

Stoller

7163
established 1959

Task Order LM00-502
Control Number 09-0419

January 21, 2009

Mr. Michael Fair
Hamilton County Environmental Services
250 William Howard Taft Road
First Floor
Cincinnati, OH 45219

SUBJECT: Contract No. DE-AM01-07000LM00060, Stoller
Task Order LM00-502, LTS&M – Other Defense Activities
Open Burning Request Forms

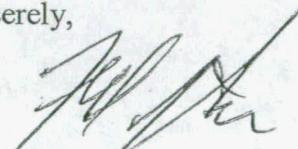
REFERENCE: LM00-502-06-506 ODA CERCLA/RCRA Site, Fernald, OH

Dear Mr. Fair:

Please find enclosed for your review and approval, three Open Burning Request Forms for prescribed burns planned for the Fernald Preserve for spring 2009. Maps and a copy of the Fernald Preserve Prescribed Burn Plan pertinent to the Open Burn Request are also enclosed. The first map identifies the fire boundary and close proximity. The second map shows the location of the fire on the Fernald Preserve property. The third map identifies smoke sensitive facilities within five miles of the Fernald Preserve. The Fernald Preserve Prescribed Burn Plan contains the smoke management strategy for the planned burn.

If you have any questions or require additional information, please contact Harold Swiger at (513) 648-7528.

Sincerely,



Frank Johnston
Fernald Preserve Site Manager

FLJ/HS:dsm

Enclosure

c: John Homer, Stoller
Harold Swiger, Stoller
rc-ferald (Thru W. Sumner)



Open Burning Request Form

Personal Information

Full Name: Swiger Harold E.
Last First M.I.

Address: S. M. Stoller 10995 Hamilton – Cleves Hwy.
Street Address Apartment/Unit #

Harrison Ohio 45030
City State ZIP Code

Home Phone: Alternate Phone:

Open Burning Site Information

Burn Site Address: 7400 Willey Road
Street Address

Crosby Township Hamilton
City or Township County

1) Provide a sketch of the burn location below or on an attached sheet. Include the location of the site and burn location within the site, nearest road intersection(s) and distance to/placement of nearest off-site structures including a map showing distances to residences, populated areas, roadways, air fields, and other pertinent landmarks.

Map containing burn location and five mile radius is attached.

- 2) Describe the purpose for the burn.
 Choose a category:
- Land Clearing
 - Recognized horticultural, silvicultural, range management or wildlife management practices
 - Fires and/or pyrotechnics as part of film-making or video production
 - Prevention or control of disease or pests
 - Disposal of ignitable or explosive materials
 - Instruction for methods of fire fighting or for research in the control of fire (complete item 4 below)

Provide a brief written description of your proposed burn:

Irwin Prairie North Fire is located on the Fernald Preserve adjacent to Paddys Run Road. Across the Road from the proposed burns is a pallet factory and a trucking company has building down the road. A buffer area will be left between the proposed burn and Paddys Run Creek to the east. A strip will be left between the road and the fire.

The prairie is a developing tall grass prairie with native grasses and wildflowers. The prairie has been invaded by Canada thistle. The thistle has been treated with herbicides to try to control them.

The purpose of burn is to improve prairie composition and growth and to control undesirable and invasive species of plants.

Open Burning Request Form

- 3) Describe the material to be burned and the quantity of the material to be burned for any category identified in 2 above except for "Instruction for methods of fire fighting or for research in the control of fire" [see the following web link for what can be burned: <http://www.epa.state.oh.us/dapc/regs/3745-19/3745-19-03.pdf>]

Irwin Prairie North Fire – Approximately 5.5 acres

Fuel types: Fuel Model 1 – grass < 3 ft. in height – 40% of unit

Fuel Model 3 – grass > 3 ft. in height – 60% of unit

Fuel loads are light to heavy.

- 4) To be completed if "Instruction for methods of fire fighting or for research in the control of fire" is chosen in 2, above. If a structure is to be burned for fire training purposes, call the asbestos program coordinator to obtain a copy of the NESHAPS regulations (614-644-2270).
- Asphalt shingles should be removed prior to burning. Have they been removed?
 Yes No Not Applicable
 - Vinyl siding should be removed prior to burning. Has all vinyl siding been removed?
 Yes No Not Applicable
 - Asbestos containing material may need to be removed ¹prior to burning. Friable asbestos must be removed by a licensed asbestos abatement contractor. Have all asbestos containing materials been removed?
 Yes No Not Applicable

- 5) Did the material to be burned originate from the same site where it is being burned?
 Yes No

- 6) Is the burning site located within a restricted area? A restricted area is defined as the area within the boundaries of any municipal corporation (plus a 1,000 foot zone around cities having a population of 1,000 - 10,000 and a one (1) mile zone around cities greater than 10,000).
 Yes No

- 7) Provide the date(s) and Time(s) when the burning is anticipated to take place:

Begin	
Date	Time

End	
Date	Time

Or,

For recognized horticultural, silvicultural, range management or wildlife management practices, please identify the range of dates and times the burn is expected to occur:

From: February 1, 2009 To: May 31, 2009

From: 10:00 A.M. To: 6:00 P.M. (same day)

¹ All demolition/renovation must be reported. If ACM is present, notification or approval for removal must be completed. See instructions for more details.

Open Burning Request Form

8) What methods or actions will be taken to reduce the emission of air contaminants?

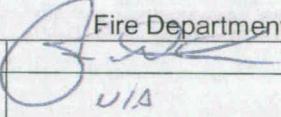
The affects of smoke to the local area and the ambient air quality will be minimized by burning only on days with upward air movement. Prescribed burns will be limited to days when the air currents would lift the smoke to altitudes above 1700 feet. Weather thresholds would also include direction of wind. If the smoke could be blown towards sensitive areas without sufficient atmospheric lift, then the burn would be postponed.

Current and forecast meteorological data will be utilized to identify wind and atmospheric conditions for area.

Fire Department Section

1) Local ordinances may prohibit burning, or require additional restrictions. Please identify the local fire department where the burn will take place. Please obtain signature of the Fire Chief (note, this is not required but failure to notify may subject you to violation of local ordinances).

Fire Department Section			
Fire Chief (printed name):	Steve Miller		
Name of Fire Department:	Ross Township Fire Department		
Address:	2567 Cincinnati-Brookeville Road	Ross	45013
	<i>Street</i>	<i>City/Township</i>	<i>Zip Code</i>
Phone Number	(513) 863-3410		

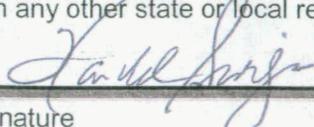
Fire Department Section (continued)	
Signature of Fire Chief:	
Comments from Fire Chief (if any):	N/A

Submission Certification

I, certify that the information set forth above is true and complete.

I realize that the Ohio EPA, after this request, may determine that the open burning is not allowed under its regulations, or may impose certain requirements as part of approval of my request, and shall notify me to that effect once they make such a determination.

In addition, I realize that no open burning shall be conducted in an area where an air pollution alert, warning, or emergency is in effect and that submission of this notification of intent does not exempt me from compliance with any other state or local regulation or ordinance.



 Signature

1-16-2009

 Date

Open Burning Request Form Instructions

Additional important information to note:

- The Ohio Department of Natural Resources has statutory authority for reviewing requests to conduct prescribed burns (e.g., burning off fields to promote prairie grasses). In addition, concerned with the potential for brush and forest fires, the ODNR Division of Forestry prohibits outdoor burning in rural areas between the hours of 6 a.m. and 6 p.m. during the typically dry months of March, April, May, October and November. So, regardless of if Ohio EPA grants permission to open burn from an environmental perspective, if you live in an unincorporated area, ODNR may deny permission to burn during these times/months due to fire safety concerns. For more information, see the following ODNR resources:

<http://www.dnr.state.oh.us/Portals/18/fire/pdf/OhioFireLaw.pdf>

<http://www.dnr.state.oh.us/forestry/Home/fire/wildfire/tabid/5146/Default.aspx>

- Some local jurisdictions may have additional restrictions on burning materials or burning at times that are otherwise approvable under Ohio EPA's open burning rules. The following links can be used to access Ohio township and city/village websites:

Townships via the Ohio Township Association

<http://cpmra.muohio.edu/otaohio/Websites.htm>

Cities & Villages via the Ohio Municipal League

<http://www.omloho.org/OMLMunicipalData/omlmunidata.htm>



Butler County
Hamilton County

Safety
Zone

Parking
Lot

Paddy's Run Road

Paddy's Run

Legend

- | | | | |
|----------------|-------------------|---------------------|-------------------|
| Fire Burn Area | Road-paved | Open Water | Treeline |
| Excluded | Road-gravel | Wetland | Backup Fire Break |
| Safety | Trail | Paddy's Run | |
| | Elevation Contour | Intermittent Stream | |



U.S. DEPARTMENT OF ENERGY
HAMILTON, OHIO

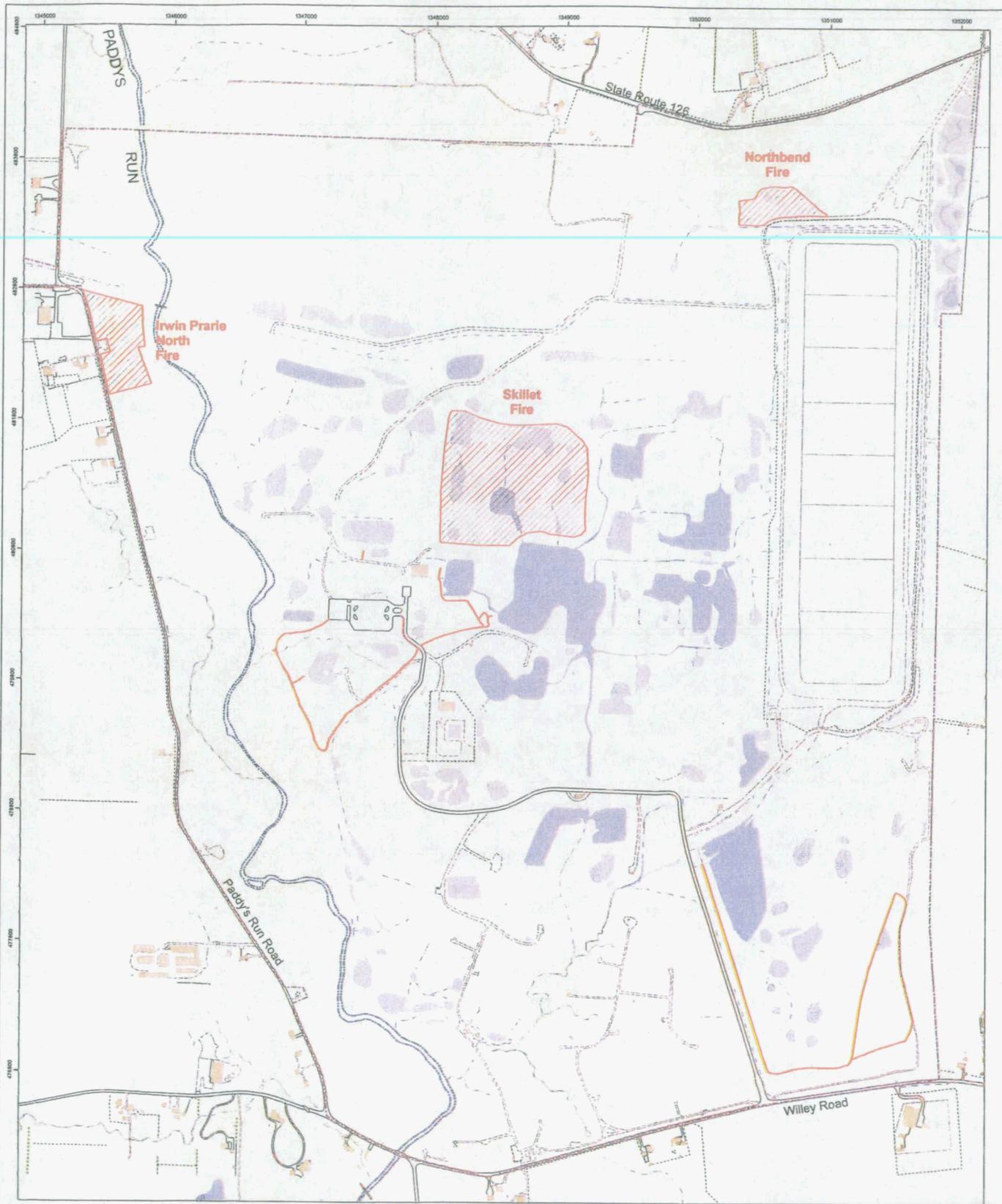
Work Performed by
S.M. Stoller Corporation
Under DOE Contract
No. DE-AC02-01OR21400

Fernald Preserve
Irwin Prairie North Fire Burn Area
2009

DATE PREPARED
January 19, 2008

FILENAME
fer_fire_irwinPrairieNorth_2009.mxd

© 2008 Ohio Department of Energy, Hamilton County, and S.M. Stoller Corporation. All rights reserved. Project: Irwin Prairie North Fire Burn Area, 2009. File: fer_fire_irwinPrairieNorth_2009.mxd. Pinned: 01/19/08



Legend

- Fernald Preserve Boundary
- Fire Burn Area
- Trail
- Building
- Paddy's Run
- Intermittent Stream
- Open Water
- Road-paved
- Wetland
- Road-gravel
- Treeline



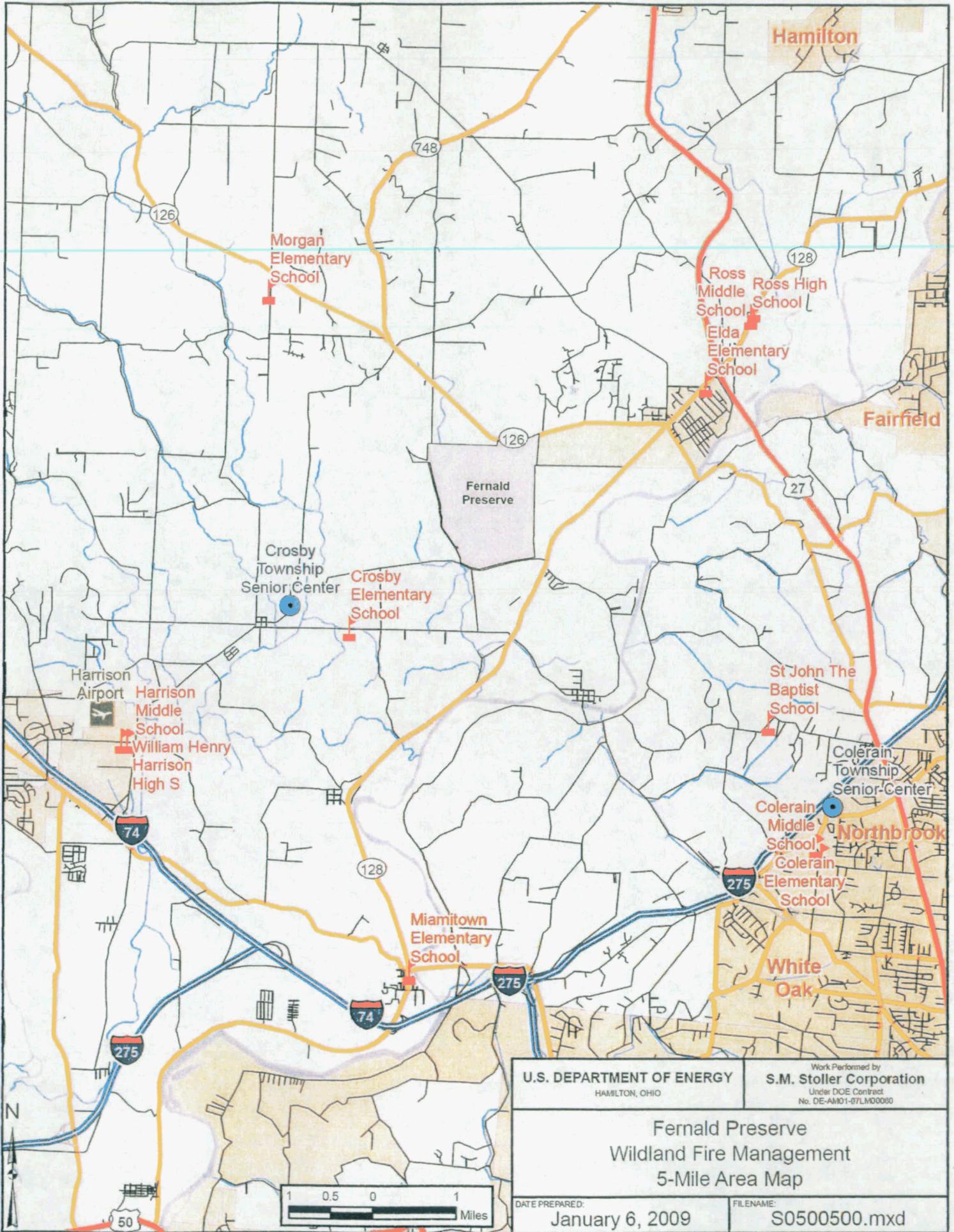
U.S. DEPARTMENT OF ENERGY
HAMILTON, OHIO

Work Performed by
S.M. Stoller Corporation
10000 ZOO CENTER
N.W. DEARBORN, MI 48150

**Fernald Preserve
Fire Burn Areas
2009**

DATE PREPARED:
December 16, 2008

FILENAME:
fer_fire_2009.mxd



U.S. DEPARTMENT OF ENERGY HAMILTON, OHIO	Work Performed by S.M. Stoller Corporation Under DOE Contract No. DE-AM01-87LM00060
Fernald Preserve Wildland Fire Management 5-Mile Area Map	
DATE PREPARED: January 6, 2009	FILENAME: S0500500.mxd

Fernald Preserve Prescribed Fire Burn Plan

7400 Willey Road, Harrison, Ohio 45030

Burn Name Irwin Prairie North Fire Burn Manager Harold Swiger 2007019

Burn Location Fernald Preserve's Irwin Prairie. Burn is located on the western edge of the Fernald Preserve. It is bordered on the west by Paddys Run Road, on the east by Paddys Run Creek and a deer fence, and on the old Fernald railroad bed on the north. The Irwin Prairie runs almost to the Hamilton/Butler County line on the north (See attached map). A fire-break will be constructed to delineate the southern edge of the burn.

County Butler (Ross Township) Hamilton (Crosby Township) State Ohio

Burn Size ~ 5.5 acres

Site Description This tract is a newly established upland tall-grass prairie. The land gently slopes down from the road on the west to the east and levels out prior to reaching the creek. Trees along Paddys Run Creek shade the prairie in the morning but full sunlight is available the rest of the day. The railroad bed along the north edge of the prairie has a steep bank with a covering of trees and shrubs. The area has been chemically treated extensively for Canada thistle over the last few years. An access trail runs through the center of the fire area.

Fuel Types			% of Unit Area
Fuel Model 1 – grass less than 3 feet in height		40	% of Unit Area
Fuel Model 3 – grass greater than 3 feet in height		60	% of Unit Area
			% of Unit Area
			% of Unit Area

Purpose of Burn Improve grass composition and growth.

Burn Objectives - Reduce thatch

- Remove undesirable and invasive species.

- Promote early growth of desirable grass and forb species

Permits	Submittal Date	Receipt Date
State Burn Ban Waiver		
State Air Quality Permit		
DOE Burn Moratorium Waiver		

Smoke Sensitive Areas	Direction	Distance
Crosby Elementary School	Southwest of site	~2 miles
Crosby Senior Center	Southwest of site	~2.2 miles
Elda Elementary School	Northeast of site	~3.3 miles
Ross Middle/High Schools	Northeast of site	~3.5 miles
Morgan Elementary School	Northwest of site	~2.7 miles
St. John the Baptist School	Southeast of site	~4.9 miles
Harrison Middle School	Southwest of site	~4.6 miles
W H Harrison High School	Southwest of site	~4.7 miles
CSX Railroad Line	West of Site	< 1/4-mile
Cincinnati West Airport	Southwest of site	~4.6 miles
State Route 126	North of Site	< 3/4-mile
State Route 128	East of Site	~1.5 miles

Fernald Preserve Prescribed Fire Burn Plan

7400 Willey Road, Harrison, Ohio 45030

Burn Name Irwin Prairie North Fire

Burn Manager

Harold Swiger

Wind Factors		Optimal Range	Predicted	Actual
Surface Winds	Speed	2 to 10 mph		
	Direction	West to Southwest		
Transport Winds	Speed	10 to 25 mph		
	Direction	West to North		
Minimum mixing height		1700 to 6500 feet		
Dispersion index		Neutral to unstable		

Weather Factors		Optimal Range	Predicted	Actual
Minimum relative humidity		30% to 55%		
Maximum temperature		38°F to 78°F		
Fine fuel moisture		6 to 10%		
Days since rain		3 to 7 days		
Rain amount		Trace to ¼-in./soil moist		

Fire Behavior		Optimal Range	Actual
Type fire		Strip-heading fire	
Head-fire flame length		1.5 to 14.9 ft.	
Head-fire rate of spread		10 to 148 ch/h or 0.1 to 2 mph	
Back-fire flame length			
Back-fire rate of spread			
Date of Burn		February 1 – May 31, 2009	
Time of Burn		10:00 hrs to 18:00 hrs	

Line of Responsibility

Name of Crew Member	Responsibility	Report

Equipment	Location	Crew Size
Pump on Gator	Fire line around perimeter	2
Backpack pumps	Fire line around perimeter	3

Fernald Preserve Prescribed Fire Burn Plan

7400 Willey Road, Harrison, Ohio 45030

Burn Name Irwin Prairie North Fire

Burn
Manager

Harold Swiger

Site Preparation/Fire Breaks Bush-hog a fire-break adjacent to Paddy's Run Road to a distance of 40 ft. from edge of road. A fire break will be cut along the remaining perimeter using a bush-hog to a width of approximately 30 ft. Ensure cut grass is not bunched or piled within fire-break. A 50 ft. buffer will be left between Paddys Run Creek and fire-break on east side of the proposed burn area. A back-up fire break will be bush-hogged about 50 feet to the first fire-break on the south flank; also, a back-up fire-break will be cut to the north of the railroad grade on the north flank. Sparsely covered areas will be bush-hogged to a height of about one foot on the day prior to burning. Escape route will be to west along fire line to Paddys Run Road. Safety Zone is on west side of Paddys Run Road in grass and parking lot of pallet company (see attached map).

Site Restoration Work Each area which had sparse vegetative cover prior to the burn will be seeded with native seed mix. Seed will be broadcast over area and the area will be dragged to ensure soil to seed contact. Any area that has exposed mineral soil as a result of the fire will have mulch cover added over seed.

Stakeholders / Neighbors to Notify	Contact Number	Date	Time

Emergency Contacts	Phone	Cell
Medical / Fire / Law Enforcement	911	
Stoller Site Manager	513-648-5294	513-910-6107
LM Site Manager	513-648-3148	513-910-4009

Contact List	Contact Number	Pre-Fire Date/Time	Post-Fire Date/Time
Hamilton County Sheriff's Office	513-825-2280		
Butler County Sheriff's Office	513-887-3010		
Crosby Township Fire Department	513-825-2260		
Ross Fire Department	513-863-3410		
Ross Police Department	513-863-2337		
Ohio State Highway Patrol	513-863-4606		
DOE Headquarters Emergency Operations Center			

Fernald Preserve Prescribed Fire Burn Plan

7400 Willey Road, Harrison, Ohio 45030

Burn Name Irwin Prairie North Fire

Burn Manager Harold Swiger

Site Mop-Up Mop-up will consist of passing through fire area after fire is out and wetting down all smoldering and smoking debris. Embers will be cut from large debris and soaked.

Final Fireline Condition :

Burn Manager		Date:		Time:	
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Open Burning Request Form

Personal Information

Full Name: **Swiger** **Harold** **E.**
Last First M.I.

Address: **S. M. Stoller 10995 Hamilton - Cleves Hwy.**
Street Address

Harrison **Ohio** **45030**
City State ZIP Code

Home Phone: [REDACTED] Alternate Phone: [REDACTED]

Open Burning Site Information

Burn Site Address: **7400 Willey Road**
Street Address

Ross Township **Butler**
City or Township County

1) Provide a sketch of the burn location below or on an attached sheet. Include the location of the site and burn location within the site, nearest road intersection(s) and distance to/placement of nearest off-site structures including a map showing distances to residences, populated areas, roadways, air fields, and other pertinent landmarks.

Map containing burn location and five mile radius is attached.

- 2) Describe the purpose for the burn.
 Choose a category:
- Land Clearing
 - Recognized horticultural, silvicultural, range management or wildlife management practices
 - Fires and/or pyrotechnics as part of film-making or video production
 - Prevention or control of disease or pests
 - Disposal of ignitable or explosive materials
 - Instruction for methods of fire fighting or for research in the control of fire (complete item 4 below)

Provide a brief written description of your proposed burn:

Northbend fire is located in northeast portion of Fernald Preserve. Fire is proposed for a developing prairie that is adjacent to a site access road. Stands of White and Austrian Pines and planted hardwood sapling patches are located to the west, north, and east of the prairie.

The prairie is a tall grass prairie with native grasses and wildflowers. The purpose of the burn is to improve the composition and growth of the prairie and to reduce undesirable and invasive plant species.

Open Burning Request Form

- 3) Describe the material to be burned and the quantity of the material to be burned for any category identified in 2 above except for "Instruction for methods of fire fighting or for research in the control of fire" [see the following web link for what can be burned: <http://www.epa.state.oh.us/dapc/regs/3745-19/3745-19-03.pdf>]

Northbend Fire – Approximately 2.8 acres

Fuel types: Fuel Model 1 – grass < 3 ft. in height – 5% of unit

Fuel Model 3 – grass > 3 ft. in height – 95% of unit

- 4) To be completed if "Instruction for methods of fire fighting or for research in the control of fire" is chosen in 2, above. If a structure is to be burned for fire training purposes, call the asbestos program coordinator to obtain a copy of the NESHAPS regulations (614-644-2270).

- a. Asphalt shingles should be removed prior to burning. Have they been removed?
 Yes No Not Applicable
- b. Vinyl siding should be removed prior to burning. Has all vinyl siding been removed?
 Yes No Not Applicable
- c. Asbestos containing material may need to be removed ¹prior to burning. Friable asbestos must be removed by a licensed asbestos abatement contractor. Have all asbestos containing materials been removed?
 Yes No Not Applicable

- 5) Did the material to be burned originate from the same site where it is being burned?
 Yes No

- 6) Is the burning site located within a restricted area? A restricted area is defined as the area within the boundaries of any municipal corporation (plus a 1,000 foot zone around cities having a population of 1,000 - 10,000 and a one (1) mile zone around cities greater than 10,000).
 Yes No

- 7) Provide the date(s) and Time(s) when the burning is anticipated to take place:

Begin	
Date	Time

End	
Date	Time

Or,

For recognized horticultural, silvicultural, range management or wildlife management practices, please identify the range of dates and times the burn is expected to occur:

From: February 1, 2009 To: May 31, 2009

From: 10:00 A.M. To: 6:00 P.M. (same day)

¹ All demolition/renovation must be reported. If ACM is present, notification or approval for removal must be completed. See instructions for more details.

Open Burning Request Form

8) What methods or actions will be taken to reduce the emission of air contaminants?

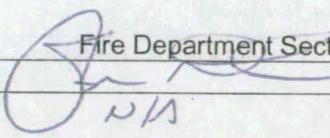
The affects of smoke to the local area and the ambient air quality will be minimized by burning only on days with upward air movement. Prescribed burns will be limited to days when the air currents would lift the smoke to altitudes above 1700 feet. Weather thresholds would also include direction of wind. If the smoke could be blown towards sensitive areas without sufficient atmospheric lift, then the burn would be postponed.

Current and forecast meteorological data will be utilized to identify wind and atmospheric conditions for area.

Fire Department Section

1) Local ordinances may prohibit burning, or require additional restrictions. Please identify the local fire department where the burn will take place. Please obtain signature of the Fire Chief (note, this is not required but failure to notify may subject you to violation of local ordinances).

Fire Department Section			
Fire Chief (printed name):	Steve Miller		
Name of Fire Department:	Ross Township Fire Department		
Address:	2567 Cincinnati-Brookeville Road	Ross	45013
	<i>Street</i>	<i>City/Township</i>	<i>Zip Code</i>
Phone Number	(513) 863-3410		

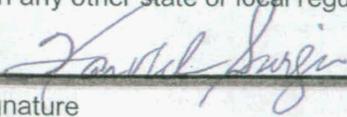
Fire Department Section (continued)	
Signature of Fire Chief:	
Comments from Fire Chief (if any):	N/A

Submission Certification

I, certify that the information set forth above is true and complete.

I realize that the Ohio EPA, after this request, may determine that the open burning is not allowed under its regulations, or may impose certain requirements as part of approval of my request, and shall notify me to that effect once they make such a determination.

In addition, I realize that no open burning shall be conducted in an area where an air pollution alert, warning, or emergency is in effect and that submission of this notification of intent does not exempt me from compliance with any other state or local regulation or ordinance.



 Signature

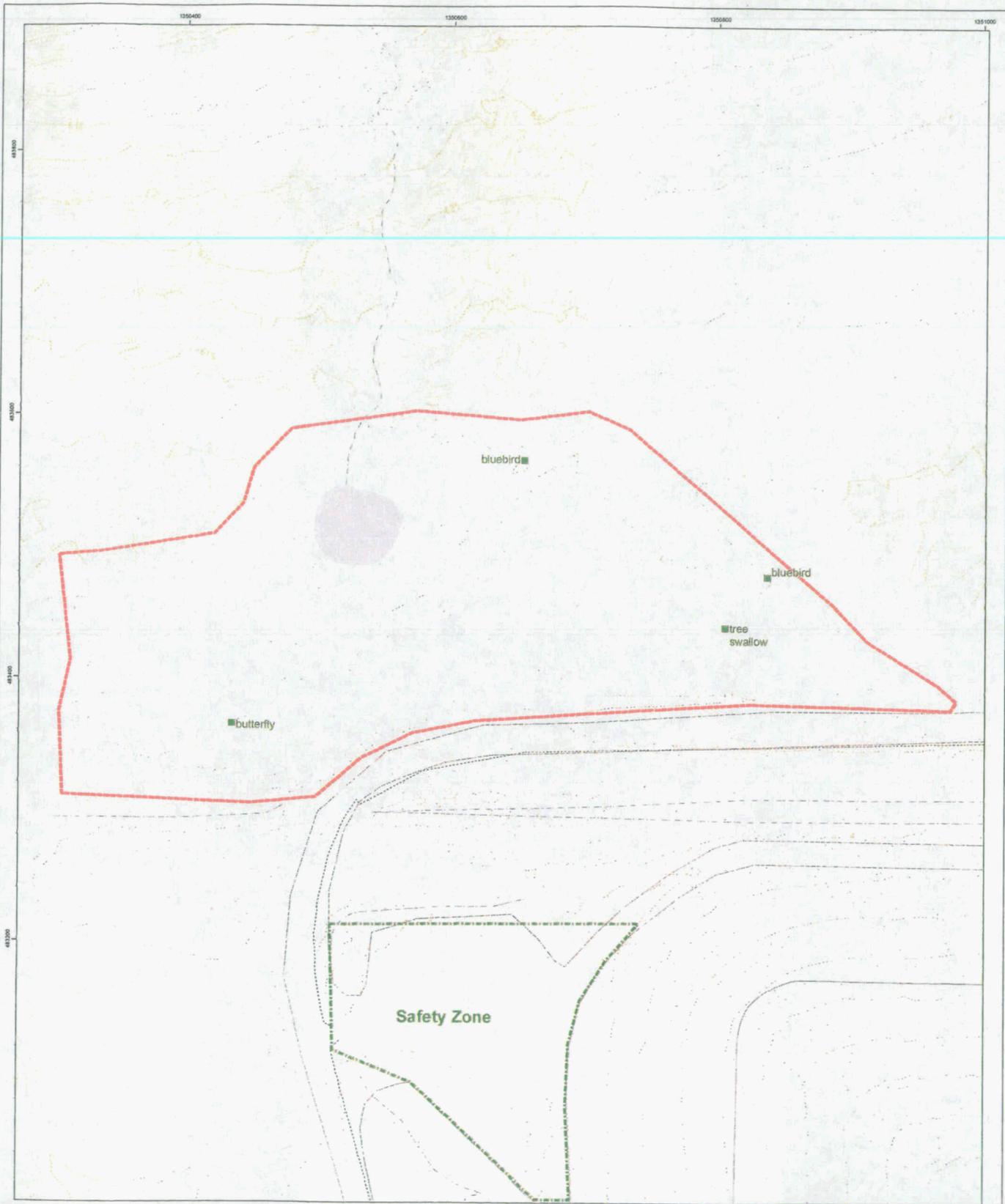
1-16-09

 Date

Open Burning Request Form Instructions

Additional important information to note:

- The Ohio Department of Natural Resources has statutory authority for reviewing requests to conduct prescribed burns (e.g., burning off fields to promote prairie grasses). In addition, concerned with the potential for brush and forest fires, the ODNR Division of Forestry prohibits outdoor burning in rural areas between the hours of 6 a.m. and 6 p.m. during the typically dry months of March, April, May, October and November. So, regardless of if Ohio EPA grants permission to open burn from an environmental perspective, if you live in an unincorporated area, ODNR may deny permission to burn during these times/months due to fire safety concerns. For more information, see the following ODNR resources:
<http://www.dnr.state.oh.us/Portals/18/fire/pdf/OhioFireLaw.pdf>
<http://www.dnr.state.oh.us/forestry/Home/fire/wildfire/tabid/5146/Default.aspx>
- Some local jurisdictions may have additional restrictions on burning materials or burning at times that are otherwise approvable under Ohio EPA's open burning rules. The following links can be used to access Ohio township and city/village websites:
Townships via the Ohio Township Association
<http://cpmra.muohio.edu/otaohio/Websites.htm>
Cities & Villages via the Ohio Municipal League
<http://www.omloho.org/OMLMunicipalData/omlmunidata.htm>



Legend

- | | | | |
|----------|-------------------|---------------------|--------------|
| Burn | Road-paved | Open Water | Treeline |
| Excluded | Road-gravel | Wetland | Wildlife Box |
| Safety | Trail | Paddys Run | |
| | Elevation Contour | Intermittent Stream | |



U.S. DEPARTMENT OF ENERGY
HAMILTON, OHIO

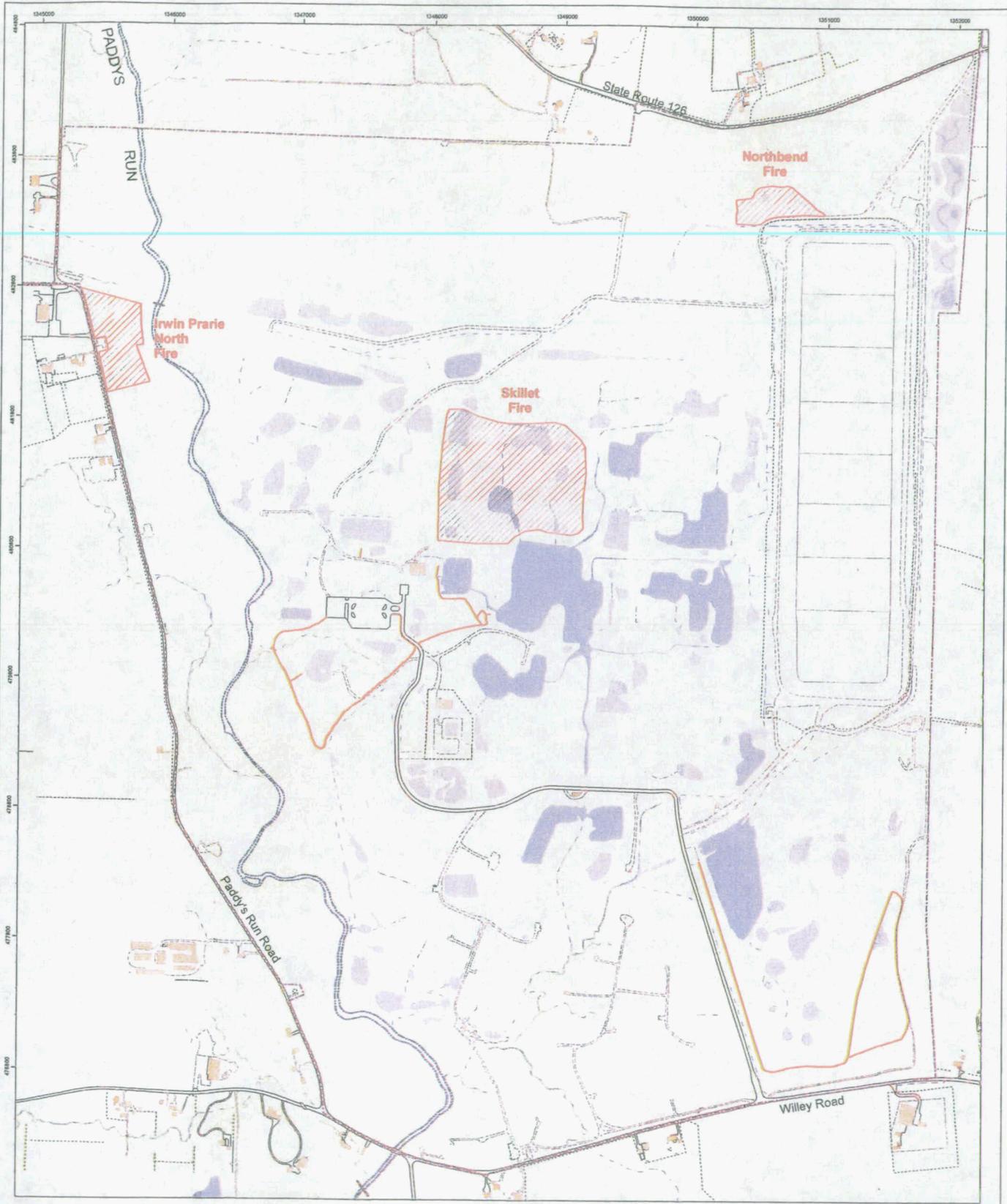
Work Performed by
S.M. Stoller Corporation
State Job Center
No. DE-AD01-01-MC0006

Fernald Preserve
Northbend Fire Burn Area
2009

DATE PREPARED
January 12, 2009

FILENAME
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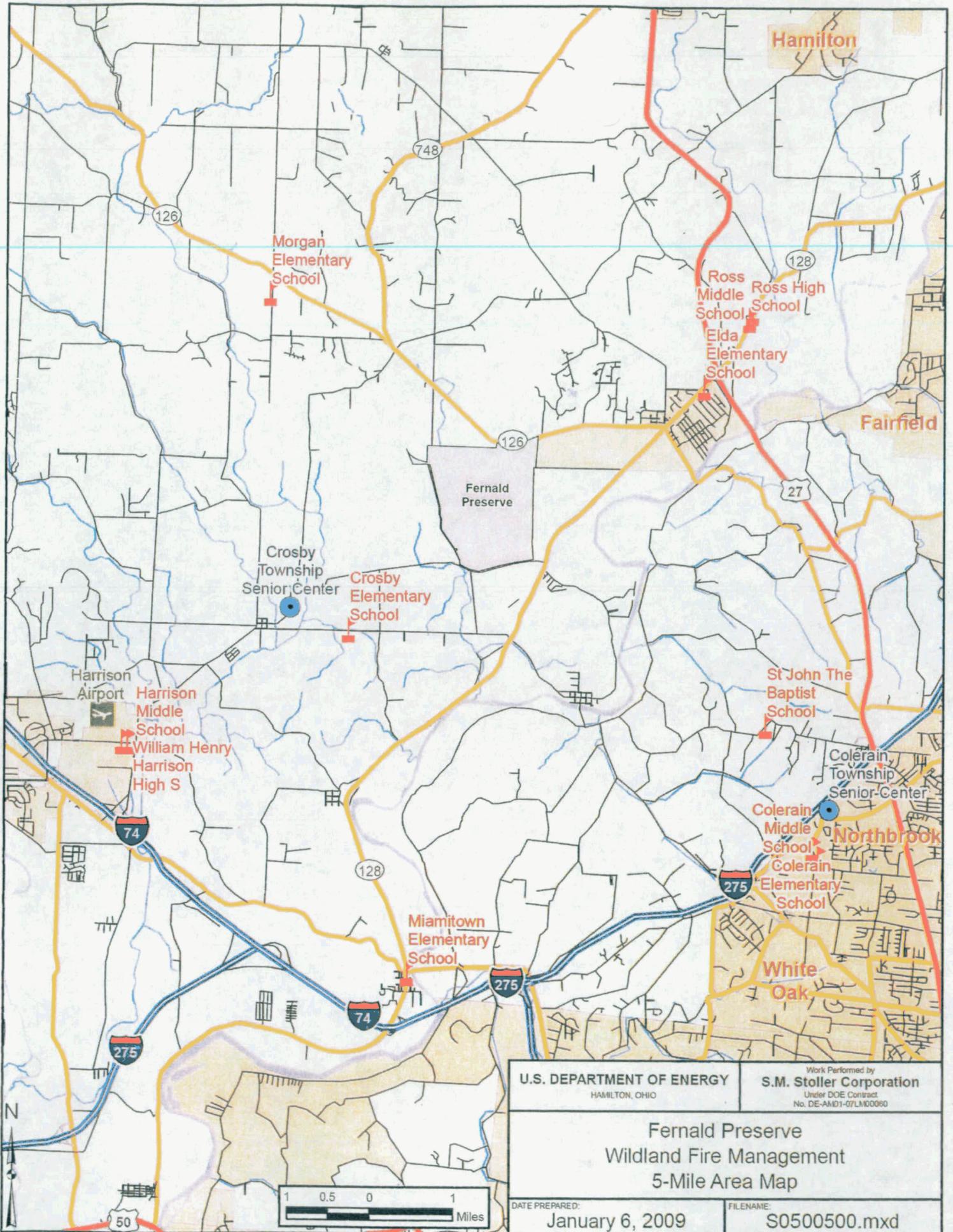


- Legend**
- Fernald Preserve Boundary
 - ▨ Fire Burn Area
 - Road-paved
 - - - Road-gravel
 - Trail
 - Building
 - Open Water
 - Wetland
 - Paddy's Run
 - - - Intermittent Stream
 - Treeline



U.S. DEPARTMENT OF ENERGY HANIKTON, OHIO	Map Published by S.M. Stoller Corporation Under DOE Contract No. DE-AC05-01-OR21400
Fernald Preserve Fire Burn Areas 2009	
DATE PREPARED: December 16, 2008	FILENAME: fer_fire_2008.mxd

C:\Users\chp\My Documents\Fernald\Areas\burn\ecology\fer_fire_2008.mxd P:\msb 12/16/2008



U.S. DEPARTMENT OF ENERGY HAMILTON, OHIO	Work Performed by S.M. Stoller Corporation Under DOE Contract No. DE-AM01-07LN00060
Fernald Preserve Wildland Fire Management 5-Mile Area Map	
DATE PREPARED: January 6, 2009	FILENAME: S0500500.mxd

Fernald Preserve Prescribed Fire Burn Plan

7400 Willey Road, Harrison, Ohio 45030

Burn Name Northbend Fire Burn Manager Harold Swiger *2007019*

Burn Location Burn area is located on the north end of the Fernald Preserve. It lies to the NW of the Perimeter fence for the Fernald On-Site Disposal Facility (OSDF). The area is bounded on the north, east and west by the North Pines woodlot; and to the south by access road around north end of OSDF and rip-rap in a drainage adjoining the road.

County Butler (Ross Township) Hamilton (Crosby Township) State Ohio

Burn Size ~ 2.8 acres

Site Description The area is covered in a young prairie over a rolling topography. There are some cool season grasses close to the road and some patches of Canada thistle scattered about the area. There is a Vernal pool on the north edge of the area and several bird and butterfly boxes scattered through area. There is a deer fence along the east edge of the area and another along the west edge of the area. Pine stands are found on the north and east side of the area. They have the potential to shade a portion of the site in the morning and late afternoon.

Fuel Types	Grasses <3 ft. in height - Fuel Model 1	5	% of Unit Area
	Grasses >3 ft. in height - Fuel Model 3	95	% of Unit Area
			% of Unit Area

Purpose of Burn Improve grass composition and growth.

Burn Objectives -Reduce thatch layer .

- Remove undesirable and invasive species.

- Promote early growth of desirable grass and forb species.

Permits	Submittal Date	Receipt Date
State Burn Ban Waiver		
State Air Quality Permit		
DOE Burn Moratorium Waiver		

Smoke Sensitive Areas	Direction	Distance
Crosby Elementary School	Southwest of site	~2 miles
Crosby Senior Center	Southwest of site	~2.9 miles
Elda Elementary School	Northeast of site	~2.4 miles
Ross Middle/High Schools	Northeast of site	~3.2 miles
Morgan Elementary School	Northwest of site	~3.3 miles
St. John the Baptist School	Southeast of site	~4.3 miles
CSX Railroad Line	West of Site	~1.1-miles
State Route 126	North of Site	~1/4-mile
State Route 128	East of Site	~1 mile

Wind Factors	Optimal Range	Predicted	Actual
Surface Winds			
Speed	<u>2 to 6 mph</u>		
Direction	<u>W to NNE, ENE to ESE</u>		
Transport Winds			
Speed	<u>10 to 25 mph</u>		
Direction	<u>West</u>		
Minimum mixing height	<u>1700 to 6500 ft.</u>		
Dispersion index	<u>Neutral to Unstable</u>		

Fernald Preserve Prescribed Fire Burn Plan

7400 Willey Road, Harrison, Ohio 45030

Burn Name Northbend Fire

Burn
Manager

Harold Swiger

Site Restoration Work Area will be broadcast seeded with grasses and forbs. A drag will be used to treat the area to increase soil to seed contact and aid in germination.

Stakeholders / Neighbors to Notify	Contact Number	Date	Time

Emergency Contacts	Phone	Cell
Medical / Fire / Law Enforcement	911	
Stoller Site Manager	513-648-5294	513-910-6107
LM Site Manager	513-648-3148	513-910-4009

Contact List	Contact Number	Pre-Fire Date/Time	Post-Fire Date/Time
Hamilton County Sheriff's Office	513-825-2280		
Butler County Sheriff's Office	513-887-3010		
Crosby Township Fire Department	513-825-2260		
Ross Fire Department	513-863-3410		
Ross Police Department	513-863-2337		
Ohio State Highway Patrol	513-863-4606		

Site Mop-Up Mop-up will consist of passing through fire area after fire is out and wetting down all smoldering and smoking debris. Embers will be cut from large debris and soaked.

Final Fireline Condition :

Burn Manager	Date:	Time:
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Open Burning Request Form

Personal Information

Full Name: **Swiger** **Harold** **E.**
Last First M.I.

Address: **S. M. Stoller 10995 Hamilton – Cleves Hwy.**
Street Address Apartment/Unit #

Harrison **Ohio** **45030**
City State ZIP Code

Home Phone: [REDACTED] Alternate Phone: [REDACTED]

Open Burning Site Information

Burn Site Address: **7400 Willey Road**
Street Address

Crosby Township **Hamilton**
City or Township County

1) Provide a sketch of the burn location below or on an attached sheet. Include the location of the site and burn location within the site, nearest road intersection(s) and distance to/placement of nearest off-site structures including a map showing distances to residences, populated areas, roadways, air fields, and other pertinent landmarks.

Map containing burn locations and five mile radius is attached.

- 2) Describe the purpose for the burn.
 Choose a category:
- Land Clearing
 - Recognized horticultural, silvicultural, range management or wildlife management practices
 - Fires and/or pyrotechnics as part of film-making or video production
 - Prevention or control of disease or pests
 - Disposal of ignitable or explosive materials
 - Instruction for methods of fire fighting or for research in the control of fire (complete item 4 below)

Provide a brief written description of your proposed burn:

Skillet Fire is located in the Center of the Fernald Preserve. It is a developing prairie. The prairie contains a couple of shrub patches within the bounds of the burn; patches will not be burned. Several ponds and wetlands are contained within the boundary of the proposed burn. Ponds and wetlands are small in size and do not include a lot of vegetative growth. The purpose of burn is to improve grass composition and growth while removing undesirable and invasive species. Invasive species include Canada and bull thistles. Fuel loads in the area are not heavy; in some portions they would be considered sparse.

Open Burning Request Form

- 3) Describe the material to be burned and the quantity of the material to be burned for any category identified in 2 above except for "Instruction for methods of fire fighting or for research in the control of fire" [see the following web link for what can be burned: <http://www.epa.state.oh.us/dapc/regs/3745-19/3745-19-03.pdf>]

Skillet Fire – Approximately 22.5 acres

Fuel types: Fuel Model 1 – grass <3 ft. in height – 10% of unit

Fuel Model 3 – grass > 3 ft. in height – 90% of unit

- 4) To be completed if "Instruction for methods of fire fighting or for research in the control of fire" is chosen in 2, above. If a structure is to be burned for fire training purposes, call the asbestos program coordinator to obtain a copy of the NESHAPS regulations (614-644-2270).

- a. Asphalt shingles should be removed prior to burning. Have they been removed?
 Yes No Not Applicable
- b. Vinyl siding should be removed prior to burning. Has all vinyl siding been removed?
 Yes No Not Applicable
- c. Asbestos containing material may need to be removed ¹prior to burning. Friable asbestos must be removed by a licensed asbestos abatement contractor. Have all asbestos containing materials been removed?
 Yes No Not Applicable

- 5) Did the material to be burned originate from the same site where it is being burned?
 Yes No

- 6) Is the burning site located within a restricted area? A restricted area is defined as the area within the boundaries of any municipal corporation (plus a 1,000 foot zone around cities having a population of 1,000 - 10,000 and a one (1) mile zone around cities greater than 10,000).
 Yes No

- 7) Provide the date(s) and Time(s) when the burning is anticipated to take place:

Begin	
Date	Time

End	
Date	Time

Or,

For recognized horticultural, silvicultural, range management or wildlife management practices, please identify the range of dates and times the burn is expected to occur:

From: February 1, 2009 To: May 31, 2009

From: 10:00 A.M. To: 6:00 P.M. (same day)

¹ All demolition/renovation must be reported. If ACM is present, notification or approval for removal must be completed. See instructions for more details.

Open Burning Request Form Instructions

Additional important information to note:

- The Ohio Department of Natural Resources has statutory authority for reviewing requests to conduct prescribed burns (e.g., burning off fields to promote prairie grasses). In addition, concerned with the potential for brush and forest fires, the ODNR Division of Forestry prohibits outdoor burning in rural areas between the hours of 6 a.m. and 6 p.m. during the typically dry months of March, April, May, October and November. So, regardless of if Ohio EPA grants permission to open burn from an environmental perspective, if you live in an unincorporated area, ODNR may deny permission to burn during these times/months due to fire safety concerns. For more information, see the following ODNR resources:

<http://www.dnr.state.oh.us/Portals/18/fire/pdf/OhioFireLaw.pdf>

<http://www.dnr.state.oh.us/forestry/Home/fire/wildfire/tabid/5146/Default.aspx>

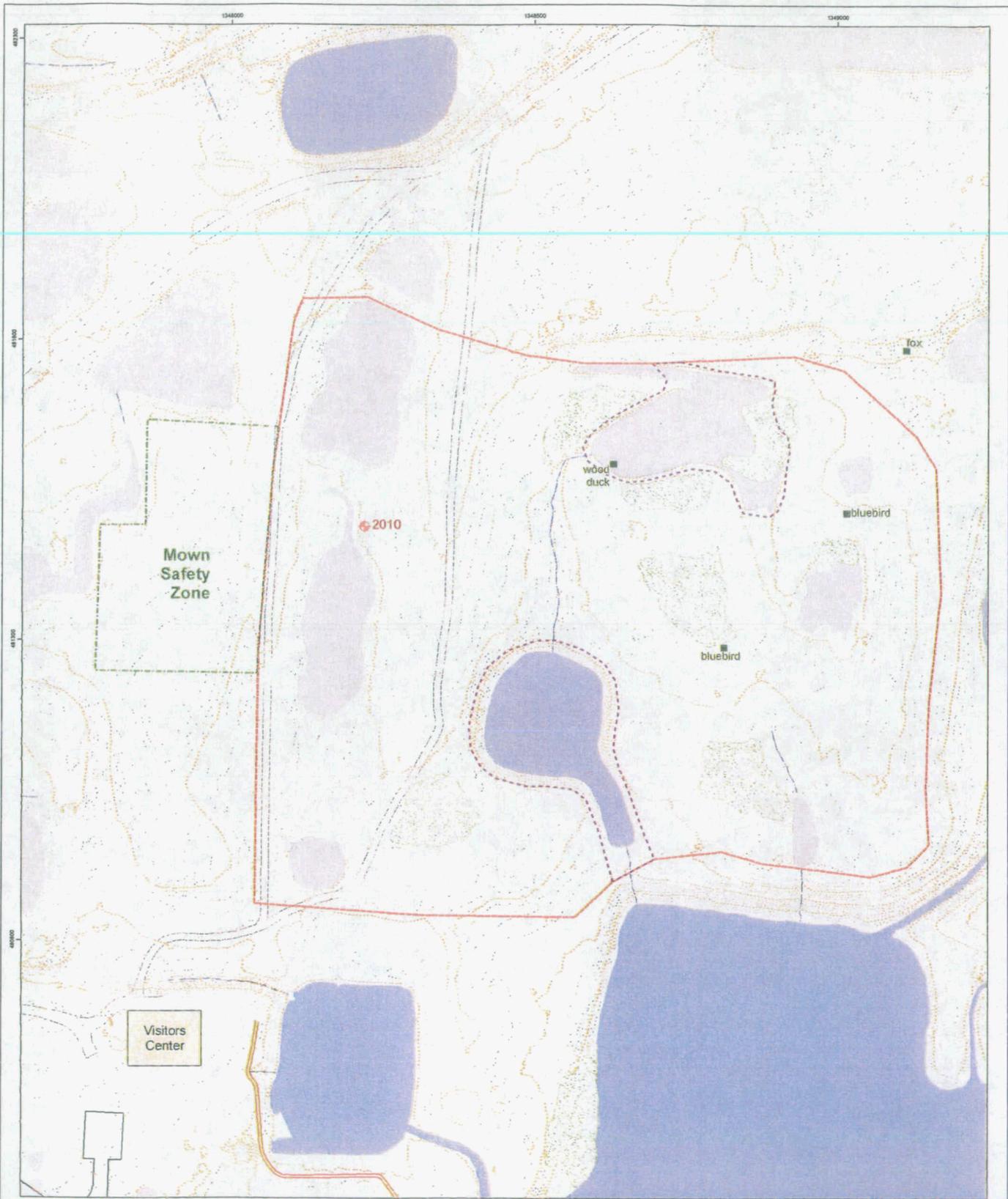
- Some local jurisdictions may have additional restrictions on burning materials or burning at times that are otherwise approvable under Ohio EPA's open burning rules. The following links can be used to access Ohio township and city/village websites:

Townships via the Ohio Township Association

<http://cpmra.muohio.edu/otaohio/Websites.htm>

Cities & Villages via the Ohio Municipal League

<http://www.omloho.org/OMLMunicipalData/omlmunidata.htm>



Legend

- | | | | |
|----------------|-------------------------|---------------------------|------------------------|
| Fire Burn Area | — Road-paved | Open Water | Woody Vegetation Patch |
| ■ Burn | - - - Road-gravel | Wetland | Monitoring Well |
| ■ Excluded | — Trail | Paddy's Run | Wildlife Box |
| ■ Safety | - - - Elevation Contour | - - - Intermittent Stream | |



U.S. DEPARTMENT OF ENERGY
HAMILLTON, OHIO

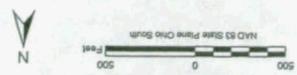
Work Performed by
S.M. Stoller Corporation
1400 20th Street
No. DE-AM07-071302005

Fernald Preserve
Skillet Fire Burn Area
2009

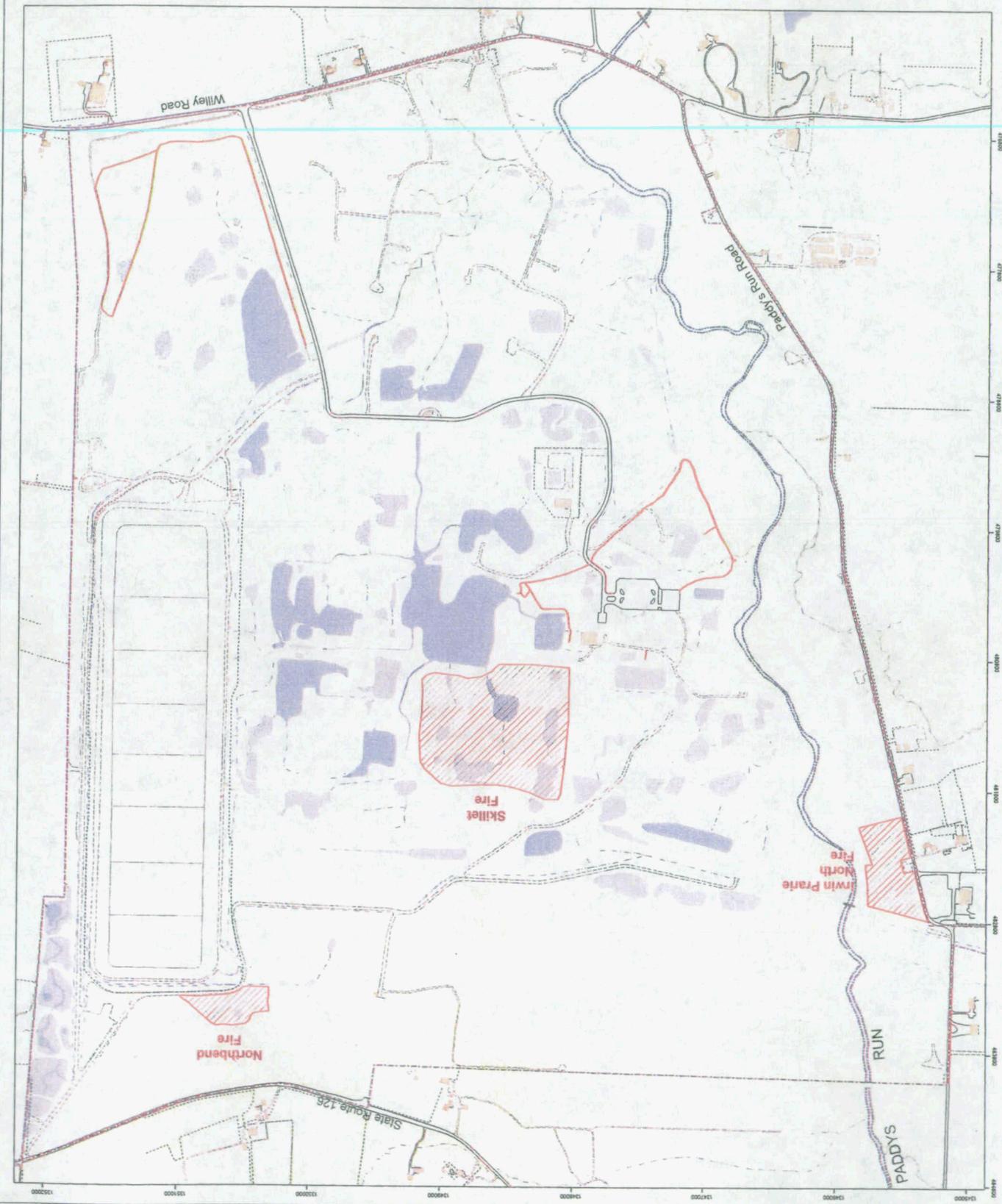
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January 12, 2009

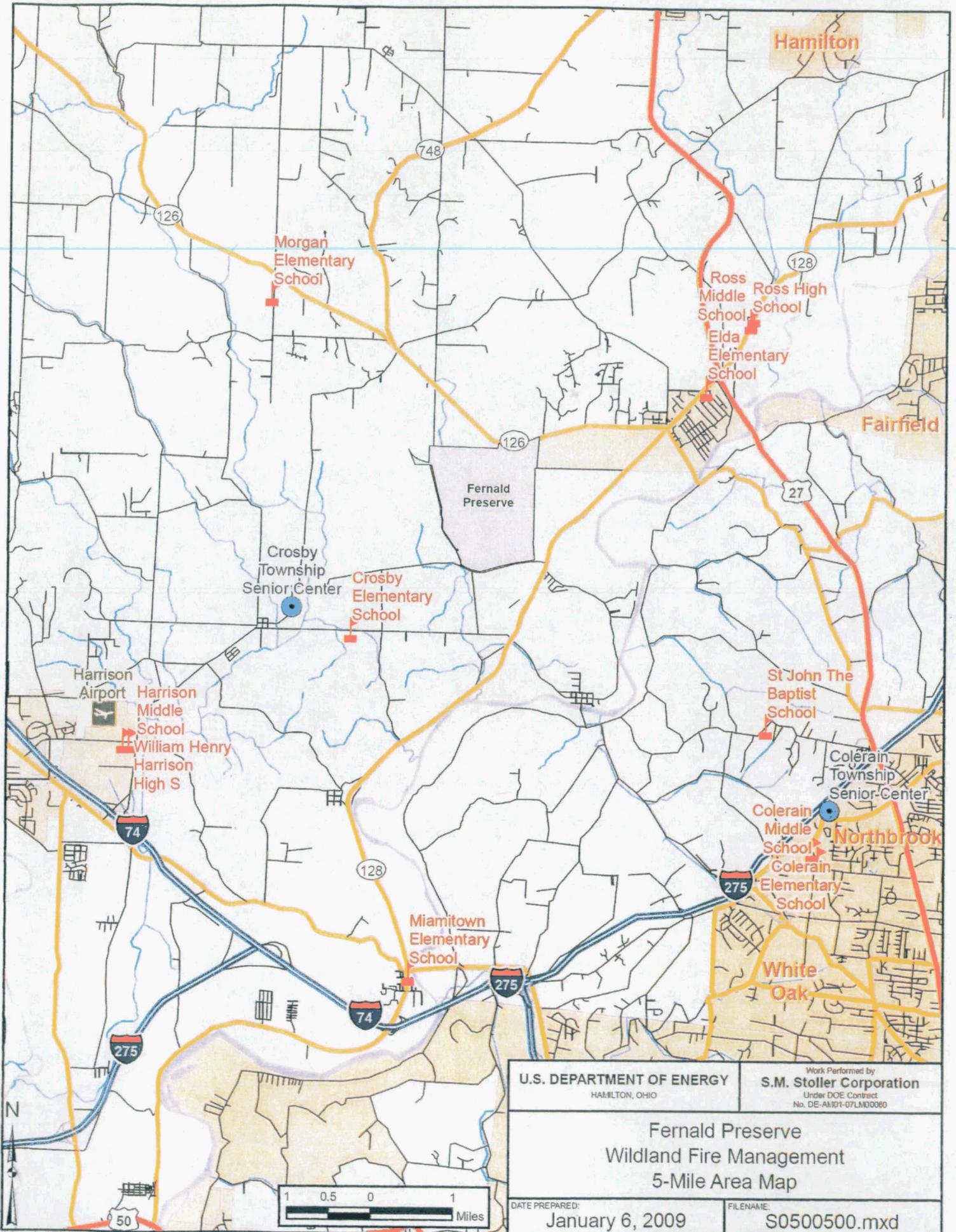
FILENAME:
fer_fire_Skillet_2009.mxd

U.S. DEPARTMENT OF ENERGY
 HAMILTON OHIO
 S.M. Staller Corporation
 3000 Franklin Ave. Hamilton, OH 45006
 Fire Burn Areas
 Fernald Reserve
 2009
 December 16, 2008
 File: fire_2009.mxd



- Legend**
- Fernald Reserve Boundary
 - Trail
 - Paddy's Run
 - Intermitent Stream
 - Building
 - Open Water
 - Wetland
 - Road-gravel
 - Road-paved
 - Fire Burn Area





U.S. DEPARTMENT OF ENERGY
HAMILTON, OHIO

Work Performed by
S.M. Stoller Corporation
Under DOE Contract
No. DE-AMDT-07LM00080

Fernald Preserve
Wildland Fire Management
5-Mile Area Map

DATE PREPARED:
January 6, 2009

FILENAME:
S0500500.mxd

Fernald Preserve Prescribed Fire Burn Plan

7400 Willey Road, Harrison, Ohio 45030

Burn Name Skillet Fire Burn Manager Harold Swiger 2007019

Burn Location Burn area is in the center of the Fernald Preserve. It is to the NE of the site Visitor Center. It is bounded on the west by access road to north of Visitor Center, on the south by the Community Pond and Swan Pond, on the east and north by former production area main drainage corridor.

County Butler (Ross Township) Hamilton (Crosby Township) State Ohio

Burn Size ~ 22.5 acres

Site Description The area is rolling topography with one deep water pond and four vernal pools. The vegetation consists of young prairie stands on three differing soil conditions. The area to the east has been amended with compost which was turned into the soil and tilled prior to planting seed mix. The soil in the center area has a cover of compost; seed mix was seeded into the compost without mixing the soils and compost. The soil to the west has no amendments; the seed was sewn into bare soils. There are several shrub patches that have been planted in the area. Monitoring Well 2010 is located on the west side of the burn with a path that leads to dirt road through area.

Fuel Types			% of Unit Area
Fuel Model 1 – grass less than 3 feet in height		10	% of Unit Area
Fuel Model 3 – grass greater than 3 feet in height		90	% of Unit Area
			% of Unit Area
			% of Unit Area

Purpose of Burn Improve grass composition and growth. Compare burn results from each amendment area to determine best path for similar areas on site.

- Burn Objectives
- Reduce thatch in stands of grass.
 - Remove undesirable and invasive species.
 - Promote early growth of desirable grass and forb species.
 - Evaluate effects of burn on each of the amendment area types.

Permits	Submittal Date	Receipt Date
State Burn Ban Waiver		
State Air Quality Permit		
DOE Burn Moratorium Waiver		

Smoke Sensitive Areas	Direction	Distance
Crosby Elementary School	Southwest of site	~2.2 miles
Crosby Senior Center	Southwest of site	~2.6 miles
Elda Elementary School	Northeast of site	~2.9 miles
Ross Middle/High Schools	Northeast of site	~3.7 miles
Morgan Elementary School	Northwest of site	~3.3 miles
St John the Baptist School	Southeast of site	~4.4 miles
Cincinnati West Airport	Southwest of site	~4.9 miles
CSX Railroad Line	West of Site	~ 1mile
State Route 126	North of Site	~ 1/2-mile
State Route 128	East of Site	~1 mile

Fernald Preserve Prescribed Fire Burn Plan

7400 Willey Road, Harrison, Ohio 45030

Burn Name

Skillet Fire

Burn Manager

Harold Swiger

Site Preparation/Fire Breaks

Bush-hog a fire break around the perimeter of the fire boundary and ensure cut grass is not bunched or piled within fire break. Fire break should be 30 feet wide. Create an 8 to 10 feet buffer around the edge of shrub patches and cut the grasses within each patch. Create a fire break around the top of steep banks at ponds and vernal pools. Weed-eat around each wildlife box and rake grasses away from posts. Wet fire break prior to beginning burn. Mow grasses to about 1 ft. high in areas of sparse vegetation a day before the burn. Mow a buffer of 20 feet in each direction around MW 2010 to prevent blistering of paint on well casing.

Safety Zone will be mown to the west of the burn area (see attached map). Approximately 2.25 acres of prairie grasses will be cut to create the safety zone. Escape route will be along fire break to west.

Site Restoration Work

Evaluate the completeness and effectiveness of burns. Repair any areas in which soil has been damaged. Seed prairie grass seeds using a seed drill over the areas; then broadcast forb seeds over the same areas and drag with a fence drag.

Stakeholders / Neighbors to Notify	Contact Number	Date	Time

Emergency Contacts	Phone	Cell
Medical / Fire / Law Enforcement	911	
Stoller Site Manager	513-648-5294	513-910-6107
LM Site Manager	513-648-3148	513-910-4009

Contact List	Contact Number	Pre-Fire Date/Time	Post-Fire Date/Time
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Ross Police Department	513-863-2337		
Ohio State Highway Patrol	513-863-4606		

Fernald Preserve Prescribed Fire Burn Plan

7400 Willey Road, Harrison, Ohio 45030

Burn Name Skillet Fire

Burn Manager Harold Swiger

Site Mop-Up Mop-up will consist of passing through fire area after fire is out and wetting down all smoldering and smoking debris. Embers will be cut from large debris and soaked.

Final Fireline Condition :

Burn Manager Signature:		Date:		Time:	
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