predates the establishment of the United States and Canada. For centuries, the Mohawk people have inhabited the Great Lakes and St. Lawrence River regions. Although traditions and ways of life have evolved over time, Akwesasne remains strongly connected to the roots of Mohawk culture. The impact of Mohawk heritage and culture can be felt throughout Akwesasne, which employs a community-centered focus, meaning that culture and tradition is integrated into every program and service of the Nation. Elements of this culture can be found in nearly all aspects of life such as food, dialect and language, artwork, hobbies, ceremonies and family life.

Population Change

In 2010, 12,883 people lived in the Town of Massena. The Town's population has slowly decreased over the past 40 years. The most rapid decline took place between 1970 and 1990; the number of residents decreased by nearly 2,200, or 13.7 percent. Most town residents live in the Village of Massena, which had a population of 10,936 in 2010.

In contrast, the Akwesasne community's population has been steadily increasing since its 2010 population of 3,697. SRMT population estimates also present a significantly larger Akwesasne population. The Akwesasne Area Management Board 2015-2016 Labor Market Study estimated the combined U.S. and Canadian Akwesasne

population at 27,250 people and the population of the U.S. St. Regis Mohawk Tribe at 15,127 people, more than four times larger than the 2010 U.S. Census Bureau estimates. While SRMT population estimates are complicated by cross-national reporting, the actual population of St. Regis Mohawks may be significantly larger than U.S. Census estimates.

Table 3-A. Population

Market Area	2000	2010	2014 (est.)	2019 (proj.)	% Change		
					2000- 10	2010- 14	2014- 19
Town of Massena	13,121	12,883	12,902	12,829	-1.8%	0.1%	-0.6%
St. Lawrence County	111,931	111,944	113,774	114,142	0.0%	1.6%	0.3%
Franklin County	51,134	51,599	52,488	52,793	0.9%	1.7%	0.6%
St. Regis Mohawk Reservation	2,699	3,228	3,498	3,697	19.6 %	8.4%	5.7%
New York State	18,976,45 7	19,378,10 2	19,631,59 9	20,034,75 9	2.1%	1.3%	2.1%
Sources: ESRI (2014 and 2019), U.S. Census Bureau, and E.M. Pemrick and Company.							

Like much of northern New York, St. Lawrence County has also experienced a slight population decline, from a peak of about 114,000 residents in 1980. Estimates produced by ESRI show a marginal *increase* in the county's population in the short term. However, projections from the Cornell Program on Applied Demographics indicate that the number of residents in St. Lawrence County will continue to decrease, falling below 100,000 by 2040.

Racial Diversity

The presence of the Akwesasne in the area is reflected in local population statistics. Although the Town of Massena and St. Lawrence County are both largely white and non-Hispanic, more than 4 percent of Massena residents (about 555 people) are Native American, while the population of Akwesasne is 93 percent Native American.

Market Area	White	African- American	Native American	Asian/ Pacific Islander	Hispanic Origin	
Town of Massena	91.7%	0.7%	4.3%	0.9%	2.0%	
St. Lawrence County	93.1%	2.5%	1.1%	1.1%	2.1%	
Franklin County	83.1%	6.5%	7.5%	0.7%	3.1%	
St. Regis Mohawk Reservation	3.1%	0.1%	93.6%	0.0%	0.5%	
New York State	64.6%	15.8%	0.6%	7.9%	18.6%	
Sources: ESRI (2014), U.S. Census Bureau, and E.M. Pemrick and Company. Some categories not shown.						

Table 3-B. Racial Diversity

Median Age

The generational mix in the Town of Massena and St. Lawrence County is consistent with state and national trends and reflects an aging population. In 2014, Massena had a median age of 41.9 and St. Lawrence County had a median age of 37.9, compared to a statewide median age of 38.5. The St. Regis Mohawk Reservation had a substantially lower median age, 30.9, due to a larger percentage of individuals under age 18.

Market Area	2010	2014 (est.)	2019 (proj.)	% Change		
Market Area				2010-14	2014-19	
Town of Massena	41.2	41.9	42.7	1.7%	1.9%	
St. Lawrence County	37.3	37.8	38.6	1.3%	2.1%	
Franklin County	39.1	39.4	39.7	0.8%	0.8%	
St. Regis Mohawk	31.2	30.9	31.3	-1.0%	1.3%	
Reservation						
New York State	37.9	38.5	39.0	1.6%	1.3%	
Sources: ESRI (2014 and 2019), U.S. Census Bureau, and E.M. Pemrick and						
Company.						

Table 3-C. Median Age

Median Household Income

Household income is one of the most important local economic indicators. Over the last few decades, the median household income in the Town of Massena has been consistently lower than in St. Lawrence County, and income levels in both St. Lawrence and Franklin County have been lower than statewide averages. Household income levels are influenced by many factors, including educational attainment, earnings from employment, age and the presence of dual-income households.

Market Area	2010	2014 (est.)	2019 (proj.)	% Change	
Warket Alea	2010 2014 (esi.)		2019 (pi0j.)	2010-14	2014-19
Town of Massena	\$31,391	\$39,602	\$44,414	26.2%	12.2%
St. Lawrence County	\$32,256	\$43,025	\$49,772	33.4%	15.7%
Franklin County	\$31,517	\$43,544	\$50,584	38.2%	16.2%
St. Regis Mohawk	\$32,664	\$38,519	\$44,977	17.9%	16.8%
Reservation					
New York State	\$43,393	\$56,676	\$65,805	30.6%	16.1%
Sources: ESRI (2014 an					
and Company.					

Table 3-D. Median Household Income

Housing

The housing supply in the Town of Massena is characterized by older units, limited reinvestment and low property values. Owner-occupied units represent about 56 percent of the housing stock and have an estimated median value of \$77,500. Census data indicate that Massena has experienced a slight decline in the proportion of owner-occupied housing units, from nearly 59 percent to 57 percent between 2000 and 2010. More than 70

percent of the housing units in the Town of Massena (versus about half of the units in St. Lawrence County overall) were built before 1960.

Table 3-E. Selected Housing	Characteristics
-----------------------------	-----------------

		Town of Massena	St. Lawrence County	Franklin County			
Total Housing Units							
2000 Census		5,880	49,721	51,134			
2010 Census		5,894	52,133	51,599			
2014 Estimates		5,990	53,471	52,488			
Tenure							
2000 Census	Owner-Occupied Units	58.9%	57.5%	52.8%			
	Renter-Occupied Units	34.8%	23.9%	22.1%			
	Vacant Units	6.3%	18.5%	25.1%			
2010 Census	Owner-Occupied Units	57.7%	56.5%	53.8%			
	Renter-Occupied Units	35.3%	23.3%	21.5%			
	Vacant Units	7.0%	20.2%	24.7%			
2014 Estimates	Owner-Occupied Units	56.2%	55.3%	52.8%			
	Renter-Occupied Units	36.0%	24.1%	22.5%			
	Vacant Units	9.2%	20.6%	24.6%			
Median Housing V	alue						
2000 Census		\$69,700	\$60,200	\$62,600			
2009-2013 ACS 5-	Year Estimates	\$77,500	\$84,400	\$97,100			
Median Gross Ren	t						
2000 Census		\$418	\$428	\$409			
2009-2013 ACS 5-		\$639	\$673	\$664			
Sources: ESRI (2014), U.S. Census Bureau, and E.M. Pemrick and Company. Note: The large share of vacant units reflects the prevalence of seasonal homes in St. Lawrence and Franklin							

counties; very few of these seasonal units are located in the Town of Massena.

Employment

Major employers in St. Lawrence County and Akwesasne are shown in Table 3-F. Overall, St. Lawrence County's major employment centers are concentrated around the County's five colleges and universities in Canton and Potsdam. Alcoa and Massena Memorial Hospital are the largest employers in the Town of Massena. The Akwesasne Mohawk Casino is the largest employer in Akwesasne. Together, the Casino and Alcoa are significant sources of employment and revenue for Massena and SRMT.

Company	Est. Local Employment Range	Sector	Location	
St. Lawrence County	1,000-2,499	Government	Canton	
St. Lawrence University	500-999	Education	Canton	
SUNY Potsdam	500-999	Education	Potsdam	
Clarkson University	500-999	Education	Potsdam	
St Lawrence-Lewis BOCES	500-999	Education	Canton	
St. Lawrence NYSARC	500-999	Health Care	Canton	
United Helpers Organization	500-999	Health Care	Canton	
Alcoa Massena Operations	500-999	Manufacturing	Massena	
Akwesasne Mohawk Casino LLC	500-999	Gambling	Hogansburg (Akwesasne)	
Claxton-Hepburn Medical Center	500-999	Health Care	Ogdensburg	
SUNY Canton	250-499	Education	Canton	
Corning Inc.	250-499	Manufacturing	Canton	
Canton-Potsdam Hospital	250-499	Health Care	Potsdam	
Massena Memorial Hospital	250-499	Health Care	Massena	
ACCO Brands	100-249	Manufacturing	Ogdensburg	
Ansen Corporation	100-249	Manufacturing	Ogdensburg	
Curran Renewable Energy LLC / Seaway Timber Harvesting	100-249	Manufacturing	Massena	
Clearwater Paper Corp	100-249	Manufacturing	Gouverneur	
St. Regis Nursing Home	100-249	Health Care	Massena	
Tarbell Management Group	100-249	Retail Trade	Hogansburg (Akwesasne)	
Frazer Computing, Inc.	50-99	Information	Canton	
DeFelsko Corporation	50-99	Manufacturing	Ogdensburg	
St Lawrence Gas Company	50-99	Utilities	Massena	
Potsdam Specialty Paper	50-99	Manufacturing	Potsdam	
Source: E.M. Pemrick and Company research. Note: Does not include local school districts.				

Table 3-F. Major Employers in St. Lawrence County and Hogansburg

Employment Considerations

Alcoa's aluminum operations in Massena, including smelting and milling facilities at the West Plant and a primary smelter located at the East Plant, have long been a significant regional priority. In 2015, Alcoa announced plans to permanently close its East Plant and phase out production and eventually cease operations at the West Plant. In response, New York State provided \$70 million in subsidies to keep the West Plant in operation through 2018. With the future of Alcoa as a long-term employment center uncertain, the Town of Massena faces the challenge of diversifying and adapting its economy as manufacturing declines.

The Akwesasne Mohawk Casino is Akwesasne's largest employer and major source of revenues for SRMT's tribal government and economic development initiatives. The Casino is also a regional economic development driver, employs residents from nearby non-native communities and generates revenue for the Town of Massena through a Gaming Compact. The Town relies on Gaming Compact revenues to fund economic development initiatives, including the Greater Massena Business Development Corporation.

3.2 COMMUNITY PLANNING AND REVITALIZATION INITIATIVES

Recent and ongoing revitalization initiatives in St. Lawrence County, Massena and Akwesasne are working in parallel with revitalization efforts at the Massena BOA.

Moving Massena Forward

In early 2015, the Village of Massena launched the Moving Massena Forward Coalition. Spurred by aluminum manufacturer Alcoa's announcement in November 2015 about plans to close its Massena operations, Village Mayor Tim Courier championed a new initiative to identify actions to diversify the local economy. Throughout the spring of 2016, community members participated in meetings and focus-group discussions to identify new opportunities. The outcome was an action plan released in October 2016. A coalition of local partners aligned with each of the plan's 10 focus areas is moving forward with implementing priority recommendations.

Regional Tourism Destination Study (2015)

Commissioned by the Town of Massena in 2014, Venue

MOVING MASSENA FORWARD PRIORITIES

- 1. Downtown Arts/Culture
- 2. Natural Resources/Outdoor Recreation
- 3. Destination Marketing and Community Rebranding
- 4. Community Broadband and Wi-Fi Hotspots
- 5. Sports
- 6. Healthy Living
- 7. Agriculture
- 8. Sustainable Clean Power
- 9. Manufacturing
- 10. Regional Partnerships

Strategies evaluated opportunities for a regional tourism destination within the Town of Massena. A 2015 report identified potential for a year-round tourism destination focused on a water park, hotel and mixed-use retail. The proposal identified several potential locations for a tourism destination, including the St. Lawrence Center Mall and the RACER property within the Massena BOA. Venue Strategies has conducted further analysis and is working to determine project feasibility.

St. Lawrence County Comprehensive Economic Development Strategy (2016)

St. Lawrence County IDA released a draft Comprehensive Economic Development Strategy (CEDS) in the fall of 2016. The CEDS analysis of countywide strengths, weaknesses, opportunities and constraints establishes key economic context for the area that are critical to understanding the redevelopment potential of the Massena BOA. The strengths identified in the CEDS and outlined in the text box below were evaluated in detail through the Economic Sector Trends and Market Analysis (see Section 3.5).

ST. LAWRENCE COUNTY STRENGTHS

- Water paper industry
- Mineral reserves iron, zinc, talc, lead
- Low-cost electric power especially for aluminum reduction, zinc processing, paper production
- Milk Dairy farms and supporting infrastructure, cheese and yogurt production
- Wood supply building products and energy generation
- Proximity to Canada potential U.S. presence for Canadian firms
- Labor force skilled labor force in mechanical and fabrication operations
- The county's five colleges/universities
- Stable employment opportunities provided by major state facilities in the county

- Beginnings of a knowledge-based enterprise cluster
- Substantial hydropower and wood fuel resources
- Access to natural gas from Canada
- Health care availability
- Low crime rates
- Strong K-12 educational system
- Easy access to Canada's highway system
- Air access
- Port facilities
- Railroad service
- Broadband internet access
- Extensive scenic and outdoor recreational resources
- Support for development efforts
- Resources for economic development

NYPA Economic Development Initiatives

The New York Power Authority (NYPA) operates the Moses-Saunders Power Dam in Massena. As part of a 2003 relicensing settlement, NYPA provides economic development benefits to the North Country Region to mitigate flooding and land use impacts throughout the towns that border the St. Lawrence River and Seaway.

NYPA's St. Lawrence County Economic Development Study (2015)

The December 2015 study sets out a five-year economic development strategy for St. Lawrence County and reflects NYPA's commitment to the county under the first 10-year review of the Relicensing Settlement Agreement. The study outlines a vision for the county to be "a leader among rural counties for healthy, diversified and sustainable economic development," and lays out a portfolio of strategies and initiatives targeting four economic sectors:

- 1. Accelerating Agriculture and Agribusiness
- 2. Renewing Manufacturing
- 3. Expanding Rural Small Business
- 4. Revitalizing Communities, Tourism and Mindset

The study estimates that focused investments could create 1,000 to 1,900 new jobs and \$105 million to \$190 million in annual incremental GDP by 2020.

St. Lawrence River Redevelopment Agency (RVRDA)

The RVRDA is a partnership of St. Lawrence County, the communities of Lisbon, Louisville, Massena and Waddington, and the St. Lawrence County Industrial Development Agency Local Development Corporation.

The Agency formed in 2010 to administer NYPA funds for economic development activities and programs. The funds are intended to further the quality of life of communities impacted by local hydroelectric facilities and St. Lawrence County residents.

The RVRDA administers funding for development growth of economic development assets, as well as a community development and environmental improvements program. Growth of economic development assets is focused on commerce and industrial park development targeting available industrial properties in the Massena Industrial Park. The program makes grants available to communities and non-profit organizations undertaking projects that provide a clear and demonstrable economic, environmental or community benefit.

Akwesasne Office of Economic Development Initiatives

SRMT's Office of Economic Development is actively advancing strategic initiatives focused on workforce training, business assistance, economic development, cultural tourism and the Route 37 Corridor.

Akwesasne Tourism Community Development Initiative (ongoing)

The Akwesasne Cultural Tourism Development Strategic Plan is a key priority for SRMT's Office of Economic Development. Over the past several years, the Office has helped to establish the Akwesasne Cultural Tourism Working Group, which includes representatives from SRMT's Environment Division, Office of Economic Development, Mohawk Council of Akwesasne Economic Development, Akwesasne Cultural Museum and Thompson Island Youth Camp. The Working Group has developed a comprehensive strategy to advance sustainable tourism through partnerships with Akwesasne businesses. The goal is to providing world-class tourism experiences that celebrate Akwesasne's environment, heritage and language.

The strategic plan is centered around three goals:

- Organize develop, manage and market Akwesasne tourism.
- People engage community and build capacity.
- Places develop cultural tourism, eco-tourism and adventure tourism sites and pursue beautification.

Developing a cultural tourism center near the U.S.-Canada border presents a strategic opportunity for the Massena BOA.

Citizens Institute on Rural Design - Route 37 Corridor (2016-2017)



Figure 3-3. Cultural Tourism Development Strategy Goals

The Akwesasne Cultural Tourism Working Group is developing an Action Plan for incorporating culturally relevant Mohawk design into buildings, signage and landscaping along Akwesasne's State Route 37 corridor. The Action Plan will be based on workshops held in November 2016 that identified potential beautification projects at strategic sites along the Route 37 corridor.

Economic Development Investments (ongoing)

SRMT's Office of Economic Development is also working to target emerging sectors aligned with Akwesasne cultural priorities and opportunities, including recent investments in a soy processing facility in Massena's industrial park. The office continues to evaluate and support local enterprises. A related initiative funded by the Akwesasne Convenience Store Association established a charitable fund called "Investing in the potential of Akwesasne." Funds provide microgrants to young families and support the growth and visibility of Mohawk traditions in the sport of lacrosse.

3.3 EXISTING LAND USE AND ZONING

This section evaluates existing land uses and zoning, in the Massena BOA Study Area. Land use percentages provide information on current uses in the area, while ordinances offer guidance related to the specifics of permitted uses and size regulations.

Land Use

Land uses are determined based on real property data provided by St. Lawrence County's Real Property Office in the spring of 2015. Land uses in the BOA Study Area include industrial, commercial, public service and community service uses and vacant land. Land use considerations for the study area and surrounding areas are described below.

Active Uses

Active uses in the BOA Study Area include public services, community services and commercial uses. Public services include the state highway right-of-way along Route 37 and railroad corridors. Community service uses in the western portion of the BOA Study Area include the Massena Border Station, U.S. Customs and commercial uses, including the Seaway International Bridge Approach road and an adjacent duty-free store. These uses are expected to remain in operation over the long term and provide homeland security functions and dedicated access for transportation routes through the study area.

The International Bridge and border station are strategic assets for the BOA Study Area, providing a port of entry for the flow of people, goods and commodities across the border between the U.S. and Canada. The Seaway International Bridge in Massena provides direct access to and from Cornwall, Ontario. According to the Seaway Bridge Corporation, more than 120,000 commercial vehicles and 2.3 million passenger vehicles cross the bridge annually. NYSDOT reports annual average daily traffic in both directions at about 6,600 vehicles. The volume of traffic along Route 37 from the bridge east to Hogansburg is about 12,000 vehicles.²

² U.S. Department of Transportation, Research and Innovative Technology Administration, Bureau of Transportation Statistics, based on data from the Department of Homeland Security, U.S. Customs and Border Protection, Office of Field Operations.

Inactive Uses

The largest land use classification within the BOA Study Area is industrial use, including the 217-acre GM Massena Superfund site and a 48-acre corridor between the site and the International Bridge. While classified as industrial use, no active industries are operating in these areas. The GM Massena site encompasses the former General Motors Powertrain plant. Cleanup activities under EPA's Superfund program are ongoing (See Section 3.3 – Brownfields for additional details). Inactive industrial land west of the GM Massena site includes rail lines and utility corridors that historically provided buffer lands around the Alcoa East/former Reynold Metals aluminum smelter.

Vacant

Several properties classified as vacant land in the industrially-zoned areas are located in the northern portion of the study area between the GM Massena site and the International Bridge.

Figure 3-4. Study Area Land Use shows the existing study area land use, along with nearby uses. Table 3-G provides a breakdown of study area land use by acreage and percentage of the study area.

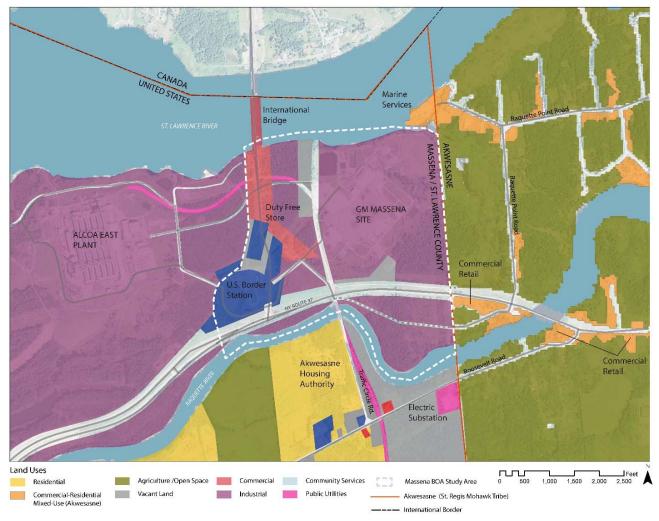


Figure 3-4. Study Area Land Use

Table 3-G. Study Area Land Use Classifications

Land Use	Land Use Classification Code	By Land Area (acres)	Percentage of Study Area		
Active Uses					
Public Service (Rail and Highway R.O.W)	800	55	13%		
Community Service	600	36	9%		
Commercial	400	25	6%		
Inactive Uses					
Industrial	700	260	63%		
Vacant Land	300	39	9%		
Totals		415	100%		

Surrounding Land Uses

The Massena BOA is situated next to areas historically used for heavy manufacturing (west), the St. Lawrence River (north), Akwesasne open space and mixed-use commercial/residential areas (east), and the Raquette River (south).

The Alcoa East plant, a former aluminum smelter, is located west of the study area. Alcoa's future plans for the facility are uncertain. However, the redevelopment of the site as an industrial asset are key priorities for local economic development agencies.

Akwesasne areas to the east include forested and open space areas, commercial retail uses along the Route 37 corridor, and the Mohawk Housing Authority housing complex south of the Raquette River. Akwesasne residents live in close proximity to the study area. Due to historical environmental impacts, many Akwesasne residents view future industrial uses as a threat to quality of life and incompatible with Akwesasne cultural traditions.

The Massena BOA offers a unique waterfront location for Massena with frontage on both the St. Lawrence and Raquette rivers. Massena has few accessible properties located along the major waterway.

Zoning

The Town of Massena administers zoning regulations for the entire BOA Study Area. Massena zoning in the study area is designated as General Industrial. The study area is part of a large industrial district that extends from the eastern town line along the St. Lawrence River to the western boundary of the Alcoa East plant property.

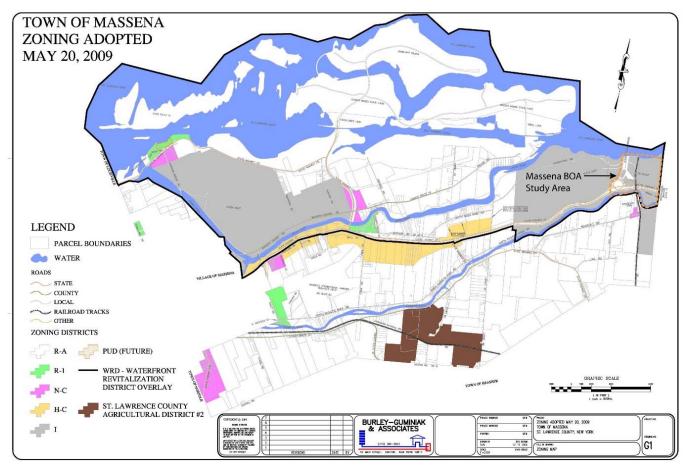


Figure 3-5. Town of Massena Zoning Districts

General Industrial District

The General Industrial District provides areas in Massena where industrial, manufacturing or other materials handling, processing and/or storage activities may take place with maximum economic and environmental feasibility and with minimum negative impacts on residential, agricultural and commercial development. Table 8 below lists allowable uses in the General Industrial District, along with additional site plan review criteria to be determined in permitting future development in the District.

Zoning Conditions	Allowable Uses and Development Regulations	ADDITIONAL SITE PLAN REVIEW CRITERIA
Uses permitted by right (standard permit)	No uses are permitted by right	The following specific factors will also be considered:
Uses requiring site plan approval	Manufacturing, assembling, converting, altering, finishing, cleaning, recycling or any other processing and incidental storage of products and materials Wholesaling, storage and warehousing Junkyards and dismantlers. Research laboratories Truck and rail terminals and port facilities, including docking, fueling, loading and unloading Signs Waste storage and/or treatment facilities Adult uses	 Building design and location. Large commercial buildings. Lighting and signage. Parking and accessory buildings. Drainage systems. Landscape preservation Driveway and road construction. Construction on slopes. Tree borders. Development at intersections. Streets and sidewalks. Setbacks. Utilities.
Minimum lot area and dimensions	Area: 80,000 square feet Width: 200 feet Depth: 200 feet	
Yard setbacks	Front: 75 feet from right of way or 108 feet from road centerline Side: 50 feet Rear: 50 feet * Side and rear yard setbacks require additional 20 feet if abutting residential district	
Lot coverage	35 percent of total area may be covered by buildings	

WATERFRONT OVERLAY DISTRICT SPECIAL STANDARDS

- Shorelines must maintain vegetative buffer strips that meet the following criteria:
 - o Are maintained along the shore from the highwater mark and extending landward a minimum horizontal distance of 25 feet.
 - Preferably consist of native vegetation, but can consist of cultivated species that are adapted to wet conditions or unmown grass.
- Shoreline erosion shall be managed by vegetative buffers, unless site characteristics are such that armoring, riprapping, gabions, walls or similar heavy reinforcement is needed to achieve erosion control.
- The construction or reconstruction of erosion protection structures shall be undertaken only if they have a reasonable probability of controlling erosion for at least 30 years as demonstrated in design and construction standards and/or assured maintenance or replacement programs.
- The construction or reconstruction of docks, boathouses, boat hoists, public access facilities and other shoreline structures shall be undertaken in a manner which will, to the maximum extent practicable, protect against or withstand the destructive forces of wave or current action, changing water levels and/or ice movement.
- Activities and development, including the construction or reconstruction of erosion protection structures, shall be undertaken so that there will be no measurable increase in erosion or flooding at the site of such activities or development or at other locations.
- Development, when located adjacent to the shore, shall provide for water-related recreation, as a multiple use, whenever such recreational use is appropriate in light of reasonably anticipated demand for such activities and the primary purpose of the development.

Zoning Overlay Districts³

The BOA Study Area is located within the Town of Massena's Waterfront Revitalization District Overlay. The purpose of the Waterfront Revitalization District is to ensure that uses in the area are consistent with policy established in the Local Waterfront Planning Program and focus on maintaining vegetative buffers between district uses and the shorelines and ensuring proper erosion control measures. Special standards applicable to Waterfront Overlay District uses are outlined below.

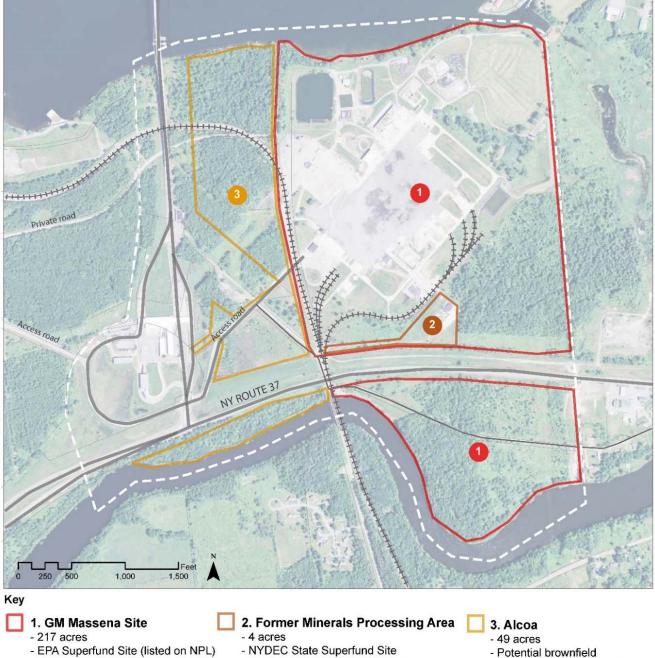
Key Zoning Considerations

Within the General Industrial District, no uses are permitted by right. However, the zoning allows for heavy manufacturing and processing uses that have historically had adverse effects on the surrounding environment and neighboring Akwesasne community (See Section 3.4 – Brownfield Sites and 3.10 – Natural Resources). The Massena BOA Steering Committee and project stakeholders have identified the need to limit potential impacts of any future industrial uses in the study area. In addition, the list of permitted uses within the General Industrial District excludes commercial or tourism-related uses that may benefit the community and surrounding areas. Further evaluation of zoning conditions, including the potential for a Special Overlay District for the GM Massena Superfund site, may be warranted.

³ Town of Massena Municipal Code §207-30. <u>www.ecode360.com/13798521 - 13798521</u>.

BROWNFIELD, ABANDONED AND VACANT SITES 3.5

This section identifies brownfield sites - environmentally-impaired properties affected by contamination - as well as abandoned and vacant areas in the BOA Study Area. The study area includes two categories of environmentally impaired properties - Superfund sites and potential brownfields. The study area includes two Superfund sites the GM Massena Superfund site (federal), and the Minerals Processing Area (New York State Superfund). Vacant industrial properties immediately west of the GM Massena site represent potential brownfield sites in the study area.



- Owned by RACER Trust (private)

- Cleanup Completed 2014

- Delisted in 2015

- Potential brownfield
- Owned by Alcoa (private)
- Utility corrdidors
- Phase I ESA conducted in 2016

Figure 3-6. Known and Potential Brownfield Sites

- Owned by RACER Trust (private)

- Cleanup to be complete by 2018

GM Massena Site



Background

The primary focus of the Massena BOA Study Area is the 217acre GM Massena Superfund site, which accounts for more than 50 percent of the study area's acreage. From 1959 to 2009, GM made engine blocks and drive train components at the site. The facility was built as a die-casting plant to produce aluminum cylinder heads. Facility operations used polychlorinated biphenyls (PCBs) as a component of hydraulic fluids in die-casting machines. Listed on EPA's National Priorities List in 1983, the GM Massena site is currently in the remedy implementation phase – EPA has issued two Records of Decision selecting remedies for the site and cleanup is nearing completion.

The RACER Trust owns the GM Massena site. The Trust formed as part of GM's 2011 bankruptcy settlement for the purposes of remediating and positioning for redevelopment the real estate assets and environmental liabilities for 89 active and inactive manufacturing facilities nationwide. The RACER Trust is the potentially responsible party (PRP) for the GM Massena site. RACER Trust is responsible for site cleanup under EPA oversight and will be responsible for the long-term operation, maintenance and protectiveness of the site's remedy as described below.

Contaminants of Concern

PCBs are the primary contaminant of concern at the site, along with volatile organic compounds (VOCs). Materials handling and

GM MASSENA SITE AREAS OF CONTAMINATION

Disposal Areas

- Industrial Landfill
- East Disposal Area
- North Disposal Area
- Industrial Lagoons

Sediments

- St. Lawrence River sediments
- Raquette River sediments
- Tribal land sediments

Soils

- On-site soils (former manufacturing area and subsurface soils)
- SRMT tribal soils

Groundwater

• Contaminated groundwater beneath the site

on-site disposal of wastewater sludges resulted in site contamination. The site includes several discrete areas affected by contamination releases, including disposal areas, sediments, soils and groundwater. These areas are listed to the right and shown in Figure 3-6.

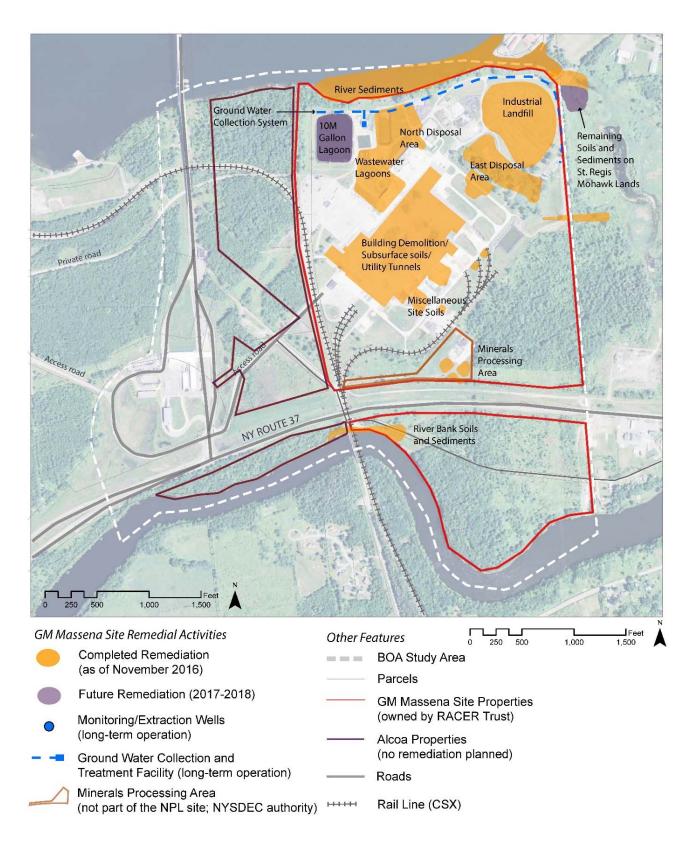


Figure 3-6. GM Massena Site Contamination Areas and Cleanup Status

Table 3-1. Cleanup Levels and Remedy Implementation Status.

Media/Contamination Area	Remediation Action Level (PCBs)	Disposal Method	Status
Site Soils	10 parts per million (ppm)	Excavation and off-site disposal	Completed 2012- 2013 (final grading planned for 2017)
St. Lawrence River River Sediments	1 ppm	Excavation and off-site disposal; underwater sediment cap	Completed 1995- 1999
Tribal Soils	0.1 ppm	Excavation and off-site disposal	Partially complete; planned for 2017, pending property access
Tribal Sediments	0.1 ppm	Excavation and off-site disposal	Completed 2005
North Disposal Area	10 ppm	Excavation and off-site disposal	Completed 2013
Industrial Lagoons	10 ppm	Excavation and off-site disposal	Partially completed 2013 (lagoon remediation planned for 2017)
East Disposal Area	500 ppm	Excavation and consolidation on site	Completed 2016
Industrial Landfill	500 ppm	Consolidation and capping in place	Completed 2016
Groundwater	PCBs (0.1 micrograms per liter, or µg/L) phenols (1 µg/L) 1,2-DCE (100 µg/L), trichloroethylene (5 µg/L) vinyl chloride (2 µg/L)	Extraction and treatment system	Ongoing

Selected Remedy and Cleanup Status

Table 3-I lists the contamination areas, cleanup levels, disposal method and implementation status. EPA's Superfund remedy selection process is summarized below.

In 1985, EPA issued an Administrative Order to GM to conduct a remedial investigation and feasibility study to determine the nature and extent of PCB contamination in soils, sediments and ground water. Risk assessments concluded that site contaminants posed unacceptable risks for St. Regis Mohawk Tribe residents consuming fish or wildlife from the St. Lawrence River or Raquette Rivers due to high concentrations of PCBs in fish and turtle tissue. Cleanup levels for media and discrete contamination area are based on remedial action goals for PCBs.

EPA has issued two Records of Decision for the GM Massena site. The first Record of Decision, signed in 1990, addressed St. Lawrence River, Raquette River sediments and tribal sediments, on-site soils, soils on SRMT tribal lands, the North Disposal Area, industrial lagoons, and contaminated groundwater. The second Record of

Decision, signed in 1992, addressed the Industrial Landfill, the East Disposal Area and overall groundwater protection.

EPA coordinated with NYSDEC and SRMT's Environmental Division in developing the two Records of Decision, sharing decision documents for review and concurrence with the selected remedies. In addition, proposed plans, seeking public comment, were issued for each of the Records of Decision in 1995 and 1998 and 2000. Community concerns regarding treatment and disposal methods for contaminated soils excavated from site areas prompted revisions of cleanup plans for part of the site.

Minerals Processing Area

Background

The 2-acre Minerals Processing Facility State Superfund site is located within the boundaries of the GM Massena site. The Mineral Processing Company, an entity separate from GM's Massena operations, processed aluminum dross from the nearby GM Foundry. In addition to processing dross, the company also cut up old machinery for sale as scrap. During this cutting process, hydraulic oil containing PCBs was frequently spilled in and around the facility, resulting in contamination of the building and surrounding soil.

Cleanup Status⁴

Remediation at the Minerals Processing Area site is complete. Prior to remediation, PCBs were the primary contaminant of concern. In April 1989, NYSDEC investigated and sampled the facility. Analysis confirmed the presence of PCBs at levels up to 500 parts per million (ppm) inside a former building and up to 150 ppm in surrounding soil. The building was subsequently demolished, the concrete building slab was cleaned, and all contaminated soil was removed from the site to meet the unrestricted soil cleanup objective for PCBs (0.1 ppm). Groundwater was monitored. After three consecutive rounds of no detections, monitoring was discontinued in 2009. No further action is necessary. The Minerals Processing Area site was delisted from NYSDEC's State Superfund registry in 2015.

Other Vacant, Abandoned and Potential Brownfields

Two other potential brownfield properties in the BOA Study Area are located immediately west of the GM Massena site and east of the International Bridge. Encompassing about 49 acres, two parcels owned by Alcoa (formerly Reynolds Metals) and the Town of Massena were historically an open-space transition area separating the GM Massena site from the International Bridge and the Alcoa East Plant (former Reynolds Metals) further west.⁵

Infrastructure easements, including electrical transmission and natural gas lines, as well as railroad real property traverse the area. The two properties are generally forested, with several gravel and paved roads on the northern portion and utility lines on the southern portion. Internal roads and rail lines connect the RACER Trust property at the GM Massena site with the Alcoa property to the west, extending under the International Bridge overpass. Both Massena and Alcoa properties include frontage on the St. Lawrence River. The Alcoa property also borders the Raquette River.

⁴ NYSDEC. Environmental Site Remediation Database. Minerals Processing Site, Site Code: 645018. Accessed January 19,2017.

⁵ Properties listed in St. Lawrence County's real property information system identify the Town of Massena as the owner of parcel 6.001-8-1. Based on discussions with the Town of Massena and Alcoa, parties believe Alcoa is the actual titleholder.

While EPA's Records of Decision for the GM Massena site did not identify cleanup plans for these areas, St. Lawrence County conducted a Phase I Environmental Site Assessment in June 2016 to identify any potential environmental conditions or indications of historical contamination impacts. The assessment identified the following potential environmental issues: three electrical transformers on utility poles, evidence of debris and rail equipment stored or stockpiled on the property, and potential groundwater contamination related to PCBs and VOCs at the GM Massena site.

3.6 LAND OWNERSHIP

A mix of public and private entities own parcels within the Massena BOA Study Area.

Private Ownership

About 62 percent of the BOA Study Area is privately owned, including the GM Massena site properties owned by the RACER Trust, Alcoa-owned properties and CSX Transportation railroad properties. RACER Trust-owned properties account for 217 acres and include the GM Massena site properties. The RACER Trust's primary mission at the GM Massena site is to perform remediation activities to address site contamination and to provide long-term stewardship to ensure the protectiveness of the remedy. The Trust's mission also includes a responsibility to reposition the property for redevelopment, which could include its sale or lease. RACER is not authorized to serve as a developer or to expend funds on redevelopment improvements. The Trust has been marketing the property and is seeking to identify a long-term owner for the site. In considering potential uses or development proposals, the Trust is obligated to consider six sales criteria (see box to the right).

Alcoa-owned properties, while represented as discrete parcels on St. Lawrence County's real property data, are all tied to a parcel that covers over 1,000 acres, including the inactive Alcoa East plant. Alcoa's decision in 2015 to permanently close its Massena facility indicates that the company will likely seek to sell or reposition the East Plant for redevelopment. Due to uncertainties

RACER TRUST'S SALES CRITERIA

- 1. The sufficiency of the purchase price.;
- 2. The potential for job creation in the affected community and state.;
- Other benefits to the affected community and state, such as increasing tax revenue, generating economic activity, reducing blight, and providing a sense of renewal.;
- 4. Avoidance of interference with the environmental cleanup or an increase in the cost of the work.;
- 5. The views of the affected communities, the SRMT Tribe, and the State of New York; and
- 6. The reputation and credibility of prospective buyer.

surrounding the future of the Alcoa East Plant, the Alcoa-owned properties in the study area are not considered to be available for redevelopment.

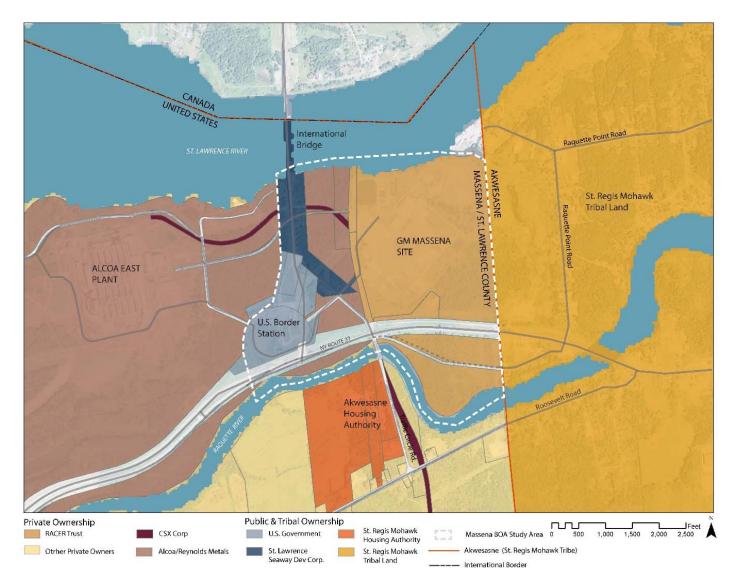


Figure 3-7. Study Area Property Ownership

Public Ownership

Publicly-owned property accounts for about 35 percent of the land area within the BOA Study Area, including property owned by the U.S. General Services Administration, St. Lawrence Seaway Development Corporation, and NYSDOT. Most publicly-owned land in the study area is dedicated to the U.S. border station and customs facility, known as the Massena Land Port of Entry, and transportation routes (State Route 37 and the International Bridge Approach).

Table 3-J. Study Area Property Ownership, by Type

Ownership Type	# of Parcels	Acres	% of Study Area
Private Ownership RACER Trust Alcoa CXS Corporation	13	258	62%
Public Ownership U.S. General Services Administration St. Lawrence Seaway Development Corporation NYSDOT	7	149	35%

Surrounding Property Ownership Considerations

Property ownership of areas immediately surrounding the BOA Study Area is also an important consideration. Two surrounding land ownership patterns are discussed below.

Alcoa East Plant

Properties to the west, as discussed above, are owned by Alcoa. The future of the inactive Alcoa East Plant is uncertain. Depending on future owner and land use decisions, about 1,000 acres of industrial property, including facility operations and buffer lands, may become available for reuse in the future. The Massena BOA Steering Committee considers future decisions regarding the Alcoa East Plant to be generally out of local control.

Akwesasne

SRMT and SRMT's housing authority own most of the properties to the east of the study area and south of the Raquette River. Real property ownership within Akwesasne differs from that of county-level parcel ownership. Most of the land parcels within the Akwesasne Reserve are considered Native American lands held in trust. Also known as Akwesasne Trust Lands, these properties have individual owners that hold title to physical improvements (driveways and buildings). SRMT holds a non-severable right to the property.

Given the Trust Lands ownership structure, the SRMT government is invested in the preservation of the environmental health of the adjacent land. SRMT maintains environmental cleanup standards for Akwesasne lands that are more stringent than NYSDEC cleanup standards. EPA has required cleanup of contamination impacts on Akwesasne lands in compliance with SRMT cleanup standards. However, cleanup standards for the former GM property, now owned by the RACER Trust, are subject to NYSDEC standards. While the SRMT Environment Division and Tribal Council were signatories to cleanup decisions at the GM Massena site, members of the current SRMT Tribal Council and many Akwesasne community members continue to advocate for a more stringent cleanup and complete removal of the on-site landfill, along with the capped St. Lawrence River sediments.

The properties abutting the Massena BOA are Akwesasne Trust Lands, with several different individuals holding interests in the property. Several neighboring Akwesasne landowners have actively opposed EPA's cleanup at the GM Massena site and taken actions to interfere with cleanup efforts. Adjacent Akwesasne property owners are strongly opposed to future industrial use at the RACER properties as well as at the Alcoa East Plant.

Key Ownership Considerations

Land ownership patterns in the BOA Study Area are a significant factor in determining areas that are available or potentially suitable for redevelopment. Publicly-owned properties within the study area are almost exclusively dedicated to transportation or public safety and national security, offering little potential for redevelopment.

Based on private property owner interests, RACER Trust properties totaling 217 acres are generally considered to be available for redevelopment. The RACER Trust has been working with the North Country Redevelopment Task Force and the Massena BOA Steering Committee to share property cleanup and marketing information. The RACER Trust will maintain a long-term stewardship obligations related to Superfund remedy components. The RACER Trust properties will also be subject to proprietary land use controls, restrictive covenants or other limitations on the use of land and groundwater (see further discussion in Section 3.12 – Strategic Sites).

3.7 BUILDING INVENTORY

The BOA Study Area includes nine buildings, as shown in Figure 3-8 and described in Table 3-H. Study area buildings are located within the Border Station area and on RACER Trust property.

Border Station Structures

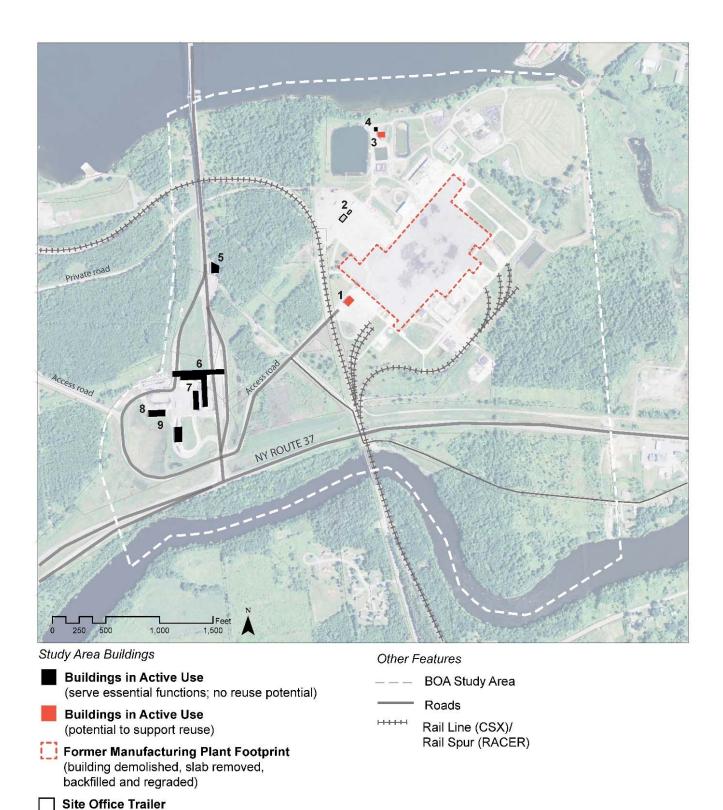
Buildings in active use include the U.S. Border Station, U.S. Customs and Border Patrol, which is owned by the U.S. General Services Administration. The facility, known as the Massena Land Port of Entry, houses the border crossing and U.S. customs facility, including restricted-access office space. A duty-free retail store is located north of the Border Station Complex, on property owned by the Seaway Development Corporation. The facility was renovated in 2014.

RACER Trust Property Structures

There are several small buildings on the RACER Trust property that serve site security and remedy operation functions. A gatehouse at the site entrance from Chevrolet Road serves as the site security office and checkpoint. Historically, the gatehouse served as a scale house and security office for GM operations at the site. EPA and the RACER Trust maintain two temporary office trailers, which are used for administration and oversight of the site's remediation. The site trailers are located on the northwestern edge of the main RACER Trust parcel. In the long term, there may be opportunities to relocate or co-locate site administration and maintenance office needs with other uses at the site. The RACER Trust operates a water pumping station and groundwater extraction and treatment facility on the northern portion of the site; both facilities are expected to remain in active use over the long term. The pump house will remain in its current location. However, the groundwater extraction and treatment facility could potentially be relocated to an alternate location along the northern edge of the site.

Former Plant Footprint

Prior to cleanup of the GM Massena site, the RACER Trust property included a large manufacturing plant. In 2013, the plant was demolished and removed to address PCB contamination. The plant's footprint, oriented diagonally on a northeast-southwest axis, is easily accessible via a perimeter internal road and three rail spurs. The area was backfilled and regraded post cleanup, resulting in an 18-acre area well-positioned for industrial use (see Section 3.14).





(temporary field office; flexible location)

Table 3-H. Study Area Buildings of	and Reuse Potential
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Map ID#	Size – Square Feet (s.f.)	Owner	Type/Function	Reuse Potential
1	5,000 s.f.	RACER Trust	gate and scale house; site security office	potential to support reuse
2	700-1,500 s.f.	EPA and RACER Trust	temporary modular structures; EPA/RACER office trailers	flexible location; no reuse potential
3	3,500 s.f.	RACER Trust	metal warehouse; maintenance and pump house	potential to support future use
4	1,200 s.f.	RACER Trust	groundwater treatment facility; site remedy operations	potential relocation; no reuse potential
5	5,000 s.f.	St. Lawrence Seaway Development Corporation	commercial; duty-free store	active use; no reuse potential
6	45,000 s.f.	U.S. General Services Administration	U.S. Border Station; essential government service	no potential for reuse
7	9,000 s.f.	U.S. General Services Administration	U.S. Customs/Border Patrol; essential government service	active use; U.S. Customs/Border Station
8	9,000 s.f.	U.S. General Services Administration	U.S. Customs/Border Patrol; essential government service	active use; U.S. Customs/Border Station
9	10,000 s.f.	U.S. General Services Administration	U.S. Customs/Border Patrol; essential government service	active use; U.S. Customs/Border Station

3.8 PARKS AND OPEN SPACE

No parks are currently located in the Massena BOA Study Area. However, the Town and Village of Massena and Akwesasne include parks that provide a range of recreation opportunities. Descriptions of each park and open space are provided below.

Recreation facilities in the Town of Massena include Springs Park, Bushnell Park, the North Main Street Park, Alcoa Field Recreation Park and the Creative Wooden Playground. There are two recreation areas in Akwesasne – the Mohawk International Raceway and Generations Park.

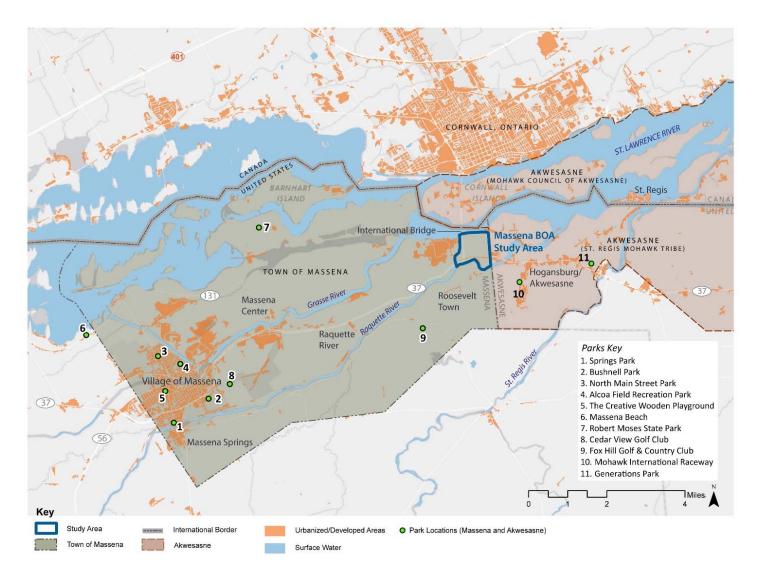


Figure 3-9. Parks and Open Space

Springs Park

Springs Park is located on West Hatfield Road, on the north shore of the Raquette River. It is used primarily for boating and fishing activities. The park includes one baseball field and one tee ball field.

Bushnell Park

Bushnell Park is located on Robinson Road. The park includes two softball fields. One of the fields is lighted.

North Main Street Park

North Main Street Park has two Little League diamonds. Area residents use the park for Little League games and programs, including tournaments.

Alcoa Field Recreation Park

Alcoa Field Recreation Park is located off of Woodlawn Avenue. There are two softball fields at the park. One of the fields is lighted. Other park amenities include four tennis courts, a basketball court, four horseshoe pits and an outdoor hockey rink. During summer months, this park is home to a range of recreation programs.

The Creative Wooden Playground

The Creative Wooden Playground is located on Danforth Place. Local officials plan to take down the playground and replace it with new equipment. The Town and Village agreed in 2014 to bring in the original designer of the park to assess its age and condition. Review of the park's equipment is currently ongoing.

Robert Moses State Park

Robert Moses State Park is located partly on the mainland and partly on Barnhart Island. It offers campsites and cabins, a marina and boat launch, fishing, picnic areas, a swimming beach, tennis courts, and a year-round nature center. The park also offers hiking and cross-country skiing trails as well as forests and wetlands with beautiful overlooks. During winter months, the park welcomes snowmobilers. Access to the park is through a tunnel under the Eisenhower Lock.

The Nature Center at Robert Moses State Park was recently renovated with funding from NYPA and provides a modern environmental education center, outdoor classroom space, and year-round programing.

Massena Town Beach

The Massena Town Beach covers about 20 acres. Its amenities include a wide sandy beach, three covered picnic pavilions, picnic areas with grills, a handicap-accessible waterfront, restrooms, changing rooms, and a concession stand. Other recreation amenities include a softball field, a volleyball court, two basketball hoops and playground equipment. The Massena Town Beach is also home to a nature trail and shoreline suitable for fishing.

Brasher Falls State Forest/Bombay State Forest

Brasher Falls State Forest and Bombay State Forest cover 22,242 acres. The forests are located near the borders of St. Lawrence County and Franklin County in the towns of Brasher, Norfolk, Bombay and Moira. The forests are managed to provide a sustainable and renewable supply of wood products such as firewood, pulpwood, posts, poles and saw timber. They are home to about 4,500 acres of wetlands,

which provide habitats for birds, fish, amphibians and protected plants. Recreation activities include hunting for deer, grouse and other small game, fishing access points on the St. Regis and Deer Rivers, and extensive trail and road systems for hiking, cross country skiing, horseback riding and snowmobiling. The Walter F. Pratt Memorial Forest, located within Brasher State Forest, also offers picnic tables that overlook the Redwater Dam and two accessible campsites designed for use with camper trailers.

Massena Country Club

The Massena Country Club is a par-71 golf course with a 6,760-yard design. The St. Lawrence River can be seen from 14 of the 18 holes. Its Tom Siddon Pro Shop carries golf equipment and apparel. Its 10,000-square-foot clubhouse is home to the Club House Grill restaurant.

Cedar View Golf Club

Cedar View Golf Club is located east of the Village of Massena and has been in operation since 1971. It offers an 18-hole, par-72 golf course. The New York State Golf Association has rated and sloped the course. Cedar View also offers guests and members access to the Golf Handicapping Information Network, which is sanctioned by the U.S. Golf Association. The golf club is also home to a pro shop and the 19th Hole, a sports bar and restaurant.

Fox Hill Country Club

Fox Hill Country Club is located in the Town of Massena. It offers an 11-hole, par-44 golf course. The greens are large, challenging and scenic. Construction is underway to expand the golf course to 18 holes. Amenities at the country club include a driving range, a pro shop and a restaurant, the Fox Hill Clubhouse.

Mohawk International Raceway

A motor racetrack at Akwesasne, located on Frog Town Road about a mile west of the BOA Study Area, is a seasonal entertainment destination for Akwesasne and other North Country communities. It draws crowds for Friday night races during the spring, summer and fall.

Generations Park

SRMT's Generations Park is a multi-sport recreation facility. It includes two outdoor lacrosse fields and a sheltered outdoor arena that doubles as a box lacrosse field and hockey rink.

3.9 HISTORIC AND ARCHEOLOGICALLY SIGNIFICANT AREAS

This section describes historic and archeologically significant areas in the BOA Study Area and the surrounding communities of Massena and Akwesasne, as well as efforts to identify and recognize additional buildings and districts.

Study Area Based on a review of the New York State Cultural Resource Information System, the entire study area is located in an archaeologically sensitive area. Figure 3-8 shows the BOA Study Area and previous cultural resource surveys. Two archeological surveys and one cultural resource consultation were conducted for areas that overlap with the study area.

- St. Lawrence River Shoreline Structures and Erodibility Study (Archeological Survey) regional survey that extends along the entire New York State shoreline of the St. Lawrence River.
- Massena Border Crossing Improvements (Archaeological Survey) survey conducted during the 2010 reconstruction of the U.S. General Services Administration Massena Land Port of Entry facility.
- Massena Land Port of Entry Waterline Study (Cultural Resource Consultation) evaluation of the Haverstock Road proposed waterline extension to the U.S. Border Station.

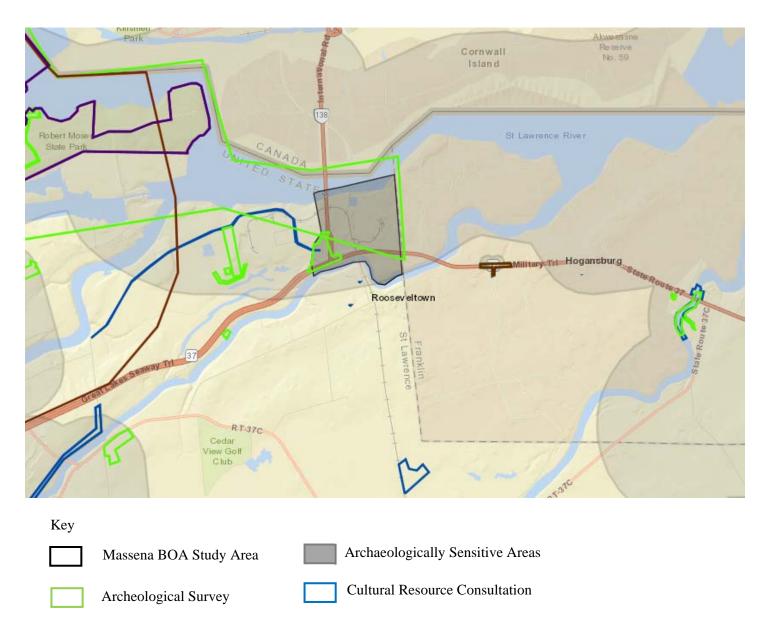


Figure 3-8. Archeologically Sensitive Areas and Previous Surveys in the BOA Study Area

Akwesasne

Cultural resources for SRMT reflect traditional life at Akwesasne and present a set of regional tourism destinations. The presence of SRMT at Akwesasne predates European settlement in the region and the development of industrial manufacturing uses in the study area. While review of readily-available tribal and state cultural resources information did not identify specific archeological structures in the BOA Study Area, the study area and surrounding St. Lawrence River shoreline area a state-designated archeologically sensitive area.

Further screening of cultural resources within five miles of the BOA Study Area identified a range of historically significant places and cultural resources highlighted by the Akwesasne Cultural Tourism Working Group.

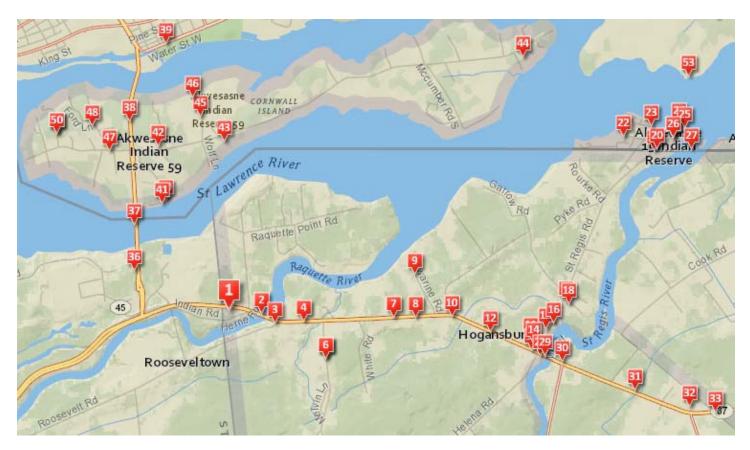


Figure 3-9. Cultural, Historical and Artistic Heritage Locations of Akwesasne

Source: Experience Akwesasne Interactive Map. www.arcgis.com/apps/MapTour/index.html?appid=80733ab1faaa49b8b7b1e941fc12400f#. Table 3-K. Cultural, Historical and Artistic Heritage Locations of Akwesasne

As part of the Akwesasne Cultural Tourism Development Initiative, SRMT is actively developing an inventory of historical and cultural sites within Akwesasne. The Experience Akwesasne Interactive Map, launched in 2016 and shown in Figure 3-9 above, identifies some of the locations that showcase the rich cultural, historical and artistic heritage of Akwesasne. These locations and resources are the foundation of SRMT's emerging cultural tourism-based economic development strategy. The strategy seeks to connect visitors with local businesses and culturally significant locations.

Town of Massena

Some historic buildings are located in the Town of Massena. None are currently listed on the National Register of Historic Places. In October 2013, the Massena Historic Preservation Committee (Preservation Committee) met with the State's Historic Preservation Office (SHPO) to review buildings that could potentially be recognized as historically significant. These structures included the Massena Theater (previously Schines), Hugh's Barbershop, Cyberworld, and Phil and Jackie's Gift Shop. All buildings in Massena's Elm Circle Park Historic District are also eligible for SHPO listing.

Since the Preservation Committee's first meeting with SHPO in 2013, the Committee has expanded its efforts to seek recognition of Massena's downtown corridor as a historic district. In February 2014, the Town granted \$1,750 to assist the Committee with the Historic Register application process. No other historic or archeologically significant districts are recognized in the Town of Massena.

Located near Massena, the Robinson Bay Archeological District is listed on the National Register of Historic Places and is noted as being archeologically significant due to its aboriginal heritage.

Historic Recognition Efforts

The Downtown Massena Coalition consists of representatives from the Massena Business Development Corporation (BDC) and the Massena Historic Preservation Office. The Coalition was established to explore the feasibility and benefits of establishing local historic districts that may attract visitors as well as skilled laborers and professionals to the area.

Industrial Heritage and Aluminum Manufacturing

Massena's Alcoa West Plant is locally recognized as the longest continually operating industrial facility in the western hemisphere.⁶ The original aluminum smelter was developed in 1902 by the Pittsburgh Reduction Company, later renamed the Aluminum Company of America (Alcoa). Attracted to the community by its proximity to the Robert Moses power dam, the company expanded its Massena operations during the 1900s to include casting and fabrication operations, followed by construction of the Reynolds Metals aluminum foundry (now the Alcoa East Plant) adjacent to the BOA Study Area. Together, the two aluminum companies, fueled by skilled labor and low-cost power from the Robert Moses power dam, drove the local economy and provided the readily available aluminum products that attracted General Motors to Massena in 1959.

Global economic shifts in the aluminum and manufacturing industries led to a decline in Massena's aluminum and manufacturing industries, forcing production declines and eventual closures of the General Motors Powertrain plant in 2009 and the Alcoa East Plant in 2015. While Alcoa's remaining Massena Operations at the West Plant are guaranteed to remain in operation through 2019, the industry's decline is prompting Massena to build on its industrial heritage and forge a new direction for its economy.

The evolution of the aluminum industry in Massena, combined with its labor history, local economic contributions, sense of community and environmental impacts, have all shaped the community today. Efforts underway through the Village of Massena's Moving Massena Forward Initiative identify opportunities to showcase and build on the community's industrial heritage. Massena's aluminum smelting and production history provides a rich foundation for an industrial heritage strategy.

Revitalization Considerations

The revitalization of the Massena BOA presents an opportunity to help promote regional tourism through connecting activities and uses within the BOA Study Area to cultural resources within Akwesasne and Massena.

- SRMT's Cultural Tourism Development Strategic Plan identifies the need for a welcome center and cultural tourism center that could benefit from the study area's strategic location next to the International Bridge.
- Massena's industrial heritage provides a strong foundation on which to build. The area's economy will likely continue to move away from the model of large manufacturing plants and single employers to a diversified economy with many smaller employers.

⁶ Town of Massena website. <u>massena.us/173/History</u>.

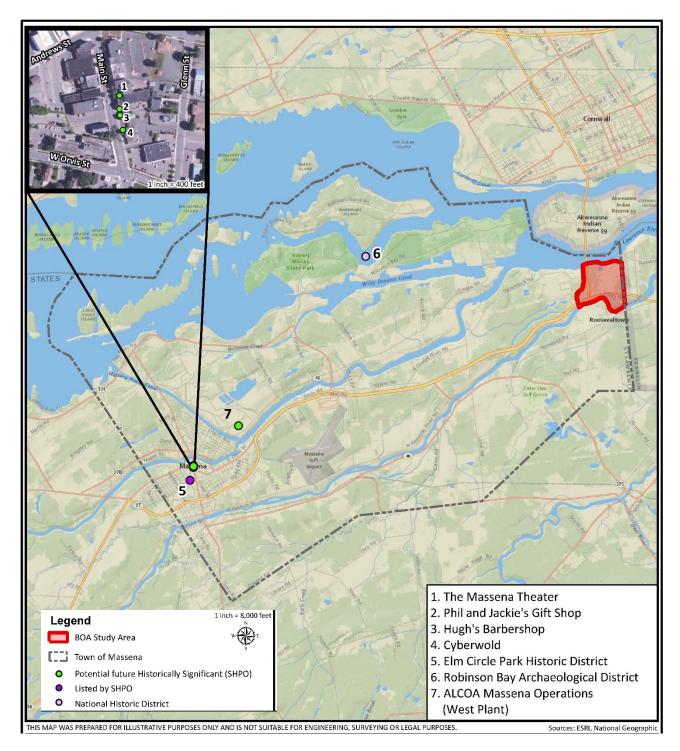
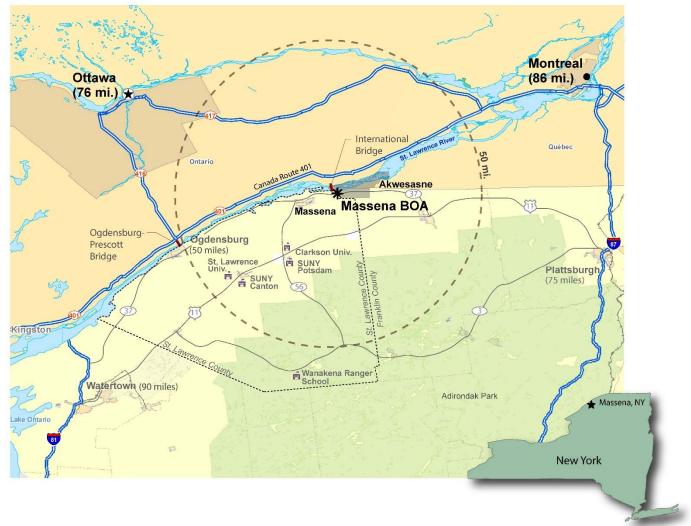


Figure 3-10. Historic Buildings in Massena

3.10 TRANSPORTATION SYSTEMS

This section summarizes the transportation infrastructure – highways and roads, airports, rail, ports – that currently serves the BOA Study Area and surrounding areas.

Regional Transportation Systems





Access/Linkages

The BOA Study Area is located in St. Lawrence County in northern New York, along the Canadian border. The Adirondack Mountains are located to the south. The Thousand Islands region is located to the west. The St. Lawrence River is located to the north. The Canadian cities of Ottawa and Montreal are less than 90 miles away. Interstates 81 and 87 are about 90 and 75 miles away, respectively. Canada Route 401 is located just over the Canadian border, connecting the metropolitan areas of Toronto, Montreal and Windsor, and continuing across Canada.

Access to ocean shipping routes is available via the St. Lawrence Seaway, located about eight miles from the BOA Study Area. The study area can be accessed by car locally via New York State Route 37, Haverstock Road

and Chevrolet Road (County Route 45). The study area is about 12 miles, or a 20-minute drive, east of the Village of Massena, a half-mile from Akwesasne (Hogansburg), New York, and five miles from Cornwall, Ontario.

Roadways and the NYSDOT Functional Classification

This classification system places roads, streets, and highways into groups according to the service provided. The two classes present in the BOA Study Area are Principal Arterial (Rural) and Minor Collector (Rural). Principal Arterial Roads include New York State Route 37 and the International Bridge Approach. Minor Collector Roads include County Road 45 and Chevrolet Road.

Assets for highway and road access include:

- New York State Route 37 highway access.
- International bridge and border crossing.
- Access to internal road network across the RACER Trust property.
- Former haul roads connecting the RACER Trust property to the Alcoa East Plant.
- Access to Indian Road, which connects to the RACER Trust properties south of State Route 37
- International Bridge Approach and toll bridge, operated by St. Lawrence Seaway Development Corporation.

There are several infrastructure gaps related to highway and road access. The internal road network on the RACER Trust property is limited to haul roads in place for remediation. Roads connecting the RACER Trust property and the Alcoa East Plant extend across Alcoa property, a property with restricted access. Indian Road is an unimproved road, resulting in access challenges.

Regional Bus Service

Adirondack Trailways provides regional bus service. Service is provided to Massena and various locations throughout St. Lawrence County, with destinations across New York State as well as Toronto and Montreal, and connections to Ottawa, Washington, D.C. and Boston.

Roethel Coach Lines currently provides service in Massena and other locations in St. Lawrence County for the "Connecting Communities" public transportation system. Fares (as of 2010) are \$4.00, with no charge for children under the age of three. These fares include free transfers.

Airports

St. Lawrence County is served by several airports, including Massena International Airport (Richards Field Airport), Ogdensburg (Ogdensburg International Airport) and Potsdam Municipal Airport (Damon Field). Airports within a short drive include Watertown International Airport, Hancock International Airport in Syracuse, and the international airports in Ottawa and Montreal.

The Town of Massena operates Richards Field Airport in Massena. It has two runways — a 4,000-foot runway and a 5,000-foot runway. The airport supports passenger and freight service to Boston and Albany, provided by

Cape Air. Ogdensburg Bridge and Port Authority operates the Ogdensburg International Airport, located about 40 miles from the BOA Study Area. With one 5,200-foot runway, the facility provides passenger and freight flights to Boston and Albany, also provided by Cape Air. Charter flights are available at Damon Field in the Village of Potsdam, which is located about 20 miles from the BOA Study Area. Seven major air carriers and nine other airlines provide passenger and freight service to Hancock International Airport in Syracuse. This airport is located about 160 miles from the BOA Study Area.

Freight Rail

The BOA Study Area includes the Massena Terminal Railroad, a CSX Transportation (CSX) rail line. This shortline connects the CSX transportation yard in Massena to the RACER Trust property and terminates at the neighboring Alcoa East plant. Massena Terminal Railroad links to CSX and other freight lines that connect Syracuse to Montreal. The RACER Trust owns three active rail spurs that extend to the central portions of the study area. The Trust upgraded the spurs in 2012 and 2013 and has used rail service regularly during the cleanup process.

The RACER Trust is currently working to position its property in the BOA Study Area for a CSX "Select Sites" designation. CSX Select Sites are certified based on size, access to rail services, and proximity to highways, workforce availability, natural gas, electricity, water, wastewater, and environmental and geotechnical standards. Sites with this designation range in size from 83 acres to more than 2,000 acres and are located within five miles of an interstate highway. CSX Select Sites are currently designated in 10 states, primarily in the Midwest and Southeast. There are currently no CSX Select Sites in New York State or the northeastern United States. CSX recently invested in significant upgrades at its primary Montreal multi-modal center, Salaberry-de-Valleyfield, which is about 85 miles from the BOA Study Area.

Obtaining a CSX Select Site designation could help market the area across the transportation, rail maintenance, warehousing, manufacturing and wood-product sectors. Canada Route 401 provides nearby interstate highway access but requires an international border crossing. Rail assets in the study area include the three active rail spurs on site, Massena Terminal Railroad, the CSX-owned rail line, and rail connection through the study area to the adjacent Alcoa East Plant.

Navigable Waterways

Originating at the northeastern end of Lake Ontario, the St. Lawrence River flows 700 miles to the Atlantic Ocean. The river drains well over 30,000 square miles of the Great Lakes Basin. With an average width of two miles and a maximum depth of over 200 feet, this sole natural outlet for the Great Lakes system is the largest eastwest river in North America.

The first 114 miles of the waterway forms the border between southeastern Ontario (Canada) and northern New York State, and is a part of the St. Lawrence Seaway. The St. Lawrence Seaway is a system of locks, canals and channels that permit oceangoing vessels to travel from the Atlantic Ocean to the Great Lakes. The Seaway is considered a deep draft waterway and is a major North American trade artery for shipping and commodities transport. Nearly 25 percent of the traffic on the Seaway travels to and from overseas ports.

Port Facilities

The Port of Ogdensburg, New York, owned and operated by the Ogdensburg Bridge and Port Authority, offers intermodal transportation options to industrial shippers and is located about 45 miles west of the BOA Study Area. The Port is the only port in the Great Lakes Region designated as a Port of National Defense.

With a deep-draft berthing of 27 feet and a 1,250-foot wharf, the Port of Ogdensburg provides shopping vessels with access to overseas markets. The port's shipping operations currently include bulk materials, salt and aggregate. The Port of Ogdensburg operates bulk-loading conveyors designed to load 100-pound material at the rate of 1,100 short tons per hour. The Port provides shoreside cranes, which range in size from 50 tons to 220 tons. Roll-on and roll-off service is also available.

Barge Access⁷

Massena and local stakeholders see a need for barge access to the Great Lakes St. Lawrence Seaway System, and the BOA Study Area has been considered as an option for barge access.

There are currently no docking facilities in the BOA Study Area. However, a docking facility on the Alcoa East property, just west of the International Bridge, is located within a half-mile of the study area. Alcoa currently uses this facility for storage. The estimated water depth at the facility is 25 feet.

Barge Docking Requirements

Barge access requirements for a docking facility consider channel depth, vessel size and pier needs. The St. Lawrence Seaway provides a channel depth of 27 feet and accommodates vessels with the following maximum dimensions.

- Length: 740 feet
- Draft: 26 feet, 6 inches
- Width: 78 feet
- Height above water: 116.5 feet

The potential for barge access within the BOA study area is dependent on the depth of the channel, which is 41 feet, and the height of the Seaway International Bridge, which is 121.4 feet, which can accommodate the largest vessel allowed in the system. Additional factors to be considered include:

- Pier location along the waterfront: The placement of a pier for docking vessels would need to avoid the capped area of the RACER Trust property. There appears to be a sufficient length of unencumbered waterfront in the study area for consideration of pier placement. Placement of a pier would likely occur on properties 2 and 5A.
- <u>Dredging:</u> It may be necessary to dredge a portion of the area between the shoreline and the channel to accommodate docking vessels. This would be dependent upon actual water depth at this location and how far

⁷ St. Lawrence Seaway Management Corporation www.greatlakes-seaway.com.

the pier can be extended. This effort may be challenging, given the capped area on the RACER Trust property. Further assessment of depth to bedrock and water depth is recommended when considering dredging. The assessment should include evaluation of whether blasting of bedrock will be required. As part of this effort, proximity to the International Bridge and the underwater cap would need to be considered. Both of these considerations could potentially hinder dredging.

- <u>Environmental concerns</u>: In addition to avoiding the capped area, other environmental concerns such as impacts of pier construction and shipping activity on aquatic life would need to be carefully evaluated.
- <u>Permitting</u>: A series of permit approvals would be required for any barge access or related activity.

Barge Access Considerations

Barge access was evaluated based on previous inquiries about the potential for barge docking at the RACER Trust property. Sediment disturbance restrictions along the St. Lawrence River frontage at the RACER Trust property are a significant obstacle for barge access. The RACER Trust does not support further evaluation of barge access for the area.

Multi-modal Connections⁸

Multi-modal connections in and near the BOA Study Area include any combination of access to highway, roads, barge and rail systems. The study area could connect New York State Route 37 and County Road 45 with barge and/or rail, resulting in enhanced economic opportunities. Multi-modal connections can play a role in encouraging job creation, job retention, and economic growth locally and regionally.

3.11 UTILITIES ASSESSMENT

This section discusses infrastructure and utilities that currently serve the BOA Study Area, including electric, natural gas, water, wastewater and broadband.

Electric Transmission

The BOA Study Area is served by two utilities - the Massena Electric Department (MED) and NYPA.

Massena Electric Department

MED is a non-profit company owned and operated by the Town of Massena. MED provides power over 131 square miles to about 9,000 customers. MED's customers include businesses and residents. About 75 percent of the power distributed by MED comes from renewable sources. Almost all the power is in the form of hydropower from NYPA's St. Lawrence-Franklin D. Roosevelt Power Project. MED provides lower voltage electrical service to the U.S. Border Station and Customs, as well as EPA and the RACER Trust's temporary office facilities on site. Continued use of MED electrical service may be sufficient for low-power-demand uses at the site. Facilities requiring higher voltage may benefit from use of the NYPA direct feed from the Robert Moses generating station, as discussed below.

⁸ www.csx.com/index.cfm/customers/industrial-development/search-property-types/csx-select-sites/

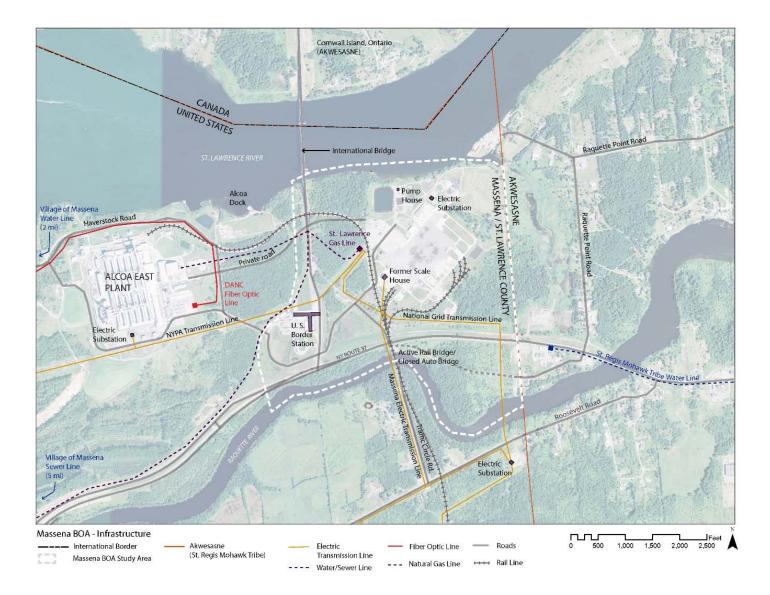


Figure 3-12. Infrastructure and Utilities Map

NYPA

NYPA and Canadian utility Ontario Power share cooperative operation of a power dam that stretches across the St. Lawrence River, the length of 10 football fields. The Robert Moses-Robert H. Saunders Power Dam has 32 turbine-generators and can produce more than 900,000 kilowatts (kW) of electricity. The GM Massena site receives a direct electrical transmission line from NYPA. The RACER Trust owns an electric substation in the study area designed to receive the NYPA electric transmission and step down the power for manufacturing operations.

As part of a settlement with St. Lawrence County, NYPA is required to provide low-cost power for businesses to promote economic development. The RACER Trust and NYPA maintain a long-term agreement to restore the NYPA power supply at low cost to support future uses at the GM Massena site. Currently, transmission lines run by NYPA extend to the western border of the BOA Study Area. The connection has been temporarily cut off during remediation efforts. Agreements between NYPA and the RACER Trust anticipate reactivation of NYPA feed to the on-site substation.

Electric assets in the study area include:

- Access to a low-cost, reliable power supply where 75 percent of the power produced is renewable in the form of hydroelectricity.
- Access to an on-site electric substation.
- Current power supply from MED to on-site office, water pumping station and groundwater treatment facility.

Natural Gas

Natural gas power is distributed to St. Lawrence County by St. Lawrence Gas, a public distribution company regulated by the New York State Department of Public Service Commission. St. Lawrence Gas is a wholly owned subsidiary of Enbridge Gas Distribution in Canada. St. Lawrence Gas was incorporated in 1957 and distributes natural gas to about 13,600 residential customers, 1,600 commercial customers and 23 industrial customers.

The BOA Study Area has the potential to obtain natural gas through the State Route 37 corridor. The connection point at the western border of the RACER Trust property has been closed to allow for remediation of the GM Massena site.

Potable Water

Access to drinking water within the BOA Study Area is currently limited. There are no public water supply lines in place, and groundwater use restrictions at the GM Massena site prevent groundwater withdrawal and use within the entire study area. The RACER Trust owns and operates a pumping station on site with withdrawal permits from the St. Lawrence River. The permit does not provide for potable water use.

Future water supply could potentially be coordinated with the Border Station or the Village of Massena.

Border Station

The Border Station currently purchases about 13,000 gallons per day (gpd) of water from the Alcoa East treatment plant. The Alcoa plant is a small package plant providing treatment for potable water, with a system capacity of up to 100,000 gpd. Current usage is about 14,000 gpd, according to Alcoa representatives. The U.S. General Services Administration, which manages the Border Station facility, is planning to replace the current water supply. A 2015 Water Supply Study evaluated a range of potential options. The General Services Administration is funding an extension of the Village of Massena water supply line from Haverstock Road to the Border Station.

Village of Massena

The Village owns and operates a water treatment plant. The plant was built in 1963 and is located at 357 Pontoon Bridge Road. The treatment plant has the capacity to produce 3.5 million gallons per day (MGD) of clean water. Currently, the plant is only producing about 1 to 1.5 MGD to meet current customer needs. Therefore, additional water supply is available.

Potable water for the Town and Village of Massena is supplied by the St. Lawrence River and its tributaries through the Village of Massena Water Department. The Village's public water system extends east to Haverstock Road. The source is located at the Massena intake on Route 131, just north of the Village of Massena. At the intake, the water is pre-chlorinated for disinfection and zebra mussel control. The water is then filtered through diatomaceous earth and post-chlorinated for disinfection. Fluoride is also added to the water for dental protection and zinc orthophosphate is added as a corrosion inhibitor. Once the water has been treated, it is pumped into a 500,000-gallon storage tank and distributed through an underground pipe system. The system serves the residents

of the Village of Massena as well as water districts in the Town of Massena. The system provides water to about 11,000 people in the Village of Massena and 2,450 people in the Town of Massena.

Water Supply Considerations

A water supply is not currently available within the BOA Study Area. However, the General Services Administration is funding a water line extension to connect the Border Station to the Village of Massena water line on Haverstock Road. Construction of the new water line, planned for 2017-2018, will provide a public water supply connection immediately east of the Alcoa East Plant. A quarter-mile extension from this new water line to the RACER Trust property would provide a viable water supply option for the Study Area (for more information, see Section 7 – Recommendations).

Wastewater

There are no wastewater treatment facilities within the BOA Study Area. Additionally, the Town of Massena does not own or operate wastewater treatment or collection infrastructure and the Village of Massena's wastewater connection is 5.5 miles from the BOA Study Area. SRMT's wastewater lines, located a half-mile from the study area, do not extend beyond the Akwesasne border.

The Border Station uses an on-site septic system to manage wastewater from the Border Station and U.S. Customs facility within the study area. However, this system is not designed for additional wastewater discharges.

Village of Massena Wastewater Treatment Plant

The Village's wastewater treatment plant is located at 302 East Orvis Street. The facility was originally built in 1959, upgraded in 1980 and refurbished in 2000. The upgraded facility has the capacity to treat 4.8 MGD. Additionally, it has the ability, through a NYSDEC permit, to discharge up to 6 MGD. Secondary treatment processes include preliminary screening, grit removal, activated biosolids treatment using contact-stabilization, final clarification and ultraviolet disinfection.

In addition to this treatment, snowmelt and stormwater flows are provided primary treatment. This treatment includes settling and chlorination/dechlorination before being combined with treated plant effluent, which is discharged to the Grasse River. Currently, due to inflow and infiltration-related issues, developers are required to perform inflow and infiltration improvements to the Village's wastewater system. This action is required to negate impacts from new sewer flows from a developer's site upon connection.

Wastewater Considerations

Wastewater discharge via the Village of Massena wastewater system is unlikely feasible due to the distance (5.5 miles) to the nearest connection. The most likely alternative for providing wastewater service to the study area requires construction of a wastewater treatment facility on site.

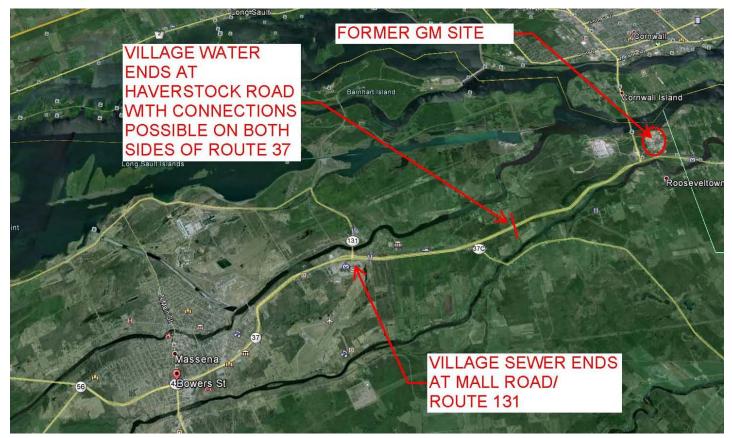


Figure 3-13. Existing Village of Massena Water and Wastewater Connections

Broadband

Government funding and private enterprise have developed a network of multi-point fiber optic transmission providing high-speed connection potential for businesses and residents. Broadband providers in the Massena area include Time Warner, Verizon, AT&T, Sprint and Slic Network Solutions.

The Development Authority of the North Country (DANC) operates 1,250 miles of fiber-optic transmission lines throughout North Country. A DANC connection extends to the Alcoa East Plant. Additionally, Mohawk Networks broadband fiber wi-fi provides service from the DANC Alcoa East Plant connection to users throughout Akwesasne. The Mohawk Networks fiber-optic line extends through the BOA Study Area along the north side of Route 37.

New York State recently announced a \$500 million broadband program to ensure statewide high-speed broadband access. The North Country is in a good position to take full advantage of this program.

Key Utility Considerations

Based on the status of infrastructure components evaluated in the Utilities Assessment above, Table 3-N summarizes utility readiness for the BOA Study Area. The study area is well-served by road, rail, gas, electric and broadband utilities. Water and wastewater services are not available in the study area and will require a substantial investment, while potential for barge access in the study area is significantly limited by an underwater sediment cap and environmental use restrictions in place as part of the GM Massena site's remedy.

Table 3-N. Utility Readiness Assessment

Utility Components	1. Readily Available	2. Modest Investment	3. Substantial Investment
Road	\checkmark		
Rail	\checkmark		
Barge			\checkmark
Electric	\checkmark		
Gas	\checkmark	\checkmark	
Water			\checkmark
Wastewater			\checkmark
Broadband	\checkmark		

3.12 NATURAL RESOURCES AND ENVIRONMENTAL FEATURES

This section provides information on the natural resources in the BOA Study Area to help identify specific areas available for redevelopment as well as areas requiring protection or consideration during development. In addition, redevelopment can provide opportunities to restore and establish habitat on portions of the BOA Study Area that lack natural resources.

Topography

The BOA Study Area is 230 feet above sea level and generally flat, especially north of Route 37. Regrading as part of GM Massena site remediation efforts has created 90 to 100 acres of flat land that is well-suited for redevelopment, including roads, utility corridors and buildings. Portions of the study area south of Route 37 slope gently south toward the Raquette River. Embankments along the southern edge of Route 37 and the Raquette River bank are characterized by steeper grades that present constraints for access and redevelopment.

Wetlands

The National Wetlands Inventory (NWI) identifies three wetland types present in the BOA Study Area – Freshwater Emergent Wetland, Freshwater Forested/Shrub Wetland, and Freshwater Pond. There are no stateprotected wetlands in the BOA Study Area. However, wetlands are located outside of the southwestern border of the BOA Study Area. New York's freshwater wetlands maps only show approximate locations of the wetland boundary. If a proposed project appears to encroach on the adjacent wetland, the regional NYSDEC office should be consulted to verify the actual wetland boundary location. If necessary, a biologist may perform a field delineation to help avoid potential impacts to wetlands or the regulated 100-foot buffer zone. Target areas within the BOA Study Area are not located within this buffer. Therefore, future BOA Study Area endeavors are not anticipated to have any adverse impacts on the wetlands.



Figure 3-14. Wetlands within the BOA Study Area

Surface Waters

The BOA Study Area is bordered by the St. Lawrence River to the north and Raquette River to the south. NYSDEC established water use classification and water quality standards based on considerations for public health and water supplies, recreation, propagation and protection of fish and wildlife.

Per NYSDEC's Waterbodies Inventory and Priority Waterbodies List, the segment of the St. Lawrence River that borders the BOA Study Area to the north is an area of concern (AOC). Fish consumption in this portion of the St. Lawrence River is impaired by priority organics (PCBs, dioxin) and pesticides (mirex) in river sediments attributed to past discharges containing runoff from industrial waste sites and impacts from Lake Ontario sediments (see Wildlife Habitat below for additional details). Minor impacts to aquatic life, habitat and hydrological uses may occur due to the flow regulations required to support commercial shipping in the river.

The Raquette River is listed as Class B. The best usages for Class B waters are primary and secondary contact recreation and fishing. These waters are designated as suitable for fish, shellfish, and wildlife propagation and survival.

Soils

As shown in Table 9.4.1, predominant soils in the BOA study area are classified a urban land. This is due to grading, filling, and significant excavation and back filling through the development and cleanup processes at the GM Massena site. Native soil types are predominently Croghan loamy fine sand, Deford loamy fine sand, Elmwood fine sandy loam, Fluvaquents-Udifluvents complex, Heuvelton silty clay loam, Hogansburg fine sandy loam, Hogansburg and Grenville soils, Malone loam, Malone loam (very stony), Muskellunge silty clay loam, Muskellunge silty clay loam (MsB), Redwater fine sandy loam, Udorthents (clayey), Udorthents (refuse substratum), and urban land.

Soil types are an important consideration for determining stability and areas suitable for structural development as well as drainage and potential wastewater disposal via septic systems. Most soils at the GM Massena site are classified as urban land and have poor drainage characteristics. These areas are well-suited to structural development but would present significant challenges for construction of a wastewater treatment system that requires a septic system or discharge to groundwater. Future wastewater disposal options would likely need to rely on an existing off-site wastewater treatment system or construction of a new system with surface water discharge.



Figure 3-15. Soil Characteristics in the BOA Study Area

Table 3-L. Hydrologic Soil Groups

#	Soil Type	Slope	Hydrologic Soil Group (HSG)	Drainage Quality	Depth to Bedrock
1	CvB - Croghan Ioamy fine	3-8%	A/D	soils with high infiltration rate	60+ inches
2	Dd - Deford loamy fine sand	-	A/D	soils with high infiltration rate	60+ inches
3	EmA - Elmwood fine sandy loam	0-3%	C/D	soils with slow infiltration rate	-
4	Fu - Fluvaquents- Udifluvents	-	A	soils with high infiltration rate	60+ inches
5	HeB - Heuvelton silty clay loam	2-6%	C/D	soils with slow infiltration rate	60+ inches
6	HnB - Hogansburg fine sandy loam	3-8%	C/D	soils with slow infiltration rate	60+ inches
7	HrB - Hogansburg and Grenville soils	0-8%	С	soils with slow infiltration rate	60+ inches
8	MaA - Malone loam	0-3%	C/D	soils with slow infiltration rate	60+ inches
9	MbB - Malone loam	0-8%	C/D	soils with slow infiltration rate	60+ inches
10	MsA - Muskellunge silty clay	0-2%	C/D	soils with slow infiltration rate	60+ inches
11	MsB - Muskellunge silty clay	2-6%	C/D	soils with slow infiltration rate	60+ inches
12	Rd - Redwater fine sandy loam	-	B/D	soils with moderate	40-60 inches
13	Uf - Udorthents, clayey	-	С	soils with slow infiltration rate	60+ inches
14	Un - Udorthents, refuse substratum	-	С	soils with slow infiltration rate	60+ inches
15	Ur - Urban land	-	-	soils with slow infiltration rate	Varies

Sources: NAIP 2013, U.S Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS).

Bedrock and Surface Geology

Per the New York State Museum Generalized Bedrock Geology map, the BOA Study Area is primarily made up of limestones, shales, sandstones and dolostones. This group is classified as the Beekmantown Group: Odgensburg Dolostone up to 2,500 feet.

The surficial geology of the BOA Study Area consists mainly of undifferentiated marine, lacustrine sand and undifferentiated marine, lacustrine silt and clay. Additionally, the BOA Study Area consists of till. The NYSDEC Environmental Mapper did not identify any unique geologic features in the study area.

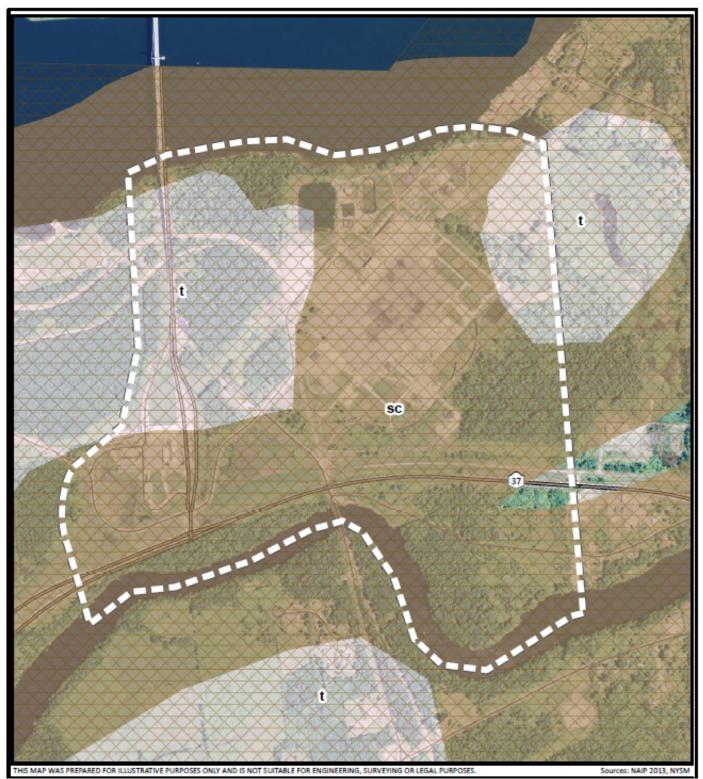


Figure 3-16. Bedrock and Surficial Geology within the BOA Study Area

Groundwater

Per the U.S. Geological Survey Map of Potential Yields of Wells in Unconsolidated Aquifers in New York State, the BOA Study Area is located above a confined aquifer. Additionally, per NYSDEC and EPA databases, the BOA Study Area is not located over a primary or sole source aquifer.

Groundwater flow through the site flows north toward the St. Lawrence River. A large percentage of the BOA Study Area's groundwater is confined to one layer, the upper glaciolacustrine unit, which is found at depths of 30-40 feet below the surface. While most groundwater flows north toward the St. Lawrence River, there is also limited shallow groundwater that flows south toward the Raquette River. Groundwater at the GM Massena Superfund site is classified by New York State as a drinking water source. According to EPA's 2015 Five-Year Review for the site, restrictions prevent the extraction and potable use of groundwater in the study area due to PCB and VOC contamination.

Groundwater use limitations in the study area present a key challenge for revitalization of the Massena BOA and require identifying an alternate water source (see Section 3.9 -Utilities Assessment and Section 7 -Water Supply Options for further evaluation).

Floodplains

According to flood insurance rate maps prepared by the Federal Emergency Management Agency (FEMA), the BOA Study Area is not located within the 100-year or 500-year floodplain. The flood zone located next to the BOA Study Area to the north and south is Zone A. The St. Lawrence River is to the north and the Raquette River is to the south. Zone A designations are areas subject to inundation by the 1-percent-annual-chance flood event generally determined using approximate methodologies.

Wildlife Habitat

Wildlife habitat areas within the BOA Study Area include surface waters of the St. Lawrence and Raquette rivers and forested areas in the southern portion of the study area. The area's rivers support fisheries (Atlantic salmon, lake sturgeon, northern pike) and nearby upland areas support habitat for nesting water birds, turtles and mammals.

Habitat Impacts

Surface water and sediment habitats in and around the BOA Study Area have been adversely impacted by contaminant releases at the GM Massena site and adjacent Alcoa East Plant. EPA's 2015 Five-Year Review for the site noted that fish and turtle fishing and consumption advisories are in place for Turtle Cove within the St. Lawrence River due to PCB contamination sediment impacts in the St. Lawrence River environment since the late 1950s.⁹

⁹ St. Lawrence Environment Natural Resource Damage Assessment, 2016. www.fws.gov/northeast/nyfo/ec/stlaw.htm.

Natural Resource Damage Settlements

In 2011 and 2013, the State of New York and the St. Regis Mohawk Tribe reached settlements with the RACER Trust and Alcoa for injuries to natural resources, recreational fishing and Mohawk culture resulting from the release. These two natural resource damage settlements provide \$20.3 million in restoration funds allocated for ecological restoration projects, recreational fishing enhancements and restoration of Mohawk traditional cultural practices. Allocation of the settlement funding was determined through the settlement process involving the natural resource damages trustees – SRMT, the U.S. Department of the Interior's Fish and Wildlife Service (USFWS), the U.S.



Department of Commerce's National Oceanic and Atmospheric Administration (NOAA), and NYSDEC.

Natural resource restoration projects funded through the settlements were primarily prioritized for areas outside of the BOA Study Area. However, two key projects are relevant to the study area.

- The 2013 settlement with Alcoa provided funds for a boat launch on the Raquette River located about a half-mile west of the study area.
- Approximately \$8.5 million in settlement funding was allocated to SMRT for restoration of cultural practices. A portion of those funds will also support cultural institutions, including youth outdoor education programs and horticultural programs for medicine, healing and nutrition. This funding has helped to launch the multiple efforts to promote traditional cultural practices and elements of Akwesasne Cultural Tourism Development Initiative.

Opportunities

Forested areas on the western and southern portions of the BOA Study Area currently serve as an open space buffer. In the future, forested areas south of Route 37 along the Raquette River provide opportunities for habitat restoration and recreation access to the Raquette River.

Threatened and Endangered Species

According to the USFWS, the Indiana bat (Myotis sodalist) is listed as endangered and the northern long-eared Bat (Myotis septentrionalis) is listed as threatened. A review of New York Heritage Program databases indicated that there is one rare plant, American Dragonhead (Dracocephalum parviflorum), located within the BOA Study Area. When development takes place, NYSDEC should be consulted.

3.13 WATERFRONT ACCESS ASSESSMENT

This section expands on the Views and Viewshed Evaluation to include a more comprehensive evaluation of waterfront access opportunities and constraints for the BOA Study Area along the St. Lawrence River and the Raquette River.

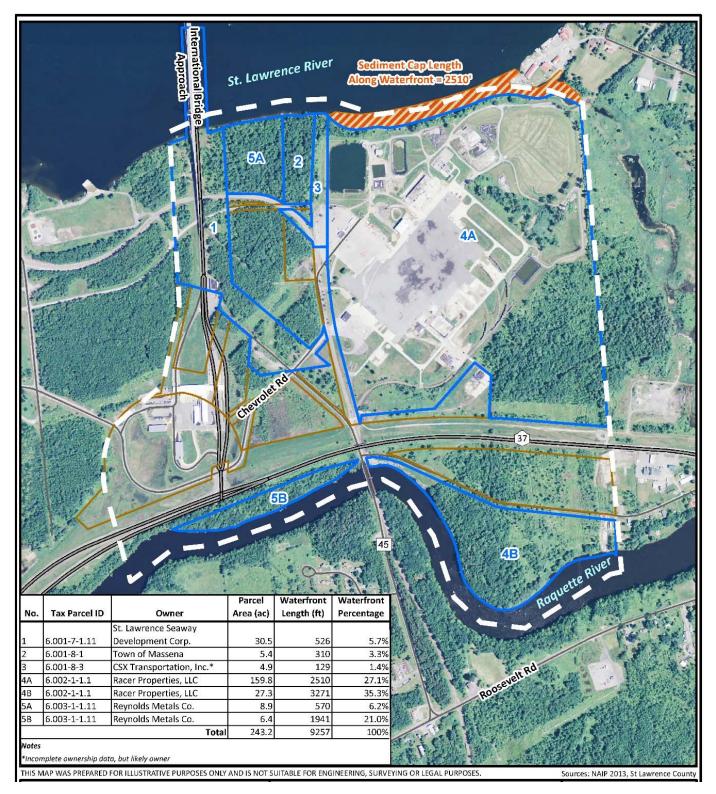


Figure 3-17. Waterfront Properties Assessment

Waterfront Characterization

A total of seven properties are located along BOA study area waterfronts, and five of these properties are adjacent to the St. Lawrence River. These five properties account for 4,045 linear feet, or 43.7 percent of the waterfront within the study area. The remaining two properties are adjacent to the Raquette River, totaling 5,212 linear feet or 56.3 percent of the total waterfront length available.

St. Lawrence River Waterfront

A portion of this waterfront was impacted by activities at the former GM Massena site that contaminated sediment and limits the waterfront activity that can occur. Per EPA's September 2015 Five-Year Review for the GM Massena Superfund site, GM began dredging activities in June 1995 and has removed 99 percent of the PCB mass found in sediments at the site. A multi-layer cap placed over a 2-acre area in the St. Lawrence River reduced surface concentrations of PCBs in the capped area to less than the 1 milligram per kilogram (mg/kg) PCB cleanup goal. The remedy results in 2,510 feet of constrained waterfront property along the St. Lawrence River, as shown in Figure 3-6. GM Massena Site Contamination Areas and Cleanup Status. Institutional controls will limit direct contact to the underwater sediment cap and prevent excavation or disturbance of the cap without EPA's approval. Restrictions also limit dock or pier construction, anchoring, or direct swimming or boating access along the St. Lawrence River waterfront.

Waterfront Ownership

The table below provides a summary of waterfront property ownership for the BOA Study Area. This information has been mapped (see Appendix A). Ninety-one percent of the waterfront property is privately owned. Of the privately-owned waterfront, the RACER Trust is the largest private owner, with 62.4 percent of the study area. Other property owners include Reynolds Metals Co. (30.1 percent) and CSX Transportation (1.4 percent). The remaining 9 percent of the waterfront property is publicly owned by St. Lawrence Seaway Development Corporation (5.7 percent) and the Town of Massena (3.3 percent). Since 95 percent of the property is privately owned, these stakeholders need to be included in discussions related to waterfront access opportunities for the BOA Study Area. The Town of Massena and Racer Properties, LLC are both represented on the project Steering Committee and continue to be involved in the Massena BOA project.

#	Owner	River	Parcel Area (acreage)	Waterfront Length (feet)	Waterfront Percentage
1	St. Lawrence Seaway Development Corporation	St. Lawrence	30.5	526	5.7%
2	Alcoa/Reynolds Metals Co.	St. Lawrence	5.4	310	3.3%
3	CSX Transportation Inc.	St. Lawrence	4.9	129	1.4%
4 A	Racer Properties, LLC	St. Lawrence	159.8	2,510	27.1%
4B	Racer Properties, LLC	Raquette	27.3	3,271	35.3%
5 A	Alcoa/Reynolds Metals Co.	St. Lawrence	8.9	570	6.2%
5B	Alcoa/Reynolds Metals Co.	Raquette	6.4	1,941	21%
Total			243.2	9,257	100%

Table 3-M. Waterfront Property Ownership

Access Opportunities

The following sections provide information about waterfront access opportunities, rangeing from parks, trails and recreation to barge access, as well as multi-modal connections in the BOA study rea.

Parks, Trails and Recreation¹⁰

According to New York State's Statewide Comprehensive Outdoor Recreation Plan 2014-2019, parkland and open space are two of New York State's most valuable, nonrenewable resources that enhance quality of life. Benefits of incorporating parks, trails and recreational areas in the BOA study area and along the area's waterfront property may contribute to enhanced communities through the preservation and creation of open spaces. Waterfront activities could include boating, camping, fishing, swimming and scuba-diving.

Additional benefits to developing parks, trails and other recreation areas include encouraging healthy lifestyles through increased physical fitness, creating new opportunities for outdoor and non-motorized transportation, strengthening local and regional economies through an increase in tourism and the associated amenities, protecting the environment, and preserving culturally and historically valuable resources. These benefits may contribute to increased property values and recreation-related spending for dining and lodging. The incorporation of one or more multi-use trails along waterfront properties may also provide opportunities for people looking for recreational and health benefits. Multi-use trail users include bicyclists, walkers, runners, and hikers. Ultimately, providing these amenities and access opportunities can contribute to a higher quality of life for visitors, residents, employees.

St. Lawrence River

Although direct water access is limited for several along part the St. Lawrence River waterfront properties in the BOA study area may be constrained for some future uses, there may still be an opportunity to install trails or a park along the waterfront. The waterfront property outside the capped area stretches 1,525 linear feet. Coordination with EPA is ongoing to understand the types of activities allowed in this location.



¹⁰ www.nysparks.com/inside-our-agency/documents/201419StatewideComprehensiveOutdoorRecreationPlan.pdf

Incorporating trails, parks and other recreation facilities near the St. Lawrence River waterfront, can further accomplish the mission of the Great Lakes St. Lawrence Seaway Trail. The Trail is a 518-mile National Scenic Byway that follows the shores of Lake Erie, the Niagara River, Lake Ontario and the St. Lawrence River in New York and Pennsylvania. The Trail's mission to increase tourism revenue and to enhance the economies of trailside communities. Creating access through the development of parks, trails and other recreation areas along the BOA study area waterfront can connect the study area to the scenic byway while stimulating the local and regional economy and interpreting the area's natural and cultural history.



Providing boat launch access points for non-motorized watercrafts (canoeing, rowing, and kayaking) along the study area's northern waterfront (outside of the capped area) may be another opportunity. Boat launch site amenities could include launch ramps and hand-launch areas with parking for vehicles and trailers. Ramp types include hard surface ramps, concrete ramps and flat-rock ramps. Parking areas may range in size to accommodate five cars and trailers to 50 cars and trailers. State and municipal entities are typically responsible for boat launch sites. Several factors, including slopes, site size and ground material, should be considered when developing these sites. While slopes for St. Lawrence River waterfront properties vary, there are areas with slopes less than 20 percent (see Appendix B), allowing for potential boat launch access.

Raquette River

The Raquette River waterfront property in the BOA Study Area is located in the Lower River section, which is currently used for canoeing and fishing. There are 5,212 linear feet of waterfront property where potential trails, a park or other recreation facilities could be developed.

Providing boat launch access points for non-motorized watercrafts along the study area's southern waterfront could bring more water sport users and visitors to the region. Design and development of these water access points takes several factors into consideration, including site size, ground material and site topography. Unlike the St Lawrence River waterfront properties, slopes along the Raquette River waterfront properties fluctuate between minimal slopes and steep slopes. Some waterfront properties west of Route 45 have slopes less than 20 percent, while most properties east of Route 45 have slopes greater than 20 percent are not conducive for boat launch sites or waterfront access points.

The April 2010 Raquette River Corridor Blueway Trail Plan highlights the 174-mile Raquette River corridor. Blueway trails are small boat and paddling routes that combine recreation and environmental awareness. The routes allow users to travel to designated stops along the corridor for rest, overnight stays and enjoyment of nearby attractions. The Plan's vision is to encourage cooperation and interaction among townships along the river to promote recreation opportunities and the natural beauty of the second-longest river in New York State for residents and visitors. Incorporating enhanced facilities along the part of the Raquette River corridor in the BOA Study Area would promote tourism and help revitalize the local economy while also contributing to the regional economy.

Verification of existing conditions will be required for the St. Lawrence River and the Raquette River when identifying concepts for access points and recreation opportunities.

3.14 REUSE SUITABILITY



Remedial and Reuse Considerations¹



- Remediation complete*

Δ

- Few limitations
- *10MG Lagoon/Final Grading planned for 2017
- B Potential Commercial/Industrial (49 acres total)

- Pending further evaluation of environmental conditions and property owner interet No romodiation planned

- Active Use (75 acres) С - Border Station
 - International Bridge approach
 - No remediation planned
- D Remedial Constraints (34 acres) - Capped area
 - Underwater sediment cap
 - Groundwater Treatment Facility

Other Site Features



Figure 3-18. Remedial and Reuse Considerations

¹ Source: GM Massena site remediation status, excavation areas and remedial constraints based on 2015 Five Year Review (EPA) and Conceptual Project Sequencing Map (Arcadis, 2016).

To identify strategic sites with redevelopment potential within the BOA Study Area, future land use suitability was determined based on analysis of existing conditions and factors described in sections 3.3 through 3.11. This section recaps key environmental remediation considerations for the GM Massena site, identifies reuse suitability zones across the study area and identifies strategic sites with redevelopment potential.

Environmental Status, Site Remediation and Future Land Use

The GM Massena site's cleanup approach and remedial action levels for soils and sediments are significant factors in determining suitable reuse options for more than half of the land in the BOA Study Area. Additional detail is provided below to help align the site's selected cleanup levels with NYDEC's corresponding approved uses. Figure 3-18 and Table 3-M explain the basis for the GM Massena site's commercial and industrial future land use determination. Table 3-M below describes the reuse suitability zones presented on the previous page in additional detail, including acreage, property ownership and a summary of the factors that influence potential reuse options across each of the four zones.

Reuse Zone	Size	Ownership	Suitability Considerations
A. Commercial/ Industrial	172 acres	RACER Trust	 Remedial actions complete based on soil cleanup objectives for PCBs in subsurface soils of 10 PPM, with 1-2 feet of clean cover; suitable for commercial/industrial use. A-1: Excavation areas backfilled with clean fill; excavation limitations below 15 feet required in certain excavated areas; 10 million gallon lagoon remediation; final stormwater grading; and site-wide soil cap of 1-2 feet of clean cover planned for 2017. A-2: Former Minerals Processing Area addressed under NYSDEC State Superfund (delisted in 2015); cleanup supports unrestricted use; remaining acreage areas outside of GM Massena site operable units. A-3: Raquette River stormwater outfall soil/sediment removal complete; remaining land outside of GM Massena site operable units.
B. Potential Commercial/ Industrial	48 acres	Alcoa	 No remedial actions planned; potentially suitable for commercial/industrial use pending evaluation of environmental conditions and property owner interest.
C. Active Use	75 acres	Federal Government Seaway Development Corporation	 No remedial actions planned; continued use as U.S. Border Station, Massena Land Port of Entry and International Bridge Approach.
D. Remedial Constraints	32 acres	RACER Trust	 Remedial actions complete with restricted use and access. D-1: Capped Subtitle C landfill within former Industrial Landfill and East Disposal Area; future use and access limitations (25 acres). D-2: Underwater capped areas; limitations prevent access to underwater cap (7 acres). Site-wide use restrictions prevent groundwater extraction and use and residential land uses.

Table 3-N. Reuse Suitability Table

Allowable Uses

Based on an evaluation of soil cleanup objectives selected and implemented for the GM Massena site, NYSDEC regulations would permit the following land uses and activities under the commercial and industrial land use categories:¹¹

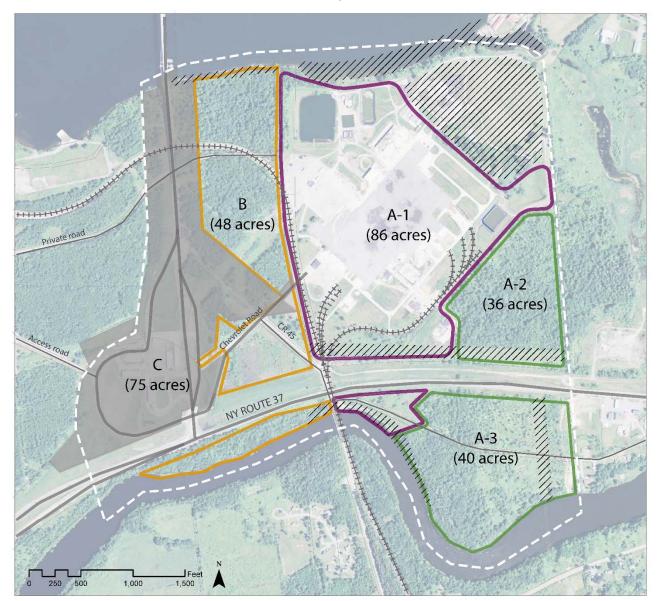
- Manufacturing
- Production
- Fabrication
- Assembly processes
- Ancillary services
- Retail, professional office, research and development
- Health care facilities, hospitals, clinics
- College academic facilities
- Outdoor recreation (artificial surface fields, court sports and paved outdoor facilities)*
- Indoor recreation facilities
- Paved trails

* Outdoor recreation on natural turf surfaces could be permitted at the GM Massena site in areas with a minimum of 2 feet of clean soil cover.

¹¹ NYSDEC, 2010. DER-10 Technical Guidance for Site Investigation and Remediation, Section 1.12, pp. 36-38.

Reuse Suitability

Areas suitable for reuse and redevelopment, open space and utility corridors, along with continued-use areas and restricted-use areas, are described below and shown in Figure 3-19.



Reuse Suitability Zones



- Commercial/Industrial/Tourism - Cleanup complete - Final stormwater management grading layer planned for 2017
- A Commercial/Industrial/Tourism - Areas outside former facility operations - No further cleanup planned
- B Open Space/Utility Corridor - Alcoa property - Potential commercial/industrial
 - Continued Use - U.S. Border Patrol/Customs
 - International Bridge Approach
 - Development Limitations
 - Site Remedy Operation & Maintenance
 - Transmission easements
 - Steep slopes

Figure 3-19. Reuse Suitability Zones

Other Features

BOA Study Area

Rail Line (CSX)/

Rail Spur (RACER)

Roads

Massena BOA Reuse Suitability Zones

Zone A. Industrial, Tourism and Commercial Use – Areas include about 86 acres of available land owned by the RACER Trust, where cleanup actions are complete. An additional 47 acres, also owned by the RACER Trust, include southern portions of the GM Massena site outside of areas historically used for industrial operations.

Zone B. Open Space/Utility Corridors – Areas include about 48 acres owned by Alcoa between the GM Massena site and the International Bridge. Access roads, a rail line and utility corridors (electric, gas) traverse the area. Due to Alcoa's efforts to reposition the Alcoa East Plant, these privately-owned areas are not currently available for new development. They will continue to provide a buffer between the border station and support utility and transportation corridors.

Zone C. Continued Use/Border Station – Area covers about 75 acres, including the federally-owned Border Station and the International Bridge Approach. These public service lands serve vital national security and transportation functions. No changes in current use are anticipated. Due to border security considerations, few development opportunities exist within the area surrounding the border station and bridge.

Zone D. Development limitations – Utility easements, steep slopes and environmental land use restrictions limit certain types of reuse at noncontiguous portions of the Study Area. Electric utility easements (NYPA and National Grid) traverse Alcoa and RACER Trust properties, generally along the perimeter of areas suitable for industrial and commercial use. Steep slopes along the Route 37 highway embankment and the shoreline of the Raquette River present access and development limitations. Environmental land use restrictions required as part of the cleanup at the GM Massena site are necessary to protect engineering controls (landfill and sediment caps) and limit development and direct access to about 25 acres in the northeast corner of the study area and about 7 acres along the St. Lawrence River shoreline (underwater sediments). In addition, groundwater use restrictions due to PCB and VOC contamination prevent groundwater extraction and use throughout the BOA Study Area.

Strategic Zones

The reuse suitability analysis highlights four strategic zones with potential to support new development in the BOA Study Area. Projects could range from commercial and tourism uses to light industrial facilities and utilities to open space. The four strategic zones are listed below.

Zone	Suitability	Size	Owner
A-1	Tourism/Commercial/Industrial	86 acres	RACER Trust
A-2	Tourism/Commercial/Industrial	36 acres	RACER Trust
A-3	Tourism/Commercial	40 acres	RACER Trust
В	Utility Corridor/Open Space	48 acres	Alcoa

Table 3-N.	Strategic Zones
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The following section presents a summary of a market and economic analysis for the study area to help inform revitalization scenarios for the strategic zones.

4 MARKET ANALYSIS SUMMARY

A market analysis was prepared as part of the BOA Revitalization Plan. It analyzes economic conditions, real estate market characteristics and industry trends; assesses the resources available to support business attraction, retention and expansion; and identifies potential reuse opportunities for the BOA Study Area. A summary of the market analysis is provided below; please refer to Appendix A for additional information.

4.1 METHODOLOGY

The methodology included the compilation and analysis of a broad range of information covering the four northernmost counties in New York State (St. Lawrence, Franklin, Jefferson and Clinton counties). The analysis also looked at southeastern Ontario and Montreal to understand relevant economic conditions and trends north of the border. The methodology used to develop the market analysis and identify economic opportunities is shown in this graphic, and includes other considerations that will ultimately inform the selection of economic opportunities and the creation of redevelopment scenarios for the BOA Study Area.

4.2 CURRENT SITUATION

As in many parts of upstate New York, the size of the manufacturing sector in St. Lawrence County has declined

significantly. In 2000, it provided more than 5,000 jobs. Today, it provides about 2,700 jobs. The largest industry sectors in St. Lawrence County by employment are health care and social assistance, retail trade, and leisure and hospitality, followed by manufacturing.

Manufacturing Industries

Manufacturing remains an important economic engine in northern New York, supporting about 8,700 jobs in such industries as food (especially dairy products), paper, plastic products, primary metals, fabricated metal products and transportation equipment. Clinton County, which has a 20-year track record of working with and recruiting businesses from the Montreal area, has developed a transportation cluster with companies such as Bombardier and Nova Bus. Economic development officials in Plattsburgh are working with Clarkson University and other partners to establish a transportation equipment center of excellence.

Educational Resources

Educational institutions are significant contributors to the local economy. Four of the County's five colleges and universities are among its top employers. With a combined enrollment of approximately 14,000 students, Clarkson University, St. Lawrence University, SUNY Canton, SUNY Potsdam and the Ranger School (affiliated with SUNY College of Environmental Science and Forestry in Syracuse) annually award more than 2,300 bachelor's degrees. This total includes degrees in business administration, computer sciences and engineering that are highly valued by employers. Clarkson University's engineering program is ranked as one of the top in the nation, with a strong focus on mechanical engineering and material science.

Methodology for Identifying Opportunities



Draft goals for the site

Innovation and Entrepreneurship

Research and development spending at Clarkson University ranges from \$12 million to \$18 million annually, and is primarily focused on advanced materials, biotechnology, entrepreneurship, the environment and energy, and global supply chain management. The university's Shipley Center for Innovation and Reh Center for Entrepreneurship are important resources for the commercialization of emerging technologies and business creation.

Canadian Economic Activity

Close proximity to Canada offers unique opportunities for northern New York and potentially for the Massena area. An assessment of economic conditions and economic development activities in Canada, particularly in southeastern Ontario, yielded several observations:

Ottawa has a big impact on the regional economy; government, professional services, and electronics and telecommunications technology are among its largest industries. In recent years, economic development officials have moved away from computer and telecom equipment manufacturing toward software, digital media and other service-related industries, capitalizing on a highly educated workforce (the City of Ottawa hosts two major universities).

Cornwall, Ontario, like Massena, has lost many of its large industrial employers, particularly in the paper industry. After struggling with high unemployment, Cornwall worked to reinvent itself by pursuing a more diverse mix of industries. Its biggest success has been its development as a distribution hub; Cornwall's 2,000-

acre business park offers direct access to Highway 401, which links Toronto and Montreal. It is occupied by distribution centers for several major companies, including Wal-Mart Canada, which plans to expand into the facility recently vacated by Target. Cornwall has a strong economic development team and is aggressively marketing the area.

Montreal is an industrial and financial center and has strong ties with Plattsburgh going back 20 years; Plattsburgh is often perceived as a "suburb of Montreal," and economic development leaders have successfully attracted Canadian companies to establish U.S. operations.

Import/Export Activity

Canada is the United States' top trading partner. Of five major ports (points) of entry into northern New York from Canada, trade activity is strongest through Champlain-Rouses Point, which links Montreal and Quebec with Interstate 87, and Alexandria Bay, which connects Ottawa to Interstate 81. Massena has the smallest amount of trade activity, and it has experienced a 26 percent reduction in the flow of goods over the border since 2007.

Border Crossings

More than 2.4 million vehicles cross the Seaway International Bridge between Massena and Cornwall every year. Although it has more traffic than the bridges in Ogdensburg and Alexandria Bay, the latter have higher volumes of commercial traffic. About 10 percent of the vehicles crossing at Ogdensburg and 17 percent of vehicles crossing at Alexandria Bay are trucks, compared to just 3 percent of the vehicles crossing at Massena. Inbound border crossings by truck at Massena have declined by two-thirds over the past 15 years.





Logistics and Warehousing

The current trend in logistics is for large companies to ship goods by truckload directly to their destinations, rather than transporting goods across the U.S.-Canada border to a warehouse and using a freight forwarder to handle distribution. This reduces transportation and handling costs and eliminates the need for warehousing at the border.

Real Estate

From a real estate perspective, Massena faces substantial competition from communities that can offer strategic transportation access and shovel-ready sites with municipal water and sewer. Both Clinton County (Plattsburgh) and Jefferson County have industrial sites available within two miles of Interstate 87 and Interstate 81, respectively. In St. Lawrence County, Ogdensburg has a competitive advantage over Massena because it has better access to and from Ottawa via a four-lane Canadian highway.

Competing on Power Costs

A key attribute of the BOA Study Area is its access to low-cost electric power through NYPA. However, economic development officials in Plattsburgh also tout the fact that they offer some of the lowest-cost power in North America. With respect to rates for industrial users, Massena has only a slight edge over Plattsburgh, which may not be enough to make a substantial difference when all cost factors are considered.

4.3 TOURISM ACTIVITY

According to the Economic Impact of Tourism in New York State report, St. Lawrence County tourism generates an estimated \$115 million per year in visitor spending. State lands and parks in the County support a wide range of outdoor recreation activities such as boating, fishing, hunting, camping, canoeing and hiking. Massena benefits from its proximity to the St. Lawrence River, Robert Moses State Park and Eisenhower Lock, and experiences a boost in tourism during summer months. SRMT is pursuing cultural tourism opportunities and the establishment of a welcome center on Route 37.

Recent Tourism Initiatives

Recognizing the need to celebrate Akwesasne culture and expand opportunities for tourism and economic development, the Regis Mohawk Tribe (SRMT) produced a cultural tourism strategy in 2009. The report recommended a number of initiatives, including the establishment of a Welcome Center, possibly on the former GM site between the Seaway International Bridge crossing and the western edge of the reservation; beautification and revitalization of Route 37; and the promotion of local artists, artisans, and "cultural entrepreneurs." In 2014, the SRMT produced a follow-up study, the *Akwesasne Cultural Tourism Strategic Plan*, to "help the Akwesasne community successfully consider, identify and make decisions about the priorities and possibilities it wants to achieve as the Cultural Tourism sector is developed." Implementation of the strategic plan is currently ongoing.

Regional Tourism Destination Proposal

A study commissioned by the Town of Massena in 2014 evaluated the feasibility of a year-round tourism destination comprised of an indoor waterpark, an associated resort hotel, and other commercial and recreational amenities. Produced by Venue Strategies, the report concluded that there was "sufficient market demand to support the successful operation of a 120,000 square foot indoor waterpark in Massena containing a resort hotel





with 475 available rooms." The consultant identified several potential locations for the waterpark project, including the St. Lawrence Centre mall and the RACER Trust property in the Massena BOA.

Sports-Based Tourism

Massena and Akwesasne are independently working to increase recognition of their communities' strong heritage in sports and to grow tourism through sports-based tourism. Lacrosse has emerged as a shared interest among both Akwesasne and Massena. Lacrosse's origin as a native American healing game is a valuable part of Mohawk culture as well as a tourism opportunity. A summary sports and lacrosse related market considerations are outlined in the text box below.

The game of lacrosse is part of Native American history and culture. Hence, a lacrosse complex would serve both as a sports and cultural attraction. The current state of the game is summarized below:

Lacrosse is played on fields at schools and colleges, on community athletic fields, at privately-owned sports complexes, and at indoor arenas. Clarkson University, SUNY Potsdam, SUNY Canton, and St. Lawrence University.

Like many sports arenas in Canada, the A'nowara'ko:wa Arena on Cornwall Island is a hockey rink for half of the year. Other arenas, like TD Place Arena in Ottawa, host diverse activities, presenting concerts and exhibitions as well as games.

Lacrosse and sports-based tourism opportunities will need to take into consideration the existing facilities for lacrosse within two hours of the BOA site as well as those in central New York, the Capital Region, and other locations. The popularity of the game in the northeastern U.S. and Ontario is both an asset and a challenge: on one hand, it means that the complex will have access to large numbers of potential participants and spectators; on the other hand, it will require a concerted effort to draw visitors when there are many competing lacrosse destinations. Defining a market niche based on the Native origins of lacrosse and Akwesasne traditions would be the most effective strategy.

LACROSSE: STATE OF THE GAME

- Lacrosse is the fastest growing sport at the youth, high school and collegiate levels. Total participation grew from 254,000 in 2001 to 802,000 in 2015, an increase of 215 percent, according to US Lacrosse.
- The strongest areas of participation in the U.S. are in New York, New England, Pennsylvania and Maryland.
- About 500 high schools in New York State have boys and girls lacrosse teams.
- There are multiple support organizations and professional leagues in the U.S. and Canada, and particularly in Ontario, with Native American participation.
- The Iroquois Nationals is a national lacrosse team that competes internationally.
- The popularity of lacrosse has led to the creation of specialized companies that promote/host lacrosse tournaments, festivals, camps and clinics.

Tourism Infrastructure

Tourism infrastructure in Massena is underdeveloped, with a limited selection of hotels and motels for leisure travelers and a retail sector facing considerable challenges. Venue Strategies recently evaluated the feasibility of developing a multi-sports arena and event center in Massena. Provided it is financially feasible, such a facility could draw large numbers of people and help stimulate the local economy.

4.4 MARKET OPPORTUNITIES FOR THE BOA STUDY AREA

An in-depth evaluation of each potential opportunity identified three primary options:

- 1. Manufacturing of agriculture- and forestry-related products;
- 2. Technology village or "Tech Village" for emerging companies (in particular, advanced materials and technological innovation spin-offs from local colleges and universities); and
- 3. A regional tourism destination.

The evaluation looked at the suitability of the study area for industrial development, tourism and related commercial sectors, along with access to amenities and potential community impacts. For example, tech village employees could take advantage of amenities on site (e.g., a waterfront trail and a café) as well as traveling to the St. Lawrence Centre Mall. The tourism destination could also be tied to the mall and local lodging options. Alternatively, the tourism destination could be built next to or inside the mall, leaving the BOA Study Area available for development of one of the other two options. Each option is discussed in greater detail below to provide an understanding of its potential strategic value to the community as well as related issues and challenges.

Manufacturing



OPTION #1: MANUFACTURING

The Opportunity	Food processing and/or wood products manufacturers.
Strategic Value	 Provides relatively high-paying manufacturing jobs. Uses locally-available inputs (bulk milk, timber, wood chips). Could take advantage of low-cost energy available through NYPA. Products can be sold in external markets, bringing cash into the community. Aligns with interests of municipal leaders and economic development officials.
Tax Revenue Potential	• High
Site Requirements	 Site at a high level of readiness. Reasonable access to interstate highway via feeder routes. Dairy processing requires a significant quantity of water and wastewater capacity.
Labor Requirements	 Food processing: machine operators, food batchmakers, supervisors and support staff; will require food handling training. Wood products: machine operators, team assemblers and laborers. Numbers of jobs vary: the average dairy processing operation in New York State employs 78 workers; the average wood products manufacturer employs 14 workers.
Issues and Challenges	 Without significant water and sewer capacity, food processing is unlikely to locate at the GM Massena site. Need to determine compatibility of food processing operations with EPA site use restrictions. Perceptions of the site and concerns about potential sources of air, water and surface contamination could impact the ability to attract a food processing operation.

Additional Manufacturing Sector Considerations

A preliminary identification of potential opportunities for the Massena BOA focused on specific types industries and operations that could take advantage of the strategic attributes of the site and its location, including proximity to Canada (Ottawa/Montreal), high capacity and low cost of electricity and natural gas, rail access, and the availability of local assets: timber, agricultural products, aluminum alloys, and qualified labor. The identification focused primarily on manufacturing due to its job creation potential. Each candidate was further evaluated based on its site/location requirements and other characteristics. The results are outlined below.

Potential Opportunity	Considerations	Selected?
FOOD PROCESSING: Dairy Products (Yogurt and Cheese)	 New York is one of the leading states for food manufacturing, especially dairy products. Growing yogurt and cheese consumption/demand. Production facilities must be close to a milk supply. St. Lawrence County ranked third in the state in the value of dairy products sold by farms. 	Yes
FOOD PROCESSING: Large Bakery	 Could take advantage of low-cost energy and access to natural gas (for baking ovens) as well as rail access for shipping flour. Needs to be within 100 miles of large U.S. consumer markets. 	No
WOOD PRODUCTS: Wood Pellets (Biofuel) Wood Furniture Wood Flooring/Moldings	 Access to hardwood and softwood timber in the region. Growing regional market for biofuels. Reshoring of wood products manufacturing. Available skilled labor. 	Yes
ALUMINUM PARTS: Automotive Aircraft/Aerospace Off-Road/All-Terrain Vehicles	 Availability of large quantities of aluminum produced by Alcoa. No related U.S. assembly plants within 250 miles of Massena. Alcoa already has alloy production facilities located near existing motor vehicle and aerospace assembly plants to serve the market. 	No
Architectural Metal Fabrication (using extruded aluminum products)	 Availability of large quantities of aluminum produced by Alcoa. Requires access to high-growth markets with ongoing residential and commercial construction activity. 	No
Plastics Molding	 Requires proximity to end users. Strong presence of plastics molders and training support already exists in Plattsburgh to serve the transportation industry and other Montreal-based companies. 	No
Logistics/Distribution	 Lack of interstate access. Limited and declining trade activity through Massena Port of Entry. 	No

Technology Village



OPTION #2: SMALL BUS	SINESS TECH VILLAGE
The Opportunity	 Small/start-up businesses that have outgrown START-UP NY space at Clarkson University.
Strategic Value	 Helps to retain and expand emerging businesses being established by students and faculty at Clarkson and other educational institutions. Could take advantage of waterfront site with the inclusion of open space, trails and other amenities.
Tax Revenue Potential	Moderate
Site Requirements	 Most companies at this stage prefer to lease building space – office, lab, and/or flex space. No significant utility requirements except broadband access. Access to colleges and universities for additional training in business, software development and other areas. Access to restaurants and gathering places, shopping and outdoor recreation opportunities (e.g., trails).
Labor Requirements	 Job skills will vary widely due to the diversity of businesses, from software specialists and engineers to general laborers. Initial employment will be relatively low but could expand significantly over time.
Issues and Challenges	 To compete with campus real estate, may need to acquire START-UP NY status. Trails and outdoor recreation opportunities are close by at Robert Moses State Park. However, most restaurants, shopping and other activities are across the border in Cornwall. To date, few if any jobs have been created by new businesses in Clarkson's business accelerator. There may be a fairly rapid "churn" of businesses as successful establishments expand and are purchased by outside investors.

Regional Tourism Destination



OPTION #3: TOURISM DESTINATION VENUE				
The Opportunity	 A year-round sports, recreational or entertainment destination (indoor water park, ice skating rink, sports arena or training facility.) 			
Strategic Value	 Expands visitation to Massena and St. Lawrence County. Could incorporate waterfront access and open space. Aligns with community's vision for the site. Complements proposed Akwesasne Welcome Center. Could generate additional traffic for the St. Lawrence Centre Mall as well as local restaurants, hotels and motels and shops. 			
Tax Revenue Potential	Moderate			
Site Requirements	 50+ acres of flat land. Highly visible site in close proximity to major routes. Access to restaurants, shopping and lodging. Primarily need water and low-cost power; however, the amount of power used would not qualify for "industrial" discounts. 			
Labor Requirements	• Jobs range from office staff to operations personnel to janitorial positions			
Issues and Challenges	 Jobs tend to be low-wage and would not replace the types of jobs previously available at the GM Massena site. Tourism infrastructure in the Massena area is relatively underdeveloped – there may be a need for additional lodging if the destination is successful. A water park would require significant water resources. 			

5 RECOMMENDATIONS OF THE BOA

This section recaps key strategic sites, economic opportunity areas, outlines potential redevelopment concepts and scenarios, and identifies a framework for evaluating redevelopment scenarios for the BOA Study Area.

5.1 REUSE ZONES

The reuse suitability analysis highlights four strategic zones. Projects could range from commercial and tourism uses to light industrial facilities, utilities and open space.

- Zone A-1: RACER Trust North (86 acres)
- Zone A-2: RACER Trust Route 37 Frontage (40 acres)
- Zone A-3: RACER Trust South (40 acres)
- Zone B: Alcoa (48 acres)

5.2 ECONOMIC OPPORTUNITIES

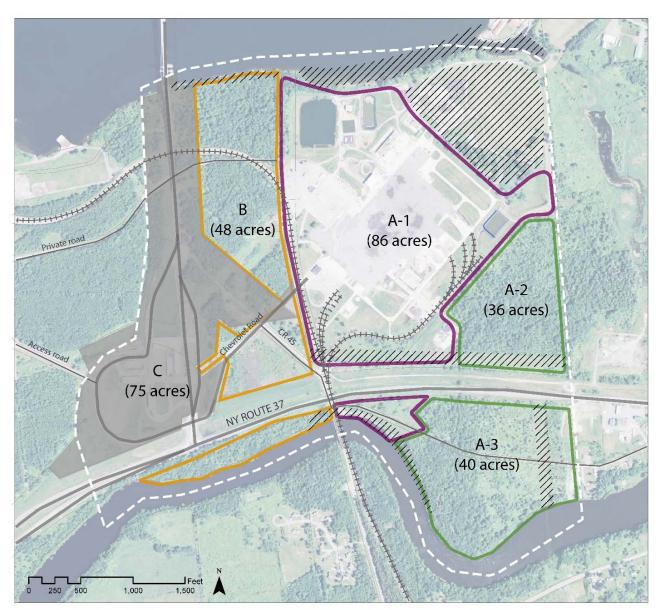
The market analysis summarized in Section 4 identified the following strategic economic opportunities for the BOA Study Area:

- Tourism promoting the Akwesasne Cultural Tourism Strategy, a lacrosse and multi-sport complex, and a regional tourism destination facility.
- Light Manufacturing focusing on value-added forest products wood processing, light manufacturing, advanced materials, and food and dairy processing.
- Technological Innovation providing space for expanding businesses emerging from research and innovation centers at nearby universities as well as space for Canadian companies seeking a U.S. presence.

5.3 SITE BUILDOUT ANALYSIS AND REUSE CONCEPTS OVERVIEW

Based on the market analysis, community vision and stakeholder goals, market opportunities, and development proposals and opportunities identified to date, the site buildout analysis evaluated a range of potential redevelopment options for the BOA Study Area. This section presents all the scenarios evaluated, along with economic benefits, market considerations and infrastructure investments needed to support the redevelopment scenarios listed below.

- Business Park
- Technology Park
- Tourism Center
- Regional Tourism Destination
- Sports Complex
- Mixed-Use Configurations



Reuse Suitability Zones



- Commercial/Industrial/Tourism - Cleanup complete
- Final stormwater management grading layer planned for 2017



- Commercial/Industrial/Tourism - Areas outside former facility operations
 - No further cleanup planned

BO

Open Space/Utility Corridor

- Alcoa property - Potential commercial/industrial
- C Continued Use - U.S. Border Patrol/Customs - International Bridge Approach

Development Limitations

- Site Remedy Operation & Maintenance

- Transmission easements
- Steep slopes

Other Features

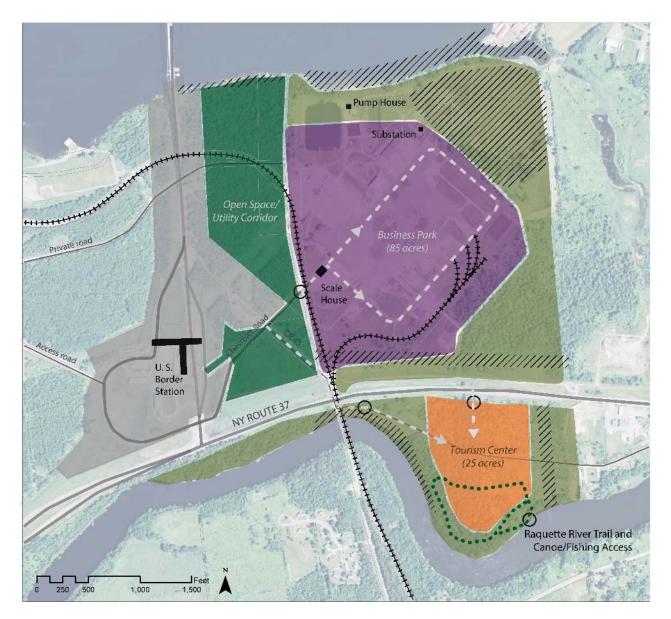
– – BOA Study Area

— Roads

Rail Line (CSX)/ Rail Spur (RACER)

Figure 5-1. Reuse Zones

5.4 **BUSINESS PARK**



Key



Open Space with Public Access - Habitat Restoration

- Trails

- Light Structures and Amenities

Open Space Buffer - Forested Areas

- Limited Access

- **Border Station**
- U.S. Border Patrol/Customs
- International Bridge Approach

Restricted Access and Use - Site Remedy Operation & Maintenance

Figure 5-2. Business Park/Technology Park Concept

Opportunity

St. Lawrence County currently has few industrial parks with the flexibility to accommodate light industrial, manufacturing or transportation sector uses larger than 50,000 - 60,000 square-feet. The Massena BOA offers available acreage, rail power and transportation access that make the site a desirable location for a rail-accessible business park.

Potential Business Park concept focuses on 86-acres in Zone A-1 and makes efficient use of the existing internal road and rail spurs for strategic opportunities around forest products, biomass and value-added wood processing; light manufacturing; dairy or food processing; and logistics and warehousing sectors.

Market Considerations

Communities in the region with interstate access, municipal water and sewer, and shovel ready sites will compete for similar industries in this sector. While the Cornwall-Massena border crossing offers access to Canadian markets, the Massena Port of Entry has seen a decline in import-export activity in recent years, as trade volumes at the Champlain, NY and Highgate, VT border crossings have increased. Dairy and food import/export activity shows the strongest potential for growth.

Infrastructure Considerations

High capacity water supply and wastewater treatment would be needed for dairy and food processing. Given the need for an on-site wastewater treatment facility, significant investments would be needed to accommodate this sector that may not be necessary for other potential uses of the BOA.



Northern Stacks Business Park – Fridley, Minnesota

BUSINESS PARK

Strategic Value

- Provides moderate-wage manufacturing jobs.
- Utilizes locally-available inputs (bulk milk, timber, wood chips, etc.).
- Could take advantage of low-cost energy available through NYPA.
- Products can be sold in external markets, bringing revenues into the community.
- Aligns with desires interests of municipal leaders and economic development officials.

Assumptions

- Acreage (86 acres)86 acres accommodates rail access, truck access and storage, parking, space for moderate expansion, surface water management.
- Occupied by one or two companies.

Buildings

Two 150,000- square-foot buildings = 300,000 total square feet of space.

Job Creation Potential

300 mid-range jobs (based on 1,000 square feet per employee).

Tax Revenue Potential

• Moderate; could also generate sales taxes.

Infrastructure Needs

- Biomass and dairy processing: High.
- Warehousing and logistics: Low.

5.5 TECHNOLOGY PARK

The Opportunity

Emerging start-up businesses are growing out of St. Lawrence County's universities (St. Lawrence University, Clarkson University, SUNY Canton and SUNY Potsdam). Spurred by a research and innovation cluster at Clarkson's Reh Center (a Start-Up New York, technology business incubator), small businesses in materials science, applied research, technology and manufacturing are defining a new regional economic sector with potential for growth. The Massena BOA offers available land, proximity to Canadian markets and potential for waterfront amenities that could make the area an attractive location for a technology park.

The technology park concept envisions a range of flexible office and light industrial space (office, lab, flex space) for new businesses that have outgrown Start-Up New York space at Clarkson. These opportunities would fit well in the same location as the business park located in Zone A-1 (see Figure 5-1. Reuse Zones) and could be pursued in parallel with business park development opportunities. Just a few miles from Cornwall, 75 miles from Ottawa and 85 miles from Montreal, the Massena BOA offers access to Canadian markets and population centers. The technology park concept also provides opportunities for Canadian firms seeking a U.S. presence. Alternately, the technology park concept could be co-located with tourism amenities in a mixed-use concept (see page 88).

Market Considerations

Most businesses in the start-up phase prefer to lease space, which would require a local entity that owns and manages the technology park. St. Lawrence County's innovation cluster is centered around Potsdam and Canton located 40 miles west of the study area. The distance of the study area from the current locus of innovation activity is a potential barrier. Attracting start up and technology businesses requires access to quality of life amenities such as trails, open space, restaurants and entertainment. There are limited local amenities near the study area to support emerging businesses. Robert Moses State Park offers excellent open space access, and restaurants, gathering places and entertainment venues are well established in Downtown Cornwall, ON.

Infrastructure Considerations

Water and sewer demands for the technology park concept are likely to be lower than for manufacturing. The existing broadband, electric and gas connections offer strategic advantages.

TECHNOLOGY PARK

Strategic Value

- Helps to retain and expand the emerging businesses growing out of the County's universities, research and innovation centers.
- Provides range of light industrial space options for office, lab and flex space.
- Leverages access to Canadian markets and population centers.
- Creates attractive waterfront campus and offers open space amenities.
- Compatible with additional tourism opportunities.

Assumptions

- Acreage (60-75 acres) would serves multiple small companies that lease space.
- Space used for road access, parking, flex space buildings, open space and trails.

Buildings

 Four two2-story buildings each with 100,000 square feetSF each = 400,000 total square feet of space.SF

Job Creation PPotential

• 700+ mid-range jobs (based on average of 525 square feet.f. per employee).

Tax Revenue Potential

• Moderate to high; could also generate sales taxes.

Infrastructure Needs

• Moderate.

5.6 TOURISM CENTER



Figure 5-3. Tourism Center Concept

The Opportunity

Located on the south side of Route 37, along the Raquette River, offers an ideal location for a tourism center with the potential to capture cross border traffic from Cornwall, ON.

The SRMT's Cultural Tourism Development Strategic Plan identifies the need for a strategically located cultural tourism attraction on the U.S. side of the border. The Cultural Tourism Center concept envisions a multi-function facility that celebrates Akwesasne culture and connects visitors with local Akwesasne businesses. Zone A-3, located on the south side of Route 37, along the Raquette River, offers an ideal location for a Cultural Tourism Center with the potential to capture cross-border traffic from Cornwall travelling toward Akwesasne.

The Town of Massena and St. Lawrence County have been working to leverage the region's scenic and natural assets (St. Lawrence River and Adirondack Park) through tourism initiatives such as FishCap. The Town of Massena and SRMT Office of Economic Development are interested in exploring options to co-locate a North Country Welcome Center with the Akwesasne Cultural Tourism Center.

CULTURAL CENTER

Strategic Value

- Builds awareness of the area and expands tourist volume.
- Expands and develops new tourism infrastructure.
- Directly aligns with SRMT's Cultural Tourism Development Strategic Plan.

Assumptions

- A 25-acre development footprint with surrounding open space.
- Functions to include a welcome center, museum, archive facility, art gallery, art market-space, performance/event space, artist business incubator space, café (Mohawk Cuisine), and North Country tourism pavilion or separate facility.
- Shared parking, trails and Raquette River access.

Buildings

• Facility with 10,000 to 15,000 square feet of space

Job Creation Potential

• 20-25 employees, mostly parttime (based on 500 square feet per employee)

Tax Revenue Potential

• Low, could also generate sales taxes.

Infrastructure Needs

• Low to moderate.

SRMT's Office of Economic Development is conducting a feasibility study to create a business plan, select a site and design the facility. Zone A-3 is one of four potential locations under consideration and offers the most available land and a desirable location. The components of the cultural center could include a welcome center,

museum and archive facility, art gallery, art market-space, performance/event space, artist business incubator space, and a café (Mohawk Cuisine). The Town of Massena and St. Lawrence County are developing potential partnerships and programming ideas for a North Country Welcome Center.



Potential design concepts for a shared tourism center drawing on the traditional long house structure

Market Considerations

A cultural tourism center could help build awareness of the area, expand tourism revenues and support existing local businesses. There may be an opportunity to co-locate a Massena and St. Lawrence County Welcome Center at this location, depending on land availability and stakeholder interests.

Infrastructure Considerations

Relatively low water and wastewater demands are anticipated for a Cultural Tourism Center. There may be an opportunity to extend the SRMT water supply line immediately east of Zone A-3, with on-site wastewater treatment or a septic system. In the near term, access to Zone A-3 could be provided via County Route 45 and Indian Road (unimproved gravel road).





Raquette River access and visibility from Route 37 are key assets for a toursim center at this location.

5.7 REGIONAL TOURISM DESTINATION

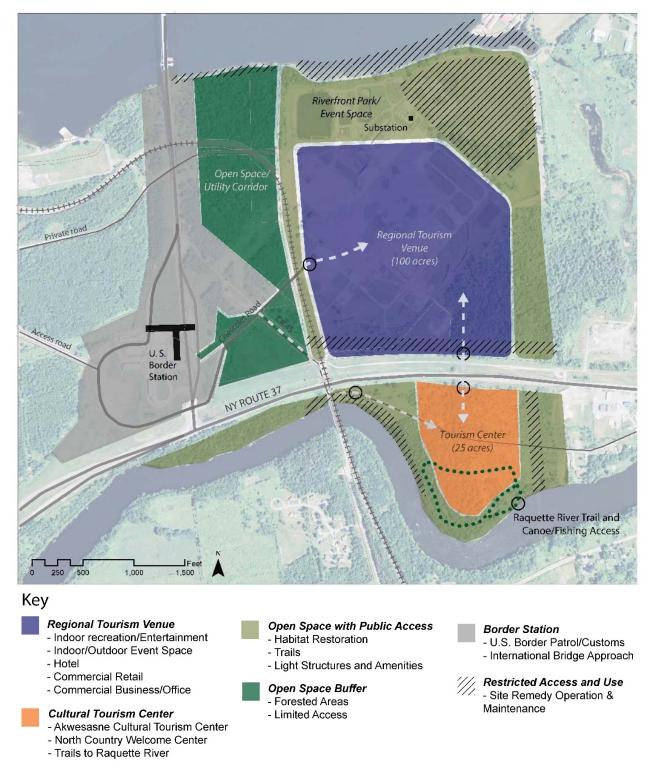


Figure 5-4. Regional Tourism Destination / Sports Complex Concept

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The Opportunity

The Town of Massena and Village of Massena are working to diversify the local economy through investments in tourism that offer opportunities complimentary to the St. Regis Mohawk Tribe's Cultural Tourism Development Initiative. The Town of Massena funded a tourism destination marketing study. The recommendations, provided by Venue Strategies in 2015, identified an opportunity to locate a Regional Tourism Destination in the Town of Massena. The concept focused on an indoor water park as an anchor destination, with hotel accommodations, retail and additional amenities.

Zones and A-1 and A-2, when combined, could support a 100+ acre tourism development, with frontage on the St. Lawrence River, high visibility, and proximity to the International Bridge and the Akwesasne Mohawk Casino. The Regional Tourism Destination Concept is modified based on the Venue Strategies report and assumptions detailed in the sidebar.

Market Considerations

The market analysis for the BOA Study Area identified a lack of tourism infrastructure and declining commercial retail markets as significant obstacles. The Venue Strategies report emphasizes attracting visitor volume along with new commercial retail amenities. There are concerns that commercial investments in the BOA Study Area could detract from efforts to revitalize downtown Massena and St. Lawrence Centre Mall.

Infrastructure Needs

Utility demands for a year-round water park and hotel would be significant. High water supply and wastewater treatment capacity, along with natural gas for year-round heating and cooling, are anticipated. While a potential waterline connection to the public water supply line planned for the neighboring U.S. Border Station offers an opportunity, additional capacity would likely be needed for a water park, along with a new wastewater treatment facility on site.

REGIONAL TOURISM DESITNATION

Strategic Value

• Expands the area's tourism infrastructure.

Assumptions

- 100+ acres across Zones A-1 and A-2 to accommodate, tourism destination facility buildings, large parking, wastewater treatment, plus and outdoor space for events.
- Maintain Cultural Tourism Center in Zone A-3.
- Existing rail spurs removed.
- Existing access via Chevrolet Road.

Buildings

- One two-story hotel with 50,000 square feet SF on each floor = 100,000 total square feet of space. SF
- One 120,000-square-foot SF indoor recreation/entertainment venue.
- One 100,000-square-foot SF commercial/retail center.

Job Creation Potential

- Hotel: 50 jobs (0.5 employees per room).
- Recreation venue: 40 jobs (3,000 square feet per employee).
- Commercial retail: 165 jobs (600 square feet per employee).
- Estimated total: 250 280 jobs.

Tax Revenue Potential

Moderate to high; could also

5.8 SPORTS COMPLEX

Sports and youth recreation are key priorities for community development in the North Country region, with efforts underway in Massena and Akwesasne to develop, expand and brand communities around their sports heritage.

The sport of lacrosse, which originated as a Native American medicine game and healing ritual for the tribes of the Iroquois Confederacy (Mohawk, Oneida, Onondaga, Cayuga, Seneca and Tuscarora), is one of the fastest-growing sports in North America. SRMT has a strong brand in modern lacrosse, with nationallyrecognized youth, high school and semi-professional teams, and frequently hosts traditional lacrosse festivals. At Akwesasne, there is increasing demand for a year-round lacrosse complex, and there is regional interest in St. Lawrence and Franklin counties to expand sports-oriented tourism.

The Opportunity

Figures 5-4, 5-5 and 5-6 identify range of potential opportunities for a sports complex in the northern part of the study area. The sports complex concept envisions indoor and outdoor multi-sport fields (lacrosse, soccer, field hockey) for practice, modern lacrosse competitions and traditional lacrosse festivals, along with amenities to support tournaments and training camps. Mixed use concepts, as shown in section 5.9, a sports complex could be co-located with a smaller footprint technology park that serves emerging businesses, as well as supporting facilities for the sports complex.

Lacrosse has potential to capture the phenomenal growth of the sport in the region, to showcase traditional lacrosse and its significance to SRMT, and provides an opportunity to bring a sport known as a "healing game" to a site that has been environmentally and socially fragmenting and damaging. Lacrosse also has the potential for international reach, including Canadian teams and associations in box lacrosse, field lacrosse and traditional lacrosse. The Sports Complex concept provides a venue that meets local needs and complements emerging tourism strategies in Massena and Akwesasne.

Market Considerations

The viability of a Sports Complex at the BOA Study Area relies on buy-in and sustained interest from SRMT, a regional coalition of amateur sports organizations across the North Country, and Canadian and U.S. lacrosse leagues. There are well-established tournament destinations for lacrosse in Lake Placid, Syracuse and Ontario/Quebec. Marketing the lacrosse complex will require differentiating the unique experience of the Mohawk brand.

Infrastructure Considerations

Infrastructure needs for a Sports Complex include water, sewer, electric and gas (for indoor heating/cooling).

SPORTS COMPLEX

Strategic Value

- Builds awareness of the area and complements Tourism Center.
- Capitalizes on overall demand/growth of lacrosse (Region, tribal territories, U.S. and Canada).
- Location is accessible to Ontario and New York State – both strong in lacrosse.
- Builds on strength of Mohawk brand to lacrosse players in the region.
- Meets local need for year-round lacrosse/sports complex with multiple fields.

Assumptions

- Acreage (20-40 acres) to support an indoor facility and three outdoor multi-sport fields.
- Parking.
- Existing rail partially spurs removed.
- Cultural Tourism Center in Zone A-3.

Buildings

Indoor arena with 40,000 to 60,000 square feet of space.

Job Creation Potential

15-20 (low-to-moderate range).

Tax Revenue Potential

• Low: could also generate sales

Water and sewer demand are likely to be relatively low. An initial phase of the facility's development could proceed with a waterline extension and portable restroom facilities, with potential for expansion over time.

5.9 MIXED-USE CONCEPTS

The Study Area provides significant acreage that can accommodate multiple land uses and user needs. The business park and technology park concepts could be scaled, implemented in phases and combined together using a range of configurations. Potential configurations are outlined below and shown in

Figure 5-5 and Figure 5-6.

Business Park + Technology Tourism

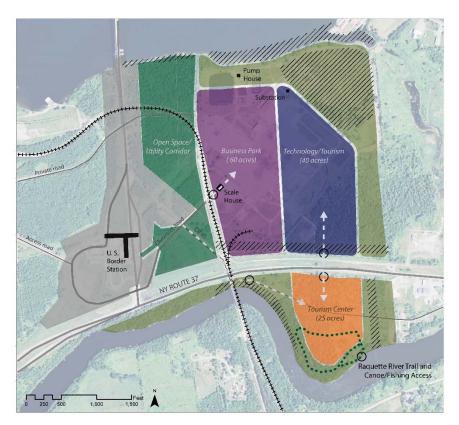


Figure 5-5. Mixed-Use Business Park + Tech/Tourism Concept

A mixed-use option could combine a smaller footprint business park (60 acres) with a technology park our tourism facility (40 acres).

OpportUnity: Leverages rail access with a smaller footprint and maintains potential for technology or tourism uses.

Strategic Value: This mixed use option is compatible with a range of economic sectors and multiple stakeholder interests.

Key

Technology/Tourism

- Research and Development
- Professional office
- Indoor sports complex, tourism venue
- Environmental Center of Excellence
- Business Park
- Light Manufacturing
- Logistics - Environm
- Cultural Tourism Center
- Akwesasne Cultural Tourism Center - North Country Welcome Center
- Trails to Raquette River

Section 5. Recommendations of the Brownfield Opportunity Area

Business Park and Riverfront Flex Space

An alternate mixed-use configuration of business park and tourism or technology park opportunities could maintain the larger business park while leveraging riverfront views and additional acreage for sectors or opportunities that would benefit from river views or visibility from the International Bridge.

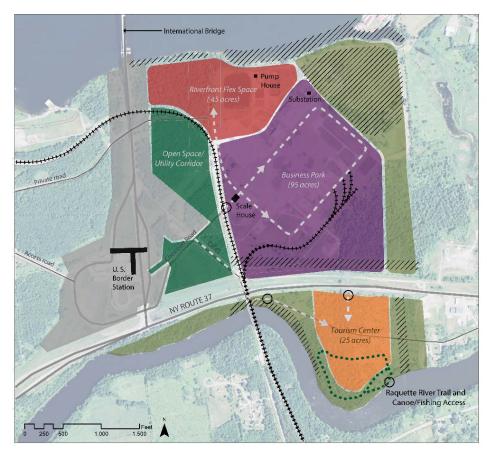


Figure 5-6. Mixed-Use Business Park + Riverfront Flex Space

OpportUnity: Maintains a 95-acre Businesss Park with three rail spurs to accommodate larger footprint uses, along with a flexible technology or tourism and event space along the St. Lawrence River waterfront.

Strategic Value: This

option leverages exiting infrastructure assets and creates an attractive waterfront campus for tourism or technology uses. This option would likely be compatible with a range of economic sectors and stakeholder interests.



Flex Space - Tourism - Office Space - Research and Development Business Park - Forest/Wood Products

Light Industrial
 Logistics

Cultural Tourism Center

- Akwesasne Cultural Tourism Center
- North Country Welcome Center
 Trails to Raquette River

5.10 SCENARIO EVALUATION

The reuse concepts presented in sections 5.2-5.8 identify commercial, industrial and tourism scenarios for strategic sites in the BOA Study Area. Several factors likely to influence the feasibility and viability of these opportunities include potential for job creation and revenue generation, infrastructure requirements, and compatibility with stakeholder goals and interests. This section provides additional detail on and analysis of these factors.

Jobs and Revenue

Table 5-A recaps the job creation potential and tax revenue generation potential of each of the reuse concepts.

Concept	Jobs Potential	Tax Revenue Potential
Business Park	250-300 (mid-range)	moderate to high
Tech Park	760-850 (mid-high range)	moderate to high; potential sales tax
Regional Tourism Destination	255-280 (Iow-mid range; many part time)	moderate; potential sales tax
Cultural Tourism Center	15-25 (low-moderate range; many part time)	low to moderate; potential tax sales
Sports Complex	15-20 (mid-range; many part time)	low to moderate; potential indirect tax sales.

Table 5-A. Reuse Concepts – Jobs and Tax Revenue Comparison

Jobs and Wage Rates

For each of the reuse concepts, job creation potential was estimated based on industry standards for the estimated number of employees per square foot, taking into account the projected facility sizes of the businesses and industries evaluated. In addition to the number of jobs, the relative wage rates are classified as low, mid and high. These wage classifications generally fall into the following salary ranges:

- Low: \$35,000 or lower
- Moderate: \$36,000 to \$55,000
- High: \$60,000 and higher

It is important to note that the salary ranges can vary significantly by industry. For example, in 2013, annual wages in wood products manufacturing in St. Lawrence County averaged about \$38,000, while wages in primary metals manufacturing averaged nearly \$70,000. Generally, manufacturing jobs pay more than retail and tourism jobs.

JOB CREATION AND WAGE CONSIDERATIONS

- The Tech Park concept offers the potential to generate the highest number of jobs in the moderate- to-high wage range.
- The Rail Park and Regional Tourism Destination projections concepts would generate a similar number of jobs at the moderate wage range.
- The Cultural Tourism Center and Lacrosse/Sports Complex concepts are likely to generate fewer jobs with many part- time positions.

Tax Revenue Generation

The comparative benefits of tax revenue generation were evaluated for each of the reuse concepts. Three types of revenues factor into this qualitative evaluation: property taxes, income generated from leases and sales tax. Property taxes in New York State are levied based on real estate assessment value. Tax assessors for the Town of Massena and St. Lawrence County classify real estate based on "primary use" and levy an assessment value that takes into account the value of the property and primary use. Sales tax are levied based on goods and services. Sales tax are levied on goods and services sold. Finally, revenue generated from leasing space or facilities are a third potential revenue factor. Given the complexity and range of potential economic opportunities evaluated, a qualitative approach assessing the general revenue potential as high, moderate or low was applied.

Infrastructure Requirements

The infrastructure requirements for the reuse concepts were evaluated against existing utility components. Table 5-B below characterizes utility readiness for roads, rail, electric, gas, water, waste water and broadband relative to the requirements each of the five reuse concepts.

Utility Components	Cultural Tourism Center	Rail Park	Tech Park	Regional Tourism Destination	Sports Park
Road	2	1	1	2	1
Rail	N/A	1	1	N/A	N/A
Electric	1	1	1	1	1
Gas	2	1	1	1	1
Water	2	3	3	3	3
Wastewater	2	3	3	3	2
Broadband	1	1	1	1	1
Infrastructure Readiness Key: 1. Readily available 2. Modest investment 3. Substantial investment					

Table 5-B. Reuse Concepts and Utility Readiness

Key Infrastructure Considerations

- All of the reuse concepts require modest-to-significant investments to provide water and wastewater services due to the lack of readily available water and sewer utilities. A water line extension and some form of on-site wastewater treatment are needed for all of the concepts.
- Water supply demands for the Rail Park, Tech Park, Regional Tourism Destination and Sports Park concepts (Zones A-1 and A-2) can be met with a connection to the planned water supply line extension northwest of the Border Station. Wastewater demands for these concepts require an on-site wastewater treatment plant.
- The Regional Tourism Destination concept's water supply requirements are likely to be most significant based on demands for a year-round, indoor water park.
- The Rail Park concept includes a range of potential uses that may require varying water and wastewater • service demands.

- The Sports Park Concept is likely to have low water and wastewater demands, depending on potential locations and phasing of amenities to support the recreation facility.
- The Cultural Tourism Center concept is likely to have low water and wastewater demands. Located near the SRMT water supply line immediately east of Zone A-3, there may be potential for an on-site septic system to handle wastewater treatment needs.
- Road access requirements differ for some concepts. Existing access to Zone A-1 and internal road networks are well-suited to the Rail Park concept, while road improvements would be needed to support the Cultural Tourism Center in Zone A-3, where vehicular access is limited to a seasonally-maintained gravel road with no direct access to Route 37.
- The Tech Park concept may require alternate road configurations or use areas of Zone A-1 and A-2 not currently well served by existing roads.

Stakeholder Goals and Interests

The goals and interests of project stakeholders are a significant factor in determining the viability of the reuse concepts. Each of the reuse concepts is grounded in the community vision statement and supplemental goals outlined in Section 1 and included below.

Vison Statement

The vision of the Massena BOA is a productive use that provides employment and tax revenue that contribute to the economic health of the region, while also improving environmental and public health conditions for people living, working and recreating nearby.

Goals

- Leverage site assets.
- Create jobs and contribute to the local tax base.
- Balance environment and economy.
- Maintain flexibility to accommodate multiple uses or a single business.
- Pursue a phased approach to allow for redevelopment over time.
- Establish partnerships to support a unified vision.

In addition to the vision statement, the compatibility of potential reuse concepts with the interests of key municipal, tribal and local economic development agencies is also an important factor. Key issues and interests that are likely to influence redevelopment potential are discussed below.

Industrial Use

Future industrial uses for the BOA Study Area will need to be compatible with the community vision needs to balance several stakeholder interests.

- The Massena BOA Steering Committee and community members acknowledge that previous industrial operations at the GM Massena site, as well as Alcoa operations along the Grasse River, generated benefits for region as well as detrimental social and environmental impacts. SRMT has been disproportionately impacted by the environmental contamination associated with prior industrial uses. Parties generally agree that future manufacturing or light industrial uses in the BOA Study Area should be non-polluting and minimize potential air, water and land impacts.
- The Massena BOA Steering Committee recognizes that refining, processing and heavy industry is not compatible with the community vision statement or stakeholder interests. With the Alcoa East Plant's closure, the reuse of the adjacent industrial land with similar assets presents additional opportunities. Stakeholders

recognize an opportunity to direct industrial uses to the Alcoa East plant, with supporting businesses or supply chain businesses in the study area.

- Light manufacturing, research and development, office space, and warehousing are generally viewed as desirable industrial uses for the BOA Study Area.
- Participants recognize that the market analysis identified specific challenges in attracting light industrial uses to the BOA Study Area due to competition from shovel-ready sites with interstate access in other communities.

GM Massena Site Selected Remedy and Cleanup Levels

Tribal and non-tribal stakeholders have differing views and levels of acceptance regarding the selected remedy and cleanup at the GM Massena site.

- The remediation of the GM Massena site has taken into account required cleanup levels established by NYSDEC and SRMT's Environment Division. There are significant differences in the soil cleanup objectives for PCBs (the primary contaminant of concern) between state and tribal standards.
- Soil remediated on RACER Trust properties required cleanup consistent with NYSDEC standards and the selected remedy for the GM Massena site's operable unit 1 was for PCB subsurface soil concentrations to be 10 ppm or less with 1 feet of clean cover. The SRMT tribal cleanup standard for PCBs of 0.1 ppm was used for tribal soils and sediments.
- EPA has overseen the cleanup of the GM Massena site according to cleanup decisions agreed to by EPA, NYSDEC and SRMT. EPA has determined that the selected remedy is protective of human health and the environment, and SRMT's Environment Division has concurred with this protectiveness determination.
- However, SRMT Tribal Council members and many in the Akwesasne community are not satisfied with the cleanup decision to consolidate contaminated soils and waste in the on-site Subtitle C landfill in Zone D-1. There is significant concern in the Akwesasne community that Zone A-1 (the former GM plant manufacturing area) and Zone A-2 (an area next to the former Minerals Processing Area State Superfund Site) are not safe for continued use or reuse. Further, many in the Akwesasne community continue to advocate for the complete removal of the landfill.
- The stigma of contamination and perception that areas are not safe or were not adequately remediated may preclude SRMT's involvement in or support for a range of potential redevelopment efforts. For example, the Sports Complex would be ideally suited for Zone A-1 or A-2, but the Akwesasne community is understandably unwilling to invest in a facility or support Akwesasne youth sports until further confirmation that the conditions are safe.
- SRMT stakeholders have acknowledged that Zone A-3 offers strategic advantages and there are fewer concerns about contamination stigma.
- EPA cannot legally require the RACER Trust to remediate property under NYSDEC jurisdiction to the tribal cleanup standard. SRMT and the RACER Trust will likely need to coordinate closely to determine whether further cleanup is necessary to support desired uses, and identify responsibilities for funding the additional cleanup required.
- SRMT stakeholders are interested in establishing an environmental monitoring facility in the BOA Study Area that is at least partly staffed by SRMT's Environment Division that offers a way to study the effectiveness of the site's remedy over time to ensure that the land and resources are safe. In addition, SRMT would like to use this opportunity to establish an environmental center of excellence as a training facility for other tribal entities that can come to the site and learn about environmental contamination, public health impacts, and methods of remediation and restoration.

Shared Interests

The successful revitalization of the BOA Study Area relies on a coalition of partners willing to work together to

pursue shared interests. With over 170 acres of available land in Zones A-1, A-2 and A-3, there are opportunities to meet multiple needs.

- The RACER Trust, the Town of Massena, the St. Lawrence County IDA and SRMT representatives share a common set of goals, as reflected in the community vision statement. The reuse concepts identify a range of opportunities with the potential to meet multiple needs and interests.
- The Rail Park and Tech Park concepts for Zone A-1 are well-aligned with the Town and IDA's goals of leveraging site assets to generate jobs and tax revenue. SRMT's interest in establishing an environmental center of excellence/monitoring facility could fit well with the Rail Park and Tech Park concept.
- A Cultural Tourism Center in Zone A-3 could move forward independently from the redevelopment approach in Zone A-1. SRMT's Cultural Tourism Strategy could potentially be expanded with co-location of a Massena and St. Lawrence County Welcome Center.
- The Regional Tourism Destination concept would be highly dependent on outside investors and developers but has the potential to increase and diversify economic benefits through job creation and revenue generation. Coordination between tourism destination development interests, the Town of Massena and the Akwesasne Cultural Tourism Working Group will be needed to determine compatibility between the programming and site requirements for the two tourism facilities.

The Sports Park concept requires significant buy-in and participation from SRMT. A related initiative underway in Akwesasne has identified an alternate location for an indoor, year-round lacrosse facility at the former Bingo Palace on Frogtown Road. Due to the stigma of previous contamination impacts and disagreements about cleanup levels, the location of a Sports Park in the BOA Study Area may not be viable. A smaller, modified version may be possible in Zone A-3. Alternate locations in Akwesasne may offer better potential for a premier lacrosse training facility.

Reuse Concept Evaluation Summary

Table 5-C below provides a comparative analysis of the five reuse concepts, taking into account potential jobs and revenue generation, infrastructure needs, market considerations and stakeholder interests. A summary of key conclusions from the scenario evaluation is included below.

Conclusions

- The evaluation shows that the Business Park, Tech Park and Tourism Center concepts each have the potential to balance economic benefits with infrastructure investments, market realities and stakeholder interests. These concepts could be pursued in parallel or in phases.
- The Regional Tourism Destination and Sports Park concepts rely heavily on participation and investment from developers or partners whose interests and buy-in are currently uncertain. Further coordination among regional tourism destination partners and Akwesasne's LAX360 is warranted to determine interests and potential commitments.

Concept	Jobs Potential	Tax Revenue Potential	Infrastructure needs	Market Considerations	Stakeholder Interests
Business Park	250-300 (moderate range)	Moderate to high	Low to high (water/waste water varies depending on industry)	Faces competition from shovel- ready sites with interstate access	Industrial user needs and community Vision require careful consideration
Tech Park	760-850 (mid-high range)	moderate to high; potential sales tax	Moderate	Isolation from innovation centers; limited local amenities to support startups	Offers flexibility to meet range of stakeholder interests
Regional Tourism Destination	255-280 (low-mid range; many part time)	moderate; potential sales tax	High (based on water park demand for water and wastewater)	Lack of tourism infrastructure and interstate access	Collaboration needed among developers, local and tribal governments, and tourism organizations
Cultural Tourism Center	15-25 (low- moderate range; many part time)	low to moderate; potential tax sales	Low	Builds on unique cultural identity of Akwesasne	Requires commitment and collaboration from SRMT and Massena
Sports Complex	15-20 (mid- range; many part time)	low to moderate; potential indirect tax sales	Low	Builds on strong Mohawk brand in lacrosse and growth of the sport	Requires commitment from SRMT and collaboration with U.S. and Canadian lacrosse associations

6 NEAR-TERM ACTIONS

In the future, the RACER Trust plans to continue marketing its available land in the BOA Study Area to a range of potential users. The reuse concepts highlight multiple opportunities that target different potential end users. Regardless of the target end user, several key steps are needed to position the BOA Study Area for successful revitalization. Priority concepts identified through the Massena BOA are outlined below. Specific actions items regarding infrastructure investments, marketing approach, and property ownership or management options for the priority concepts are outlined on the following pages.

6.1 PRIORITY CONCEPTS

Based on the opportunities evaluation, the following concepts and sectors stand out as priorities that are aligned with the vision, site opportunities and stakeholder interests.

The Business Park, Technology Park and Cultural Tourism Center each have the potential to balance economic benefits with infrastructure investments, market realities and stakeholder interests. These concepts could be pursued in parallel or in sequential phases.

Table 6-A shows a potential initial phase of development building on the Tourism Center and Business Park concepts.

Opportunity	Job Potential	Strategic Value	Initial Costs
 Tourism Center 10,000 – 15,000 sf (initially) Parking Trails and Raquette River access 	Low	Build awareness, expand tourism volume	\$2-3 million + Route 37 access improvements
Business/Tech Park • 50,000 to 100,000 sf flex space • Parking • Common space	Mid-High	Create higher-quality jobs	\$7.5-8 million

Table 6-A. Priority Opportunities

Additional opportunities

Due to greater uncertainty, further collaboration and evaluation are needed to determine viability for several of the opportunities evaluated.

The Regional Tourism Destination and Sports Complex opportunities rely heavily on participation and investment from specific set of developers or partners whose interests and buy-in are currently uncertain. Further coordination among regional tourism destination partners (such as the Venus Strategies group) and Akwesasne's LAX360 initiative is warranted to determine interests and potential commitments. In addition, the Massena BOA market study identified dairy and food processing and packaging as strategic opportunities for both the BOA

Study Area and St. Lawrence County. Due to concerns about the GM Massena site's history of contamination, marketing the property for dairy processing or food production is not recommended at this time.

Sports Complex: There is strong regional interest to bring an indoor, year-round multi-sport training and tournament venue to the Town of Massena and Akwesasne. Franklin County, SRMT and Town of Massena have an opportunity to coordinate development of these opportunities including Akwesasne's LAX360 proposal for the Bingo Palace on Frogtown Road, and potential for year-round, multi-sport use arena at Massena's St. Lawrence Centre Mall.

Food and Dairy: There are significant opportunities to capitalize on the high volume of bulk milk production capacity in St. Lawrence County by development of new processing facilities in coordination with existing operations. The Massena BOA may not be the right location for such a facility, but further evaluation of dairy processing and food processing or packaging facilities is consistent with a countywide agriculture-based economic development strategy.

Further details on the infrastructure, marketing and ownership and management options for the priority concepts are outlined in subsequent sections.

6.2 INFRASTRUCTURE

Each of the reuse concepts requires new water and wastewater service, along with certain vehicular access improvements. The following infrastructure studies and coordination activities are needed to advance a range of revitalization efforts for the study area. Specific near-term actions to

Infrastructure Component	Strategic Value	Initial Costs
 Water Line Extension 1-mile extension from new public water connection at U.S. Border Station. 	Essential utility	\$900,000 - \$1.2 Million
 Wastewater Treatment System On-site packaged system with surface water discharge located in Zone A-1. Modular system to be expanded in phases. 	Essential utility	\$1.3Million-1.5Million + discharge permitting
 Access Improvements Improvements to County Route 45 and Indian Road. Direct access to Route 37 from areas to the south. 	Improve access to areas south of Route 37. Support tourism initiatives.	Costing and feasibility studies needed

Table 6-B. Priority Infrastructure Improvements

Water Line Extension

All of the potential reuse concepts will require a water line extension to connect with public water supply. U.S. General Services Administration (GSA) is planning to extend a Village of Massena waterline along Haverstock Road to the U.S. Border Station in 2018. The Route 37 corridor is a preferred route for the waterline extension but is currently not feasible due to NYSDOT right-of-way access limitations. An additional waterline extension is needed to connect the available study area properties to the U.S. Border Station planned waterline connection.



Wastewater Treatment

The RACER Trust properties and the nearby Alcoa East facility both require new wastewater treatment facilities.



RECOMMENDED ACTIONS:

- Support GSA efforts to negotiate right-of-way access with NYSDOT to extend waterline along Route 37 to U.S. Border Station.
- Extend waterline from planned US Border Station connection to areas north and south of Route 37.
- Feasibility evaluations are needed and could include several options:

1) An approximately one-mile waterline extension from planned connection at Haverstock Road entrance to the Alcoa East Plant to the RACER Trust property north of Route 37;

2) Extension of the existing SRMT waterline along Indian Road to support a potential Tourism Center located south of Route 37.

RECOMMENDED ACTIONS:

- Evaluate design, permitting, cost and feasibility options for prepackaged wastewater treatment systems with potential for phased expansion.
- As marketing efforts proceed, coordinate wastewater system feasibility evaluations for zones north and south of Route 37.

Vehicular Access

Areas south of Route 37 lack adequate road access to support a Tourism Center over the long-term. Improvements to Indian Road or an alternate access Section 6. Near-Term Actions route south of Route 37 would benefit the Tourism Center.



RECOMMENDED ACTIONS:

- Conduct road improvement study for existing access via County Route 45 and Indian Road.
- Initiate request and negotiation with NYSDOT regarding the potential for a signaled direct access to the south side of Route 37.

Route 37 Access

NYSDOT owns a 300-foot right-of-way with no rights to access Route 37 for abutting property owners. These access conditions were established when NYSDOT acquired the highway right-of-way and are generally necessary to limit access to a highspeed road. A waiver of the "no access" condition from NYSDOT would be needed and may be a valuable step to pursue in the near-term.

Several site-specific conditions may help to define the rationale for such a waiver. The section of Route 37 running through the BOA Study Area differs functionally from the five-mile divided highway running west to the Village of Massena. The Route 37 segment in the BOA Study Area was previously a divided, high-speed segment. However, the northern road alignment has been abandoned, and the southern alignment currently handles two-way traffic. Immediately east of the BOA Study Area, Route 37 continues through Akwesasne as a twoway traffic pattern with regular curb cuts and direct access for abutting properties. The General Services Administration has been in discussions with NYSDOT regarding use of the Route 37 right-of-way for a waterline extension to the Border Station. Due to time constraints, the General Services Administration has determined a more expedient but significantly more expensive alternative to run a waterline along Haverstock Road. Town of Massena officials see potential economic benefits to running a waterline along Route 37 and are working with the General Services Administration to determine access options for a water line along Route 37.

RECOMMENDED ACTIONS:

- Support regional coordination to gain access to appropriate portions of the Route 37 right-of-way for extension of Village of Massena supply to the U.S. Border Station.
 - Work with NYSDOT separately to explore access to Route 37 within the BOA Study Area, including conditions to lower the speed limit and gain direct access from abutting properties to the south.

6.3 MARKETING STRATEGY

As the RACER Trust continues to market its available property in the BOA Study Area, a strategy is needed to advance as part of its mission to clean up and reposition a portfolio of former GM properties. Successful revitalization will require a strategy that balances local initiatives and priorities, along with targeted business attraction. The nearterm actions outlined below focus on coordinating such efforts, and strengthening partnerships.







With frontage on two major rivers, the available RACER properties offer 150 acres with potential for large foot-print uses, a flex space business park and a tourism center.

RECOMMENDED ACTIONS:

- Support RACER Trust in continued marketing efforts to a range of potential users as identified in the Business Park, Technology Park and Tourism Center concepts.
- Pursue a mixed-use strategy that builds on the cultural heritage of Akwesasne and Massena, and the location's assets—power, rail, gas, access to Canada, and riverfront property.
- Coordinate business attraction strategies for the RACER Trust and Alcoa East properties through regional economic development organizations; consider redevelopment potential of both facilities.
- Coordinate near-term opportunities with potential tourism center tenants, including SRMT Office of Economic Development, Town of Massena, local governments and North Country tourism partners.
- As remediation is completed at the GM Massena site, additional evaluation of environmental conditions in Zones A-1, A-2 and A-3 is needed. Soil cleanup levels and allowable land uses designated by NYSDEC and the SRMT Environment Division need to be considered in marketing and future development approvals.
- The Study Area is zoned for Industrial Manufacturing—a designation that does not allow for tourism, research and development, or office uses. Evaluation of Town of Massena zoning ordinance is needed to identify zoning options with greater flexibility to accommodate a range of opportunities for the Study Area.

6.4 OWNERSHIP AND MANAGEMENT OPTIONS

RACER Trust is a qualified settlement trust created to remediate properties with oversight from federal, state and tribal agencies. It is not a commercial business; however, part of RACER's mission is to market the properties for development once they are cleaned up.

In coordination with marketing efforts and the RACER Trust, an ownership or management entity needs to be identified that can raise funding, finance improvements and implement redevelopment. Several ownership and management options are outlined below.

Direct Sale

Direct sale to one or two businesses seeking longterm ownership of real estate assets could eliminate the need for an intermediate ownership or management entity.

Local Development Corporation

Smaller businesses typically need to lease land, buildings or space in a business or technology park built and managed by a local development corporation, or a private developer.

Master Developer

Strategies with multiple development programs, such as the regional tourism destination, require a private-sector master developer that oversees financing and construction, then either sells or manages the property.

RACER TRUST SALES CRITERIA

- 1. RACER Trust considers the six criteria listed below for marketing properties and for evaluating purchase offers and development proposals.
- 2. The sufficiency of the purchase price.
- 3. The potential for job creation in the affected community, state.
- 4. Other benefits to the affected communities, state and Tribe, such as increasing tax revenue, generating economic activity, reducing blight, and providing a sense of renewal.
- 5. Avoidance of interference with the environmental cleanup or an increase in the cost of the work.
- 6. The views of the affected communities, the Tribe, and the state.
- 7. The reputation and credibility of prospective buyer

Massena Brownfield Opportunity Area Draft Revitalization Plan JUNE 2017

Massena, New York

Prepared for St. Lawrence County with funding from the New York State Department of State Brownfield Opportunity Areas Grant program.

For More Information

Please visit the project website: <u>www.skeo.massenaboa.com</u>

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