Appendix A Results of ACCDC and Associated Screenings

Species of Concern Analysis

Definitions of Rarity Rankings

Species at Risk A	ct - COSEWIC Ranks
Endangered	A species facing imminent extirpation or extinction
Threatened	A species likely to become endangered if limited factors are not reversed
Special Concern	A species of concern because of characteristics that make it particularly sensitive to
	human activities or natural events.
Not at risk	A species that has been evaluated and found to be not at risk.
NS Endangered S	Species Act
Endangered	A species that faces imminent extinction or extirpation and it listed as an
	endangered species pursuant to Section 12
Threatened	A species that is likely to become endangered if the factors affecting its
	vulnerability are not reversed and is listed as a threatened species pursuant to section
	12
Vulnerable	A species of special concern due to characteristics that make it particularly sensitive
	to human activities or natural events and that is listed as a vulnerable species
	pursuant to section 12
ACCDC Ranks I	Definitions
S1	Extremely rare throughout its range in the province (typically five or fewer
	occurrences or very few remaining individuals). May be especially vulnerable to
	extirpation.
S2	Rare throughout its range in the province (six to 20 occurrences or few remaining
	individuals). May be vulnerable to extirpation due to rarity or other factors.
S3	Uncommon throughout its range in the province, or found only in a restricted range,
	even if abundant at some locations (21 to 100 occurrences).
S4	Usually widespread, fairly common throughout its range in the province, and
	apparently secure with many occurrences, but the species is of long-term concern,
9.5	e.g., watch list (100+ occurrences).
S5	Demonstrably widespread, abundant, and secure throughout its range in the
CIT	province, and essentially ineradicable under present conditions.
SU	Unrankable: Possibly in peril throughout its range in the province, but status
CV	uncertain: need more information. Used for new species not previously identified.
SX	Extinct/Extirpated: Believed to be extirpated within the province.
S#S#	Numeric range rank: A range between two consecutive numeric ranks. Denotes
?	uncertainty about the exact rarity of the species, e.g., S1S2.
4	In exact or uncertain: For numeric ranks, denotes uncertainty, e.g., SE? denotes uncertainty of exotic status.
D	
В	Basic rank refers to the breeding population of the element in the province
SE	An exotic established in the province
M	Basic rank refers to the migratory population of the element in the province

NSDNR Genera	NSDNR General Status Ranks						
Undetermined	Species for which insufficient data, information or knowledge is available or						
	reliably evaluate their status.						
Blue	No longer in Nova Scotia or extinct in the wild.						
Red	Known to be or is thought to be at risk.						
Yellow	Sensitive. Species that are not believed to be at risk of immediate extripation or						
	extinction but which may require special attention or protection to prevent them						
	from becoming at risk.						
Green	Secure. Species that are not believed to be at risk or sensitive. This category						
	includes some species that have declined in numbers but remain relatively						
	widespread or abundant.						

Appendix C - Higgins Species at Risk Table (Short List) Species that are known to occur or may occur within the study area

Bottom Bostons One patient On	Common Name	Scientific Name	COSEWIC	NSESA	NSDNR General Status	ACCDC	Habitat	Region	Phenology Window (Plants)
The Secretary of the Control Con							Pich decidous forgets and ravings		
Company							In fir-birch associations on top of		
The control of the								CB, observed within 5km of the	
Part Front Part State and Character Comment of the Comment of Comm						S2	dry un-forested field	study area	June-Aug (CB)
Part	-								
Manual Control							limestone, seepage areas around		
Part									June-Aug (Central)
The Control Control Control Control Control Control		Cinna arundinacea			Red		Moist Woodlands, alluvial soils, wet		
Part	Blue Cohosh	Caulophyllum thalictroides			Red		woods, wet meadows, river bottoms	•	? (CB)
Commonweal Commonwea							Deciduous forests, intervale forests,		April-early June (Central,
Marie Mari	Northern White Cedar	Thuia occidentalis			Red			and Cumberland County	CB)
Section Profess Section Profess Section Profess Section Profess Section Profess Section Profess Section Sect	THORITION WINE COURT	maja oodidontalio			Trod		found with Balsam Fir, tamarack in	Lunenburg, Halifax and	All year (Western Fastern)
March 1982 Mar	Nodding Fescue	Festuca subverticillata			Red		Rich deciduous forests, alluvial		All year (Western, Eastern)
Company Control Cont							lowland forests, native	Five Mile River in Hants County,	
Part		Adiantum pedatum			Red				, , ,
Authors Company Comp									
April Company Compan	Proliferous Red Fescue	Festuca rubra			Yellow		Pastures, exposed situations in sand		
Part								Throughout the province	June-Jul (CB)
Control Cont	Lance-Leaf Grape-Fern	Botrychium lanceolatum			Yellow				, ,
Marchen Marc								Counties, Indian Brook Cheticamp	
Authority	River Anamona	Anemone virginians			Vellow		Rich wooded hillsides		Jul-Aug (Central, CB)
Page 1980 CBD Page 1980 CB	TAVOL AHEIHOHE	, aromone vilyillialla			I GHOW			Manada Bi U i S	
Profession Contemporary Contem							stream sides, calcareous and slatey	Colchester and Pictou counties,	
Growby Arres and Express and Service Services Se	Purple False Oats	Graphephorum melicoides			Yellow		ledges, shores and thickets		Early Jul (Central, CB)
Triples decided stable Prepared Triples and the prepared states, again, and an analysis of the prepared states, again, and again, a								Digby County, Cumberland County	July-Aug (CB)
Patient A seal Program without the patient of the p		Lindernia dubia			Yellow			·	
Selective of Control C							Sandy pand abaras, aquatia, wat	bottom of Maitland Pond,	
Haberts Lard Physiopenan antification of the process of the proces							areas and muddy areas of streams,	River Phillip near Oxford and	,
Author Cultured Scores academia South and personal counts of the control of the County South Author County South Author County South Author County South Author S		Polygonum arifolium			Yellow		Thickets, marshy boarders usually	, , , , , , , , , , , , , , , , , , , ,	Centrary
Notify for the Bilber Control (Part of Bilber Control								counties	Late Jul-Aug (Central)
South-Force Standard Conso. C	Acadian Quillwort	Isoetes acadiensis			Yellow			Bretons, Lake Kejimkukik near exist	
Foreits, dry woods, shaded or expected lottings and in campy and shaded lottings and in campy and shad	Small-Flower Bitter-	Cardamine parviflora			Yellow		or ponds and occasionally along rivers	of Grafton Brook	Eastern , CB)
Mach Belliower Campanule aperiologies Vellow Vellow Damp medicines, severandy self- commenced to the processor of the process	Cress							to Cape Blomindon and Cape d'Or,	
Marsh Belltower Companies appearacies Completed and three courses to Durry meetdows, swamps, meadows, warrings, wa								Halifax County to Victoria County in	
Camp meadows, swamps, meadows, Camp demonstration (Camp demonstration (Camp) (Person (Camp))	Marsh Bellflower	Campanula aparinoides			Yellow		,	Cumberland and Hants counties to	,
Personance (Particular Personance								Antingonish County, one location in	
Mod Notice Laportee canaderase Velow Mod Notice Laportee canaderase Velow Mod Notice Apportee canaderase Velow Mod Notice Velow Mod Notice		Rubus pensilvanicus			Yellow				, ,
Moist woods, stream banks, albuval woods of missed or existuss trees, floodplans on Cape Brisin plases, only the most of missed or existuss trees, floodplans on Cape Brisin plases, only the most feetile planes. North-Arm Fostal Alpecturus aequalis Vellow Vellow Vellow Vellow Vellow Sopper for ports, displayed or fivers and pravel margins and Margare in Cape Brown on shallow ponds and gravel margins and Margare in Cape Brown on Special County in Wellows, 2002 of Wellow and Margare in Cape Brown on Special County on Special		Laportos canadoneis			Vollow				
Short-Awn Footal Alopecurus aequasis Vellow Vello	Wood Nettle	Laportea canadensis			Tellow				
Velicow Veli							floodplains on Cape Breton plateau		Jul-Sept (Central, Eastern,
Combenies and shallow provides and greater images and shallow provides and greater images in case per sorger in Cope Prince (CB) Part	Short-Awn Foxtail	Alopecurus aequalis			Yellow			·	CB)
Vellow Slopes not usually in wetlands, rocky woods and maints slopes, for ylapopes and tallats, occasionally in fertile area of the Bay of Fundy and and tallats, occasionally in fertile area of the Bay of Fundy and and tallats, occasionally in fertile area of the Bay of Fundy and and tallats, occasionally in fertile area of the Bay of Fundy and northern Cape Breton, Hayliels in Checketer County (Cape Breton and Autum Kings County, Cape Breton and Spiser's Cover (Cape Br							ditches, muddy edges of rivers and	Cumberland's County to Strahlome	Aug-Sept (Central, Eastern,
Northern Comandra Record of the Bay of Fundy and northern Cape Breiton, Hayfields in Colchester County, and northern Cape Breiton, Hayfields in Colchester County, Hayfields in May-Jun (Central, CB) Northern Comandra Record of the Bay of Fundy and northern Cape Breiton, Hayfields in Colchester County, Cape Breiton and Spicers, Cover County, Cape Breiton, C	Drummond Rockcress	Arabis drummondii			Yellow			and Margaree in Cape Breton	(CB)
Northern Comandra Geocauton Invidum Yellow Moist woods widespread across borad clarest, steinle soils and damp Cape Breton and Spicor's Cove Cumberland Country Yellow Moist meadows, wood margins, rich meadows, wood margins, rich meadows and stream banks All titum canadense Yellow Yellow Yellow Moist meadows, wood margins, rich meadows, and stream banks All titum canadense Yellow Moist meadows, wood margins, rich meadows, and stream banks All titum canadense Yellow Moist meadows, wood margins, rich meadows, titches, bogs, meadows and stream banks All titum canadense Yellow Moist meadows, wood margins, rich meadows, wood margins, rich meadows, and stream banks All titum canadense Yellow Moist meadows, wood margins, rich meadows, wood was meadows and stream banks to grant properties to Antingen in Country Pellow Repaira susuam pracky buff, ridge pops, calcareous outcrops, top of hills rich grant pops, and Kings Country Properties to Antingen and From Country Properties to Antingen and Ranse Country Properties to Antingen and Cape Breton Properties to Antinge									
Cape Breton and Spicer's Cove Early May-early Aug Combendance Cape Breton and Spicer's Cove Cape Breton Ca	Northern Comandra	Geocaulon lividum			Yellow				May-Jun (Central, CB)
Yellow Canada Lily Lilium canadense Vellow Wellow Riparian swamp rocky bluff, ridge tops, calcareous outcrops, top of his, cliffs and fluss slopes, under confers in calcareous soll in calcare									Early May-early Aug
Moist meadows, wood margins, rich moist salis, wet woods, ditches, body, meadows and stream banks meadows and stream banks. Field Milkwort Polygale sanguinea Yellow Yellow Woods or bush Riparian swamp rocky bluff, ridge tops, calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes in calcareous outcrops, top of hills, cliffs and falus slopes in calcareous outcrops, top of hills, cliffs and falus slopes in calcareous outcrops, top of hills, cliffs and falus slopes in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflets in calcareous outcrops, top of hills, cliffs and falus slopes, under conflet	Yellow Canada Lilu	Lilium canadense			Yellow				
Field Milkwort Polygala sanguinea Yellow Moist fields and meadows, poor or acidic fields, damp slopes and pendos or bush (Cumberland, Annapolis, and Kings County) Cumberland, Annapolis, and Kings County County From Cumberland and Hants counties to Antingoinsh and Cape Bireton Prom Cumberland and Hants Counts of Extention Counties to Antingoinsh and Cape Bireton Prom Cumberland and Hants Counties to Antingoinsh and Cape Bireton Prom Cumberland and Hants Counts of Extention Counties to Antingoinsh and Cape Bireton Prom Cumberland and Hants Counts of Extention Cape Bireton Prom Cumberland and Hants Counts of Extention Cape Bireton Prom Cumberland, Annapolis, and Kings County Valley Sept (Central, Eastern, Central) From Cumberland, Annapolis, and Kings County Counts of Hills, and County Counts and Cape Bireton Prom Cumberland, Annapolis Valley Wentworth Valley and Annapolis Valley Valley Wentworth Valley and Annapolis Valley Almost anywhere during the spring migration (going northward). Near land often open spaces where these land oft									
acidic fields, damp slopes and open woods or bush Ebony Sedge Carex eburnea Yellow Riparian swamp rocky bluff, ridge tops, calcareous outcrops, top of hills, fifter and talls slopes, under confiers in calcareous soil Invertebrates Early Hairstreak Frora laetus Petropus P							meadows and stream banks		July (Central, Eastern, CB)
Ebony Sedge Carex eburnea Vellow Riparian swamp rocky bluft, ridge tops, calcareous outcrops, top of hills, cliffs and talus slopes, under confiers in calcareous soll in calcareous soll soutcrops, top of hills, cliffs and talus slopes, under confiers in calcareous soll in calcareous soll service. Early Hairstreak Erora laetus RED Deciduous woods with beech present Valley Monarch Danaus plexippus YELLOW Exist primarily where milkweed and wildflowers are present, including abandoned farmland along roadsides and other open spaces where these plants grow Hoary Comma Polygonia gracilis YELLOW Boreal forests Elfin Skimmer Nannothemis bella YELLOW Stagnate pools in marshy places Prince Baskettail Epitheca princeps YELLOW Clear streams and rivers Stayranglewing (Greenstripped Darner Aeshna verticalis YELLOW Den Marshy areas and open fields Stayr Anglewing (Comma) Freshwater Mussels	riela Milkwort	Polygala sanguinea			Yellow		acidic fields, damp slopes and open	g-	Late June-Oct (Western,
tops, calcareous outcrops, top of hills, cliffs and talus slopes, under conifers in calcareous soil continuous soil soutce of the continuous soil soil soil soil soil soil soil soi	Ebony Sedge	Carex eburnea			Yellow			County	Central)
Invertebrates							tops, calcareous outcrops, top of hills,		
Early Hairstreak Erora laetus Deciduous woods with beech present Deciduous woods with beech present Valley Monarch Danaus plexippus VELLOW Exist primarily where milkweed and wildflowers are present, including abandoned farmland along roadsides and other open spaces where these plants grow Hoary Comma Polygonia gracilis Fireshwater Mussels Wentworth Valley and Annapolis Valley Almost anywhere during the spring migration (going northward). Near larval floodplains during breeding in fall, commonly near Atlantic Coast. Special Concern YELLOW Boreal forests YELLOW Stagnate pools in marshy places Rivers, streams, lakes, wave washed shores of lakes and slow running streams and rivers Zorro Clubtail Lanthus parvulus YELLOW Clear streams and prooks Greenstripped Darner Aeshna verticalis YELLOW Open marshy areas and open fields Satyr Anglewing Polygonia satyrus Freshwater Mussels					Invertebrates				July-Sept (Central, Eastern)
Monarch Danaus plexippus YELLOW Exist primarily where milkweed and wildflowers are present, including abandoned farmland along roadsides and other open spaces where these plants grow Hoary Comma Polygonia gracilis Elfin Skimmer Nannothemis bella YELLOW Prince Baskettail Epitheca princeps YELLOW Tellow Te	Early Hairstreak	Erora laetus					Deciduous woods with heach present		
wildflowers are present, including abandoned farmland along roadsides and other open spaces where these plants grow Hoary Comma Polygonia gracilis Elfin Skimmer Nannothemis bella Prince Baskettail Epitheca princeps YELLOW YELLOW Stagnate pools in marshy places YELLOW Rivers, streams, lakes, wave washed shores of lakes and slow running streams and rivers Zorro Clubtail Lanthus parvulus Greenstripped Darner Aeshna verticalis Satyr Anglewing (Comma) Polygonia satyrus Wildflowers are present, including abandoned farmland along roadsides migration (going northward). Near larval floodplains during preeding in fall, commonly near Atlantic Coast. YELLOW Stagnate pools in marshy places Rivers, streams, lakes, wave washed shores of lakes and slow running streams and rivers Open marshy areas and open fields Satyr Anglewing (Comma) Polygonia satyrus Freshwater Mussels	Monarch	Danaus plexippus			YELLOW		·		
And other open spaces where these plants grow plants grow fall, commonly near Atlantic Coast. Hoary Comma Polygonia gracilis Elfin Skimmer Nannothemis bella Prince Baskettail Epitheca princeps YELLOW Tellow							wildflowers are present, including		
Hoary Comma Polygonia gracilis YELLOW Boreal forests Elfin Skimmer Nannothemis bella YELLOW Stagnate pools in marshy places Prince Baskettail Epitheca princeps YELLOW Rivers, streams, lakes, wave washed shores of lakes and slow running streams and rivers Zorro Clubtail Lanthus parvulus YELLOW Clear streams and brooks Greenstripped Darner Aeshna verticalis YELLOW Open marshy areas and open fields Satyr Anglewing (Comma) Polygonia satyrus Freshwater Mussels			Constitution				and other open spaces where these	larval floodplains during breeding in	
Prince Baskettail Epitheca princeps YELLOW Rivers, streams, lakes, wave washed shores of lakes and slow running streams and rivers Zorro Clubtail Lanthus parvulus YELLOW Clear streams and brooks Greenstripped Darner Aeshna verticalis YELLOW Open marshy areas and open fields Satyr Anglewing (Comma) Polygonia satyrus Polygonia satyrus Freshwater Mussels			Special Concern				Boreal forests	iail, commonly near Atlantic Coast.	
Sorro Clubtail Lanthus parvulus Greenstripped Darner Aeshna verticalis Satyr Anglewing (Comma) Polygonia satyrus Freshwater Mussels									
Zorro Clubtail Lanthus parvulus YELLOW Clear streams and brooks Greenstripped Darner Aeshna verticalis YELLOW Open marshy areas and open fields Satyr Anglewing (Comma) YELLOW Boreal forests							shores of lakes and slow running		
Satyr Anglewing (Comma) Polygonia satyrus (Comma) Open marshy areas and open fields YELLOW Boreal forests		· ·					I .		
(Comma) Boreal forests Freshwater Mussels							Open marshy areas and open fields		
		, orygonia satyrus		_			Boreal forests		
	Squawfoot	Strophitus undulatus		F					
occurring in large rivers in mud, sand or gravel. Rivers and creeks and lakes Cumberland, west Colchester							or gravel. Rivers and creeks and lakes		
in all substrates counties, Fundy Coast	<u> </u>	1	<u> </u>		<u> </u>	<u> </u>	ın all substrates	counties, Fundy Coast	<u> </u>

Γ=	T.,	_	_	T				
Brook Floater (Swollen Wedge Mussel)	Alasmidonta varicosa			YELLOW		Rapids or riffles on rocky or gravel		
						substrates and in sandy shoals mostly		
						in small rivers and creeks. High relief streams among boulders in sand. In		
						creeks and small rivers, fast water on substrate of stable gravel or sandy		
Eastern River Pearl	Margaritifera margaritifera			YELLOW		shoals.	From NS and NB to Carolina	
Mussel (E. Pearl Sh	Margantilera margantilera			TEELOW		Small-medium rivers, on sandy shoals and in pools with overhanging		
Rusty Snaketail	Ophiogomphus rupinsulensis			RED		branches Along rivers, low flowing rivers with	NL and NS	
	, , ,					diverse substratum		
Brook Snaketail	Ophiogomphus aspersus			RED		Clear sand bottom streams with intermittent rapids, sand or gravel		
						substrate, small river floodplain forests.		
		·	Fish	I				
Pearl Dace	Margariscus margarita			YELLOW		lakes, cool bog ponds, creeks and cool springs		
Brook Trout (Char)	Salvelinus fontinalis			YELLOW				
						Spring fed springs with many pools and riffles It is found in a range of		
						waters from tiny ponds to large rivers, lakes, and salt water estuaries	Maritime provinces	
Fourspine Stickleback	Apeltes quadracus			YELLOW		Near shore marine species, some	·	
			1	Reptiles		inland species occur	Atlantic provinces and Quebec	
Wood Turtle	Clemmys insculpta			YELLOW	S3			
						Has been observed within 5km of the study area. It is associated with		
						moving water, frequents streams creeks and rivers. It occupies a great		
						variety of habitats including forests,		
						riparian areas with open canopy. It prefers moderate current, clear		
						streams and drainages. It over winters in water spends it string and		
		0	Modern 11			fall in or near water and summers on	North Control NO	
	<u>I</u>	Special Concern	Vulnerable	Birds		ground	North Central NS	
Boreal Chickadee						0		
	Poecile hudsonica			Green	S3S4	Confirmed breeding by Taylor within 5km of the study area		
Vesper Sparrow						Observed by Taylor as probable		
	Pooecetes gramineus			Yellow	S2S3B	breeding within 5km of the study area		
Peregrine Falcon	Falco peregrinus			RED		Lake shores, river valleys, river	around the Bay of Fundy, Minas Basin, Cumberland, Colchester,	
		Threatened	Threatened			mouths, urban areas, and open fields	Hants, Kings, Victoria and	
Black-crowned Night- Heron	Nycticorax nycticorax			YELLOW				
						Shallow cattail and bulrush marshes,	Migratory in all counties south and including Cumberland, Colchester	
Droot	Duanta hamiala			YELLOW		lakeshores and along slow rivers	and Halifax to Yarmouth County	
Brant	Branta bernicla			YELLOW			Year round resident in Digby County, migratory in Yarmouth,	
						Coastal bays, estuaries, shorelines	Shelburne, Pictou Colchester, Cumberland and Kings and Hants	
						and agricultural fields	counties, along the coast	
Northern Goshawk Semipalmated	Accipiter gentilis Calidris pusilla			YELLOW		Woodlots, forested areas	Scattered throughout NS	
Sandpiper	,					Coastal mudflats, beaches and shorelines, spits and pond shores	Migratory along coast in NS	
Long-eared Owl	Asio otus			YELLOW				
						Breeds in dense coniferous mixed and riparian forests and areas with tall		
						shrubs. In winter in woodlots dense riparian woodlands and hedgerows		
						isolated tree groves in meadows fields	NO	
Short-eared Owl	Asio flammeus			YELLOW		cemeteries farmyards or parks Open areas, including grasslands, wet	NS	
						meadows, marshes, fields, airports,		
		Special Concern				forest clearings, muskegs and open bogs	NS	
Purple Martin	Progne subis			YELLOW		Semi-open areas including gardens		
						and fields, almost always near water	NS	
Eastern Bluebird	Sialia sialis			YELLOW		Cropland fence lines, meadows, fallow		
						and abandoned fields, pastures, forest	N	
		Not at risk	<u>L</u>			clearings and edges, golf courses large lawns and commentaries	North and central NS breeding, migratory in southern NS	
Ipswich Sparrow	Passerculus sandwichensis			YELLOW				
						Breeds in agricultural fields, moist		
						sedge and grass meadow, pastures, salt marshes, beaches, dunes, bogs		
						and fens locally in forest clearings. In migration and winter they are found		
						along shorelines, in weedy fields and	NG	
Bobolink	Dolichonyx oryzivorus			YELLOW	S3B	in overgrown gardens	NS	
						Confirmed breeding by Taylor within		
						5km of the study area. Occurs in tall grassy meadows and ditches,		
	i	1				hayfields and some croplands; increasingly uses coastal		
			1			meadowlands and sand dunes with wax myrtle and other low growth	NS	
						, and outer low growin		
Common Tern	Sterna hirundo			YELLOW				
Common Tern	Sterna hirundo			YELLOW		Breeds in natural and human-made		
Common Tern	Sterna hirundo			YELLOW		islands, breakwaters and beaches. In migration in large lakes, open		
	Sterna hirundo Martes pennanti			YELLOW		islands, breakwaters and beaches. In	On coastal regions in NS	
						islands, breakwaters and beaches. In migration in large lakes, open	On coastal regions in NS Throughout NS, Mostly in Cumberland, Colchester and Pictou	
Fisher	Martes pennanti			YELLOW		islands, breakwaters and beaches. In migration in large lakes, open wetlands and slow-moving rivers Mixed forest	Throughout NS, Mostly in	
Common Tern Fisher Hoary Bat	Martes pennanti Lasiurus cinereus			YELLOW		islands, breakwaters and beaches. In migration in large lakes, open wetlands and slow-moving rivers Mixed forest Trees along floodplains wooded areas, hang in trees	Throughout NS, Mostly in Cumberland, Colchester and Pictou	
Fisher	Martes pennanti			YELLOW		islands, breakwaters and beaches. In migration in large lakes, open wetlands and slow-moving rivers Mixed forest Trees along floodplains wooded	Throughout NS, Mostly in Cumberland, Colchester and Pictou Counties	
Fisher Hoary Bat	Martes pennanti Lasiurus cinereus			YELLOW		islands, breakwaters and beaches. In migration in large lakes, open wetlands and slow-moving rivers Mixed forest Trees along floodplains wooded areas, hang in trees Large mature deciduous forest,	Throughout NS, Mostly in Cumberland, Colchester and Pictou Counties	

Appendix B Heritage Resource Permit

A2006NS34



Nova Scotia Museum Special Places Protection Act, R.S.N.S. 1989

Heritage Research Permit

(Archaeology)

(Original becomes Permit when approved by the Executive Director of the Nova Scotia Museum)

The undersigned April MacIntyre
c/o 6519 Oak Street, Halifax, NS B3L 1H6
representing (institution) Davis Archaeological Consultants Limited
hereby applies for a permit under Section 8 of the Special Places Protection Act to carry out archaeological investigation during the period:
1 May 2006 to 31 December 2006
Higgins Mountain Wind Farm
general location Westchester Station, Cumberland County
specific location(s) (cite Borden numbers and UTM designations where appropriate
and as described separately in accordance with the attached Project Description. Please refer to the appropriate Archaeological Heritage Research Permit Guidelines for the appropriate Project Description format.
I certify that I am familiar with the provisions of the Special Places Protection Act of Nova Scotia, and that I will abide by the terms and conditions listed in the Heritage Research Permit Guidelines for the category (check one).
Category A - Archaeological Reconnaissance Category B - Archaeological Research Category C - Archaeological Resource Impact Assessment
Signature of applicant app
Approved: Executive Director Dell Menles Date May 106

www.gov.ns.ca

In Reply Please Quote Our File Number:

April 12, 2005



Ms. April MacIntyre Davis Archaeological Consultants c/o 6519 Oak Street Halifax, NS B3L 1H6

Dear Ms. MacIntyre:

RE: Heritage Research Permit
A2005NS09 - Cobequid Hills Turbines

We have received and reviewed your report on work conducted under the terms of Heritage Research Permit (A2005NS09) for an Archaeological Resource Impact Assessment of the Cobequid Hills Turbines

The report contains the findings of a documentary research phase to assess the archaeological potential for the sites of three proposed wind turbine generation facilities. Based on the research findings, the author recommends that all three projects undergo field assessments.

Staff concur with recommendation. As per your request, a copy of this letter will be sent to Ms. Lori Williams, CBCL Ltd.

If you have any questions, please let me know.

Sincerely,

Robert Ogilvie

Manager, Special Places

c.

David Christianson, Nova Scotia Museum Stephen Powell, Nova Scotia Museum



Nova Scotia Museum Special Places Protection Act, R.S.N.S. 1989

Application for Heritage Research Permit

Permit No. A2005NS09

(Archaeology)

(Original becomes Permit when approved by the Executive Director of the Nova Scotia Museum)

The undersigned April D. MacIntyre
of c/o 6519 Oak Street, Halifax, Nova Scotia B3L 1H6
representing (institution) Davis Archaeological Consultants Limited
hereby applies for a permit under Section 8 of the Special Places Protection Act to carry out archaeological investigation during the period:
from 10 March 2005 to 31 December 2005
Cobequid Hills Turbines at
general location Colchester and Cumberland Counties
specific location(s) (cite Borden numbers and UTM designations where appropriate
Springhill E 420617.019673 N5051022.86302; Higgins Mountain E451801.82232
N 5048009.82971; Londonderry E447513.818875 N5036094.766
and as described separately in accordance with the attached Project Description. Please refer to the appropriate Archaeological Heritage Research Permit Guidelines for the appropriate Project Description format.
I certify that I am familiar with the provisions of the Special Places Protection Act of Nova Scotia, and that I will abide by the terms and conditions listed in the Heritage Research Permit Guidelines for the category (check one).
O Category A - Archaeological Reconnaissance O Category B - Archaeological Research O Category C - Archaeological Resource Impact Assessment
Signature of applicant Cypul MacIntuye Date 10 March 2005
Approved: Executive Director Bull Really Date 16 March 2005
Executive Director All Alake Date 16 March 2005

Appendix C Vensys 62 Technical Description

Vensys 62

1200 kW/ 69 m hub height

Technical Description

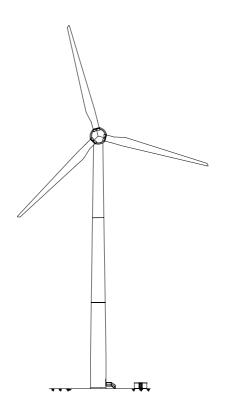




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1. Subject to Change

The following technical description of the VENSYS 62 wind energy converter (WEC) was updated November 2002. Future product development may result in differences in actual versus theoretical specifications and operating data. As such, this document may be subject to change.

2. General Information

The Vensys 62 is a gearless wind energy converter and is equipped with a three-blade rotor, pitch control with a rated output of 1,200 kW. This converter generates electric current that is fed directly into the public grid. Optimum aerodynamic rotor efficiency, at every wind speed, is achieved by using variable speed technology. The 62m rotor diameter and 69m hub height result in an overall height of approximately 100m.

<u>Highlights</u>

Highly efficient multipole generator

- Direct coupling of the multipole generator to the rotor
 - No gearbox required
 - Practical application of advanced technologies
- Synchronous generator with permanent magnet excitation
 - High efficiency, particularly at partial load
 - No energy losses because of an external excitation
 - No sliprings for external excitation needed
- External runner concept (rotor rotates about the stator)
 - Compact design, small generator diameter
 - Light-weight generator
- passive air-cooling system
 - Highly efficient cooling without any additional energy

Blade pitch system and safety system

- Blade pitch system with synchronous belts
 - Lubrication not required
 - Minimum play in blade drive tracks
 - Minimum wear
 - Maintenance free
- Double-layer capacitor for emergency re-pitching
 - No heavy lead-gel accumulators required
 - Brushless pitch motor
 - Increased lifetime
 - Maintenance free

3. Design Towerhead

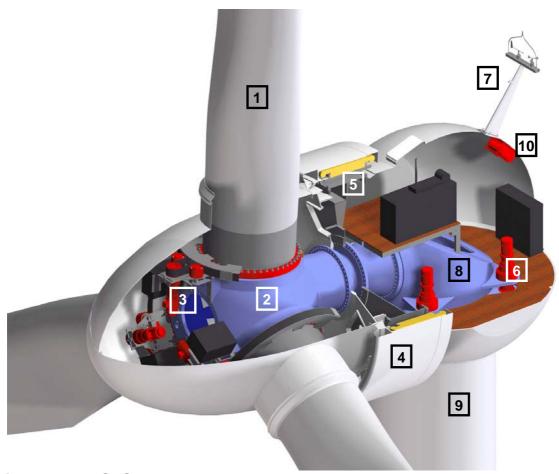


Figure 1: VENSYS Tower Head

- 1 Rotor Blade 6 Yawing System
- 2 Casted Hub 7 Wind Measurement System
- 3 Blade Pitch System 8 Machine Base
- 4 Generator Rotor 9 Tower
- 5 Generator Stator 10 Auxiliary Winch

4. Rotor

The VENSYS 62 aerodynamic rotor blades convert translational air motion into a motion of the rotor. This motion is initiated by aerodynamic lift forces.

The WIND ENERGY CONVERTER has a three-bladed rotor that is equipped with active blade adjustment (pitch) technology. The LM Glasfiber A/S manufactured rotor blades (LM 29.1P) are made of reinforced fibreglass, have a rotor diameter of 62 m, and a swept area of 3019 m². The blades posses integrated lightning protection. Potential lightning strikes will be conducted from the rotor blade through the tower to the foundation via a spark gap.

Each rotor blade has a pitch bearing that connects the blade to the casted hub. The rotor blades will be automatically pitched according to the wind speed and power output. For maintenance, the rotor can be locked. The rotor is connected to an axle pin by tapered roller bearings. The axle pin itself is affixed to the machine base.

5. Multipole Synchronous Generator

The generator converts the rotational energy of the rotor into electrical energy. It is a multipole synchronous generator with permanent magnet excitation. The turbine rotor drives the generator rotor directly (i.e. no gearbox).

The generator consists of the following components:

- Generator stator with three-phase winding
- Generator rotor with permanent magnets

The generator is fully maintenance and wearfree.

Generator Stator

The generator stator is a welded structure that acts as the supporting structure for the stator core and the three-phase winding.

The supporting structure consists of separate segmental core blanks. To avoid wakes the core blanks are insulated against each other. After insertion of the three-phase winding the stator will be impregnated with high-quality insulating resin. In the back of the stator core cooling fins are punched to increase surface area and heat emission. The patented, passive air-cooling system directs airflow with an air duct directly along the outside of the stator core. This air-cooling system provides the advantage of encapsulating the active electrical components thereby minimizing coil corrosion.

Increasing wind speeds result in increased power generation as well as increased heat production. This heat build up must be cooled away to avoid overheating of the generator. However, the maximum cooling effect is achieved just at high wind speeds. This self-cooling turbine eliminates the need for active fans and pumps.

Generator Rotor

The rotor of the Vensys 62 is placed outside the stator. The use of permanent magnets in combination with the external rotor results in a smaller generator and a smaller external diameter than traditional turbines. Figure 2 compares both technologies. The diameter of the air gap is the same, this means about identical power output for both versions.

The Vensys 62 external rotor is only a few millimetres larger than the air gap diameter while the standard design protrudes to the package height (3) and to the stator supporting structure (2) over the air gap. Generators with smaller external diameter have the advantages of being lighter and easier to transport.

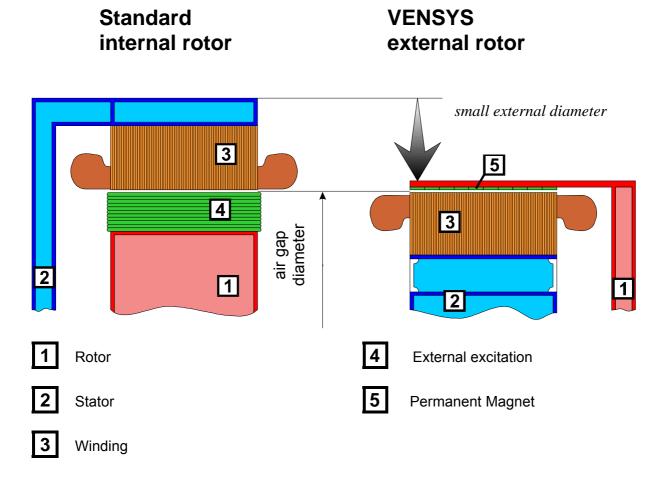


Figure 2: Advantages of VENSYS external rotor

The generator rotor is directly driven by the turbine rotor. By using a direct driven multipoled synchronous generator the conventional main gear is omitted and many advantages recognized. Gearboxes have been traditionally, particularly on today's megawatt class turbines, sensitive to overloading and premature failure.

Gearboxes are noisy which necessitates expensive noise insulation measures. Gearless units do not require gear oil servicing nor do they produce leaks. Furthermore, there are no gear losses which is a great advantage particularly at partial load. As such, these advantages will result in lower insurance costs, increased turbine lifetime, and lower overall operating and maintenance costs.

6. Frequency Converter

The connection to the public grid is done by a frequency converter system and a transformer. Both components are situated inside the wind turbine so an additional separated transformer, typical for conventional turbines, is not necessary. The frequency converter, has been specially designed for the use together with synchronous generators. It allows a complete separation of the generator operation from the grid conditions. So variable speed operation of generator, in a speed range of 11 to 20 rpm. This provides a better energy yield at partial load. At rated load and above the stuctural loads on the turbine are reduced by this technology.

At the generator output, diode rectifiers are used to voltage peaks (du/dt loads) in the generator windings. The generated direct current is conducted by the tower cable to the control mechanism situated at the base of the tower where the final DC/AC transformation is done. The tower cables are not loaden HF current and as such do not require protection. In addition, two IGBT sets are used on the lower platform to reduce harmonics. This eliminates the use of additional filters.

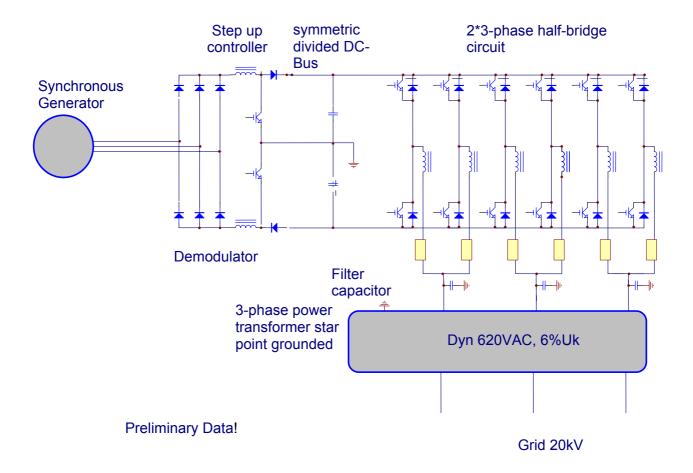


Figure 3: design converter system

This converter system provides the following advantages:

- no torque peaks in case of grid failure
- 50 Hz or 60 Hz line frequency without hardware modification
- No HF-loading of tower cable
- 2 IGBT sets to reduce harmonics
- High variable speed range 11-20 rpm
- Grid connection without contactor, no current peak
- insensitive to grid failure
- High efficiency with diode rectifiers
- Adjustable cos φ
- Power factor control for stabilisation of grid is possible even when the wind energy converter is stopped
- Complies with new EON-directive

7. Blade pitch and brake system

The blade-pitch system of the VENSYS 62 allows each blade to pitch independently. This provides power control and aerodynamic braking capabilities for the WIND ENERGY CONVERTER. At rated wind speed and above the power input of the rotor will be limited by the pitch system to 1,200 kW. This feature avoids overloading of generator and converter system. The controller monitors power output, blade pitch angles and wind conditions as well as variable speed operation to ensure optimal operating performance.

The three blade pitch mechanism of the turbine also serves as a rotor brake. Moving the rotor blades into feathering position reduces the rotor torque and acts as a brake. The blade pitch mechanism consists of three independent electrical drive trains with energy storage and a synchronous belt power train. Each drive train consists of a three phase brushless motor, a converter, a power supply unit, a position sensor and a capacitance storage system.

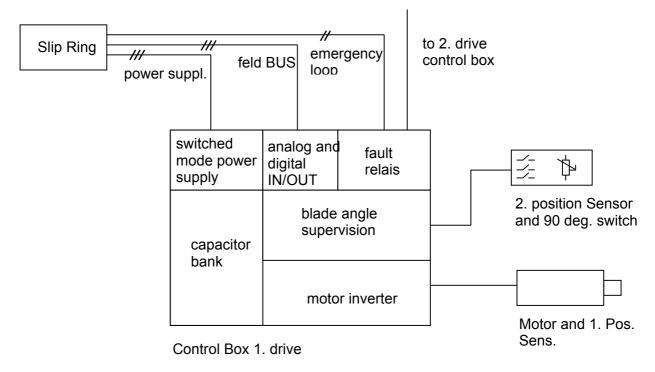


Figure 4: DP Chart pitch drive

The capacitors eliminate the need for heavy lead accumulators. All signals are transmitted by a DC-isolated PROFIBUS port, which is protected against overvoltage. Unique to the VENSYS 62 is the synchronous belt transmission between the drive motor and rotor blade. This connection is insensitive to shock loading because, as opposed to gear transmission, several teeth are always in contact. The synchronous belt does not require lubrication and is insensitive to moisture and dirt.

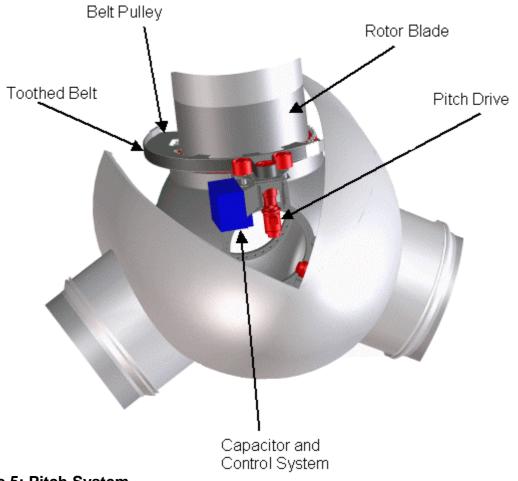


Figure 5: Pitch System

8. Nacelle Design

The nacelle has to transmit all static and dynamic loads of the rotor and the generator to the tower. In addition, the nacelle houses the control cabinets, tha hoisting crane, the yawing system, and supports the wind monitoring system (anemometer). Essentially, the housing consists of 3 parts: (1) a casted part for transmission, (2) a walkable base platform, and (3) a shell made of reinforced fibreglass.

9. Yawing System

The yawing system aligns the rotor with the wind direction, which is given by a wind vane installed on top of the nacelle. This wind data provides the basis for yaw corrections via electrical operated azimuth motors. These yaw motors are geared to the external teeth of the yaw bearing between the tower and the cast machine base.

10. Control System

The VENSYS 62 has a microprocessor based control unit that independently adjusts and controls the turbine's operating parameters. As such, outside data entry or control is not required.

The control unit uses sensors to retrieve information about external conditions (wind speed, wind direction) and all operating parameters of the wind energy converter (power, rotor speed, blade pitch). Basing on this data, the plant management controls the turbine to optimise power yield and to ensure safe turbine operation.

At partial load the rotor speed is adjusted by modifying the generator outputAt rated load and above the nominal power capacity is achieved with blade pitch adjustment. As such, gusts can be converted into an increased rotational speed rather than increasing torque. The latter behaviour is typical for conventional fixed speed technology. The VENSYS 62 is able to "absorb" wind speed changes and act as an energy cache memory.

The turbine operates in a wind speed range of 3 m/s to 25 m/s. The wind turbine automatically stops operating outside this velocity range.

External monitoring of the operating performance of the turbine is possible by a PC modem and a telephone connection. All operating data, records and turbine conditions can be calculated and logged.

11. Tower

The steel tower supports the nacelle and the rotor and transfers of the turbine into the foundation.

The tower consists of three segments held together by screw flange connections. It is connected to the foundation by the foundation insert. The yaw bearing is screwed directly on the top tower flange. The control cabinet, converter, transformer and the medium voltage switchgear are mounted at the tower base. The tower is 69m high, has a base diameter of 4.2 m and a top diameter of 2.5 m. The tower is equipped with an internal cat ladder c/w a fall guardrail. Relax or safety platforms are installed at regular distances in the tower. The top platform has a cat ladder allowing access to the nacelle. The tower and the nacelle are lighted.

Inside the tower there are also power and signal cables. The signal cables are trouble-free optical fibre. The cables hang in the upper section to allow the yawing of the nacelle and after several yaw rotations the wind energy converter will automatically untwist the cables. The foot of the tower is accessible from outside by a stair and a door.

12. Foundations

The foundations secure or stabilize the turbine. It is designed as so-called raft or floating foundation. The rotor loads are transferred by the tower and the tower section to the foundation. The foundation section is a short steel tube which is integrated in the foundation. The upper layer of the steel reinforcement at the concrete runs through radial holes in the foundation section.

13. Technical Data

Rotor	Diameter	62 m			
KOLOI		3019 m ²			
	Swept area	11 – 20 min ⁻¹			
	Speed range				
	Number of blades	3			
	Blade type	LM 29.1 P or similar			
	Power control	Pitch			
	Brakes	Blade pitch triple-redundant			
	_				
Tower	Type	Steel tube			
	Hub height	69 m			
Operation	Cut is wind and	2 m/s			
Operating	Cut-in wind speed	3 m/s			
Data	Rated wind speed	12 m/s			
	Cut-out wind speed	25 m/s			
	Survival wind speed	59,7 m/s			
	Noise emission	Not available yet			
	Measured power curve	Not available yet			
Generator	Туре	Multipole synchronous generator,			
		permanent magnet excited			
	Design	Direct drive			
	Rated power	1,200 kW			
	Rated voltage	Y 700 V			
	Insulation category	F			
Yawing	Design concept	Electrical drive motor			
System	Rate of movement	0,5 °/sec			
Gearbox	Туре	Gearless			
Duolee	Drives broke systems	Diada witch triple year, and and			
Brake	Prime brake system	Blade pitch triple-redundant			
System	Holding brake	Anchor locking			
Transformer	Typo	Casting regin transformer 1 250 k)/A			
Transformer	Type	Casting resin transformer 1,250 kVA 620 V			
	Input voltage				
	Output voltage	20 kV			
Control	Functionality	Microprocessor controlled remote			
System	i dilolionality	monitoring			
System		monitoring			
Masses	Rotor	31,000 kg			
11103303	Nacelle (excl. rotor)	50,000 kg			
	Tower	96,000 kg			
	Total mass	177,000 kg			

14. Calculated Power Curve Vensys 62

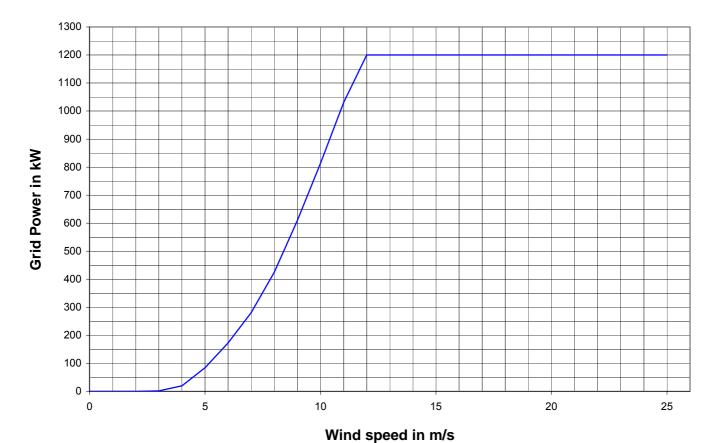
V _N	P_{Grid}
in m/s	in kW
0	0
1	0
2	0
3	12
4	39
5	92
6	171
7	278
8	414
9	579
10	762
11	963
12	1200

V_N	P_{Grid}
in m/s	in kW
13	1200
14	1200
15	1200
16	1200
17	1200
18	1200
19	1200
20	1200
21	1200
23	1200
24	1200
25	1200

 V_N = wind speed at hub height P_{Grid} = grid power

Calculated Power Curve Vensys 62

Stand 26.11.02 Version 2.0



Calculated Annual Energy Yield 15.

V_{Nm}	Calulated annual energy
in m/s	yield in MWh
4	753
4,5	1.114
5	1.532
5,5	1.997
6	2.479
6,5	2.968
7	3.455
7,5	3.914
8	4.360

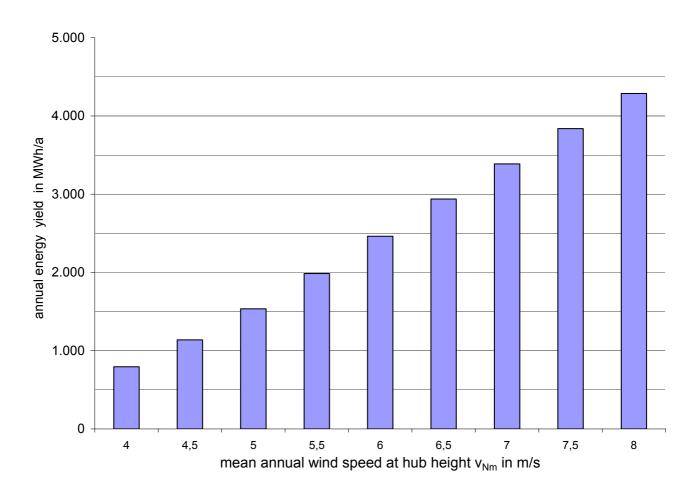
reference yield*: 2.751 MWh/a

*Mean annual wind speed of 5.5 m/s at a height of 30 m and a roughness height of 0.1m

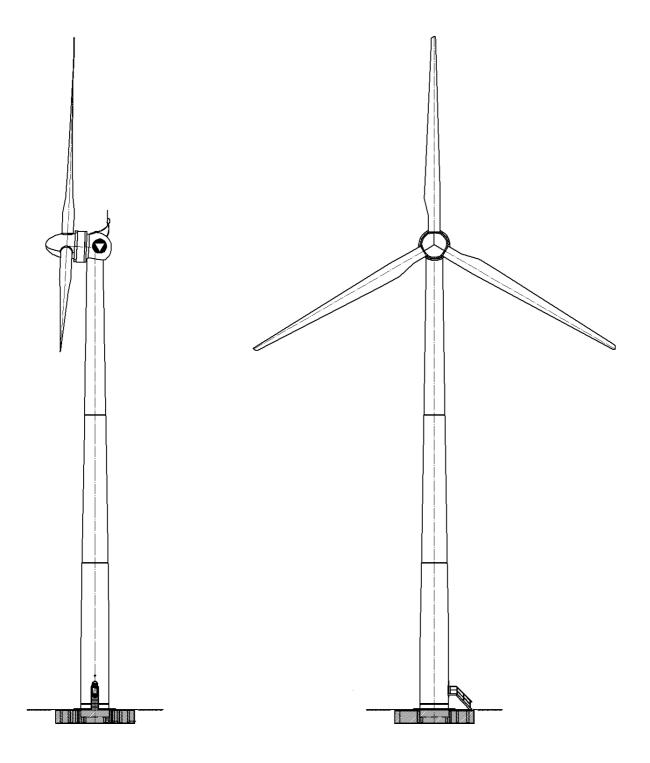
V_{Nm} = mean annual wind speed at hub height Roughness height: 0.1 m

Air density: 1.225 kg/m³

Calculated Annual Energy Yield for different v(h_N) Rayleigh distribution rectifier



16. Front and Side View of Vensys 62



Hub height: 69 m Rotor diameter: 62 m Rated output: 1,200 kW

L303-864/865 & L303-885/866 MEDIUM INTENSITY RED/WHITE FLASHING STROBE OBSTRUCTION LIGHT

Key features

- High reliability with long life time, low cost of ownership and low power consumption
- Effective intensity 20.000 candela white day mode and 2.000 candela red night mode
- Uses Orga special technology for the ignition of xenon lamps control for long lamp life and very low UV and ozone generation
- Internal Photocells for automatic day/night intensity control
- · Integrated red filter for white/red light colour change between day and night time
- Orga Strobeline™ cable wiring system configuration combines power and control wires into a single protected cable
- · Lightweight and easy to install
- Level indicators provided to help with correct installation

Standards

Certified to:

Federal Aviation Administration AC 150 5345/43E Type L864/L865 & L885/866 obstacle light

- ICAO Annex 14 Volume 1, Third edition, July 1999, Chapter 6, Medium Intensity, Type A/B obstacle light
- Approved by: STNA of France DGAC of Mexico

Optical characteristics

- 20/40 (L864/865) flashes per minute (factory set as per table)
- 60/60 (L885/866) flashes per minute (factory set as per table)
- Automatic day/night intensity control by internal photocells
- Lens colour: Clear
- · Internal red filter for night time operation
- Horizontal beam pattern 360°
- Vertical beam pattern 3°
- · High accuracy Fresnel lens

Electrical characteristics

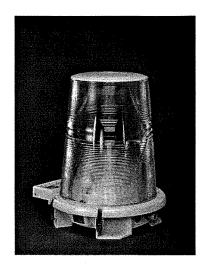
- 110 240 V_{AC} (±10%) 50/60 Hz operating voltage
- Power consumption (see table)
- Safety switches to disconnect power and discharge capacitors when unit opened
- A high voltage warning LED is provided
- Light "fail" remote monitoring output
- Failure indication LED
- Supplied with an Orga Strobeline™ combined power and data connection cable
- Two stage over voltage protection

Physical characteristics

- Polyurethane body
- IP67 degree of ingress protection (by design)
- Operating temperature range -55°C to +55°C
- Height 570 mm, diameter 425 mm
- Mounting holes at 240 x 240 mm
- Weight (excluding packaging) 12 kg
- Shipping dimensions: 700x550x750 mm / 16 kg

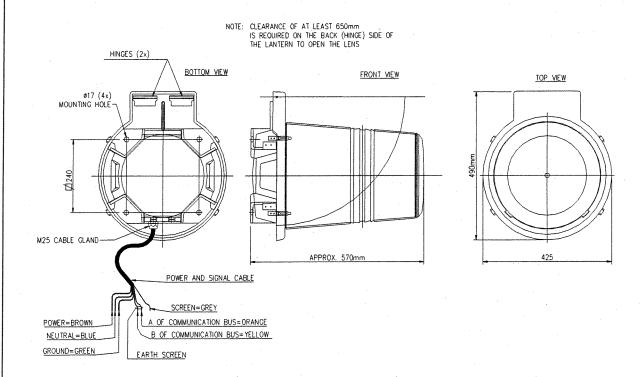
System Design, Control and Monitoring

- Combine L303-864/865 / L303-885/866 medium intensity lights with L1000 high intensity lights or L810 low intensity lights for optimum system design
- Connect L1000 high intensity, L303 & L350 medium intensity and L810 low intensity lights to a single CIP200 control unit
- Local and remote monitoring facilities provided by CIP200 or CIP100 controller
- No-Wire multiple system flash character synchronisation option with the GPS020
- Catenary crossing system configuration options available





Type numbering			Additional information						
L303-	Extension	Fl	ashes per min	Power consumption (W)			Comment		
L303-		Day	Twilight	Night	Day	Twi	Night	Connect	
L303-864/865		40	40	20	90	90	50	Standard configuration	
L303-864/865	D	40	40	20	90	90	50	Dual Lighting operation, according to FAA standards	
L303-885/866	·	60	60	60	135	135	75	Standard configuration	
L303-885/866	D	60	60	60	135	135	75	Dual Lighting operation, according to FAA standards	
	EMC							Additional EMC protection	



Appendix D Results of Water Sampling



Your Project #: 061218

Attention: Lori Williams

CBCL Limited 1489 Hollis St PO Box 606 Halifax, NS B3J 2R7

Report Date: 2006/05/23

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A645159 Received: 2006/05/15, 13:40

Sample Matrix: Water # Samples Received: 2

		Date	Date		Method
Analyses	Quantity	Extracted	Analyzed	Laboratory Method	Reference
Carbonate, Bicarbonate and Hydroxide	2	N/A	2006/05/16		_
Alkalinity ()	2	N/A	2006/05/18	2015_1_2	Based on EPA310.2
Chloride	2	N/A	2006/05/18	2045_1_2	Based on SM4500-Cl-
Colour	2	N/A	2006/05/18	2156_1_1	Based on EPA110.2
Conductance - water	2	N/A	2006/05/17	1013_1_2	Based on SM2510B
Hardness (calculated as CaCO3)	2	N/A	2006/05/16		
Total metals in water OES	2	N/A	2006/05/17	SOP 3120_2_1	Based on EPA200.7
Ion Balance (% Difference)	2	N/A	2006/05/16		
Anion and Cation Sum	2	N/A	2006/05/16		
Nitrogen Ammonia - water	2	N/A	2006/05/17	2105_1_2	Based on USEPA 350.1
Nitrogen - Nitrate + Nitrite ()	2	N/A	2006/05/18	2115_1_2	Based on EPA 353.1
pH ()	2	N/A	2006/05/17	1007_1_1/1011_1_2	Based on EPA150.1
Phosphorus - ortho ()	2	N/A	2006/05/18	2165_1_1	Based on USEPA 365.1
Sat. pH and Langelier Index (@ 20C)	2	N/A	2006/05/16		
Sat. pH and Langelier Index (@ 4C)	2	N/A	2006/05/16		
Reactive Silica ()	2	N/A	2006/05/18	2185_1_1	Based on EPA 366.0
Sulphate ()	2	N/A	2006/05/18	4065_1_2	Based on EPA 375.4
Total Dissolved Solids (TDS calc)	2	N/A	2006/05/16		
Organic carbon - Total (TOC) ()	2	N/A	2006/05/17	2020_1_3	Based on SM 5310C
Turbidity ()	2	N/A	2006/05/19	1040_2_4	based on EPA 180.1

(1) SCC/CAEAL



Your Project #: 061218

Attention: Lori Williams

CBCL Limited 1489 Hollis St PO Box 606 Halifax, NS B3J 2R7

Report Date: 2006/05/23

CERTIFICATE OF ANALYSIS

-2-

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MARIE MCNAIR, Project Manager Email: marie.mcnair.reports@maxxamanalytics.com Phone# (902) 420-0203

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. SCC and CAEAL have approved this reporting process and electronic report format.

Total cover pages: 2



Maxxam Job #: A645159 Report Date: 2006/05/23

CBCL Limited Client Project #: 061218 Project name: Sampler Initials:

ATLANTIC RCAP TOTAL METALS IN WATER (WATER)

Maxxam ID		M03293	M03299		
Sampling Date		2006/05/12	2006/05/12		
	Units	SAMPLE 1-TRIBUTARY	SAMPLE	RDL	QC Batch
		TO ROARING	2-ROARING RIVER		
		RIVER			
		1	ı		1
INORGANICS					
Total Alkalinity (Total as CaCO3)	mg/L	<5	<5	5	972891
Dissolved Chloride (CI)	mg/L	3	3	1	972892
Colour	TCU	6	<5	5	972895
Hardness (CaCO3)	mg/L	3	7	1	971277
Nitrate + Nitrite	mg/L	<0.05	0.23	0.05	973108
Nitrogen (Ammonia Nitrogen)	mg/L	<0.05	<0.05	0.05	972001
Total Organic Carbon (C)	mg/L	1.7	1.3	0.5	972443
Orthophosphate (P)	mg/L	<0.01	<0.01	0.01	972896
рН	рН	6.00	6.27	N/A	972266
Reactive Silica (SiO2)	mg/L	4.9	6.5	0.5	972894
Dissolved Sulphate (SO4)	mg/L	<2	2	2	972893
Turbidity	NTU	0.2	<0.1	0.1	973856
Conductivity	uS/cm	18	26	1	972285
RCAP CALCULATIONS					
Anion Sum	me/L	0.0784	0.146	N/A	971283
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	<1	<1	1	971272
Calculated TDS	mg/L	6	11	1	971292
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1	<1	1	971272
Cation Sum	me/L	0.162	0.243	N/A	971283
Ion Balance (% Difference)	%	34.8	24.8	N/A	971281
Langelier Index (@ 20C)	N/A	NC	NC	N/A	971287
Langelier Index (@ 4C)	N/A	NC	NC	N/A	971290
Saturation pH (@ 20C)	N/A	NC	NC	N/A	971287
Saturation pH (@ 4C)	N/A	NC	NC	N/A	971290
Elements (ICP-OES)					
Total Calcium (Ca)	mg/L	0.8	1.8	0.1	972194
Total Copper (Cu)	mg/L	<0.01	<0.01	0.01	972194
Total Iron (Fe)	mg/L	0.04	<0.02	0.02	972194
Total Magnesium (Mg)	mg/L	0.3	0.5	0.1	972194
Total Manganese (Mn)	mg/L	0.01	<0.01	0.01	972194
Total Manganese (Mn) NC = Non-calculable	mg/L	0.01	<0.01	0.01	9721

NC = Non-calculable RDL = Reportable Detection Limit QC Batch = Quality Control Batch



Maxxam Job #: A645159 Report Date: 2006/05/23 CBCL Limited Client Project #: 061218 Project name: Sampler Initials:

ATLANTIC RCAP TOTAL METALS IN WATER (WATER)

	M03293	M03299		
	2006/05/12	2006/05/12		
Units	SAMPLE 1-TRIBUTARY TO ROARING RIVER	SAMPLE 2-ROARING RIVER	RDL	QC Batch
mg/L	0.3	0.3	0.1	972194
mg/L	2.0	2.3	0.1	972194
mg/L	<0.05	<0.05	0.05	972194
	mg/L mg/L	2006/05/12	2006/05/12 2006/05/12	2006/05/12 2006/05/12





Maxxam Job #: A645159 Report Date: 2006/05/23

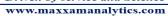
CBCL Limited Client Project #: 061218 Project name: Sampler Initials:

GENERAL COMMENTS

Sample M03293-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample M03299-01: RCAp Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Results relate only to the items tested.





CBCL Limited Attention: Lori Williams Client Project #: 061218

P.O. #: Project name:

Quality Assurance Report Maxxam Job Number: DA645159

QA/QC			Date				
Batch	OC Type	Doromotor	Analyzed	Value	Page yenr	Linita	OC Limi
Num Init 972001 MCN	QC Type MATRIX SPIKE	Parameter Nitrogen (Ammonia Nitrogen)	yyyy/mm/dd 2006/05/17	Value	Recovery 98	Units %	QC Limi 80 - 12
9/2001 MCN	QC STANDARD	Nitrogen (Ammonia Nitrogen) Nitrogen (Ammonia Nitrogen)	2006/05/17		102	% %	80 - 12 80 - 12
	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2006/05/17		99	%	80 - 12
	Method Blank	3 ·	2006/05/17	< 0.05	99		6U - 12
	RPD	Nitrogen (Ammonia Nitrogen)				mg/L	,
070404 MI D		Nitrogen (Ammonia Nitrogen)	2006/05/17	NC	05	%	00 4
972194 MLB	MATRIX SPIKE	Total Calcium (Ca)	2006/05/17		95	%	80 - 12
		Total Copper (Cu)	2006/05/17		95 70 (1)	%	80 - 12
		Total Iron (Fe)	2006/05/17		79 (1)		80 - 12
		Total Magnesium (Mg)	2006/05/17		97	%	80 - 12
		Total Manganese (Mn)	2006/05/17		94	%	80 - 12
		Total Potassium (K)	2006/05/17		97	%	80 - 12
		Total Sodium (Na)	2006/05/17		98	%	80 - 1
		Total Zinc (Zn)	2006/05/17		90	%	80 - 1
	QC STANDARD	Total Calcium (Ca)	2006/05/17		109	%	80 - 1
		Total Copper (Cu)	2006/05/17		112	%	80 - 1
		Total Iron (Fe)	2006/05/17		102	%	80 - 1
		Total Magnesium (Mg)	2006/05/17		104	%	80 - 1
		Total Manganese (Mn)	2006/05/17		103	%	80 - 1
		Total Potassium (K)	2006/05/17		102	%	80 - 1
		Total Sodium (Na)	2006/05/17		108	%	80 - 1
		Total Zinc (Zn)	2006/05/17		102	%	80 - 1
	Spiked Blank	Total Calcium (Ca)	2006/05/17		101	%	80 - 1
		Total Copper (Cu)	2006/05/17		95	%	80 - 1
		Total Iron (Fe)	2006/05/17		93	%	80 - 1
		Total Magnesium (Mg)	2006/05/17		100	%	80 - 1
		Total Manganese (Mn)	2006/05/17		94	%	80 - 1
		Total Potassium (K)	2006/05/17		97	%	80 - 1
		Total Sodium (Na)	2006/05/17		100	%	80 - 1
		Total Zinc (Zn)	2006/05/17		90	%	80 - 1
	Method Blank	Total Calcium (Ca)	2006/05/17	<0.1		mg/L	
		Total Copper (Cu)	2006/05/17	< 0.01		mg/L	
		Total Iron (Fe)	2006/05/17	< 0.02		mg/L	
		Total Magnesium (Mg)	2006/05/17	<0.1		mg/L	
		Total Manganese (Mn)	2006/05/17	< 0.01		mg/L	
		Total Potassium (K)	2006/05/17	<0.1		mg/L	
		Total Sodium (Na)	2006/05/17	<0.1		mg/L	
		Total Zinc (Zn)	2006/05/17	< 0.05		mg/L	
	RPD	Total Calcium (Ca)	2006/05/17	1.7		%	
		Total Magnesium (Mg)	2006/05/17	1.6		%	
		Total Potassium (K)	2006/05/17	3.8		%	
		Total Sodium (Na)	2006/05/17	1.7		%	
972266 ARS	QC STANDARD	pH	2006/05/17		101	%	80 - 1
7, 2200 7 11 10	Method Blank	pH	2006/05/17	5.55		pΗ	00 1
72285 ARS	QC STANDARD	Conductivity	2006/05/17	0.00	103	%	80 - 1
77 2200 7 11 10	Method Blank	Conductivity	2006/05/17	0.58	100	uS/cm	00 1
	RPD	Conductivity	2006/05/17	1.8		%	
72443 CRA	MATRIX SPIKE	Total Organic Carbon (C)	2006/05/17	1.0	95	%	75 - 1
11 2443 UNA	QC STANDARD	Total Organic Carbon (C)	2006/05/17		95 95	% %	80 - 1
	Spiked Blank		2006/05/17		108	%	75 - 1
	•	Total Organic Carbon (C)		-0 E	106		15-1
	Method Blank	Total Organic Carbon (C)	2006/05/17	<0.5		mg/L	
70004 18481	RPD	Total Organic Carbon (C)	2006/05/17	NC	NO	%	00 1
72891 JMN	MATRIX SPIKE	Total Alkalinity (Total as CaCO3)	2006/05/18		NC	%	80 - 1
	QC STANDARD	Total Alkalinity (Total as CaCO3)	2006/05/18		102	%	80 - 1
	Spiked Blank	Total Alkalinity (Total as CaCO3)	2006/05/18	_	100	%	80 - 1
	Method Blank	Total Alkalinity (Total as CaCO3)	2006/05/18	<5		mg/L	
	RPD	Total Alkalinity (Total as CaCO3)	2006/05/18	0.9		%	2





CBCL Limited Attention: Lori Williams Client Project #: 061218

P.O. #: Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: DA645159

QA/QC			Date				
Batch			Analyzed				
Num Init	QC Type	Parameter	yyyy/mm/dd	Value	Recovery	Units	QC Limits
972892 JMN	MATRIX SPIKE	Dissolved Chloride (CI)	2006/05/18		NC	%	80 - 120
	QC STANDARD	Dissolved Chloride (CI)	2006/05/18		104	%	80 - 120
	Spiked Blank	Dissolved Chloride (CI)	2006/05/18		103	%	80 - 120
	Method Blank	Dissolved Chloride (CI)	2006/05/18	<1		mg/L	
	RPD	Dissolved Chloride (CI)	2006/05/18	0.7		%	25
972893 JMN	MATRIX SPIKE	Dissolved Sulphate (SO4)	2006/05/18		112	%	80 - 120
	QC STANDARD	Dissolved Sulphate (SO4)	2006/05/18		105	%	80 - 120
	Spiked Blank	Dissolved Sulphate (SO4)	2006/05/18		106	%	80 - 120
	Method Blank	Dissolved Sulphate (SO4)	2006/05/18	<2		mg/L	
	RPD	Dissolved Sulphate (SO4)	2006/05/18	0.06		%	25
972894 JMN	MATRIX SPIKE	Reactive Silica (SiO2)	2006/05/18		97	%	80 - 120
	QC STANDARD	Reactive Silica (SiO2)	2006/05/18		105	%	75 - 125
	Spiked Blank	Reactive Silica (SiO2)	2006/05/18		100	%	80 - 120
	Method Blank	Reactive Silica (SiO2)	2006/05/18	< 0.5		mg/L	
	RPD	Reactive Silica (SiO2)	2006/05/18	2.5		%	25
972895 JMN	QC STANDARD	Colour	2006/05/18		104	%	80 - 120
	Method Blank	Colour	2006/05/18	<5		TCU	
	RPD	Colour	2006/05/18	NC		%	25
972896 JMN	MATRIX SPIKE	Orthophosphate (P)	2006/05/18		93	%	80 - 120
	QC STANDARD	Orthophosphate (P)	2006/05/18		103	%	80 - 120
	Spiked Blank	Orthophosphate (P)	2006/05/18		106	%	80 - 120
	Method Blank	Orthophosphate (P)	2006/05/18	< 0.01		mg/L	
	RPD	Orthophosphate (P)	2006/05/18	NC		%	25
973108 MCN	MATRIX SPIKE	Nitrate + Nitrite	2006/05/18		103	%	80 - 120
	QC STANDARD	Nitrate + Nitrite	2006/05/18		98	%	80 - 120
	Spiked Blank	Nitrate + Nitrite	2006/05/18		99	%	80 - 120
	Method Blank	Nitrate + Nitrite	2006/05/18	< 0.05		mg/L	
	RPD	Nitrate + Nitrite	2006/05/18	1.9		%	25
973856 ARS	QC STANDARD	Turbidity	2006/05/19		97	%	80 - 120
	Method Blank	Turbidity	2006/05/19	<0.1		NTU	
	RPD	Turbidity	2006/05/19	14.6		%	25

NC = Non-calculable RPD = Relative Percent Difference

QC Standard = Quality Control Standard

SPIKE = Fortified sample

1)

Appendix E Registration of Higgins Family Cemetery

MARITIME ARCHAEOLOGICAL **RESOURCE INVENTORY**

Date Form Filled Out (YYYY/MM/DD)

2006/05/09

NB NS PEI \bigcirc

A.	SITE NAME, LOCATION AND ACCESS	
A1	Suggested site NAME Higgins Family Cemetery	
A2	2 TEMPORARY SITE NUMBER A2006NS34	
А3	PERMIT/LICENSE NUMBER A2006NS34-01	
A4	PERMIT/LICENSE TYPE Category C	沙 斯 美加加
A5	WHEN DID YOU GATHER THE INFORMATION FOR THIS REPORT	
	2006/05/04 through 2006/05/09	
A6	Additional Information and/or Resources:	
	Submitted Available Video Footage Maps / Plans Still Photos Drawings Archival Information Artifacts Articles Contacts Other	
A7	a) Surface collecting b) Surface recording c) Site Revisit b) Subsurface testing c) Extensive excavation d) Monitoring e) Surveillance	
A 8	County Cumberland	
Α9	D LOCATION DESCRIPTION	

Located on east side of Higgins Mountain Road, approximately 5 m from the roadway in a low bush blueberry field.

LOCATION ACCESS A10

From Truro, travel northward on the Cobequid Pass to exit 8. Turning at exit 8, travel eastward along Collingwood Road approximately 5.5 km to the Valley Road (on the right). Travel Valley Road approximately 1.7 km to Higgins Mountain Road (on the right or south). The cemetery is located approximately 3.0 km from the junction of Valley Road and Higgins Mountain Road, on the east side of Higgins Mountain Road.

A12		(Attach photocopied section of a larger scale map and show that the map number and scale is indicated) Scale:
A13	SITE POSITION	
	UTM (eg. 20TKE 1447 5362) Zone 2	20T E 451162 N 5049315
	Latitude 45 35 '. 740	N Longitude 63 37 570 W
A14	and a second disconsistence and the second s	on.
	Projection	Datum NAD83
	GPS estimated error <a> <a>10 m	Total Station
	Differential GPS	Estimate from description
	Map (scale =1:) Aerial Photo (scale =1:)	Other (please specify)
A15	SITE ELEVATION	
	Elevation 290	m. (A.S.L.) to 300 m. (A.S.L.)
A16	METHOD(S) OF DETERMINING ELEVATION	
7110		Datum NAD83
	Projection UTM	IVAD63
	GPS Differential CPS	Total Station
	Differential GPS Map (scale =1:)	Geodetic Marker (#)
	Aerial Photo (scale =1:	1686)
	Other (please specify)	
A17	OTHER MAP(S)	
A18	AERIAL PHOTO NUMBER(S)	
A19	PROPERTY IDENTIFIER NUMBER(S)	
A20	PROPERTY TYPE Private Federal Crown	Provincial Crown First Nation Land Unknown
A21	NEAREST FIRST NATION COMMUNITY (if applicable)	WA`
	Contacted ? Yes	No
В.	SITE ENVIRONMENT	
ь.	SITE ENVIRONMENT	
B1	NATURAL REGION # (Provincial) 581	NATURAL REGION# (Federal)
B2	HABITAT DESCRIPTION (please check those appropr	ate)
		- · · · · · · · · · · · · · · · · · · ·
	Offshore	Freshwater
	Offshore 1.1 Open Water	3.1 Open-Water Lotic (Rivers and Streams)
		3.1 Open-Water Lotic (Rivers and Streams) 3.2 Open-Water Lentic (Lakes and Ponds) 3.3 Rottom Lotic (Rivers and Streams)
	1.1 Open Water 1.2 Benthic Coastal	3.1 Open-Water Lotic (Rivers and Streams) 3.2 Open-Water Lentic (Lakes and Ponds) 3.3 Bottom Lotic (Rivers and Streams) 3.4 Bottom Lentic (Lakes and Ponds)
	1.1 Open Water 1.2 Benthic Coastal 2.1 People Share	3.1 Open-Water Lotic (Rivers and Streams) 3.2 Open-Water Lentic (Lakes and Ponds) 3.3 Bottom Lotic (Rivers and Streams) 3.4 Bottom Lentic (Lakes and Ponds) 3.5 Water's Edge Lotic (Rivers and Streams)
	1.1 Open Water 1.2 Benthic Coastal 2.1 People Share	3.1 Open-Water Lotic (Rivers and Streams) 3.2 Open-Water Lentic (Lakes and Ponds) 3.3 Bottom Lotic (Rivers and Streams) 3.4 Bottom Lentic (Lakes and Ponds) 3.5 Water's Edge Lotic (Rivers and Streams) 3.6 Water's Edge Lentic (Lakes and Ponds)
	1.1 Open Water 1.2 Benthic Coastal 2.1 People Share	3.1 Open-Water Lotic (Rivers and Streams) 3.2 Open-Water Lentic (Lakes and Ponds) 3.3 Bottom Lotic (Rivers and Streams) 3.4 Bottom Lentic (Lakes and Ponds) 3.5 Water's Edge Lotic (Rivers and Streams) 3.6 Water's Edge Lentic (Lakes and Ponds)
	1.1 Open Water 1.2 Benthic Coastal 2.1 People Share	3.1 Open-Water Lotic (Rivers and Streams) 3.2 Open-Water Lentic (Lakes and Ponds) 3.3 Bottom Lotic (Rivers and Streams) 3.4 Bottom Lentic (Lakes and Ponds) 3.5 Water's Edge Lotic (Rivers and Streams) 3.6 Water's Edge Lentic (Lakes and Ponds)
	1.1 Open Water 1.2 Benthic Coastal 2.1 Rocky Shore 2.2 Boulder/Cobble Shore 2.3 Sandy Shore 2.4 Mud Flat	3.1 Open-Water Lotic (Rivers and Streams) 3.2 Open-Water Lentic (Lakes and Ponds) 3.3 Bottom Lotic (Rivers and Streams) 3.4 Bottom Lentic (Lakes and Ponds) 3.5 Water's Edge Lotic (Rivers and Streams) 3.6 Water's Edge Lentic (Lakes and Ponds)
	1.1 Open Water 1.2 Benthic Coastal 2.1 People Share	3.1 Open-Water Lotic (Rivers and Streams) 3.2 Open-Water Lentic (Lakes and Ponds) 3.3 Bottom Lotic (Rivers and Streams) 3.4 Bottom Lentic (Lakes and Ponds) 3.5 Water's Edge Lotic (Rivers and Streams) 3.6 Water's Edge Lentic (Lakes and Ponds)
	1.1 Open Water 1.2 Benthic Coastal 2.1 Rocky Shore 2.2 Boulder/Cobble Shore 2.3 Sandy Shore 2.4 Mud Flat 2.5 Tidal Marsh 2.6 Dune System Terrestrial Unforested	3.1 Open-Water Lotic (Rivers and Streams) 3.2 Open-Water Lentic (Lakes and Ponds) 3.3 Bottom Lotic (Rivers and Streams) 3.4 Bottom Lentic (Lakes and Ponds) 3.5 Water's Edge Lotic (Rivers and Streams) 3.6 Water's Edge Lentic (Lakes and Ponds) Freshwater Wetland 4.1 Bog 4.2 Fen 4.3 Swamp
	1.1 Open Water 1.2 Benthic Coastal 2.1 Rocky Shore 2.2 Boulder/Cobble Shore 2.3 Sandy Shore 2.4 Mud Flat 2.5 Tidal Marsh 2.6 Dune System Terrestrial Unforested 5.1 Barren	3.1 Open-Water Lotic (Rivers and Streams) 3.2 Open-Water Lentic (Lakes and Ponds) 3.3 Bottom Lotic (Rivers and Streams) 3.4 Bottom Lentic (Lakes and Ponds) 3.5 Water's Edge Lotic (Rivers and Streams) 3.6 Water's Edge Lentic (Lakes and Ponds) Freshwater Wetland 4.1 Bog 4.2 Fen 4.3 Swamp 4.4 Freshwater Marsh (Inland)
	1.1 Open Water 1.2 Benthic Coastal 2.1 Rocky Shore 2.2 Boulder/Cobble Shore 2.3 Sandy Shore 2.4 Mud Flat 2.5 Tidal Marsh 2.6 Dune System Terrestrial Unforested 5.1 Barren 5.2 Oldfield	3.1 Open-Water Lotic (Rivers and Streams) 3.2 Open-Water Lentic (Lakes and Ponds) 3.3 Bottom Lotic (Rivers and Streams) 3.4 Bottom Lentic (Lakes and Ponds) 3.5 Water's Edge Lotic (Rivers and Streams) 3.6 Water's Edge Lentic (Lakes and Ponds) Freshwater Wetland 4.1 Bog 4.2 Fen 4.3 Swamp 4.4 Freshwater Marsh (Inland) Forests 6.1 Hardwood Forest
	1.1 Open Water 1.2 Benthic Coastal 2.1 Rocky Shore 2.2 Boulder/Cobble Shore 2.3 Sandy Shore 2.4 Mud Flat 2.5 Tidal Marsh 2.6 Dune System Terrestrial Unforested 5.1 Barren	3.1 Open-Water Lotic (Rivers and Streams) 3.2 Open-Water Lentic (Lakes and Ponds) 3.3 Bottom Lotic (Rivers and Streams) 3.4 Bottom Lentic (Lakes and Ponds) 3.5 Water's Edge Lotic (Rivers and Streams) 3.6 Water's Edge Lentic (Lakes and Ponds) Freshwater Wetland 4.1 Bog 4.2 Fen 4.3 Swamp 4.4 Freshwater Marsh (Inland) Forests 6.1 Hardwood Forest 6.2 Softwood Forest
	1.1 Open Water 1.2 Benthic Coastal 2.1 Rocky Shore 2.2 Boulder/Cobble Shore 2.3 Sandy Shore 2.4 Mud Flat 2.5 Tidal Marsh 2.6 Dune System Terrestrial Unforested 5.1 Barren 5.2 Oldfield 5.3 Cliff and Bank	3.1 Open-Water Lotic (Rivers and Streams) 3.2 Open-Water Lentic (Lakes and Ponds) 3.3 Bottom Lotic (Rivers and Streams) 3.4 Bottom Lentic (Lakes and Ponds) 3.5 Water's Edge Lotic (Rivers and Streams) 3.6 Water's Edge Lentic (Lakes and Ponds) Freshwater Wetland 4.1 Bog 4.2 Fen 4.3 Swamp 4.4 Freshwater Marsh (Inland) Forests 6.1 Hardwood Forest

C1	Period				
	Palaeo-Indian (> 9000 BP) Early/Middle Archaic (9000 - Late Archaic (6000 - 3000 B Maritime Woodland (3000 -	P)	Contact (150) Colonial (160) Early Post-Co Other	0 - 1604) 4 - 1867) onfederation (1867 to 1950)	
	Basis of identification				a
	Three burials indicated or	n gravestone marker datin	g between 1875 and 1882	2.	
C2	TRADITION				
 	Palaeo-Indian Early/Middle Maritime Archaic Laurentian Archaic Late Maritime Archaic Susquehanna Early Maritime Woodland Other		quody	Jamaican Maroon Planter Loyalist Black Loyalist German Irish Unspecified	
26	SITE FUNCTION				
	Aeroplane Agricultural Commercial Construction Extractive Fishing Forestry	General Activ Hunting & Ga Manufacturin Military Mining Miscellaneou	athering g	Religious/Sacred Residence Settlement Transportation Undetermined Vessel	
			Burial		
C7	GENERAL SITE DESCRIPTION			*	
	of Joshua Higgins); Josh aged 73 yrs.). A double	ua Higgins (d. 18 Jan. 18 and two single burial plots	78, aged 66 yrs.); and Jos	Sept. 1875, aged 23 yrs., da hua Higgins (d. 13 Oct. 188 reast of the marker. At lea field stone head marker.	32,
C8	OBSERVED SITE DIMENSIONS	Length 20 m	Width 20 m		
;9	ESTIMATED SITE DIMENSIONS	Length ? m	Width ? m		
;10	DISTANCE TO WATER1200	_ m			
C11	ORIENTATION TO WATER	Perpendicular	Parallel	Not applicable	

C.

SITE DESCRIPTION

C12 DESTRUCTIVE AGENTS High Medium Low Existing Natural **Future** Existing **Future** Existing Future Marine Erosion Lacustrine Erosion Vegetation Growth Bioturbation Existing Future b Cultural Existing Future Existing Future Agriculture Construction Transportation Forestry Mining/Quarrying

BASIS OF ASSESSMENT

Dam/reservoir Vandalism Site Visitation Military Other

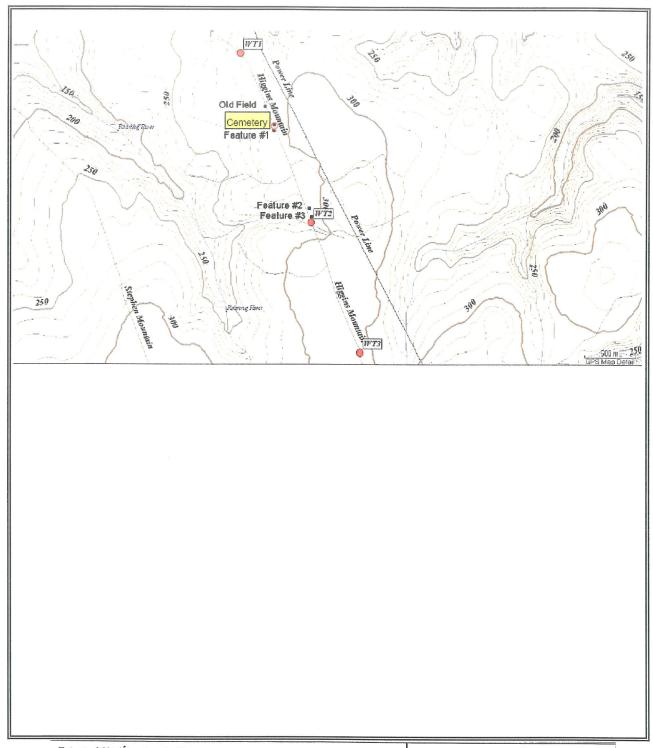
Ground cover is under cultivation but there does not appear to be any threat of impact to the burials. The cemetery is located approximately 765 metres south of a proposed wind turbine, and is well outside the impact area.

REPORTER INFORM				100000000000000000000000000000000000000			
REPORTER'S NAME	April MacIntyre		Maria de la compansión de				· · · · · · · · · · · · · · · · · · ·
Mailing Address	c/o 6519 Oak Stree	et Halifax, NS	8		D3 Posta	AL CODE	B3L 1H6
PHONE (H)	(902) 422-0801		D5	PHONE (W)	(902) 402-4441	1	and the second s
FAX	(902) 444-2854		D7	E-MAIL	darch@eastlinl	k.ca	
AFFILIATION	Davis Archaeologic	al Consultant	s Limited	d			
How did you find the	SITE?						
Chance Find Map Or Chart		Field Survey Historical Re	, esearch			Contacts	
Comments				-			
Comments This cemetery is n	ot recorded on historic y for this area (see DA	maps and no	o informa		ound in historic d	locume	nts during th
Comments This cemetery is n		maps and no	o informa		ound in historic d	locume	nts during th
This cemetery is n initial desktop stud		maps and no	o informa		ound in historic d	locume	nts during th
Comments This cemetery is n initial desktop stud		maps and no	o informa		ound in historic d	locume	nts during th

SITE PLAN

Ε

Please provide a drawing or sketch of the site, indicating prominent features, the orientation of the site and overall dimension, including artifact scatter fields. Relate the location of features in the Site Plan with features identified in the Site Access Map. Note the direction of true North and the scale of the plan.



Extent of Site/Etendue du Site	1:50,000 Map No./Carte No
Building/Édifice	
Foundation/Fondation	True/Vrai []
Road/Chemin	Magnetic/Magnetique []
Trail/Sentir	
Railway/Voie Ferrée + + + + + + + + + + + + + + + + + + +	Date
Fence/Cloture —— X—— X—— X——	Scale/Echelle 1cm=m.
River-Creek/Riviére-Ruisseau	
Steep Rise/Pente Abrupte	