Burn Prescription Site: Cedar Bend Park

Site Summary: 19-acre dry woodland on steep south-facing slope on north bank of Huron River
Elevation: 750-950
Location: Between Cedar Bend Dr. and Island Dr.
Lat: 42.28 Long: -83.709

Nearest Major Cross Streets: Broadway and Cedar Bend Dr. **On-Site Contact Info:**

Truck Access: (NAP or Fire Dept.) Cedar Bend Dr. or Island Dr. **800 mgHz radio:**Ch.4B- 184
Ch.4B"184"184Ch

Nearest Supplemental Water Source: Huron River- may be hydrants nearby **Dave cell ph:** 734-XXX-XX

Nearest Telephone (other than cellular): Neighbors or UM Bates Dorm **Crew cell ph:** 734- XXX-XX

Ownership: City of Ann Arbor, Dept. of Parks and Rec.; some University of Michigan

Fire Jurisdiction: City of Ann Arbor **T, R, Sec:** T2S,R6E,section 21

Emergency Assistance: 911
Other Numbers: Ann Arbor Fire Marshall, Kathleen Chamberlain: 994-4907
Ann Arbor Police: 994-2875

Secure permission from:

Before burning notify:

_____ **Ann Arbor Fire Department Dispatch** 555-FIRE Radio Freq #99,Call #WPDA 999
_____ **Township Fire Dept:** AA 555-2222, Station #1 555-3333, Central Dispatch 555-4444
_____ **Parks & Rec Department** 555-PARK **Park Operations** 555-OPER
(_____ Park Ranger via radio: channel 99 Dan Booker - call #999)
Community by: ____ newspaper ____ radio ____ pre-burn mailing (see attached map)
Neighbors wanting call:
_____ Kim Gordon 350-0233 (9140 Broadway)
_____ Nikola Tesla h: 623-5699 or w: 455-7853 (5063 Cedar Bend Dr)
****Burn** Tesla's in-park wildflower **garden** whenever we burn but call first to coordinate**
_____ Edith Piaf 553-0070 (Greenhills School workday advisor)
_____ Jean-Luc Godard h-551.1888 & c-021.3597 (Cedar Bend Dr)
_____ Justin Timberlake, 333.6778, 32 Jones Dr, concerned about allergies
Others:
_____ DPS 799.3225 (UM Public Safety)
Call DPS only Gertrude Stein 605.4988 or 648.4999 (UM Fire Marshall)
Call DPS only Sgt. Jean Cocteau 748.1111 (DPS Fire Inspector)
_____ UofM Hospital, Hospital Director of Facilities Operations Rasheed Wallace 655.3366
_____ Norman Bates 865.3267; office 654.9833 (UM Bates House Dorm, Hall Dir)
_____ Caetano Veloso 557.3664 (Park Steward)
_____ Hermann Hesse, VA Hospital Police, 887.4479 x7914
_____ Gwen Frostic (UM Housing Director) 604-3048.

Permits:

_____ **Fire Inspector** Allan Perry c: XXX-XXXX
_____ UM Public Safety, Ian Steinman

Area	Direction	Distance
Cedar Bend Dr	N	adjacent
Island Dr	S	adjacent

Smoke sensitive areas:

Smoke Management Actions to be Taken:

1) Conduct burn when atmospheric conditions allow for maximum lifting, mixing and transportation.
2) Create burn breaks around dead snags, chimney trees, stumps, logs brush piles to prevent burning.
3) Attempt to have the burn and mop-up completed prior to rush hour traffic.
4) Make sure nothing is left smoldering when we leave the site.
5) Schedule burn during weekdays when fewer people on-site or in nearby homes.

Site Description: Steep, south-facing slope above river. Patchy high quality oak-hickory woodland with open understory and thickets dominated by honeysuckle; disturbed areas correspond fairly well with sections terraced for orchards earlier this century

[x] **woodland** 19 acres [] **savanna** [] **prairie** [] **old field** [] **wetland**

Total acreage: 19 acres
Slope & Aspect: Steep south-facing slopes with several gentler ravines creating east and west slopes

Fire Behavior Prediction System (FBPS) Fuel Model type(s): 8 spring, 9 fall

Burn Breaks: Blow or rake burn breaks along trails ensuring mineral soil is exposed. Complete around entire burn unit.

Burn Objectives:
1) Restore native dry forest ecosystem by stimulating native flora and discouraging exotic species.
2) Follow-up control of invasive garlic mustard which has been burned the two previous years.
3) Suppress woody understory, improving site for herbaceous native dry woodland plants and animals, and thereby reducing erosion on currently unvegetated slopes.

Native Species Expected to Benefit Include: State-threatened Upland Boneset (Eupatorium sessilifolium); wide variety of dry woodland flowers such as Bloodroot, Hepatica, Pennsylvania Sedge.

Photo Monitoring Points: See attached photo monitoring map

Fire Sensitive Plant/Animal Species of Concern: Potential for Mississauga rattlesnake (burn before August).

Window of opportunity to burn: Spring- When garlic mustand seedlings are about 1" high (site is considered too steep for fall burn)

Desired fire behavior: 1-2' flames burning with enough intensity to kill garlic mustard and invasive shrubs, stopping at downwind fire breaks and top of hill
Weather, fuel, and fire behavior parameters:

	Minimum	Maximum	Preferred
Temperature (☜F)	40	85	65
Relative humidity (%)	20	50	35
Wind speed (mph) reported @ 20'	5	25	5
Wind speed (mph)	1	8	0-3

on site midflame			
Wind direction (degree)	0-360 if < 15mph with bar. pressure > 30.00" (slope is expected to be a greater factor than wind direction). If bar pressure < 30.00", avoid S or W winds.		

Fire sensitive areas/hazards how to avoid:

Any dead standing trees or logs	Blow breaks around, prior to burn
Leaf and brush piles along the top of slopes (especially one large debris pile on downslope side of interior road at first bend near J)	Blow breaks around, prior to burn and ignite on other side of burn
Tires, batteries, and other garbage dumped along road	Remove from site prior to burn

Firing technique and ignition pattern- see attached map:
If wind is from S:
1) 3 ignitors walking west-east (1 each at points C,D,E).
Upslope ignitors walking ahead of downslope ones and converging on point Q = E-F-H-I-J-R-Q // D-U-T-R-Q // C-B-S-Q.
Middle ignitor lighting on both sides of trail, and others igniting only inside 1st burn unit.
2) 2 ignitors walking east-west from Q to B, one along road at top of unit (Q-S-B), and the other along the lower slope (Q-A-B).
The top ignitor slightly ahead of the lower.
3) 3 ignitors walking from J to Q: one along upper slope (J-K-L-M-Q); one along lower road (J-R-Q); and one along slope roughly through the center of unit, igniting through patchy fuels and ensuring that all garlic mustard stands ignite.
Again, higher elevation ignitors should be ahead of those further downslope to avoid smoke from lower fires.
Top ignitor should reach midpoint of Q-M section before middle ignitor, then both should proceed together to Q before lowest ignitor reaches point R.
4) 2 ignitors starting at point M.
The first walking quickly along the top of the slope to N, then proceeding to O when a sufficient black line has been established
The second walking slower to Q and reaching it at the same time as O is reached by the first.
Both ignitors then proceed to P.

Site preparation plans:
Use leaf blower to remove fuel from western-most trail
Remove fuel from around any potential chimney fire dead trees, brush piles, logs, etc...
Water truck parked on Baits Rd. at top of hill (to extinguish smoldering leaves)
Equipment truck with extra fuel and water parked at Q

Road Closures Required:
Cedar Bend Dr.- only the section within the park boundaries (one-way going downhill)
Close top with barricades.
Close bottom w/ orange cones and flagging to warn hikers and cyclists

Designated Public Viewing Area: Across the river in Fuller Park

Minimum crew size (not counting Burn Leader): 8

Igniters (3)
Backpack Sprayers (3)
PR/ Smoke Monitors (2)

Additional Roles:

Equipment:	**# Available**	**# Needed**
Backpack sprayers	**6**	3
Water filters	**3**	3
Flappers	**5**	
Fire rakes	**1**	1
Council rakes	**4**	4
Hard rakes	**2**	2
Leaf rakes	**6**	6
Fire brooms	**2**	
Drip torch	**3**	3
Pulaski	**2**	2
Chain saw	**1**	1
800 mhz radio (994-4688 x 1261)	**4**	4
Signs (see map) Trail closing	**6**	6
Signs (see map)Roadside	**2**	2

Cellular phone #: 734-XXX-XXXX
Additional Water Supply: mobile 300 gal tank
Other: Leaf blower

Signature of Burn Leader: _____ Date: _____
David Borneman