



ORIENTEERING | PERMANENT COURSE

Mount Penn-Antietam Lake Park

Lower Alsace Township, Berks County, Pennsylvania



SCALE
1:10,000

CONTOURS
5 meters



Blue meridian lines point to Magnetic North. No correction required for declination.



Delaware Valley Orienteering Association

14 Lake Drive, Spring City, PA 19475
frankdvoa@aol.com, 610.792.0502
www.dvoa.org

Photogrammetry: Ivar Helgesen (Norway);
Fieldwork & Drafting: Vladimir Zherdev and
Alexei Zuev (Russia), 2000;
Base Map & Fieldwork Update: Greg Balter,
2015; Vladimir Zherdev, 2016;
Permanent Course Design & Construction:
Collin Whitlock, BSA Hopewell Troop 8, 2016;
Brochure Graphics: Bob Agosta

© Copyright 2016, Delaware Valley Orienteering Association (DVOA). All rights reserved. This map is an original work produced from aerial and field surveys and may only be reproduced for use on this permanent orienteering course. Portions of the land depicted may be private, and possession of this map does not imply right of access. Please respect the rights of landowners.

Orienteering on this self-guided course allows you or your group to follow, at your leisure, a permanently marked route as an introduction to the sport. After completing this course, please try one of our local weekend events for a complete orienteering experience!

LEGEND

- paved road
 - pavement, gravel
 - dirt road
 - vehicle trail
 - large foot path
 - small foot path
 - indistinct path
 - narrow ride
 - stone wall
 - ruined stone wall
 - fence
 - ruined fence
 - uncrossable fence
 - power line
 - building
 - ruin
 - hunter's stand, misc. object
 - cairn, rocky pit, tower
 - boulder: small, large
 - passable cliff
 - impassable cliff
 - boulder field, stony ground
 - contours, form line
 - gully, dry ditch
 - small knoll, depression
 - pit, broken ground
 - earth bank
 - earth wall
 - ruined earth wall
 - rootstock*, charcoal terrace*
 - stream: wide, small
 - small pond
 - spring, waterhole, well
 - lake, uncrossable river
 - intermittent stream
 - narrow marsh
 - marsh, diffuse marsh
 - open land, rough open
 - open with scattered trees
 - rough open with scattered trees
 - vegetation: forest, slow run
 - vegetation: walk, fight
 - undergrowth: slow run, walk
 - distinct vegetation boundary
 - cultivated land, settlement
 - distinct tree
- * not an IOF symbol

Map scale is accurate when printed on an 8 1/2" x 11" sheet size.

Mount Penn-Antietam Lake Park

Lower Alsace Township, Berks County, Pennsylvania



Mount Penn-Antietam Lake Park Permanent Orienteering Course Control Sheet						
Intermediate Course		3.6 km distance (2.24 miles)			150m climb (492 feet)	
Control # / Letter Code		Control Descriptions			Control Descriptions (Text)	
▷	S/F	■			○	Building (Park Office) North Side
1		/	/	Y		Trail Junction
2		■			○	Stone Wall, North East Side
3		▲			○	Boulder, East Side
4		■			○	Stone Wall, West Side
5		■			⊥	Stony Ground, South East Corner
6		○			○	Clearing, East Edge
7		⊙			○	Charcoal Terrace, North Edge
8		■			○	Stone Wall, West Side
9		⊂			○	Pond, South Side
⊕		166m (545 feet) to Finish			⊗	

To check control letter codes, go to:

www.dvoa.org/learn/perm and select the course you have completed; or mail a copy of your noted course control sheet to: DVOA, 14 Lake Drive, Spring City, PA 19475.

Please include your phone, email, or mailing address for a reply.

After completing this course, please try one of our local weekend events for a complete orienteering experience!

Name _____

Mailing Address _____

Email _____

Date Course Completed _____

Phone _____

End Time: _____



14 Lake Drive
Spring City, PA 19475
frankdvoa@aol.com
610.792.0502
www.dvoa.org

ORIENTEERING - What is it?

Orienteering is a sport of Scandinavian origin. The game's objective is to locate fairly easy-to-find markers in the woods with the aid of a map and, if you like, a compass. The challenge of orienteering results from participants' not knowing ahead of time the markers' locations. The test lies in determining the best routes between these locations and, in the sport's competitive form, in finding all these points (called controls) in the least possible time. At its best, not only does orienteering improve your knowledge of geography and practical navigation, it enhances physical and mental fitness as well.

Orienteering is a sport for people of all ages, abilities, and gender. Participants can travel alone or in groups, running or strolling, to win the contest or merely to savor nature's beauty, which, as any orienteer will attest, is winning itself. The sport provides excellent family fare.



INFORMATION

The origins of Antietam Lake date back to 1865 when the City of Reading purchased a dam and gristmill on Antietam Creek as a water supply for the City. The location was favored for a water supply because water could flow by gravity to the City. In 1915, the dam was reconstructed to add a 30-foot wide spillway. Water flows over the 60-foot high solid rock wall which was designed as a natural waterfall. The rock of the waterfall has been studied by generations of geologists and their students and is thought to be 1.2 billion years old.

For information about park activities, contact: Berks County Parks & Recreation Dept., 2083 Tulpehocken Rd., Wyomissing, PA 19610, 610.372.8939.

For information about local orienteering events, other area permanent courses, and club membership in eastern Pennsylvania, southern New Jersey, and Delaware, or for copies of this and other orienteering maps, please contact:

**Delaware Valley Orienteering Association (DVOA),
14 Lake Drive, Spring City, PA 19475, 610.792.0502,
frankdvoa@aol.com, or visit our web site at
www.dvoa.org.**

For a complete orienteering experience, please try one of our local weekend events. You can find the schedule at www.dvoa.org. Membership entitles you to reduced map fees at all of our events.

Congratulations and thank you for participating!

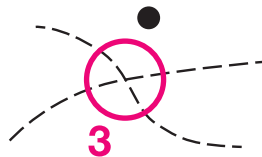
INSTRUCTIONS

1. Reference the course control sheet for course distance and total course climb. The course begins at the Park Office, indicated on the map with a triangle symbol. The course ends at the start location, indicated on the map with a double circle symbol.
2. Familiarize yourself with the map before you begin.

NOTE: Familiarization with the map relative to the fields, roads, and features shown is easier if you hold the map flat in front of you and rotate it until it is "oriented" to the terrain. Magnetic North lines will help if you have a compass, but you will find that the map is detailed enough that you may not need one on this course.

3. Set out to visit the controls in the sequence outlined on the map starting at the start triangle and proceeding towards control #1. Upon reaching each control, record, on the course control sheet provided, the letter code shown on the marker post placard (see illustrations to the right). You may also want to time yourself from start to finish.

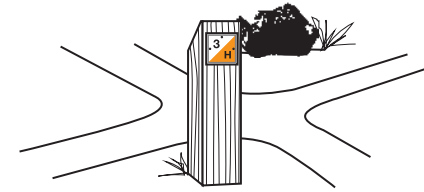
As an example, consider an imaginary control #3, marked on the map as shown below:



Referring to the map legend, you note that the control location, the point at the center of the circle, seems to be crossing between two paths. To confirm the terrain feature on which the control is located, look at the description and feature symbols provided on the sample control sheet shown below.

Permanent Orienteering Course Control Sheet				
Short Course	2.2 km distance (1.4 miles)	27m climb (90 feet)		
Control # / Letter Code	Control Descriptions		Control Descriptions (Text)	
▶	■			Start Triangle Building (Park Office)
1	/ / \			Road Junction
2	▲	1.7	○	Boulder, 1.7m Height, North Side
3	/ / \			Trail Junction

Suppose, after a fairly challenging and satisfying amount of navigation, you finally arrive at the vicinity of control #3. To your delight, you sight it precisely where it should be: at the foot path trail junction.



Take a closer look; you will notice the control number and letter code on the marker post placard.



By recording the letter code in the appropriate box on the control sheet, you provide proof of your visit to the control for later verification.

2	A		▲	
3	H		/ / \	/ / \

That's it! You're off to your next control, and so on to the finish.



SAFETY NOTES

At the pace of a slow stroll, the course at Antietam Lake Park can ordinarily be completed within 60-90 minutes. It is wise to take this into consideration, especially when setting off towards dusk.

On the remote chance you become hopelessly disoriented, make your way north to Angora Road. Remember that the sun rises in the east and sets in the west.

Some areas of the park may be hazardous. We told the Park Rangers we would remind you that you are responsible for you and your groups' safety.

