

Community # 18

Dec 3 2010
Swamp (palustrine)

H - FRAXIN - D; POPULRE
ts - FRAXIN

Soil mineral ?

Photos - 9068, 9069, 9070

Open water - 0%

Fish habitat - no

photo # -

Dec 3 2010

Community #19 Swamp palustrine

C - cedar⁰, balsam fir⁰, white spruce⁰
H - POPEL⁰, POPULUS⁰, FRAX⁰, PEN⁰

Soil mineral?

Photos - 9071

Open water 0%

Fish habitat - no

Community # 20

Dec 3 2010

H - Ash (FRAX PEN)

Swamp (palustris)

(- White cedar.

Soil - mineral?

Photo #s 9072, 9073

Open water - 0%

Fish habitat - no

* Observed 2 SEOW hunting
in open field N side of Morphel
sideroad W of Mcleans Mtn Road.

P. 107 10

McLennan Mtn Wetlands

Jan 7 2011

Community/Unit 1

Turbine 18044 area

Marsh (palustrine)

photo's
9096 - 9100

fr - common cattail

ts - speckled alder, red osier dogwood

ls - ~~red osier dogwood~~

soil - not sampled due to ground conditions
open water - < 5%

Beaver Dam present

Fish habitat - unlikely

south open field photographs
9101 - 9105
GPS 144

McLean's Mtn Wetlands
Community / Unit 2

p. 2 of 10

Jan 7 '11

Turbine 18044 area

Mixed swamp (palustrine)

photos
9106-9107

- * C - *Thuja occ*, *Larix laricina*, *Abies balsamea*
- h - *Populus balsamifera*, *Populus trichocarpa*
- ts - *Alnus incana*, red osier dogwood
- ~~ts - red osier dogwood~~

soil - not sampled due to ground conditions
open water - none
fish habitat - no

GPS 145 - ground water
outflow possibly from
wetland above ridge

wildlife
BCCIT

Melenns Mtn Wetlands
Community/Unit 3

p. 3 of 10

Jan 7 '11

Turbid 18044 area

Mixed Swamp (palustrine)

photos
9110-9112

* c - Thuja, Larix, Abies
h - Populus, Populus
ts - Alnus, redcedar
ps - ~~Populus~~

soil - not sampled due to ground conditions

open water - none

Fish habitat - no

GPS 147 - photo 9110

GPS 148 - photos 9111, 9112

McLennan Mtn Wetlands
Community / Unit 4

p. 4 of 10
Jan 7 '11

Turbine 13 044 area

Marsh (Palustrine)
*re-common cattail
*s - speckled alder

photos
9108-9109

soil - not sampled due to gravel conditions
open water - $\leq 5\%$
Beaver dam present
Fish habitat - unlikely

GPS 146 - outflow
from beaver dam

p 5 of 10

Jan 7 '11

McLeans Mtn Wetlands
Community / Unit 5

Greebush Rd W of Columbus Miss

Mixed swamp (palustrine)

photos 9113-9118

- * C - Thuja occ, PICE GLA,
- A - Populus, Frax nig
- ts - Alnus inc, red osier dogwood
- b, ~~red osier dogwood~~

soil - not sampled due to ground conditions
open water - <1%

Fish habitat - possible, flowing water at Greebush Road

Mcleans Mtn Wetlands

p 6 of 10

Jan 8 '11

Community/Unit 6

Turbine 7 & 8 area

Mixed swamp (Palustrine)

photos 9119, 9120
9124, 9125

* C - Thu occ, Abie bal
h - Pop bal, Pop tree

soil - not sampled due to ground conditions
open water - none
fish habitat - no

p. 7 A10

McLennan Mtn Wetlands

Jan 8'11

Community / Unit 7

Turbine 7 to B area

Deciduous swamp (palustrine)

photos 9121, 9122

* h - maple

ts - Alnus, red osier dogwood

* ts - red osier dogwood

soil - not sampled due to ground conditions

open water - none

fish habitat - no

McLean Park Wetlands

p. 8 of 10
Jan 9 11

Community / Unit 8

Turbine 70 & area

Deciduous SWT (palustrine)

photo 9123

* fs - Fraxinus sp (young), Alnus inc, maple sp (young)
ne - bulrushes

soil - not sampled due to ground conditions
open water - ~ 1%
fish habitat - no
Beaver feeding evidence

Turbine 30-34 area
- completed wetland boundary

GPS 149 - creek outflow from
beaver pond photos 9126-27

GPS 150 - small ground water seep

photos 9128-9130
beaver pond @ dam

p. 10 of 10

McLeans Mtn Wetlands

Jan 8 '11

Community/Unit 9

North E shore of Birch Lake

Dec SWT (Lacustrine)

photos

ne - bulrush, phalaris

9133 - 9136

* IS - sweet gale

dh - elm

ts - red osier dogwood

soil - not sampled due to ground conditions

open water - < 5%

fish habitat - unlikely

Beaver lodge present

McLeans Mtn Wetlands
Community/Unit 10

p. 10 of 10
Jan 8 '11
NE of Perch Lake.

Mixed swamp (palustrine)

photo 9137

* h - Poplar tree
c - , Thuja occ, Pice glau
ts - red osier dogwood

Soil - not sampled due to ground conditions
Open water - none
Fish habitat - no

wildlife - BLJA

Weather Conditions Jan 7th 09

Temp $\sim -10^{\circ}\text{C}$
Sun & Cloud
Occasional light snow
Wind B1-2

McLeans Mtn

May 4 2011

P.1 of 2

RLB

both sides

old McLeans Mtn

~1 km N of Greengully

Fri. Apr 22 2011, 8:00

Task # 091483

pt under project in survey

Note 2011 app. 1000
5000

Amph. 4 m 3 runs 57 hrs

17 / sunny

Weather

Cloud cover ~ 10%

Wind B-L

Temp 15°C

Guidos Sideroad Area 4:30 - 6:00

Wetland unit crossed by feeder line

- one dead NLFR on sideroad, west of wetland.

- egg mass photo 9867 - in vernal pool in road just west of wetland on north side of road

- at wetland Full chorus of SPPE in beaver pond on N side of Road & in Swamp on S side of road

- NLFR several individuals calling ~20 at minimum

- painted turtle & garter snake observed - AMBI vocalizing

- photo 9869 N wetland abundant snags

- fish observed.

SPPE full chorus calling from beaver ponds ~500 m south of Guidos S.R.

P. 2 of 2
McLeans Mtn May 4 2011 - May 5 2011

- snags present on Goidas Sideroad more abundant in proximity to wetlands but present elsewhere
- tree sizes not large, most are less than 30cm DBH
- no large stick nests or any stick nests observed, raptor feather collected & RUGA killed so raptor species may be present.

Short-eared owl Survey

20:10 - 21:10

McLeans Mtn Road ~ 1 km North of Greenbush observation point was small cattle corral

SEOW was observed for about 3 min. first on West side of McLeans Mtn Road then flew to East side of Road before flying out of site. at 20:55

SEOW was reported to be observed by Chris Bell Fri April 22, 3:45 to 20:00. in same location.

1 RLHA also observed. , late migrant.

McLean

McLeans Mt

Plot 5

May 5

Amphibian breeding evidence search

Large beaver pond in vicinity of Turbine 38 + road to 40 + 31
9.20 - 10.30

Full chorus of NLFR in pond/marsh
occasional SPPE calls ~20-30 individuals heard

Weather
no clouds
Temp 16°C
Wind B-1

- possible winter snake seen brown back pretty big for a garter snake.

- tadpoles observed likely green frog ~10
- 2 garter snakes observed below dam.

Habitat is suitable above beaver dam for frog breeding, below dam less suitable as water is flowing (Perch Creek) - some pooling / wide braided channel
- no eggs observed but NLFR & SPPE vocalizing & likely green frog tadpoles observed above beaver dam
- no frogs or eggs observed below beaver dam

Photos - 9875 - vernal pools / braided channel downstream of beaver dam
9876 - habitat above beaver dam

McLeans Mtn

P. 2 of 5 May 5 2011

T31 & T40 area 10:45 - 11:30

To north of T40 area is large
beaver meadow previously surveyed

- garter snake •

- WOFR - " observed ~ 90 m from T31 (East side)

photo 9874 habitat to east of T31
numerous small pools in mixed cedar-poplar swamp
pools are ~15 cm deep and less, most do not
have dense vegetation but have leaf litter &
some woody debris.

* No stick nests observed in vicinity of T31 & T40
snags present occasionally but small ~ 30 cm, no large trees present.

East end of Perch Lake

RSHA heard calling from west side at Perch Lake
Road at 13:15, ~100 m N of lake.

Wetland on N shore of Perch Lake south of Access Road
13:36 - 13:56 sedge marsh with some shrubs

GRFR - " •

No egg masses observed.
No frogs calling

McLeans Mtn

May 5 2011

Small shallow beaver pond N. side of
access rd / snow mobile trail 14:00 - 14:30

no frogs or egg masses observed, no calls

T44 Area - mixed swamp poplar cedar spruce
14:53 - 15:20

WOFR - " no egg masses or calling frogs.

garter snakes - "

Swamp south side of snow mobile trail
access road, east end perch Lake 15:48

NLFR - " calling
SPPE - " calling

- ground wet but water not pooled in treed section
- shrub swamp with standing water at end of perch lake
- RTHA seen near snow mobile trail

McLeans Mtn

May 5 2011

Stick nests - none observed in the vicinity of Turbines 44, 29

Snags - Several quality snags observed in vicinity of access road with woodpecker activity etc. - Some larger trees present (i.e. ~30-50cm DBH)

Water course crossings

Crossing on Greedbush Rd ~ 500 m west of Hwy 6

photos - 9877-9879 N side of road
- 9880 9882 S side of road

width - ~2.5 m, some braiding of channel
- substrate cobbles - depth 10-15 cm
- approx 2.0 m culvert perched on N side of road.

- bank erosion evident

McCleans Mtn

May 5 2011

Water course crossing on Harbour View Road

photos 9883 - 9885 South Side Harbour View Rd.
 photos 9886 - 9888 North Side Harbour View Rd.

width 0.5 m

depth 5 cm

culvert ~30 cm

substrate: grass, channel poorly defined.

Water course crossing at Boozeneck Road

photos 9889 - 9891 West side looking downstream
 photos 9892 - 9894 Crossing at Boozeneck looking
 Downstream

- width ~ 2.5 - 3 m at crossing

- depth ~ .5 - 1.0 m at crossing

- water from sewage treatment lagoons empties
 into creek

- water very green

- creek runs along Boozeneck ~ 200 m before
 crossing under bridge.

Amphibian Data Form

Please write legibly (in pen).

Observer: Richard Baxter, Bri-Anna Jaksic
Route name: McLeans Mountain Road
Date (dd-mm-yr): 05-04-11 Visit No.: (05-04-11) visit # 1
Beaufort Wind Scale No.: Cloud Cover (10ths): 10 Air Temp (°C or °F): 7.5C°
Precipitation (check one): None/dry: <input checked="" type="checkbox"/> Damp/Haze/Fog: <input type="checkbox"/> Drizzle: <input type="checkbox"/> Rain: <input type="checkbox"/>
Has the habitat on your route changed from previous years?: Yes: <input type="checkbox"/> No: <input type="checkbox"/> Not applicable: <input checked="" type="checkbox"/>
Remarks: Sampling wetlands that fall within 120m within project components as accessible from roadside.

CALL LEVEL CODES

Code 1: Calls not simultaneous, number of individuals can be accurately counted

Code 2: Some calls simultaneous, number of individuals can be reliably estimated

Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably estimated

Amphdfm2007.cdr, rev 02/2007

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHER		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		<input checked="" type="checkbox"/>
WOFR		<input checked="" type="checkbox"/>

* Check if species is calling from inside 100-metre station area.

** Check if species is calling from outside 100-metre station area.

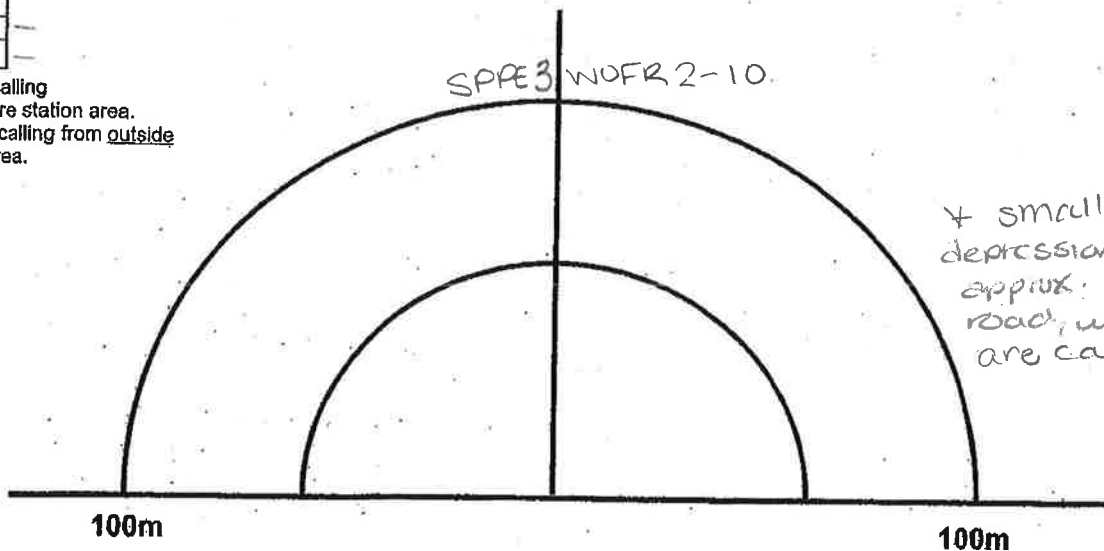
Station

Station MC1

start time (24 hr): 21:30-36

W

SPPE 3 WOFR 2-10



small wooded depression, approx. 100m from road, where frogs are calling from

Station M^o 2
 start time (24 hr): 21:45-50

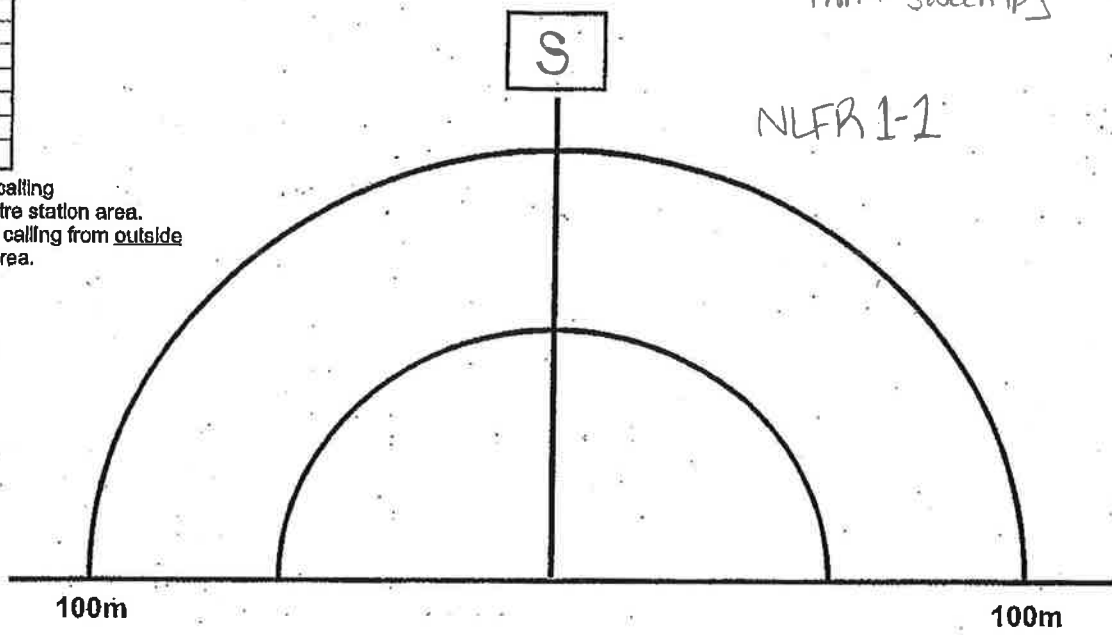
Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		✓
PIFR		
SPPE		✓
WOFR		

* Check if species is calling from inside 100-metre station area.
 ** Check if species is calling from outside 100-metre station area.

Station
 SPPE 3

↳ SPPE estimated 300-500m coming from swamp

NLFR 1-1



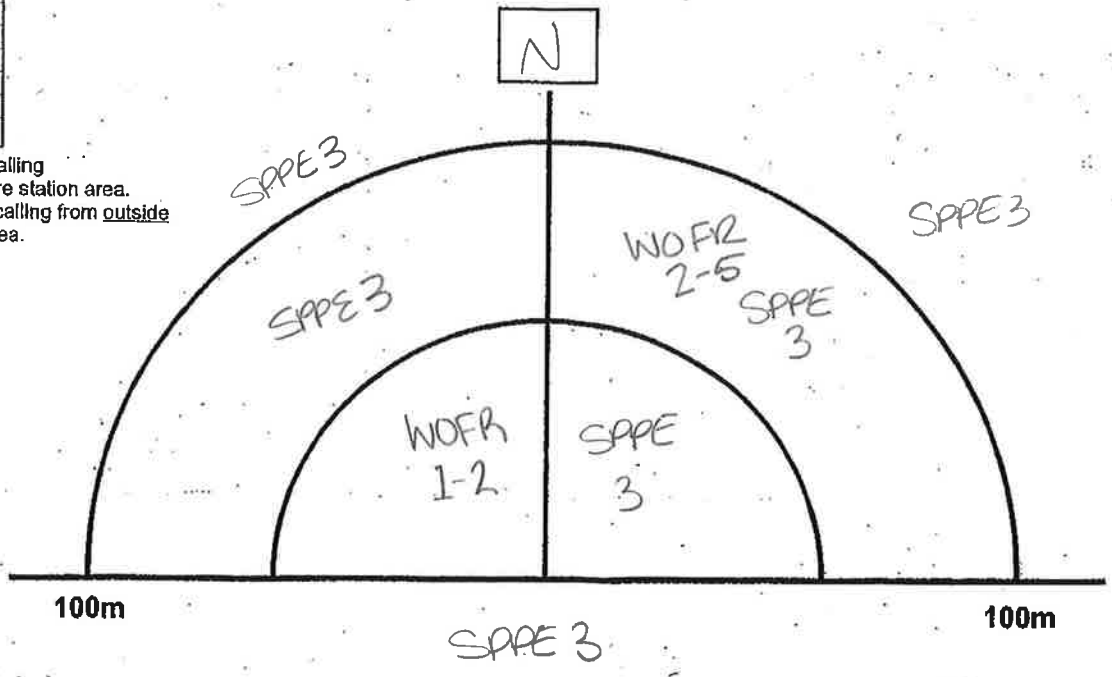
WISN - • display flight

Station M^o 3
 start time (24 hr): 22:00-05

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE	✓	✓
WOFR	✓	

* Check if species is calling from inside 100-metre station area.
 ** Check if species is calling from outside 100-metre station area.

Station

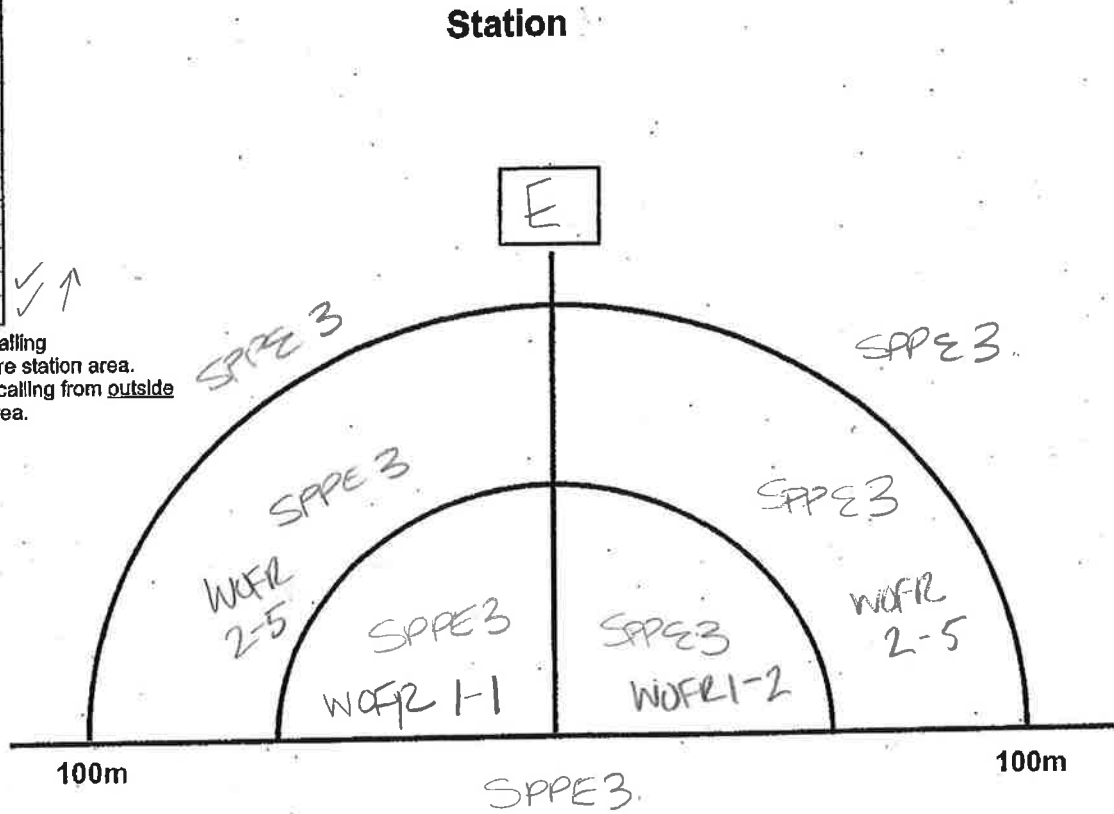


SPPE 3

Station: M^c 4
 start time (24 hr): 22:18 - 22:23

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

* Check if species is calling from inside 100-metre station area.
 ** Check if species is calling from outside 100-metre station area.



Beaver smacking tail.

Amphibian Species Codes

Species	Code
American Toad	AMTO
Blanchard's Cricket Frog	BCFR
Bullfrog	BULL
Chorus Frog	CHFR
Cope's Gray Treefrog	CGTR
Fowler's Toad	FOTO
Gray Treefrog	GRTR
Green Frog	GRFR
Mink Frog	MIFR
Northern Leopard Frog	NLFR
Pickerel Frog	PIFR
Spring Peeper	SPPE
Wood Frog	WOFR

24 Hour Time

12 Hour	24 Hour
1:00 PM	1300
2:00 PM	1400
3:00 PM	1500
4:00 PM	1600
5:00 PM	1700
6:00 PM	1800
7:00 PM	1900
8:00 PM	2000
9:00 PM	2100
10:00 PM	2200
11:00 PM	2300
12:00 PM	2400

30°C, light wind.

Date May 10

T10

- ↳ 1 snag in an oak spp. tree
- ↳ open savannah w/oak trees

T9

- ↳ open field, very few trees, no features

T15

- ↳ very open field, close to road, no trees, no features

T13

- ↳ open oak savannah

T37

- ↳ open grass land, very few trees, no features

T6

- ↳ open grass land, very few trees
snags = 1

T5

↳ completely open pasture, trees one for a way

- we walked the ~~trans~~ transmission line
 blw ~~T10~~ T10 + T13 too wide
 ↳ couldn't determine proper direction
 from map (no snags or nests found)

- transmission line + access road
 from Bush Street to T20
 ↳ difficult to determine exactly where
 the line is based on map

↳ 100m from the road the woodland
 becomes a predominantly coniferous
 stand (with a few white birch +
 oak spp)

- predominantly small trees

T20

↳ predominantly coniferous w/some
 oak

T19

↳ in a Red Aster Downward Thicket (swamp)
 ↳ on the west side (s a mixed deciduous)
 forest

↳ on the east side is open pasture

→ access road + feeder lines b/w T19 + T20 different terrain from what is mapped (very difficult to walk a straight line)

- several snags found b/w T12 + T12/T14 split (mostly in Maples); 1 nest found

T12

my
cane
→ open grass area surrounded by deciduous forest on the east + north, + mixed/deciduous-coniferous to the west

T14

→ old? new? we have old gps points, new points recorded
→ middle of an oak dominated decid. forest
→ some trees have already been cut down

T11

→ following the line from OS to T11 near impossible on a straight path
→ dense conifer thickets
→ T11 surrounded by mainly conifers, some deciduous

T8

↳ very dense coniferous forest and swamp from T11 to T8, could not follow straight path

↳ T8 surrounded by conifers + small deciduous trees

T8 to T14

- lots of deciduous trees in area

- no features found

Date May 11

- temp abt 7°C , no wind in forested areas

- access road + feeder line trail b/w Green bus h \rightarrow T18 through most deciduous forest, some conifers; one snag found along the way

T18

\rightarrow surrounded by mixed con/dec forest;
~~no~~ no features around the area

~~Part~~ of access road from T18 to T23 has already been cleared

\rightarrow no features found

T23

\rightarrow surrounded by forest, mostly conifers, no features

Most of path (out of wooded area) from T23 to T29 is clear (snowmobile trail).

(initially b/w T23 + T29 dense conifer)

T29

\rightarrow completely open grass area, Deciduous forest 100 m SE of stalk

T30

↳ conifer stand; no features
 ↳ area has been cleared a lot of trees

- had to deviate from route on access path b/w T30 + T34 bc of a steep ridge (called Richard)
 ↳ found another path instead
 ↳ found a grouse nest (active)

T34

↳ conifer stand
 *not stalked

- access b/w T34 + T28 initially conifer stand, then mixed con/dec, then grassland

T28

↳ on edge of open field in a conifer/birch stand
 ↳ some trees have already been cut + cleared

not on
access road

- path b/w ~~T30~~^{T28} + T16. first through conifer forest + swamp then open grass land

T16

↳ open grass, mixed conifer forest surrounds T16 but is far away (at least 7200m in every direction)

- path b/w T16 + T29 all open grass
↳ no features

- feeder line path b/w sideroad 20 + Hwy 346
not skymnt
↳ hard to know if we followed the right path
↳ did not see any snags or nests

Q101 Survey - 6 pm

↳ 9/6 10°C, sunny, a bit cloudy
↳ parked on McLeans Mountain Rd ^{facing north}
need T15

↳ I can hear a lot of spring peepers + geese + sandhill cranes

± 6⁵⁰ pm

↳ on Green Bush west of McLeans mtn rd facing east
± 7³⁰

↳ back to McLeans Mtn Rd.

↳ a land owner said there is a peregrine falcons nest in a pine tree near the tall CBC tower

blw 7⁰⁰ - 7⁴⁵ pm

↳ saw it 3 times (maybe)

* med sized, light/white underside

* very low flying to ground

* in air < 10 sec

* flip a few times then just disappear

① flying north from ab T15 to

tree area near T10 * west of road
ab 300+ m.

② flying south very short distance
around T10

③ flying from north of T10 to tree
area at T10

* always at least a few 100 m west
of road

- too far for picture

- took a GPS point east of forest
area near T10

- looked like it was dark on top

- wouldn't fly while I was around in
the field

Date May 12

7:00 am

↳ cloudy, alt -10°C .

- Path from Green Bush Rd to T17 initially open grass, the conifer stand, then young deciduous stand

T17

↳ in a mixed con/dec forest

→ no features here or along the route.

- path from T17 to T21 almost entirely conifer forest

T21

↳ conifer forest with a few small birch trees

* drove along feeder line from side road 200 east ~~as far as possible~~ until we realized we were on right path
west

* drove along feeder line from SW west as far as possible, then hiked 1.6 km. Couldn't go further
↳ no features

T36

- conifer stand no features
- area has been cleared
- a large, old conifer was cut down w/ large stump

T35

- in a birch / conifer wetland area
- clearing to the west
- no features here or b/w T36 +

T35

- ground nest found b/w T35 + T38
 ↳ path b/w T35 + T38 most conifers
 & no features

T38

↳ in a small clearing, conifers around it
 ↳ no features

T38 to T40 → run into marsh
 along the path, still 370 m to go to
 T40 (photo # 0471)

↳ used waypoints from other
 turbines to navigate our way
 to T40

T40 - area has been cleared
 ↳ conifer + birch stand on peninsula
 of marsh
 ↳ no features

- path b/w T31 + T40 mostly conifer (cedar)
 stands, some birch, some grass land
 ↳ no features

T31
 ↳ in a cedar/birch thicket
 * mostly conifers
 ↳ area around T31 has been cleared
 ↳ no features

↳ ~~path~~

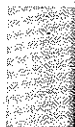
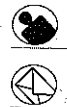
↳ path from T31 to T43 almost all dense
 conifer thickets + some small clearing

T43

↳ mixed dec/con. stand w/ oaks,
 birch, maple + conifers
 ↳ no features
 ↳ area has been cleared

path from T43 to T39 mostly
conifers
↳ no features

T39
↳ med decid con w/ some
maples, birch, oak + conifers
↳ no features



D

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* Note
(U.S.)

7⁰⁰ am

↳ summer > 10°C

path from guide to T2S through shads wetland,
some birches, small trees

↳ no features

T2S

↳ on the west side, open land (grassy,
wetlandish)

↳ on the east mainly birch trees

↳ no features

- path b/w T2S + T3S a mix of open
wet grasslands + conifer/birch stands
↳ (mostly) no features

- followed feederline ^{from S40 west to T3S} via a trail south
of the SM line, but within 120m
area

↳ to the north was conifers + birch
↳ no features

- from trail, headed south to T42
area is conifers + birch, no features



T42

↳ surrounded immediately to
the E, S, & W w/ birch, then
conifers

↳ to the north is a grassland
x no features

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* Not
(U.S.)

SNAG Observation Sheet

Project Component Description (Within or Adjacent to Clearing Area)	UTM	DBH (cm)	Approximate Height (m)	Species	Photo #	# in Group	Comments
S1 50m east of T10	East 0426281	27.2	15	oak spp	2+3	—	
	North 5088245						
S2 60m south of T13	East 0425541	29.3	8	oak spp	T13+1	—	
	North 5087083						
S3 100m north of T13	East 0425578	24.5	3.5	unknown	T13+3	—	
	North 5087948						
S4 20m SE of T6	East 0425404	34.7	8	white ash	T6+1	—	
	North 5088638						
S5 feeder line between T6+T10	East 0426196	49.0	25-30	oak spp	T5+1	—	
	North 5088312						
S6 feeder line + access road b/w 202 green bush rd	East 0425194	44.3	30-40	basswood	T5+2	—	
	North 5086995						
S7 Access road from Green bush rd b/w T12+T14	East 0424334	37.0	2m	unknown	T19+1	—	dead
	North 5087285						
S8 Access road from Green bush rd b/w T12+T14	East 0424328	37.4	40-50	maple spp	T19+2	—	
	North 5087332						
S9 Feeder line b/w T12+T14 sp4 + T12	East 0424475	38.2	15-20	maple spp.	T19+3	—	
	North 5087520						
S10 "	East 0424475	43.2 24	15-20	maple spp.	T19+4	2	
	North 5087549						
S11 "	East 0424516	41.9	20-25	maple spp	T19+5	—	
	North 5087602						
S12 Access + feeder from Bush st to T18	East 0423062	24	20m	Dead maple.	0434	—	
	North 5086702						
S13 feeder b/w T30 & T28	East 0424450	26.1	10	Dead oak	0450	—	nest was and/or lined in
	North 5084819						

McLean's Mountain

May 10, 2011

STICK NEST & Snag Inventory

- Tuesday @ McLean's Rd to inventory
T10, T9, T15

- weather partly cloudy, ~30° @ 7:00

- T10 1 snag within 50m Pic #23
LD #51

- T9 open field very few trees around
↳ No features found

- T15 very open field No snags found

Park

- T13 52 snag (S) of T13 within

- T27 open field 4 trees nr S/SW

- T6 (behind wooden fence line)

- 4 trees SE of 6m (S) of 6

- T5 open field no features
(following machine tracks)

- 710 - 5T13 → Access path was curved → we feel we took the curve a little wide.

PARK

- Bush 720 (155300) on west conifer
 up hill and to 720 were small trees + predominant conifers (heavily wooded)

720-719 → orienteered straight as best we could, may have deviated 4-50m? → thick swamp forest → forced to navigate with GPS

→ short cut back to Crown Bush Rd to avoid water

PARK

- trigonometry to find where to park + then where to go back headed for 710

W on route to 12, 58 + 510
 (58 was 200m 50m)

+ 570 (small) 400 500m

T12 - Stick in concrete

↳ St. 2 (SW) of T12

T14 → wound up (S) of 14

↳ new 14 stake

↳ cutting being done

T14 to 12/14 & 17

Park back from (S) of substation

- walk to operations building

↳ No features

- walk to sub station

↳ No features.

→ To T11 through dense brush

and old bedrock outcrops

↳ Coniferous dominated.

↳ No features

→ T8(A) ← on stake → got off

course but largely coniferous

and some old deciduous

- on admin colour is T8 →

could not put on the GPS

- TSA to 14 (off track to S)
- lots of deciduous trees in area.
- No S/st were observed in general area

WEDNESDAY

- Part (N) of 18 walk in band 512
- Conifers & small deciduous split.
 - ↳ spread native deciduous
 - ↳ only 1 feature found.

T19. T23 -> path cut through woods
-> highly conifer, some birch -> no features observed
↳ Channeled path is pic T23 + 1

T23 - PTA 9 -> Bush avoided @ then
⑤ found machine to cross open field game -> wood line and followed RTV's a track. Trail path is 10/12m wide.

ST3 enroute to T30
~ 3' diameter tree stick nest in
~ 40m in old white birch (tree ~ 5m
from the top.

→ Go Route to T30 came to marsh
(0443+0444) → headed (B) around

T30 in cleared spot in woods
(stopped for lunch)

T30-T34 came to cliff, found
creeper nest (pic 447), called
Richard. Gained access down
cliff (further south to creek)

T34 found leaf no stake
↳ cut path to location
↳ snow shoe trace seen
↳ mostly conifers
↳ No features
↳ pic 0448

T28B (0451 + 0452)

↳ tucked in on edge of woodlot
 ↳ near where moss shed was
 ↳ Conifers, young deciduous +
 Sporadic mature deciduous)

T16 → Open field (No Access road
 followed)

T16 → T29 clear, open field, no
 features

T44 → 20m in woodlot from open field
 ↳ small, mixed tree features
 observed

→ Drove municipal rd/trail (W)
 for ~3km until it began
 to turn a bend, turned around
 and got turned around on
 area we covered. Where we
 turned around is GPS'd (End
 of path)

→ on way back crossed unmarked
 20th Side road and met landowner

Raymond.

Thursday

- T17 access road is through open field, center thicket and then into young deciduous stand. No SPST observed. (we passed T17 stakes on E side by ~75m)

T17 to T21 ~0 mainly center stream
LP walk cut to stake
no past 2 clear live stands

- walked in @ guide -> down to marsh -> too wet to walk (notes taken) -> Dab features

(truck gate) - parked @ walked to T26
to heavily conifers, cleared
into -> including young
of diameter of 48 cm, No
features observed.

- From T36 → T35 → mainly conifers
and stands of young birch + alder
Pines found (pic 0468)

T35 → T38 → largely conifers through
dense brush → deviated from
course slightly, in features

T38 → T40 came to reach the well
Not get closer photo # 0471 view
(SE) to T40 370m from site.

Before main trail from T38 was
cleared snowmobile trailer, lots of
conifers, spotted deer entered thicket

- Called Mike → discussed methods
to continue on way to find T40.

Finding T40

T38 N 5083197 } Step 1
T31 E 416174 }

Step 2: Step 1 due S to T40 Northward

T40 N 5082915 T31 E 416174 }

Step 3: Due (E) to T40
T40 woods entered.

↳ Came to T40 through conifers
and birch stands. (0472)

(must have been too far north
line from T35)

↳ To Step 2

Step 2 → T31 → through
conifer and birch stand.

↳ No features found

↳ path cut to stake

T31 → T43 → walked too far (E)

had to swing south (off line)

- mainly conifer stand → birch

- No features etc. @ stake

↳

T43-T39 by shovelled 850m

ended on path cut right

to stake. Mainly conifers

Some large birds + papers
 No features observed on route
 w/m 5m.
 1 steak up hill through muddy
 (Choked track mark?)

Friday

PARK up Cundas Sideroad (E)
 at 90° junction with road.
 (all trees seen (south east)
 have been small cedars and
 birch. T25 is @ edge of
 birch lot adjacent to open
 fields. Will take steps to track
 - T25 located on birch (s. side/birch)
 as in middle of open field. Actually
 @ edge of birch stand

T25 - T25 to headed south
 close to tracks through open
 field for far (west) and some of
 birch (purpose was to
 locate access road)

- Retraced steps from T85 to
 Access road. tree community
 is very small, young conifers
 and birch.

Back @ 540 to go to T42.

head to Point CPS 006 (intersec-
 tion @) of T42.

- headed south along path through
 woods to T42. track marks are
 but did not observe much evidence
 of cutting.

- Stopped in birch thicket near
 small clearings.

Back @ E-W stretch from
 515 27.3m (0479)

516 (0481) 33m

McLeans Mt

May 30 2011
RLB

Amphibian Survey

Weather - Temp 22°C
wind B-1
cloud 70%
no rain

Diurnal Visual Search

Gudas Sideroad Feeder Line Wetlands

- Gudas Sideroad wetland inspected visually from road.

18:29 - 19:23

NLFR •

GRFR ••

} in small puddles on Gudas S.R.
~ 200m west of wetland units

Wetland Area - no egg masses observed, tadpoles observed.

NLFR •• observed

0124

Tadpoles - photo 0118 •• pool on Gudas Sideroad West end of wetland.

GRFR - ☐ observed, small # vocalizing as well ~ 5 frogs ^{from wetland}

GRFR - ☒ vocalizing

E. garter snake •

Tadpoles - ~ 300 in pool on Gudas Sideroad east end of N wetland photos 0119, 0120

CONI •• vocalizing East end of wetland

•• vocalizing & seen flying ~ 100m west of wetland.

Snapping turtle - "

young photos 0121-0123
GPS "Suppr"

Short-eared owl watch - Mcleans Mtn Rd.
- watched from field where owl first observed
GPS 101
20:10 - 21:45

B0B0 - " - singing from pasture W side of Mcleans Mtn Rd near Morphet
C0N1 - " - heard calling from NW of Mcleans Mtn Rd Morphet
sideroad junction

Survey stopped when visibility became too poor.

- No SEOW observed.

Moileans Mtn

May 31 2011

Goat Island T-Line site meeting

Present

Richard Baxter	- Dillon
John Bruce	- Northland Power
Rick Martin	- Northland Power
Jeff Wallace	
Art Jacko	- MMP
Martin Gran	- Fishway
Kirsten	- Northland Power
Della	- CP

10:00 - 12:00

GPS - 102 - shoreline at T-Line alignment.
103 - limit of natural vegetation along
proposed T-Line alignment.

*T-Line alignment as appears on current plan

- Based on meeting T-Line alignment is not finalized, method of construction is also not finalized though trenching looks most likely
- I informed Northland Power that an August botanical

McLean's Mtn

May 31 2011

Survey will be necessary to determine if Houghton's Goldenrod or Gattingers Agalinis are present, Northland Power seemed agreeable to this

- construction will not be occurring on T-Line in 2011 as currently planned.

Weather

Temp 25°C

Wind B-3

Cloud - 10%

no precip.

Amphibians Diurnal Search

N East end Patch Lake 13:45 -

Wetland on NE shore of Patch Lake (marsh/shrubby swamp)

GFR -

no eggs a little frog activity, dense vegetation makes visual detection difficult.

Old beaver meadow, N side of snow mobile trail near culvert/gate.

- snapping turtle - photos 0130, 0131 GPS - "Snppr2"
- unknown frogs - ^{at} jumped into pond not seen for 10
- no frogs vocalizing
- no egg masses observed.

Photos 0132-0134 - snow mobile trail from gate, looking west
0135-0137 - " " " " " " east
0140-0143 - " " " edge of large open field looking west.

GPS 104 - snow mobile trail has upland to immediate N+S east of this point. photo 0144 look E from this point.

McLeans Mtn

May 31 2011

Swamp to N of T44

- vernal pools mostly dried up
- some small pockets of water present.
- photos 0138-0139
- no frogs observed or heard, no egg masses

photos 0145-0146

snowmobile trail passing to N of
small marsh/SWT located along NE shore
of Perch Lake.

Photos 0147-0150 Wetland along feeder line
running along Gurdas S.R. N side

0151-0153 wetland along feeder line
running along Gurdas S.R. S side

Amphibian Data Form

P. 1. A3

Please write legibly (in pen).

Observer: <u>Richard Baxter</u>
Route name: <u>McLeans Mtn</u>
Date (dd-mm-yr): Visit No.: <u>2</u> <u>May 30 2011</u>
Beaufort Wind Scale No.: <u>1</u> Cloud Cover (10ths): <u>20-80</u> Air Temp (°C or °F): <u>~18</u>
Precipitation (check one): None/dry: <input checked="" type="checkbox"/> Damp/Haze/Fog: <input type="checkbox"/> Drizzle: <input type="checkbox"/> Rain: <input type="checkbox"/>
Has the habitat on your route changed from previous years?: Yes: <input type="checkbox"/> No: <input type="checkbox"/> Not applicable: <input checked="" type="checkbox"/>
Remarks:

CALL LEVEL CODES

Code 1: Calls not simultaneous, number of individuals can be accurately counted

Code 2: Some calls simultaneous, number of individuals can be reliably estimated

Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably estimated

Amphdfm2007.cdr, rev 02/2007

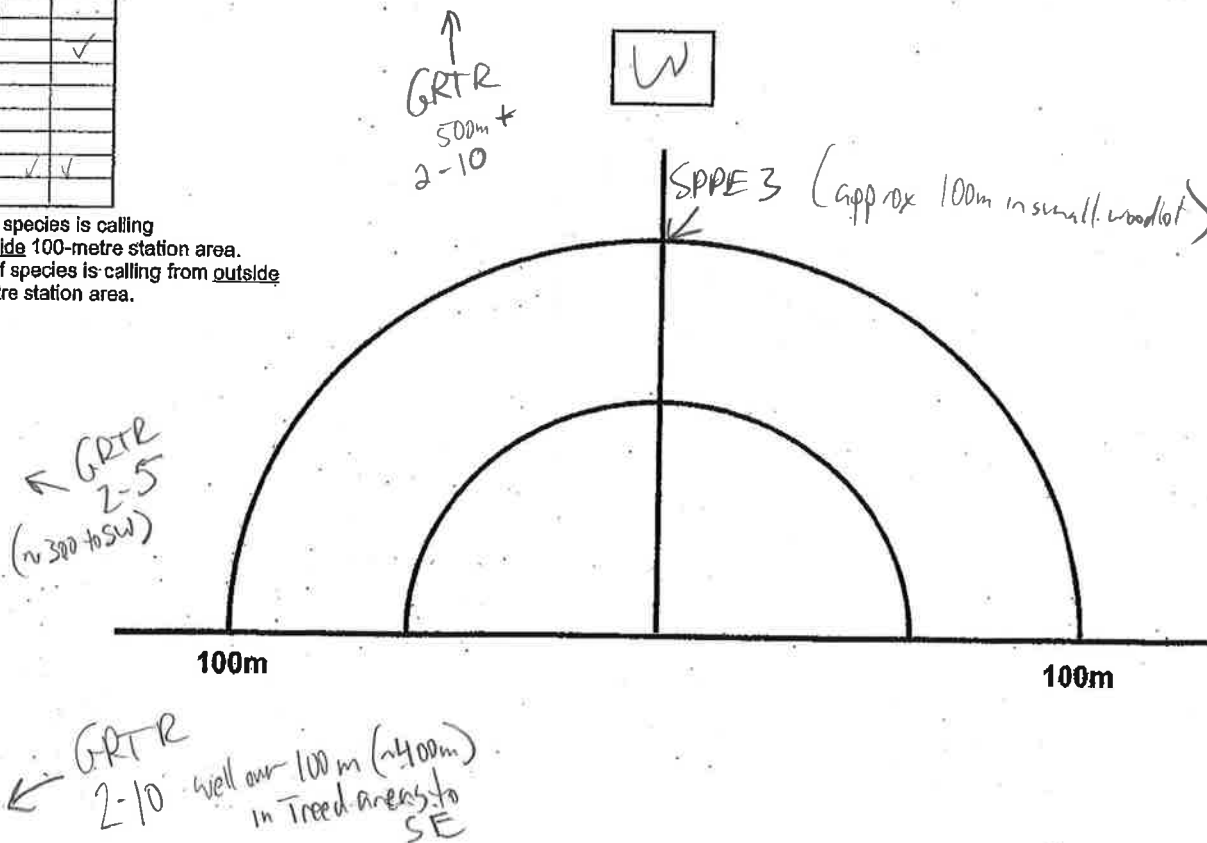
Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		✓
GRFR		
MIFR		
NLFR		
PIFR		
SPPE	✓	✓
WOFR		

* Check if species is calling from inside 100-metre station area.

** Check if species is calling from outside 100-metre station area.

Station

Station Mcl
 start time (24 hr): 21:58 - 22:03

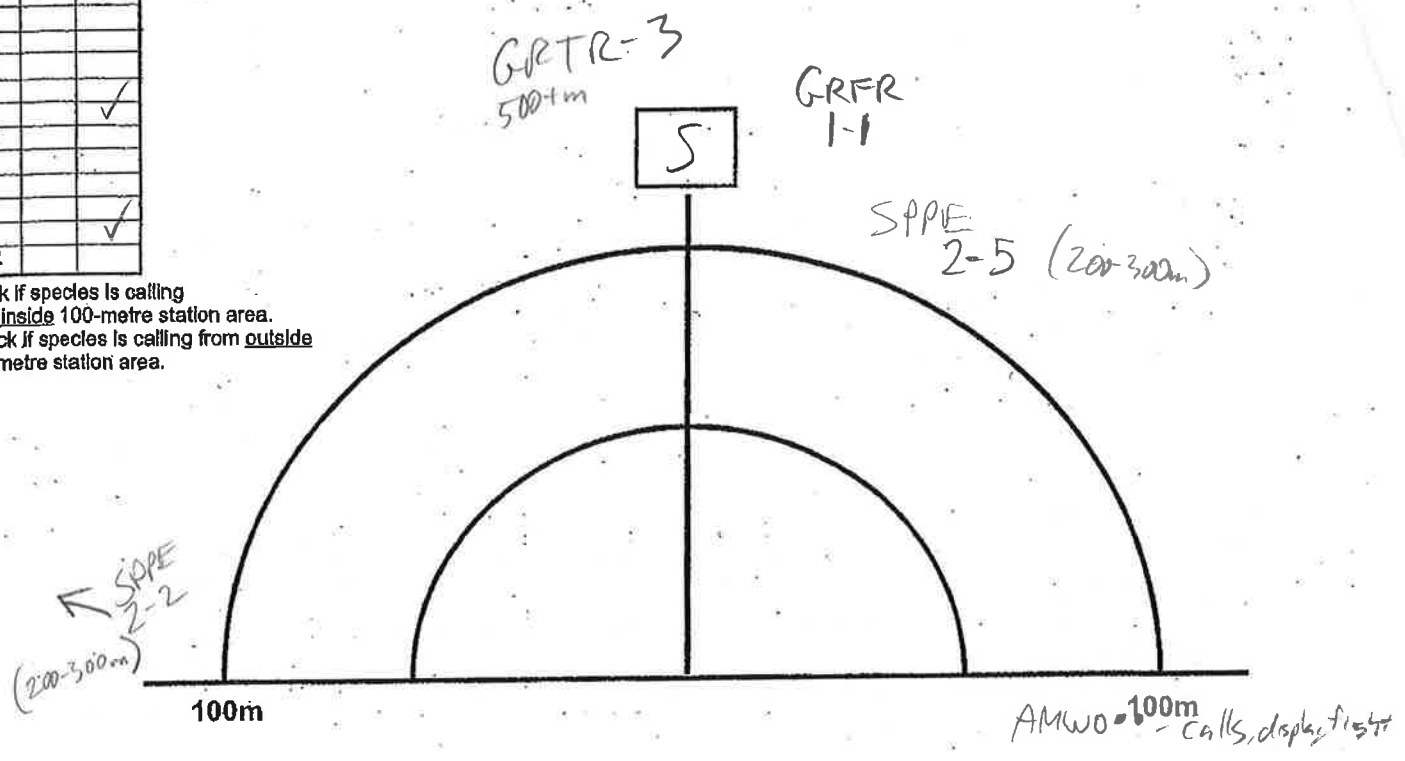


Station **Mc2**
start time (24 hr): 22:10 - 22:15

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		✓
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		✓
WOFR		

* Check if species is calling from inside 100-metre station area.
** Check if species is calling from outside 100-metre station area.

Station

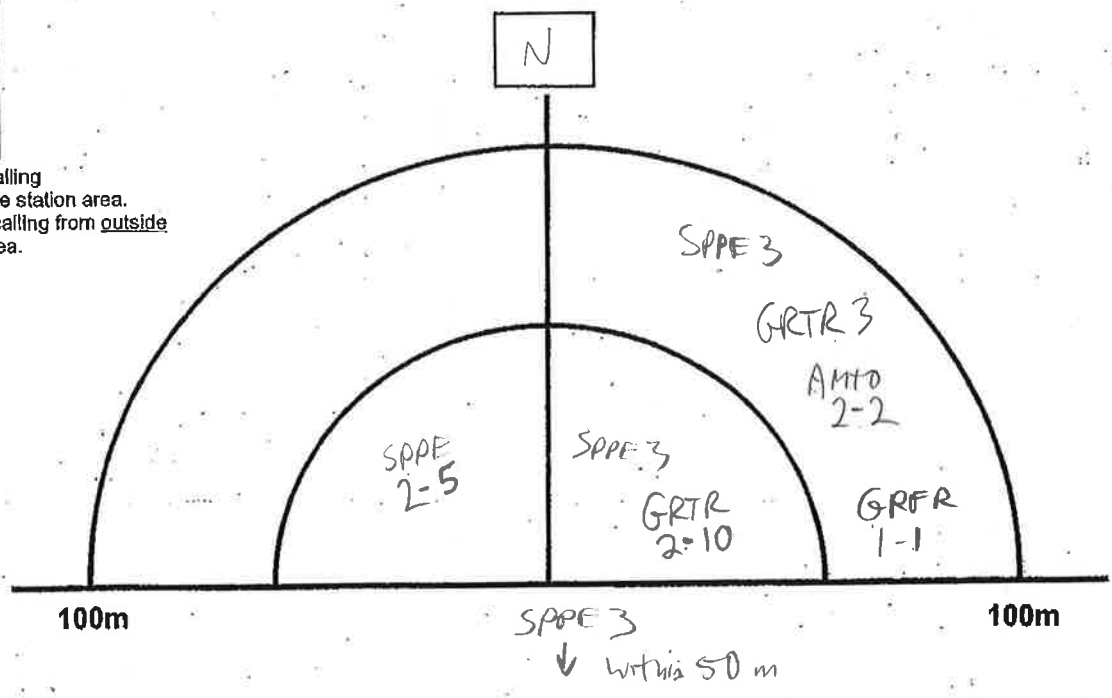


Station **Mc3**
start time (24 hr): 22:21 - 22:26

Species	In*	Out**
AMTO	✓	
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR	✓	
GRFR	✓	
MIFR		
NLFR		
PIFR	✓	
SPPE	✓	
WOFR		

* Check if species is calling from inside 100-metre station area.
** Check if species is calling from outside 100-metre station area.

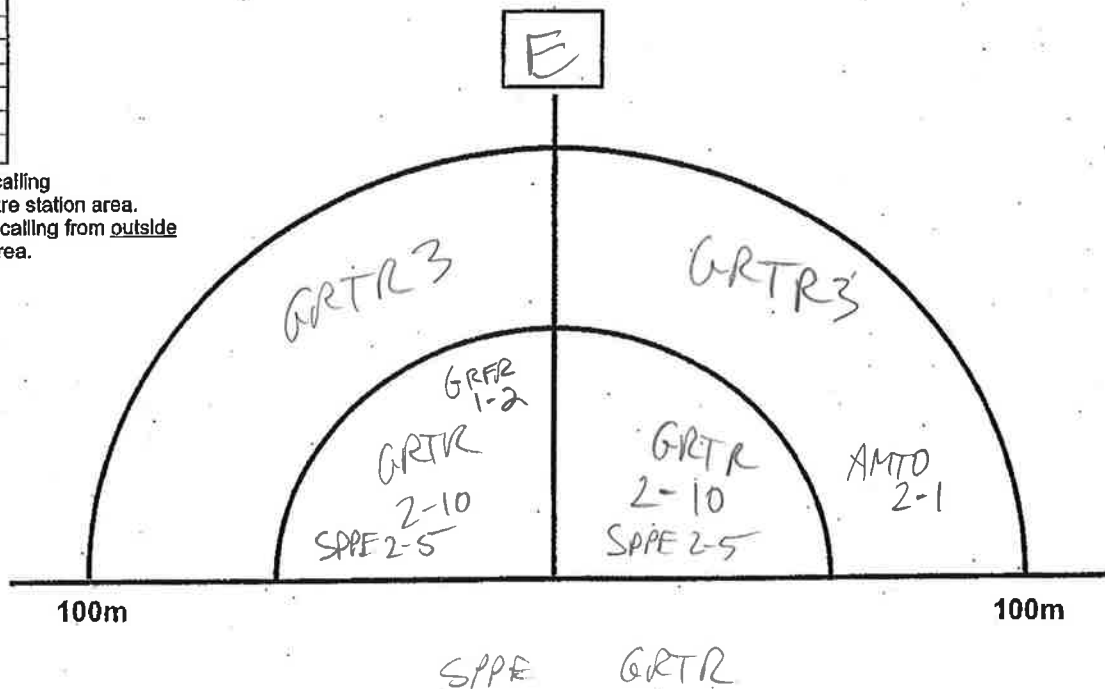
Station



Station: M₄
 start time (24 hr): 22:32 - 22:37

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR	✓	
GRFR	✓	
MIFR		
NLFR		
PIFR	✓	
SPPE	✓	
WOFR		

Station



* Check if species is calling from inside 100-metre station area.
 ** Check if species is calling from outside 100-metre station area.

Amphibian Species Codes

Species	Code
American Toad	AMTO
Blanchard's Cricket Frog	BCFR
Bullfrog	BULL
Chorus Frog	CHFR
Cope's Gray Treefrog	CGTR
Fowler's Toad	FOTO
Gray Treefrog	GRTR
Green Frog	GRFR
Mink Frog	MIFR
Northern Leopard Frog	NLFR
Pickerel Frog	PIFR
Spring Peeper	SPPE
Wood Frog	WOFR

24 Hour Time

12 Hour	24 Hour
1:00 PM	1300
2:00 PM	1400
3:00 PM	1500
4:00 PM	1600
5:00 PM	1700
6:00 PM	1800
7:00 PM	1900
8:00 PM	2000
9:00 PM	2100
10:00 PM	2200
11:00 PM	2300
12:00 PM	2400

Amphibian Data Form

Please write legibly (in pen).

Observer:	D. Restivo
Route name:	MMWF - Northland Power
Date (dd-mm-yr):	Visit No.: 3 (14-06-2011)
Beaufort Wind Scale No.:	Cloud Cover (10ths): 3 Air Temp (°C or °F): 16
Precipitation (check one):	None/dry: <input checked="" type="checkbox"/> Damp/Haze/Fog: <input type="checkbox"/>
Drizzle:	Rain: <input type="checkbox"/>
Has the habitat on your route changed from previous years?:	Yes: <input type="checkbox"/>
No:	Not applicable: <input checked="" type="checkbox"/>
Remarks:	5 minute point counts

CALL LEVEL CODES

Code 1: Calls not simultaneous, number of individuals can be accurately counted

Code 2: Some calls simultaneous, number of individuals can be reliably estimated

Code 3: Full chorus, calls continuous and overlapping, number of individuals cannot be reliably estimated

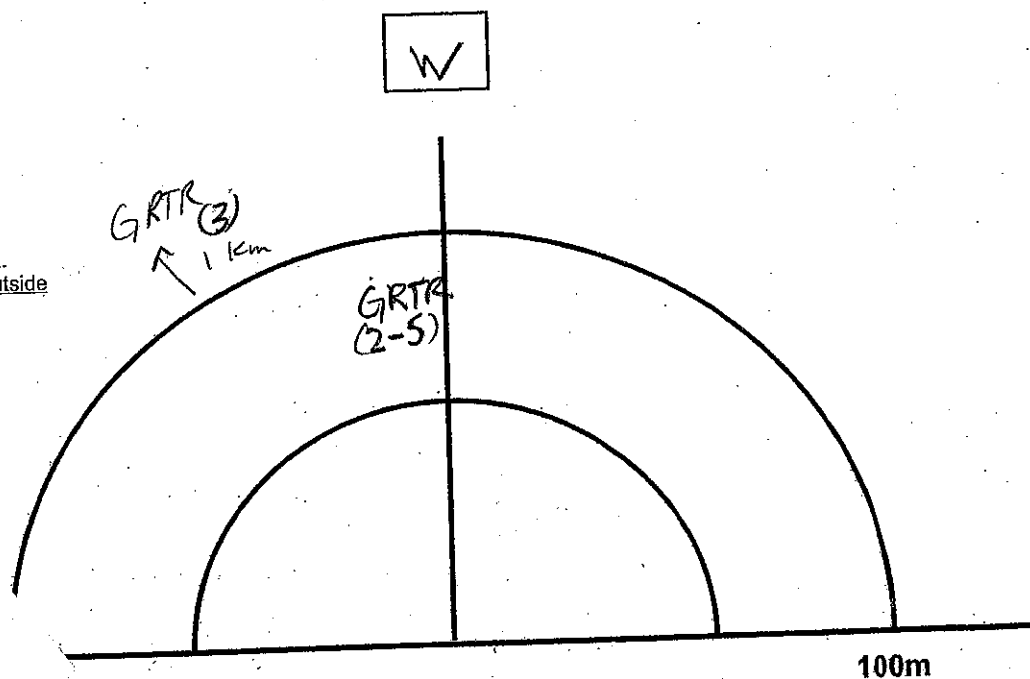
Amphdfrm2007.cdr, rev 02/2007

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR	<input checked="" type="checkbox"/>	
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
TOFR		

* Check if species is calling inside 100-metre station area.
 ** Check if species is calling from outside station area.

Station

Station MCI
 start time (24 hr): 21:57

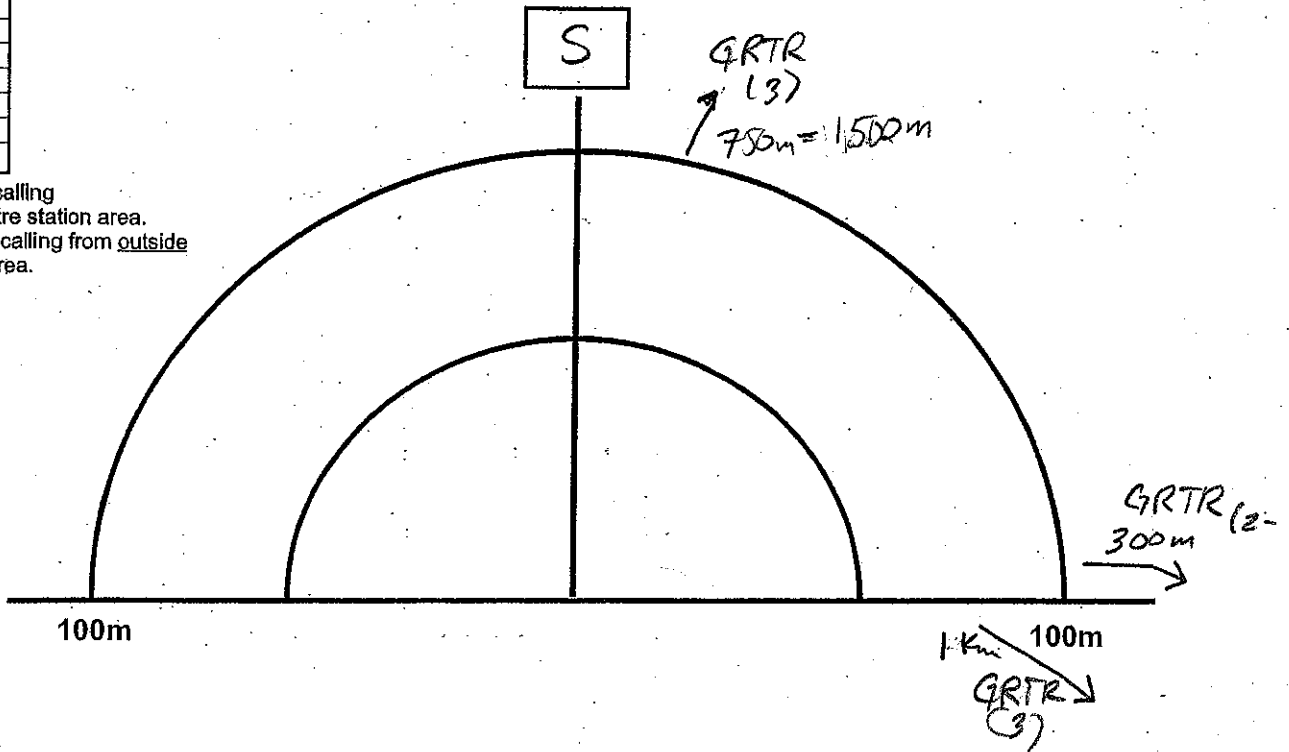


Station MC2
start time (24 hr): 2209

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		✓
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

* Check if species is calling from inside 100-metre station area.
** Check if species is calling from outside 100-metre station area.

Station

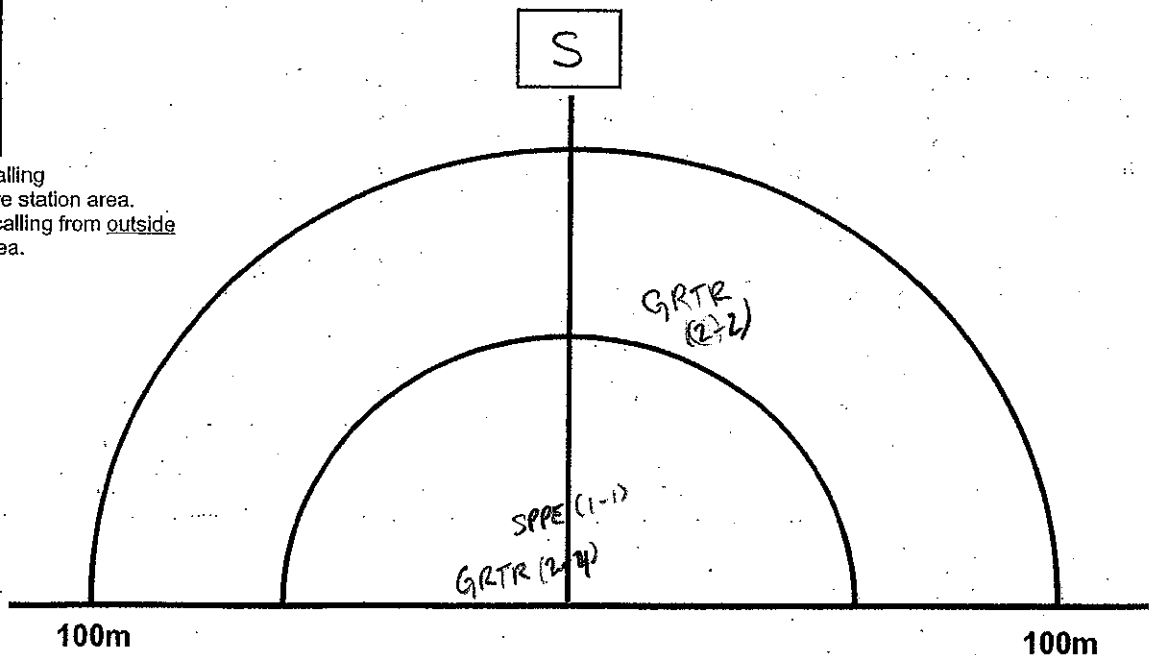


Station MC3
start time (24 hr): 22:20

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR	✓	
GRFR		
MIFR		
NLFR		
PIFR		
SPPE	✓	
WOFR		

* Check if species is calling from inside 100-metre station area.
** Check if species is calling from outside 100-metre station area.

Station

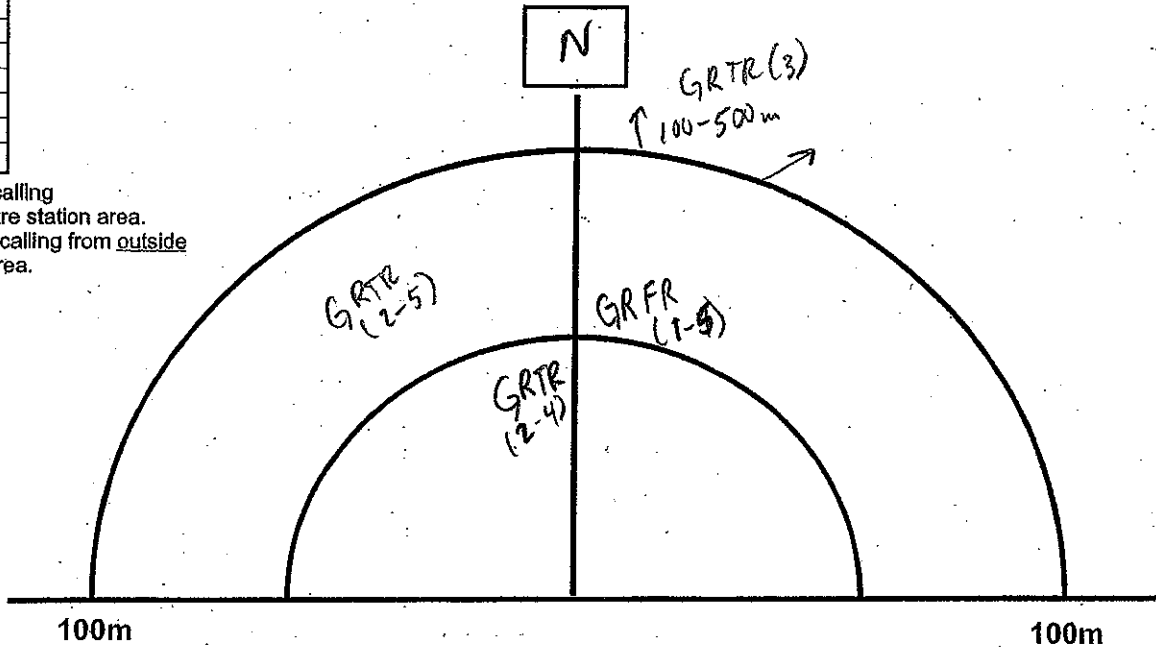


Station MC3
start time (24 hr): 22:20

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR	✓	✓
GRFR	✓	
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

* Check if species is calling from inside 100-metre station area.
** Check if species is calling from outside 100-metre station area.

Station

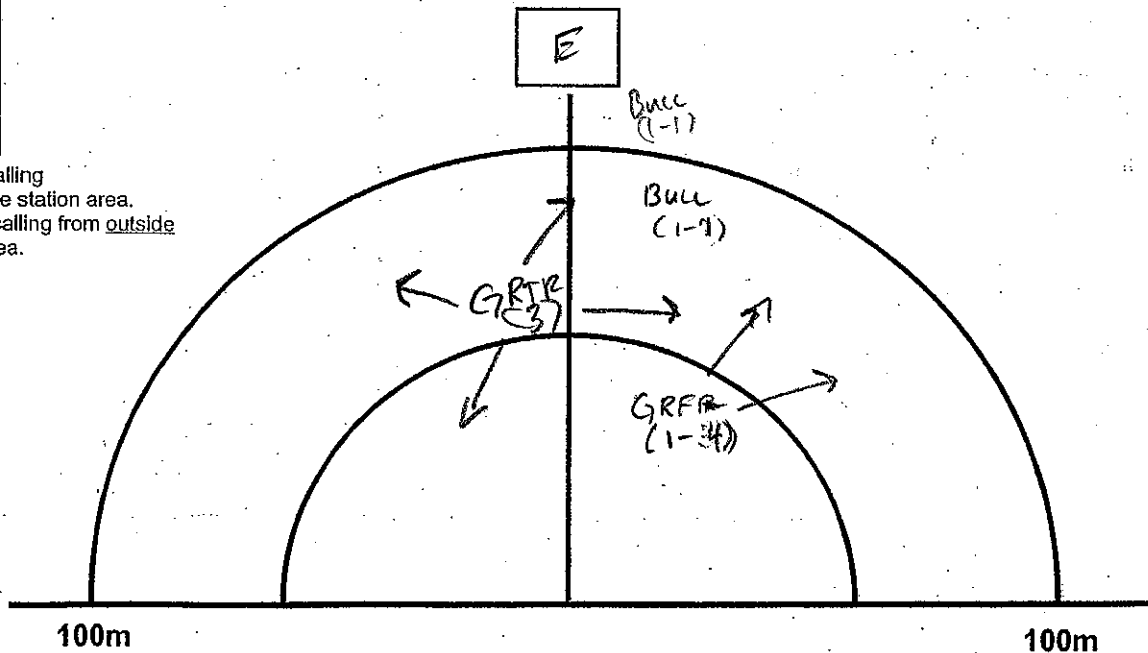


Station MC4
start time (24 hr): 22:36

Species	In*	Out**
AMTO		
BCFR		
BULL	✓	✓
CHFR		
CGTR		
FOTO		
GRTR	✓	✓
GRFR	✓	
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

* Check if species is calling from inside 100-metre station area.
** Check if species is calling from outside 100-metre station area.

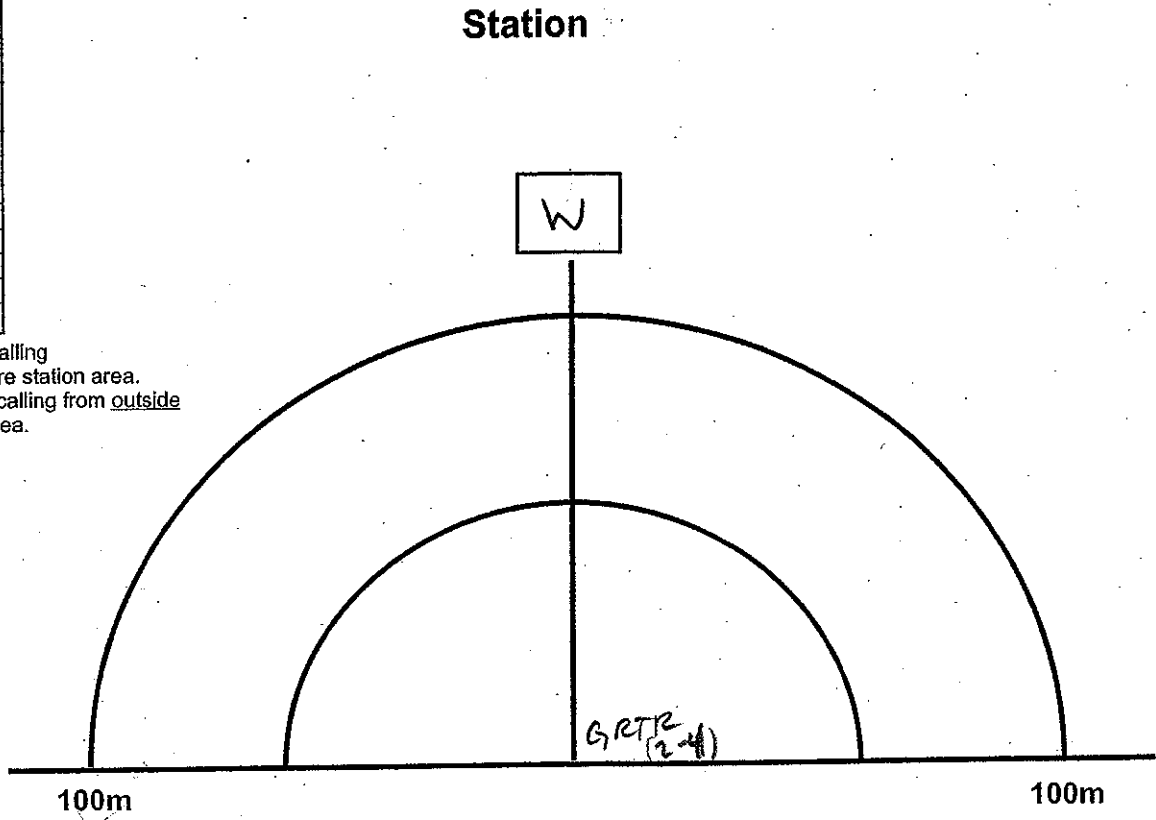
Station



Station: MCL
 start time (24 hr): 2036

Species	In*	Out**
AMTO		
BCFR		
BULL		
CHFR		
CGTR		
FOTO		
GRTR		
GRFR		
MIFR		
NLFR		
PIFR		
SPPE		
WOFR		

* Check if species is calling from inside 100-metre station area.
 ** Check if species is calling from outside 100-metre station area.



Amphibian Species Codes

Species	Code
American Toad	AMTO
Blanchard's Cricket Frog	BCFR
Bullfrog	BULL
Chorus Frog	CHFR
Cope's Gray Treefrog	CGTR
Fowler's Toad	FOTO
Gray Treefrog	GRTR
Green Frog	GRFR
Mink Frog	MIFR
Northern Leopard Frog	NLFR
Pickerel Frog	PIFR
Spring Peeper	SPPE
Wood Frog	WOFR

24 Hour Time

12 Hour	24 Hour
1:00 PM	1300
2:00 PM	1400
3:00 PM	1500
4:00 PM	1600
5:00 PM	1700
6:00 PM	1800
7:00 PM	1900
8:00 PM	2000
9:00 PM	2100
10:00 PM	2200
11:00 PM	2300
12:00 PM	2400

Site: McLeans Mtn

Observer (s): RLB DMR Date: July 28 2011

Field No: 100 Wetland Type: Riverine Site Type: Dominant Form: W (open water)

% Open Water: 90 Water Depth (cm): ~1m Depth of Organics (cm):

Soil: A Depth to Mottles (cm): Gley (cm):
B Depth to Mottles (cm): Gley (cm):

Presence of Seepage: Presence of Iron Precipitates:

Forms % (Circle those ≥25%) Species (dominant species¹, secondary species², present species³)

h

c

dc, dh, ds

ts

ls

gc

ne Scirpus atrovirens, Carex vulpinaea, Phalaris Arum,

be

re Typha latifolia Softstem bulrush

ff

f

su Coontail

m

Rare Species (Local, Regional, Provincial):

Wildlife Notes:

GRFR Fish present
RLWBL
painted turtle - "

Field No: 101 Wetland Type: Riverine Site Type: Dominant Form: ne

% Open Water: 5% Water Depth (cm): Depth of Organics (cm):

Soil: A Depth to Mottles (cm): Gley (cm):
B Depth to Mottles (cm): Gley (cm):

Presence of Seepage: Presence of Iron Precipitates:

Forms % (Circle those ≥25%) Species (dominant species¹, secondary species², present species³)

h

c

dc, dh, ds

ts

ls

gc spearwort¹, spotted joe pyweed¹, lamaset¹, jewelweed¹

ne Carex hystrix¹, Carex aquatilis¹, Carex bebbiana¹, Scirpus atrovirens², Backed sedge¹, C. vulpinaea¹

be

re

ff

f

su

m

Rare Species (Local, Regional, Provincial):

Wildlife Notes:

*western wetland edge way points 154-178

Site: McLeans Mtn

Observer(s): PLB DMR

Date: June 28 2011

Field No: 102 Wetland Type: Palustrine Site Type: S Dominant Form: TS
 % Open Water: 0 Water Depth (cm): _____ Depth of Organics (cm): _____
 Soil: A _____ Depth to Mottles (cm): _____ Gley (cm): _____
 B _____ Depth to Mottles (cm): _____ Gley (cm): _____
 Presence of Seepage: Presence of Iron Precipitates:
 Forms % (Circle those ≥25%) Species (dominant species¹, secondary species², present species^P)
 h Balsam poplar
 c _____
 dc, dh, ds _____
 * (ts) Salix, Cornus racemosa^P
 ls _____
 gc _____
 ne Scirpus atrovirens^P, Carex species^P
 be _____
 re _____
 ff _____
 f _____
 su _____
 m _____

Rare Species (Local, Regional, Provincial): _____ Wildlife Notes: photo 219.

Field No: 103 Wetland Type: Palustrine Site Type: M Dominant Form: NE
 % Open Water: 0 Water Depth (cm): _____ Depth of Organics (cm): 5cm
 Soil: A ~5cm of organic over bedrock Depth to Mottles (cm): _____ Gley (cm): ✓
 B _____ Depth to Mottles (cm): _____ Gley (cm): _____
 Presence of Seepage: Presence of Iron Precipitates:
 Forms % (Circle those ≥25%) Species (dominant species¹, secondary species², present species^P)
 h _____
 c _____
 dc, dh, ds _____
 ts _____
 ls _____
 * (gc) HIERPRA CHAYLED Balsam Ragwort, Rumex crispus
 (ne) Carex bebbiana, C. granularis, Scirpus atrovirens, Canada bluejoint
 be _____
 re _____
 ff _____
 f _____
 su _____
 m _____

Rare Species (Local, Regional, Provincial): _____ Wildlife Notes: GRFR
Photos = 202-206 (GPS 15.3)

wetland communities 103 & 104 - boundaries 183 - 235

Site: McLeans Mtn

Observer (s): RLB

Date: June 28

Field No: 104 Wetland Type: Palustrine Site Type: S Dominant Form: h + c (mixed)

% Open Water: _____ Water Depth (cm): _____ Depth of Organics (cm): 5cm

Soil: A ~5cm of organic over mineral Depth to Mottles (cm): _____ Gley (cm): 5cm
B _____ Depth to Mottles (cm): _____ Gley (cm): _____

Presence of Seepage: Presence of Iron Precipitates:

Forms % (Circle those ≥25%) Species (dominant species¹, secondary species², present species³)

down
→ x
↓ x

PODUTHE

ABIE BAL', THU SOCC

dc, dh, ds _____

ts _____

ls _____

gc RUBRUS, sweet coltsfoot

ne _____

be _____

re _____

ff _____

f _____

su _____

m Moss sp

Rare Species (Local, Regional, Provincial): _____ Wildlife Notes: _____

Field No: _____ Wetland Type: _____ Site Type: _____ Dominant Form: _____

% Open Water: _____ Water Depth (cm): _____ Depth of Organics (cm): _____

Soil: A _____ Depth to Mottles (cm): _____ Gley (cm): _____
B _____ Depth to Mottles (cm): _____ Gley (cm): _____

Presence of Seepage: Presence of Iron Precipitates:

Forms % (Circle those ≥25%) Species (dominant species¹, secondary species², present species³)

h _____

c _____

dc, dh, ds _____

ts _____

ls _____

gc _____

ne _____

be _____

re _____

ff _____

f _____

su _____

m _____

Rare Species (Local, Regional, Provincial): _____ Wildlife Notes: _____

Site: Mcleans Mtn

Observer(s): RUB DMR Date: June 29

1.59 ha

Field No: 106 Wetland Type: Palustrine Site Type: M Dominant Form: re

% Open Water: 40% Water Depth (cm): <2m Depth of Organics (cm): _____

Soil: A _____ Depth to Mottles (cm): _____ Gley (cm): _____
B _____ Depth to Mottles (cm): _____ Gley (cm): _____

Presence of Seepage: Presence of Iron Precipitates:

Forms % (Circle those ≥25%) Species (dominant species¹, secondary species², present species³)

h _____

c _____

dc, dh, ds _____

ts Cornus stolonifera³ (less than 25%)

ls _____

gc _____

ne Phalaris arundinacea², Scirpus atrovirens², Carex comosa², Carex vulpinoidea²

be _____

* re Typha latifolia¹, Sphagnum bulbosum²

ff _____

su Coontail¹

m _____

Rare Species (Local, Regional, Provincial):

photos 30-33

Wildlife Notes:

-SORA -RNOB(P) -SLWSP
-ORFR -painted turtle
-RWBL -beaver (dam)

Field No: 107 Wetland Type: Palustrine Site Type: S Dominant Form: _____

% Open Water: 5 Water Depth (cm): 50cm Depth of Organics (cm): _____

Soil: A _____ Depth to Mottles (cm): _____ Gley (cm): _____
B _____ Depth to Mottles (cm): _____ Gley (cm): _____

Presence of Seepage: Presence of Iron Precipitates:

Forms % (Circle those ≥25%) Species (dominant species¹, secondary species², present species³)

* h ACEFERE, FRAXPEN

c _____

dc, dh, ds _____

ts _____

ls _____

gc _____

ne Phalaris arundinacea, Carex sp., Carex vulpinoidea

be _____

re Typha latifolia

ff _____

f _____

su _____

m _____

Rare Species (Local, Regional, Provincial):

34 (GPS 245)

Wildlife Notes:

RWBL
COAR