## **Indiana Department of Natural Resources - Division of Forestry**

### PRESCRIBED BURNING PLAN

Property Name: Greene-Sullivan State Forest County: Greene & Sullivan

Management Unit: Reservoir 29 Dam Sec: 36 Twp: 7N Range: 8W

Projected Size of Burn 8 acres Lat/Lon: 39.00°N 87.24°W

Projected Date of Burn: February/April 2011

Description of Burn Unit (includes information on overstory, understory, fuel type and topography):

This area is short grass (fescue) and clover with scattered saplings.

#### Resource Management Objective of Burn:

Kill off invading woody vegetation.

History of Previous Burns (includes dates, results, wildfire or prescribed, etc.):

Area burned off in the spring of 2009, 2006, 2004, 2001, 1997, 1996, 1994 & 1992. The fires are controlling the spread of woody vegetation outside of the heavily rip-rapped areas.

Description of adjacent area (if significantly different in fuels, topography, etc.):

The east side has forested stripper hills. This area is mixed hardwoods with very little brush in the understory.

## Special Considerations (include flora, fauna, safety, public not in agreement, etc.):

Safety area- The gravel road and adjacent rip-rap by reservoir 29 at the top of the dam will be a safe area.

Problem Areas could be a couple of areas with trees next to the grasses where mechanical or hand control lines will be established.

Ignition sequence— one torch will start at the top around the area and the second torch will start at the bottom around the area. The bottom torch should not pass the top torch. This area is open and keeping in visual contact should not be a problem.

Since this is a dam vegetation should not burn down into the soil.

## Complexity of Burn based on Complexity Rating System (attach rating scale) (circle one):

Basic Complex

#### Acceptable Burning Parameters (minimum/maximum):

- 1. Type of firing method (circle all appropriate): backing  $\frac{\text{flank}}{\text{head}}$  ring  $\frac{\text{strip}}{\text{head}}$
- 2. Allowable Rate of Speed (specify ft./min. Or ch./hr.) 69-270 ch/hr
- 3. Allowable Flame Length (feet) 3.5-12
- 4. Allowable Mid-Flame Wind Speed (mph) 3-7
- 5. Allowable Wind Direction (circle all appropriate):  $\underline{N}$   $\underline{NE}$   $\underline{SE}$   $\underline{SE}$   $\underline{S}$
- 6. Relative Humidity (percent) 30-55
- 7. Temperature (degrees Fahrenheit) 45-70
- 8. Time of Year (circle all appropriate): Spring Fall
- 9. Fuel Moisture 1 hr. TLFM 7-8 10 hr. TLFM(fuel sticks) 11-14 10. Days Since Last Rain 3-10

#### Pre-Burn Preparations Required:

Build 6 ft. disc line on south and north ends and a short section on the east side.

a.       Dozers by Type       j.       3       Backpack Pumps         b.       Observation Aircraft       k.       Hose Quantity(hose size)         c.       Engines by Type       1.       2       Drip torches(slash fuel qty_5_)         d.       Chainsaws & Fuel       m.       2       Mobile Radios         e.       Portable Pumps       n.       4       Portable radio         f.       1       Belt Weather Kits       o.       Fire Behavior Printouts         g.       Brush Cutter & Fuel       p.       Maps/Photographs         h.       3       Council Rakes       q.       3       Flappers         I.       Quadrunner       r.       *       2       4x4 pickups w/120 gal tank & 100 ft	Equip	ment Need	led:				
Quantity(hose size)         c.       Engines by Type       12 Drip torches(slash fuel qty_5_)         d.       Chainsaws & Fuel       m2 Mobile Radios         e.       Portable Pumps       n4 Portable radio         f.       1 Belt Weather Kits       o Fire Behavior Printouts         g.       Brush Cutter & Fuel       p Maps/Photographs         h.       3 Council Rakes       q3 Flappers         I.       Quadrunner       r* Other (specify)         * 2	a		Dozers by Type		j.	3	Backpack Pumps
torches(slash fuel qty_5_)  d. Chainsaws & Fuel m. 2 Mobile Radios  e. Portable Pumps n. 4 Portable radio  f. 1 Belt Weather Kits o. Fire Behavior Printouts  g. Brush Cutter & Fuel p. Maps/Photographs  h. 3 Council Rakes q. 3 Flappers  I. Quadrunner r. * Other (specify)  * 2 4x4 pickups w/120 gal tank & 100 ft	b		Observation Aircraf	t	k.		
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f.       1       Belt Weather Kits       o.       Fire Behavior Printouts         g.       Brush Cutter & Fuel       p.       Maps/Photographs         h.       3       Council Rakes       q.       3       Flappers         I.       Quadrunner       r.       *       Other (specify)         *       2       4x4 pickups w/120 gal tank & 100 ft	d		Chainsaws & Fuel		m.	2	Mobile Radios
g.       Brush Cutter & Fuel       p.       Maps/Photographs         h.       3       Council Rakes       q.       3       Flappers         I.       Quadrunner       r.       *       Other (specify)         *       2       4x4 pickups w/120 gal tank & 100 ft	e		Portable Pumps		n.	4	Portable radios
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* 2 4x4 pickups w/120 gal tank & 100 ft	h	3	Council Rakes		q.	3	Flappers
11000	I		Quadrunner	* 2			

#### Personnel Needed (include number and qualifications):

- 1 burn boss
- 1 holding specialist
- 2 firing specialist
- 2 crew members

NOTE: All personnel must wear all personal protective equipment as outlined in the Division of Forestry Wildland Fire/Prescribed Fire Policy.

Smoke Sensitive Areas within 10 Miles (specify type, distance and direction from site):

Linton - NE 3.5 miles Dugger - N 4 miles Bucktown - W 1 mile Pleasantville - S 2 miles

Contingency Plan for Escaped Fire (only employees that meet physical fitness and training requirements can be utilized during active suppression):

Qualified personnel will suppress wildfire. Other personnel involved will hold prescribed fire line where appropriate. If this is not possible, personnel will retreat to a safe area.

#### Contacts:

#### Pre-Burn:

Contact	When	Who Will Do	How
Weather Service	Day before	Steve	TX
Fire Departments	Day before	Philomene	TX
Conservation Officer	Day before	Philomene	TX
County Sheriff	Day before	Philomene	TX
County Health	Day before	Philomene	TX
Local Residents	ASAP and day before	Steve	Personal
Burn Day:			
Weather Service	AM	Steve	TX
All Cooperators	AM	Philomene	TX or Radio
Local Residents	AM	Philomene	TX or Personal
Fire Headquarters	AM	Philomene	TX or Radio

**Spot Weather Forecast** (circle source): <u>NOAA Weather</u> **NWS** <u>Internet</u> Media(specify) Other(specify)

1.	Sky	6.	Highest Temperature
2.	Precipitation	7.	Lowest Relative Humidity
3.	Cold Fronts	8.	Atmospheric Stability
4.	LASI	9.	Wind Speed

5. Wind Direction Firing Techniques and Preparation

Attach a map or detailed drawing showing area to be burned, firebreaks, ignition sequence, equipment and personnel placement, roads, water supplies, etc.

PROJECT NAME: Reservoir 29 Dam

DATE: February-April

### Complexity Point Record

Matrix Item	Parameter Value	Severity Points
1. Firing Technique	_backing_	3
2. Fuel Model Outside Unit	9	2
3. Unit Shape	somewhat uniform	5
4. Fuel Model of Burn	1	6
5. Unit Size	8 acres	6
6. Days Since Last Rain over 2	2" <u>3 days</u>	2
7. Season of Year	_February/March	4-10
8. Types of Control Line	natural blackline	3
9. Risk of Escape	5-10%	3
10. Values at Risk	none	1
11. Availability of Resources	no fires other burns	1
12. Dead Fuel Moisture	11-14	4
(10 Hour Sticks)		
13. Relative Humidity	30-55	3-13
14. Eye Level Windspeed	2-12	1-4
15. Temperature	45-70	5

16. Time of Day	_1000-1700	13		
Total Severity Po	pints =	62-79		
GO-NO-GO Check Li	.st:			
1. Are all fire prescription specifications met? 2. Is the weather forecast favorable now and throughout burn? 3. Are all necessary lines constructed and checked? 4. Are all personnel required in the plan on-site? 5. Have all personnel been briefed on the prescribed burn plan? 6. Have all personnel been briefed on safety hazards, escape routes, and safety zones? 7. Do all personnel have the required PPE with them? 8. Is all required equipment in place and in working order? 9. Do you have direct communication to a DNR dispatcher? 10. Have you made all notifications? 11. In your opinion can the burn be carried out according to the plan and will it meet the planned resource management objectives?  If all 11 questions were answered yes, you may proceed with the test fire.				
Proposal Prepared	By: Steve Siscoe, Property Manager	<b>Date:</b> 2/11/11		
Reviewed by Section Chief: Dan Ernst Date:2/21/11				
Reviewed by Fire H	eadquarters: <u>Drew Daily</u>	<b>Date:</b> 2/22/11		

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You **must** indicate the State Forest Name, Compartment Number and Tract Number in the "Subject or file reference" line to ensure that your comment receives appropriate consideration. Comments received within 30 days of posting will be considered.

# Reservoir 29 Dam

