

Legend
 PDA

0 250 500 Metres
 (At original document size of 8.5x11)
 1:31,000



Project Location
 Halifax Regional Municipality,
 Nova Scotia

Prepared by SCHubbs on 2024-04-18

Client/Project
 Halifax Regional Municipality
 Future Serviced Communities
 Background Studies

Fig ID: 160410459_048

Figure No.

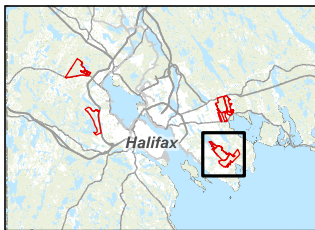
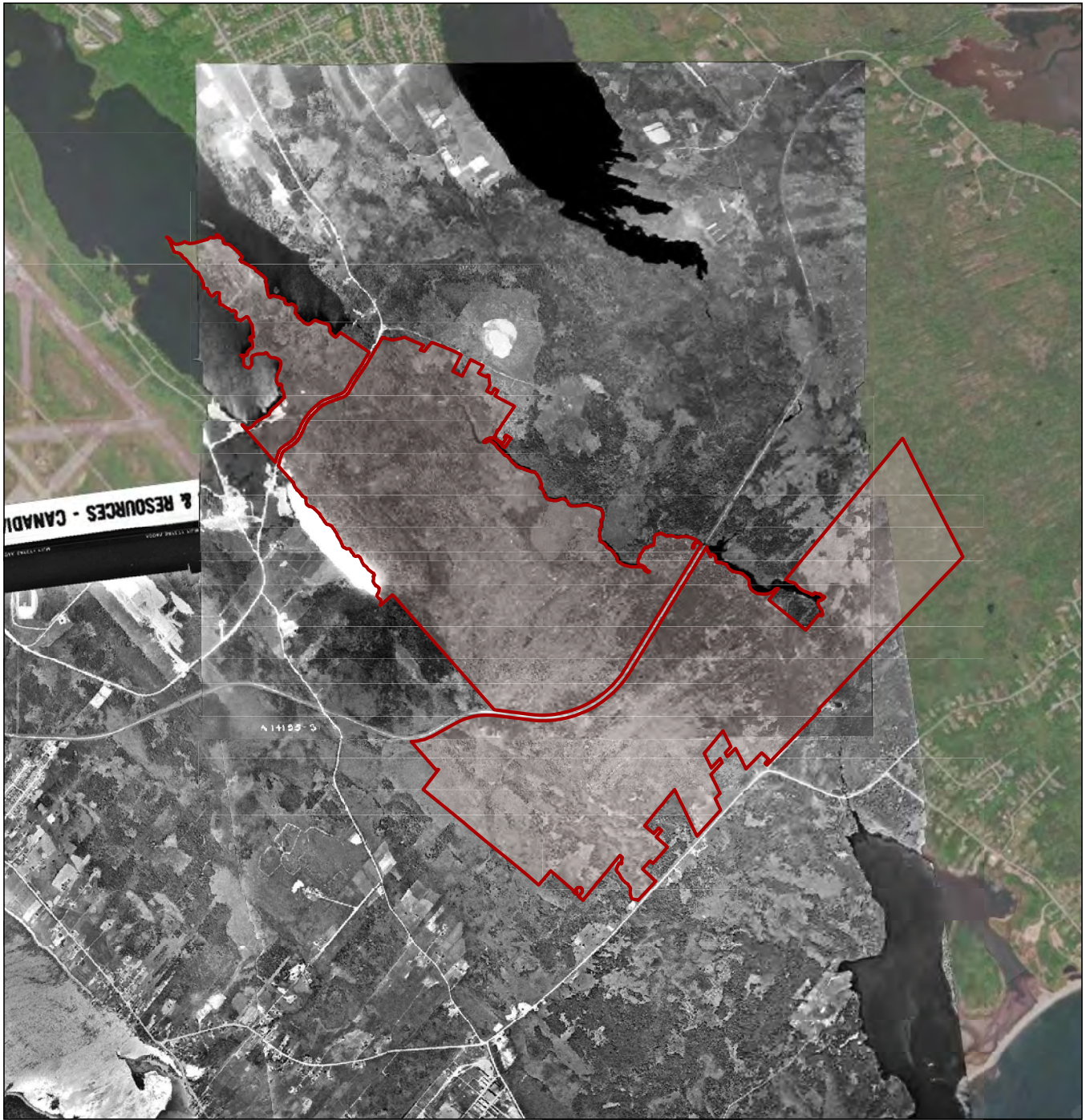
9

Title

Aerial Photograph 1945

Notes

1. Coordinate System: NAD 1983 CSRS UTM Zone 20N
2. Data Sources: Government of Nova Scotia, Department of Service Nova Scotia and Internal Services
3. Background: Government of Nova Scotia, Department of Service Nova Scotia and Internal Services



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Figure No.
10
Title

Aerial Photograph 1954

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 1. Coordinate System: NAD 1983 CSRS UTM Zone 20N
 2. Data Sources: Government of Nova Scotia, Department of Service Nova Scotia and Internal Services
 3. Background: Government of Nova Scotia, Department of Service Nova Scotia and Internal Services

APPENDIX B

Photographs

A2023NS168	
	Photo 1 View southeast at conditions encountered at MPR-ARCH-265
	Photo 2 View east from JRK-ARCH-209 at the identified medium potential area JRK-POLY-016
	Photo 3 View northeast at an old road or ATV trail encountered at MPR-ARCH-266
	Photo 4 View southwest from MPR-ARCH-266 at a deer blind encounter along the old road

A2023NS168	
	Photo 5 View north of the Cow Bay River from the west bank at MPR-ARCH2-267
	Photo 6 View southeast of the flooded-out area encountered at MPR-ARCH-267
	Photo 7 View north of beaver dam encountered at MPR-ARCH-269
	Photo 8 View north from JRK-ARCH-210 of the identified medium potential area JRK-POLY-020 located between the old trail and the Cow Bay River

A2023NS168	
	Photo 9 View south at a bedrock oxbow feature or slight bend in the river, taken from JRK-ARCH-210
	Photo 10 View north from MPR-ARCH-272 at the very rocky surface conditions encountered along the river
	Photo 11 View south or the mainly slate bedrock and boulders encountered along the Cow Bay River at MPR-ARCH-272
	Photo 12 View northwest from MRP-ARCH-273 of wet conditions encountered

A2023NS168	
	Photo 13 View southwest from MPR-ARCH-273 at a flooded-out section of the river from beaver activity within the area
	Photo 14 View north at JRK-ARCH-213 at surface conditions encountered along the east bank of the Cow Bay River
	Photo 15 View southwest from CKM-ARCH-166 of the low wet area encountered along the east bank of the Cow Bay River
	Photo 16 View east at JRK-ARCH-214 at a small drainage running east off the Cow Bay River along a higher boulder swale

A2023NS168	
	
Photo 17 View south at CKM-ARCH-167 showing a rocky boulder swale encountered along the river on the east bank	Photo 18 View east of a branch of the Cow Bay River encountered at JRK-ARCK-215
	
Photo 19 View north from JRK-ARCH-215 at the Cow Bay River	Photo 20 View west from JRK-ARCH-217 at the northern end of De Said Lake

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Photo 21 View east up slope from CKM-ARCH-171 showing surface conditions encountered during the walkover	Photo 22 View north at a potential fox hole or trench feature encountered at CKM-ARCH-172 with 20 cm scale
	
Photo 23 View south at forest and surface conditions encountered at JRK-ARCH-218	Photo 24 View east at the remains of an abandoned camp encountered at assessment note JRK-ARCH-219

A2023NS168	
	Photo 25 View west at the trail from the lake to an abandoned camp encountered at assessment note JRK-ARCH-219
	Photo 26 View north of the entrance of Smelt Brook which flows out from the southern end of De Said Lake at CKM-ARCH-174
	Photo 27 View south of Smelt Brook at the southern end of De Said Lake and being a low wetland environment at CKM-ARCH-174
	Photo 28 View south at JRK-ARCH-220 of the boggy wetland encountered along Smelt Brook

A2023NS168	
	
Photo 29 View west from JRK-ARCH-220 at the east bank of Smelt Brook from the foot of the former CNR bridge	Photo 30 View northwest at the bridge for the former CNR rail line taken at assessment note JRK-ARCH-220
	
Photo 31 View south at JKR-ARCH-221 of conditions encountered whilst walking south along both banks of Smelt Brook	Photo 32 View west at JKR-ARCH-221 of conditions encountered along Smelt Brook

A2023NS168	
	Photo 33 View west from CKM-ARCH-177 of conditions encountered along Smelt Brook
	Photo 34 View north of the confluence of Smelt Brook near a deer crossing at JRK-ARCH-222
	Photo 35 View west at the deer blind identified at JRK-ARCH-223 near a deer crossing
	Photo 36 View south from CKM-ARCH-177 showing conditions encountered at the lower end of Smelt Brook

APPENDIX E

NSNRR-Old Growth Forest Criteria

Table C.1 Old-Growth Forest Community Comparisons from Other Jurisdictions

Nova Scotia FEC Forest Group	Nova Scotia FEC Vegetation Types	Nova Scotia Old Growth Age-of-Onset (years)	ON ^a General Species Association	ON ^a Old Growth Age-of-Onset (years)	Minnesota ^b Old-Growth Forest Types	Minnesota ^b Old Growth Age-of-Onset (years)
Tolerant Hardwood	TH1, TH2, TH3, TH4, TH5, TH6, TH7, TH8	140	Hard Maple Yellow Birch Red Oak	120-140 150-160 110-120	Northern Hardwood Forests	120
Spruce-Hemlock	SH3, SH4, SH5, SH6, SH7	125	White Spruce	110-130	White Spruce Forests	90
Spruce-Hemlock	SH1, SH2	140	Hemlock	140-180	n/a	
Mixedwood	MW1, MW2, MW3	125	Yellow Birch Soft Maple Hemlock	150-160 80-120 140-180	Oak Forests	120
Spruce-Pine	SP4, SP5, SP7, SP9	125	White Pine Black Spruce	130-150 90-150	Red and White Pine Forests ^c	
Cedar	CE1	100	White Cedar	100-150	Upland White Cedar Forests	120
Wet Coniferous	WC1, WC2, WC5, WC8	100	Black Spruce	90-150	n/a	
Coastal	CO1, CO4	100	Black Spruce Balsam Fir	90-150 70-80	n/a	
Coastal	CO3, CO5, CO6	125	White Birch Soft Maple	90-110 80-120	n/a	
Highland	HL1, HL2	100	n/a		n/a	
Highland	HL3, HL4	140	Yellow Birch	150-160	n/a	
Wet Deciduous	WD3, WD4, WD6, WD8	115	Soft Maple	80-120	Lowland Hardwood Forests	120
Floodplain	FP1, FP2, FP3	125	Hard Maple Soft Maple Red Oak	120-140 80-120 110-120	Lowland Hardwood Forests	120
Karst	KA1, KA2	125	Hemlock	140-180	n/a	

a – Uhlig et al. (2001)

b – Minnesota DNR (2021)

c – Minnesota DNR (1989)

Table C.2 Maximum longevity for dominant tree species associated with the forest groups (and vegetation types) included in Nova Scotia's old-growth forest definition

Tree Species	Literature Max age ^{ab}	Literature Max age – 50%	L&F database Max age ^{cde}
Eastern Hemlock	800	400	520
Red Spruce	400	200	335
White Pine	450	225	288
Black Spruce	250	125	277
Black Spruce Coastal	250	125	150
Balsam Fir	200	100	160
Sugar Maple	400	200	276
Yellow Birch	366	183	370
Red Oak	400	200	205
Red Maple	300	150	188

a – Burns and Honkala (1990).

b – Loehle (1987).

c – Natural Resources and Renewables Permanent Sample Plot Database

d – Natural Resources and Renewables Forest Ecosystem Classification Plot Database

e – Natural Resources and Renewables Old-Forest Research Plot Database