

Forest Cutting Plan

and Notice of Intent under M.G.L.
Chapter 132 – The Forest Cutting
Practices Act, 304 CMR 11.00
(Effective Date: 1/1/04)

OCT 18 2012

For DCR Use Only:

File Number 115-6079-13 Case No. _____
Date Rec'd 10-18-12 Nat. Hert. Yes 1
Earliest Start 11-2-12 Nat. Hert. Imp. Yes
River Basin Marmack Pub. Dr. Wat. no
Gen. Obj. L7 ACEC _____

Site Information

Location

NOV 18 2012

Town Groton
Road Martins Pond Road
Acres 19.7 Proposed Start Date 12/2012
Vol. MBF 60 Vol. Cds. 12 Vol. Tons 700

Plan Preparer

Name Eric V. Radlof
Address 491 Mason Road
Town, State, Zip Milford, NH 03055
Phone (603) 321-3482
Type of Preparer Other

*Mass. Forester License # Daniel J. Cyr # 046

*Required for land under Ch61, Ch61A or Forest Stewardship

Landowner

Name Town of Groton - Conservation Commission
Mailing Address Attn: Barbara Ganem
Town Hall, 173 Main Street
Town, State, Zip Groton, MA 01450
Phone (978) 448 - 1106
Ch61 Ch61A Stew *Case # _____
Est. Stumpage Value _____

Licensed Timber Harvester**

Name _____
Address _____
Town, State, Zip _____
Phone _____
Mass. Lic. Harvester # _____

**This information may be supplied after the plan is approved, but before work begins.

Best Management Practices

Stream Crossings

Indicate location on map	SC-1	SC-2	SC-3	SC-4
Type of Crossing	BR/PO	PO		
Existing Structure	No	No		
Type of Bottom	ST	ST		
Bank Height (ft)	<1'	1'		
Stabilization	CO	CO		

Wetland Crossings

Indicate location on map	WC-1	WC-2	WC-3	WC-4
Length of Crossing	50'			
Mitigation	DR/FR			
Stabilization	CO			

Filter Strips

Indicate location on map	FS-1	FS-2	FS-3	FS-4
Width (50', 100', or VA)	VA	VA	VA	

Harvesting in Wetlands

Indicate location on map	HW-1	HW-2	HW-3	HW-4
Forest Type (see pg 2)				
Acres to be Harvested				
Resid. Basal Area (>50%?)				

Service Forester Comments

Please see Natural Heritage
restrictions.
LED 10/31/12

Codes

Type of Preparer	Type of Crossing	Stabilization	Mitigation	Type of Bottom
LF Mass. Lic. For.	CU Culvert	SE Seed	FR Frozen	LE Ledge
TH Lic. Tim. Har	BR Bridge	MU Mulch	DR Dry	ST Stony
TB Timber Buyer	FO Ford	CO Corduroy	OT Other	MU Mud
LO Landowner	PO Poled	ST Stone		GR Gravel
OT Other	OT Other	HB Hay Bales		OT Other
		OT Other		

Note:

Applicant must provide DCR with all relevant information before plan may be approved and cutting may begin. Some forestry activities, such as prescribed burning and pesticide or fertilizer application may require additional permits. Consult MA Forestry BMP Manual for further information.

Forest Products

Products to be Harvested*

Table with 4 columns: Species, Mbfs/Cds, and Mbfs/Cds. Rows include White Pine, Red Pine, Pitch Pine, Hemlock, Spruce, Other Sftwd., White Ash, Beech, White Birch, B & Y Birch, and Black Cherry.

*Note: Volumes and values indicated in the Plan are as reported by the plan preparer and have not been independently verified by the service forester upon approval. Mbf = thousand board feet.

Stand Treatment

Cutting Standards

Table with 5 columns: Indicate location on map, ST-1, ST-2, ST-3, ST-4. Rows include Forest Type, Acres, Landowner Objective, Designation of Trees, Type of Cut, and Source of Regeneration.

Landowner

Landowner Signature

The most important information on a cutting plan is the Landowner's objective, as this will determine which trees will be harvested and which will remain; this decision will also determine the future condition of the forest for decades to come.

[X] LT - Long-term Forest Management

Planned management of the forest to achieve one or more of the following objectives: produce immediate and maximize long-term income, enhance wildlife habitat, improve recreational opportunities, protect soil and water quality, or produce forest specialty products.

[] ST - Short-term Harvest

Harvest of trees with the main intention of producing short-term income with minimal consideration given to improving the future forest condition, which often results in a forest dominated by poor quality and low value species.

I (we) have read the Massachusetts Cutting Plan Information Sheet, and am aware of my (our) management options. I (we) hereby certify that I (we) have the legal authority to carry out the operation described above.

Signature of landowner(s) [Handwritten Signature]

Date 10/15/12

Service Forester

Determination and Status

Form with checkboxes for Approved, Disapproved, Expires, Extension, and Amendment. Includes handwritten signature of Laura Dowley and date 10/31/12.

Final Report and Comments

I hereby certify that the afore described Forest Cutting Plan and all relevant statutes have been substantially complied with.

Signature of Service Forester/Director's Agent [Blank] Date [Blank]

Codes

Table with 5 columns: Forest Types, Designation of Trees, Type of Cut, Intermediate Harvests, and Source of Regeneration. Lists various codes and their corresponding descriptions.

Forest Cutting Plan

Narrative Page (Effective Date: 1/1/04)

Use this page to provide further explanation or if Other (OT) was used in any category on pages 3 or 4.

Landowner Groton

Town Groton

File Number 115-6079-13

BMPs

Use this Section to provide further explanation or if Other (OT) was used in any category in the Best Management Practices Section on Page 3.

SC-1, Given that the harvest is limited to a winter harvest due to NHESP identified rare species, a skidder bridge or poled ford may be used depending on the presence of flowing water at the time of harvest.

Designation of Trees

Use this Section to describe the types of trees to be harvested and/or retained if Other (OT) was used for "Designation of Trees" in the Stand Treatment Section on page 4.

Stand No.	Species to be Cut	Size of Trees to be Cut	Quality of Trees to be Cut	% BA/Acre Removed

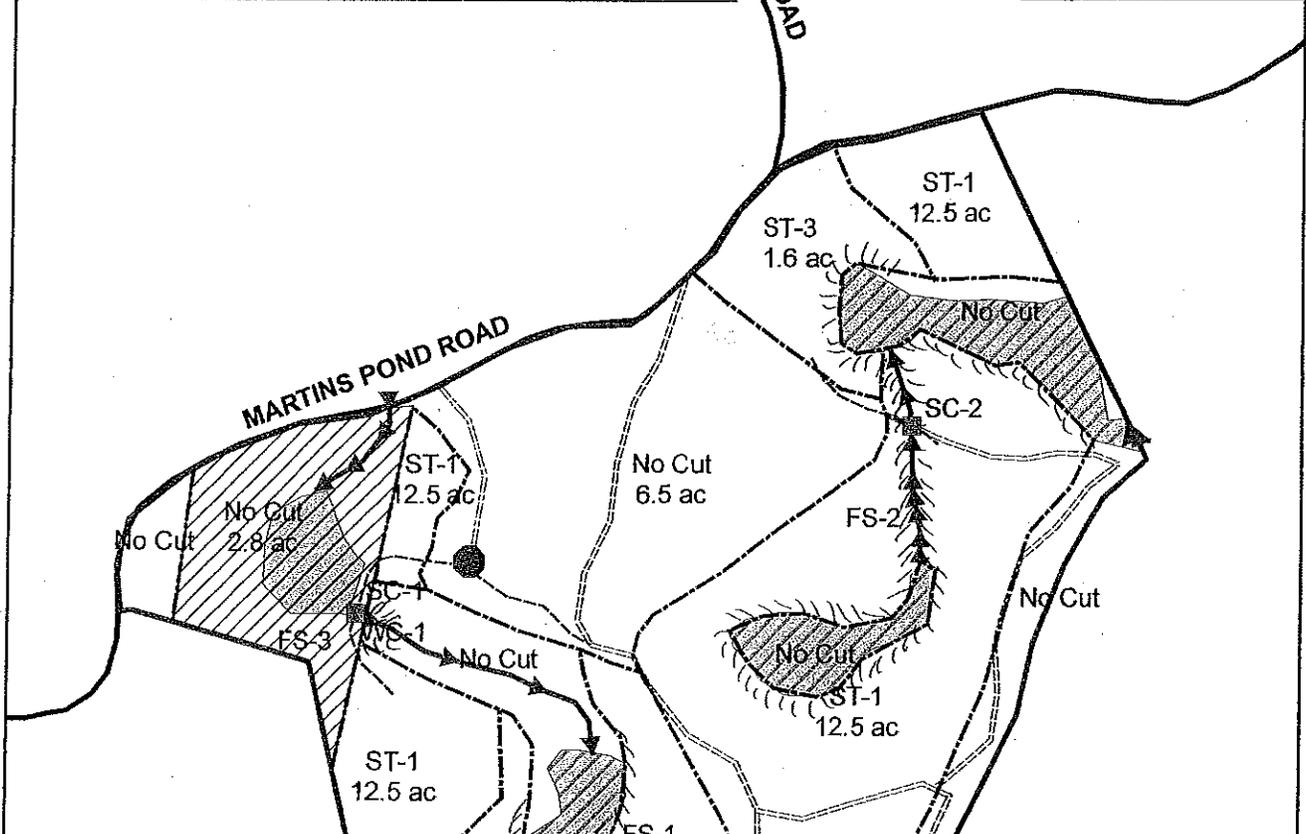
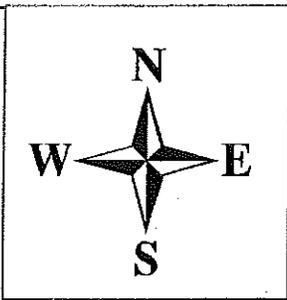
Use this Section to describe how Chapter 132 requirements will be met if a non standard system (HG, DL, or OT) was used for the "Type of Cut" in the Cutting Standards Section on page 4.

Stand No.	Source of Regeneration (ex. AD, SE)	How will Regeneration be obtained/protected? If using AD - Describe the species present and how the regeneration will be protected If using SE - Describe the source of the seed and the number of seed trees/acre

Regeneration & Future Condition

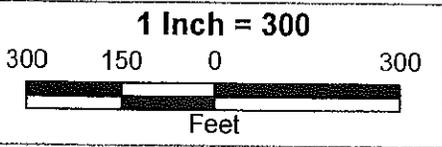
Stand No.	Desired Future Condition Describe what the stand is expected to look like five years from the harvest, including the condition of the overstory & understory

Property Map
 Groton Conservation Commission
 Baddacook Field +/- 36 ac (19.7 Harvest Acres)
 Martin's Pond Road Groton, MA
 Map created by Eric Radlof
 of Bay State Forestry Service.
 Data Source: 2000 Survey, GPS Points,
 and 2009 MA GIS Aerial and Topo.
 NOT intended as a survey map, for forestry purposes only.



Legend

- ▲ Cabin
- Foundation
- Landings
- Skid Trails
- New Access Road
- Woods Road
- Skid Trails
- Stand Line
- ▶▶▶ Streams
- Boundary
- ▨ Powerlines
- Fields
- ▨ Wetlands
- ||||| Filter Strip



Locus Map

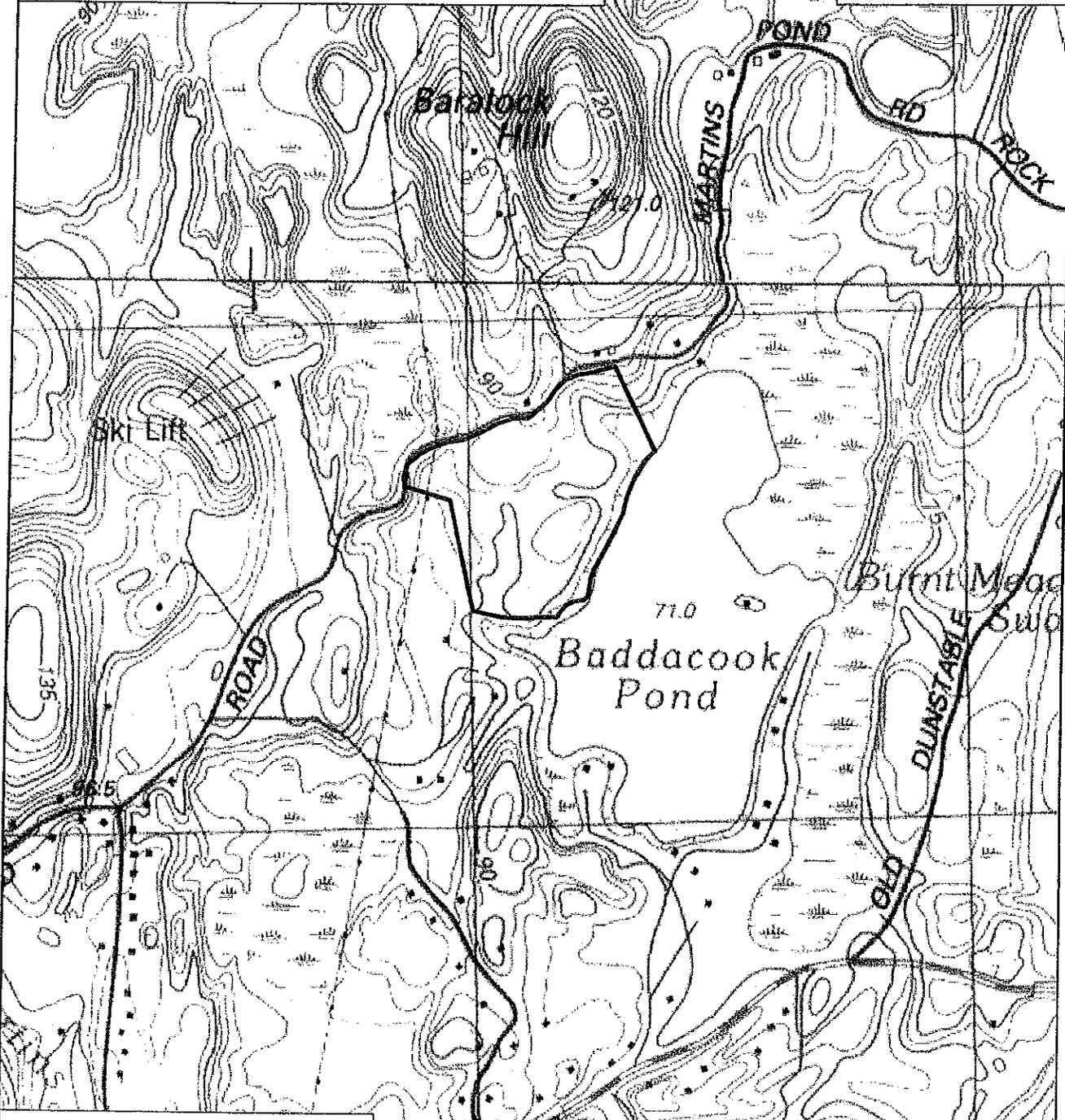
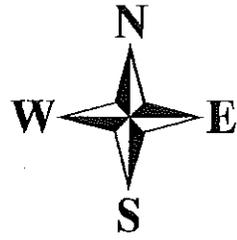
Groton Conservation Commission
Baddacook Field +/- 36 ac (19.7 Harvest Acres)

Martin's Pond Groton, MA

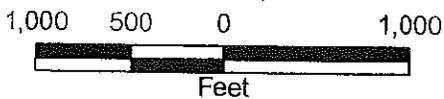
Map created by Eric Radlof
of Bay State Forestry Service.

Data Source: 2000 Survey, GPS Points,
and 2009 MA GIS Aerial and Topo.

NOT intended as a survey map, for forestry purposes only.



1 Inch = 1,000'



82.5
Substation

Legend

 Boundary

For DCR Use

File No: 115-6079-13

Appointment of Agent Form

Chapter 132 Massachusetts Forest Cutting Practices Act

Explanation:

The Chapter 132 law allows landowners to appoint an agent to "...prepare the necessary paper work, oversee operations covered by the forest cutting plan or to act as a liaison with the Director or the Director's agent." The landowner must still sign the original Forest Cutting Plan, and any major amendments. It is important to understand that the landowner remains responsible for ensuring that the statutes are followed, and any fines for non-compliance still apply to the owner of record.

Having an agent is not required. If you appoint an agent, any correspondence will be sent to both you and your agent.

Appointment of Agent:

I(we) hereby designate the following person to act as my(our) agent for the purpose of (Check all that apply)

- preparing the attached forest cutting plan
- overseeing the work described in the attached forest cutting plan
- conducting the harvest covered by the attached forest cutting plan
- acting as liaison with the Department regarding the attached forest cutting plan

I understand that the statutes, including criminal fines for violating them, continue to apply to me as the owner of record.

Agent Name Dan Cyr MA Forester License # 46
Agent Address 170 Old County Road S, PO Box 205
Town, State, Zip Francestown, NH 03043
Phone (603) 547-8804

Barbara V. Green
Signature of Landowner(s)

10/15/12
Date

I accept this appointment of agency.

Dan Cyr
Signature of the Agent

10-15-12
Date



Division of Fisheries & Wildlife

Wayne F. MacCallum, *Director*

Laura Dooley
Department of Conservation and Recreation
25 Shattuck Street
Lowell, MA 01852

Cutting Plau No.	115-6079-13
NHESP Tracking No.	12-31526
Town	Groton
Road	Martins Pond Road
Landowner	Groton Conservation Commission
Preparer	Eric Radlof
Date	October 30, 2012

Dear Laura,

The Natural Heritage and Endangered Species Program (NHESP) has reviewed the above-referenced Forest Cutting Plan (hereinafter "the Plan") pursuant to the special approval procedures of the Forest Cutting Practices Regulations (304 CMR 11.04(6)). Based on details of the Plan and information in the NHESP database, the NHESP has determined that there is potential for activities proposed in the Plan to result in "Take" (as defined in 321 CMR 10.02) of Blanding's Turtle (*Emydoidea blandingii*), a species listed as Threatened pursuant to the Massachusetts Endangered Species Act (MESA) (M.G.L. c. 131A) and its implementing regulations (321 CMR 10.00).

Blanding's Turtles inhabit various wetland complexes (e.g., ponds, marshes, and vernal pools) and the upland habitats surrounding them. Generally, these turtles are restricted to the wetlands during winter, but they migrate and disperse through terrestrial areas during the spring-fall in search of nesting, foraging, and overwintering habitats. Blanding's Turtles may even spend prolonged periods of time during the summer estivating in upland forests, where they lie dormant under logs, leaf litter, or other forest-floor substrates. Hatchling turtles disperse through upland habitats to wetlands during the late summer and fall.

The swamps, marshes, and vernal pools within and surrounding the subject parcel represent potential feeding, stop-over, and/or wintering habitats of Blanding's Turtle, and the upland fields and clearings represent potential nesting habitat. Hence, the NHESP is concerned that harvesting activities conducted within and/or near those habitats will cause direct mortality of individual turtles (e.g., as a result of crushing by motorized vehicles). The NHESP is also concerned that excessive canopy removal will negatively alter the upland habitat of pool-breeding amphibians that provide important food items (i.e., egg masses) for Blanding's Turtle. **Therefore, to avoid prohibited Take of Blanding's Turtle, the NHESP requests that the following statements be added to the Plan prior to its approval:**

- Operation of motorized vehicles at the harvest site shall occur only during the time period beginning November 1 and ending March 15.
- WC-1 shall either be bridged or used only when frozen solid and capable of supporting equipment without alteration of the soil profile and hydrological condition of the wetland.
- Canopy cover shall be maintained at 50% or greater throughout the harvest area.

The practices listed above are based on the *Massachusetts Forestry Conservation Management Practices for Blanding's Turtles*. They are intended to prevent accidental turtle mortality, preserve existing wetland structure and function, and maintain food resources for the species.

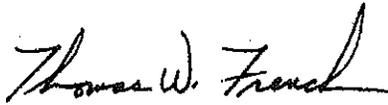
Enclosed with this letter is a table that gives draft basal-area equivalencies of 50% canopy cover, based on forest type and average dbh of canopy trees. Although the table is a draft, it should be used to meet the



canopy-cover requirement specified above. Please inspect the harvest site prior to approval of the Plan to ensure that the residual stands will meet these canopy cover requirements.

Please copy the NHESP on any proposed amendments to the Plan and on the approved plan for the site. If you have any questions about this letter, please contact Jacob Kubel at (508) 389-6373.

Sincerely,

A handwritten signature in black ink that reads "Thomas W. French". The signature is written in a cursive, flowing style.

Thomas W. French, Ph.D.
Assistant Director

Cc: Groton Conservation Commission (via e-mail)

Enclosures: Draft-basal-area equivalencies of 50% canopy cover (1 page).

Draft basal-area equivalencies (sampled with a BAF-10 prism) of 50% canopy cover.

Average dbh (in) ^c	Basal Area of Residual Trees ^a , by Forest Type ^b					
	WP, WK, RP, SR, PP, HK, TK, CD, SF	WH, HH	BW, RM, BC, BB, SM, BM, BE	WO, PO	OH	OR, OM
4	35	30	20	15	10	5
5	40	35	20	15	10	5
6	45	40	25	20	15	10
7	50	40	25	20	15	10
8	55	45	30	25	20	15
9	60	50	30	25	20	15
10	65	55	35	30	25	20
11	65	55	35	30	25	20
12	70	60	40	35	30	25
13	70	60	40	35	30	25
14	75	60	40	35	30	25
15	75	65	45	40	35	30
16	75	65	45	40	35	30
17	80	65	45	40	35	30
18	80	65	45	40	35	30
19	80	70	50	45	40	35
20	80	70	50	45	40	35
21	85	70	50	45	40	35
22	85	70	55	50	45	40
23	85	75	55	50	45	40
24	90	75	55	50	45	40
25	90	80	60	55	50	45
26	90	80	60	55	50	45

^a Residual overstory trees greater than or equal to 30 feet tall and having dbh greater than or equal to 4 inches.

^b Forest type should be based on residual overstory trees; refer to Cutting Plan form for definitions of forest types.

^c Average dbh (in inches) of residual overstory trees greater than or equal to 30 feet tall and having dbh greater than or equal to 4 inches.

dcf



COMMONWEALTH OF MASSACHUSETTS
Department of Conservation and Recreation
Division of State Parks and Recreation

FILE # 115-6099-13

FOREST CUTTING PLAN CERTIFICATE

Post this in a conspicuous place within the area in which the harvesting operation is to take place.

This certifies that Town of Groton
(Name of Owner)

(Address) _____ in accordance with the

provision of M.G.L. Chapter 132, Section 40-46, filed in Clinton with the Dept. of Conservation and Recreation, Division of State Parks and Recreation, a Notice of Intent to cut forest products upon the Mentras Pond Rd. lot.

Approval Date 10-31-12
Director's Agent Laura Dooley
DCR Phone No. 978-937-2092
X-112

ISSUED BY: Priscilla E. Geigis
Priscilla E. Geigis, Director
Division of State Parks and Recreation