

EA STUDY



Updated List of Valued Ecosystem Components (VECs)

- VECs are features of the environment selected to be a focus of the EA Study.
- Selected for ecological, social, cultural, or economic value and for their potential vulnerability to effects of the project.
- Based on input from stakeholders during the last round of public consultation, changes (**shown in red**) have been made to the list.

Environmental Components	Sub-Components	Proposed VECs
Atmospheric Environment	Air Quality	<ul style="list-style-type: none"> • Closest Residential Receptor • Pathway to Terrestrial Environment VECs
	Noise	<ul style="list-style-type: none"> • Closest Residential Receptor • Pathway to Terrestrial Environment VECs
Surface Water Environment	Lake Water Quality & Water Temperature	<ul style="list-style-type: none"> • Members of the Public • Pathway to Aquatic Environment VECs • Pathway to Terrestrial Environment VECs
Aquatic Environment	Fish	<ul style="list-style-type: none"> • Emerald shiner • Lake trout • Northern pike • Round whitefish • Smallmouth bass • Walleye • White sucker
Terrestrial Environment	Amphibians & Reptiles	<ul style="list-style-type: none"> • Midland painted turtle • Northern leopard frog
	Birds	<ul style="list-style-type: none"> • Black-crowned night heron • Bufflehead • Common tern • Grey catbird • Red-winged blackbird • Red-tailed hawk • Trumpeter swan (replaces Mallard; similar qualities)
	Mammals	<ul style="list-style-type: none"> • Muskrat • Red fox • Woodchuck
	Vegetation	<ul style="list-style-type: none"> • Chokecherry • Eastern hemlock • Narrow-leaved cattail • New England aster • Red ash • Sandbar willow

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Updated List of Valued Ecosystem Components (VECs) (continued)

Environmental Components	Sub-Components	Proposed VECs
Geology, Hydrogeology & Seismicity	Hydrogeology	<ul style="list-style-type: none"> • Members of the Public • Pathway to Aquatic Environment VECs • Pathway to Terrestrial Environment VECs
Radiation & Radioactivity	Biological (Non-human)	<ul style="list-style-type: none"> • Populations of non-human biota (mammals, plants, birds, fish, amphibians, terrestrial invertebrates, benthic invertebrates)
	Human (off-site and on-site)	<ul style="list-style-type: none"> • Members of the Public • Workers at PN
Land Use and Resources	Transportation	<ul style="list-style-type: none"> • Members of the Public • Pathway to Aquatic Environment VECs • Pathway to Terrestrial Environment VECs • Pathway to Socio-Economic Environment VECs
Socio-Economic Conditions	Population & Economic Base	<ul style="list-style-type: none"> • Business Activity • Community-wide population levels • Direct, indirect and induced employment • Visitation to tourist attractions
	Community Infrastructure	<ul style="list-style-type: none"> • Housing prices
	Community Services	<ul style="list-style-type: none"> • Local recreational and community features (i.e. Waterfront Trail and Kinsmen Park) • Local Educational facilities (i.e. Sir John A. McDonald School) • Local Training Institutions
	Municipal Finance and Administration	<ul style="list-style-type: none"> • Tax revenues
	Residents and Communities	<ul style="list-style-type: none"> • Community Character • Use and enjoyment of property
Physical & Cultural Resources	Archaeological Resources	<ul style="list-style-type: none"> • Historic architecture or structural remains • Historic period artifacts • Historic cemeteries • Agricultural landscapes
Aboriginal Interest	Aboriginal Communities	<ul style="list-style-type: none"> • Community characteristics
	Traditional Land and Resource Use	<ul style="list-style-type: none"> • Hunting and fishing for subsistence • Fishing, trapping and other for economic purposes
	Culture and Heritage	<ul style="list-style-type: none"> • Prehistoric archaeological resources, ceremonial sites, burial mounds or petroglyphs • Aboriginal structural remains, artifacts or subsurface features