

# United States Military Academy

West Point, New York



## Range and Specialty Course Information Book

Created by: USMA ITAM Program; August 2001

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# General Information



**This booklet is for information purposes only! Unit(s) will adhere to all applicable AR's, DA PAMS, and USMA regulations while training at the United States Military Academy.**

## Phone Numbers:

Range Control Scheduling:	(845) 938-3930
Fire Department:	(845) 938-3001*
ASP (Ammunition Supply Point):	(845) 938-3216/2914
S-4, 1-1 IN:	(845) 938-8574/2928
Keller Army Community Hospital:	(845) 938-4004
After Duty Hours:	(845) 938-4004/5169

USMA DSN is 688

\*During Cadet Summer Training notify Fire Station #3, Bldg 1400, Route 293 at 938-4317.

## Frequencies:

Range Control: 46.70\*  
Keller Hospital ER: 150.70  
\* Only used by Range Control



# General Information



## Environmental Information

*For further information, please contact the Range Control (938-3930) or the ITAM office (938-5453).*

### 1. Field fortifications

Construction of temporary field fortifications is permissible with the prior approval of Range Control. Users are required to remove all materials and fill diggings prior to clearance. Living trees or plants will not be cut to aid in the construction of these fortifications.

Construction of field fortifications, or any other training activity, should not involve the disturbance of cultural resources of potential historic value. Such resources include building foundations, cellar holes, stone fences, mine excavations, wells, and cisterns.

### 2. Tree and foliage cutting

The cutting of trees and/or foliage is prohibited except when authorization has been obtained from Range Control (938-3930) and the ITAM office (938-5939). The cutting of all trees, to include small saplings, must be controlled to assure adequate species are reserved to form the future training area forest. The cutting of tree branches for camouflage or other purposes is prohibited to assure the good health of the trees.

### 3. Protected growth areas

Protection and management of natural resources in the training area involves the establishment of individual tree seedling shelters and deer browsing study plots which must not be disturbed. The tree shelters are 5 foot tall white or brown cylinders, and the study plots are small (generally 3' diameter or 12' x 12') fenced areas.

Occasionally a "woods road" off the main training area access road system has to be temporarily closed for rehabilitation. Signs restricting access to these roads apply to all activities, including training. Often the "roads" have been seeded and mulched and should not be disturbed. If use of such an area is deemed critical to the mission, coordination should be made with the Range Control (938-3930) or the ITAM office (938-5939).



# General Information



## Environmental Information

### 4. Wildlife

The trapping or killing of wild animals is prohibited except when authorization has been obtained from the Wildlife Biologist, Natural Resources Branch, DHPW.

Rattlesnakes at West Point are officially listed as "Threatened" species by New York State. Harassing, harming, or handling of rattlesnakes is strictly prohibited for the protection of the snake and humans. Violation of this is considered a felony. Rattlesnake sightings should be reported to the Wildlife Biologist at 938-3857 or the ITAM office (938-5939).

Disturbance of wildlife habitats and structures, such as beaver dams or bird nests, is also prohibited.

### 5. Fuel

Refueling of vehicles, equipment, and aircraft is prohibited in the training area complex. Exceptions are Camp Natural Bridge, Camp Buckner, Lake Frederick, and the Area K loading dock area. The USMA Environmental Office will review refueling procedures and certify them prior to dispensing of fuels.

Fuel trucks and tankers may not be parked within 200 meters of lakes, ponds, streams, rivers, etc.

**A fuel spill of any kind, no matter the size, must be reported to the DHPW, environmental office (938-3224) during duty hours or to the USMA fire department during non-duty hours.**

*For further information about environmental issues at West Point, please contact the Range Control (938-3930) or the ITAM office (938-5939).*

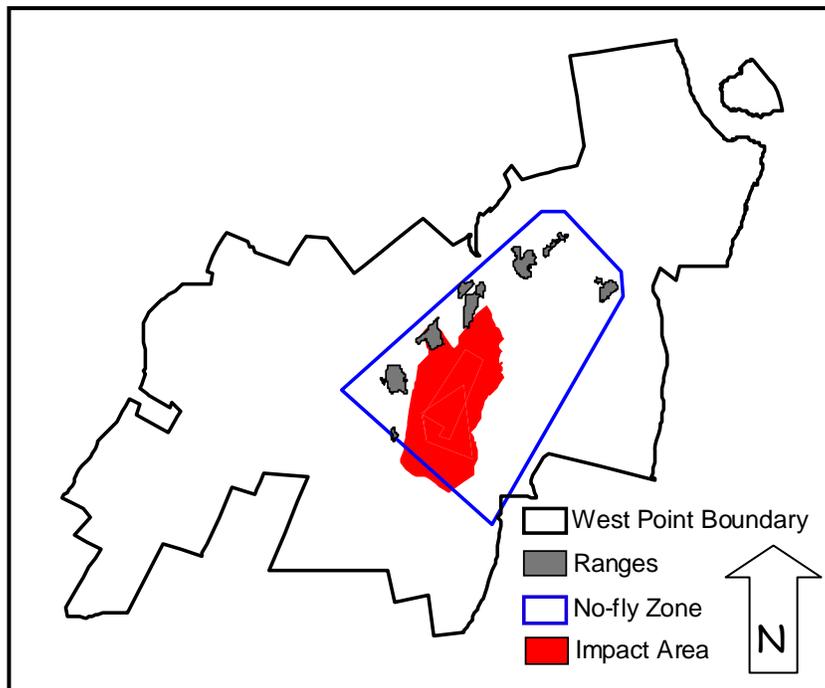


# General Information



## No-Fly Zone

The area described below has been designated as a joint use restricted area, R-5206, during designated periods of the year by the Federal Aviation Administration (FAA). An airspace restriction has been designated up to 5000 feet mean sea level (MSL) in order to allow for high angle fire between 1 July and 31 August. This airspace restriction can be activated at any other time during the year upon 48 hours notification to the FAA by notice to airmen (NOTAM) sent by Range Control.



- For non high-angle fire, the area has been designated as a Controlled Firing Area (CFA) in which ordnance firing is conducted under conditions controlled by the using agency. As a part of this responsibility, the using agency must ensure that firing will cease when aircraft traverse the controlled area. OIC's and RSO's of live-fire ranges will ensure compliance with applicable safety procedures stipulated by the FAA in the agreement that established the area. These safety procedures will include some or all of the safety measures outlined in AR 385-63 para 2-2e(1-8).
- For specific details pertaining to the no-fly zone, please see USMA Reg 385-11



# General Information



## Pyrotechnic Fire Hazard Decision Matrix

Action	Green	Blue	Yellow	Orange**	Red**
	Class 1	Class 2	Class 3	Class 4	Class 5
No restriction	X	X	X		
No parachute flares or star clusters			C	X	X
No ground flares*			C	X	X
No smoke pots*			C	X	X
No smoke grenades*			C	X	X
No demolition*			C	X	X

C = exercise caution when executing listed action

X = execute listed action

\* These pyrotechnics can be used during all burn index categories except red if they are ignited and extinguished in a controlled burn pit. This pit must be inspected by the Fire Chief prior to use.

\*\* Ranges are limited to Ball Ammo only under categories Orange and Red

# U.S. Military Academy

West Point, New York



## Range Information Book





# Range 1: Argonne Hand Grenade



Range #1 is a hand grenade facility consisting of four throwing bays for live hand grenades and a distance-accuracy course for practice hand grenades.



**Location:** Range 1 is located at WL84838063. By road, this range is accessed from Range Road 1, off of Route 9W, south of Highway 218. Keys are needed to gain entry to this range.

**Authorized Weapons and Ammunition:** Fragmentation hand grenades M67 and practice hand grenades.

### Facilities:

No bleachers, no mess area, two latrines as indicated on the map.

**Range Guard:** A range guard will be posted at the entrance to the range area (WL85028068) along range road 1.

**Vehicles:** The authorized parking area is by the access road at WL85018065. Vehicles are not permitted within the surface danger area when throwing of live hand grenades is in progress.

### Special Instructions:

1. Steel or ballistic (Kevlar) helmets will be worn by all personnel within the surface danger area.

2. Gloves or ponchos will not be worn during live practice hand grenade throwing.
3. Vehicles will not be permitted within the Surface Danger Zone (SDZ) when throwing of live hand grenades.
4. Practice grenades will not be used in the throwing bay areas.
5. If a live hand grenade fails to detonate, training with live grenades will cease in that bay and Range Control will be notified immediately for alert of EOD.

**Firing Points:** 4 concrete bays

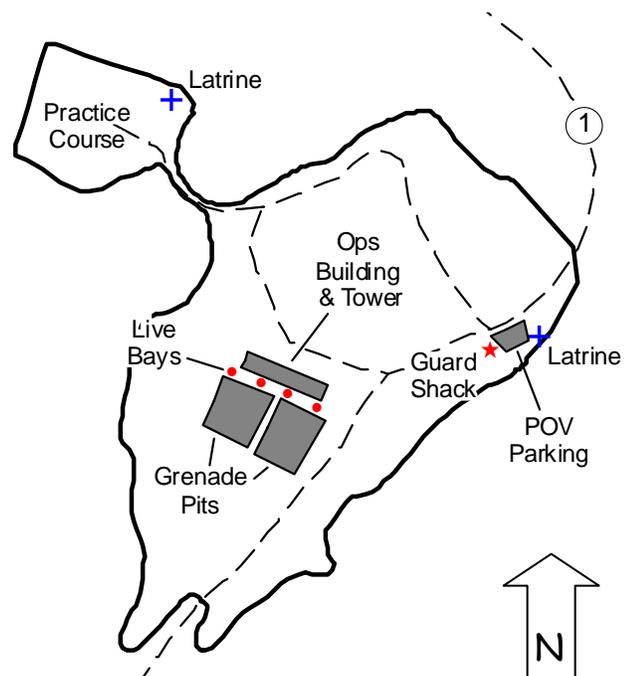
**Range Flag:** Vicinity of parking area and latrine

**Targets:** E & F type silhouettes and rubberized tire enclosed targets

**Safety Area:** 150m radius of throwing area

**Danger Area:** Z1

**Telephone:** 938-2464, located inside the tower





# Range 2: Buena Vista Field Artillery



Range 2 consists of four firing points and an adjacent RSOP practice area.



**Location:** Range 2 is located at WL83428129. This Range can be accessed from Range 1 or from HWY 218 via the ASP entrance. A key is needed to access this range.

**Authorized Weapons and Ammunition:**

- 105mm Howitzer: HE, HC, Fuses: PD
- 81mm and 4.2 inch Mortars: Mortar HE, Illumination, Practice and training with PD or VT fuses.

**Facilities:** Bleachers, mess area, 3 latrines as indicated on the map.

**Range Guard:** The guard shack is located at WL83348129.

**Vehicles:**

Military parking is available across the road from the firing points. POV parking is located in an open area at the base of the hill, close to the location of the sharp bend in range road 29 (WL83338170).

**Special Instructions:**

See USMA Reg 385-11 for more information

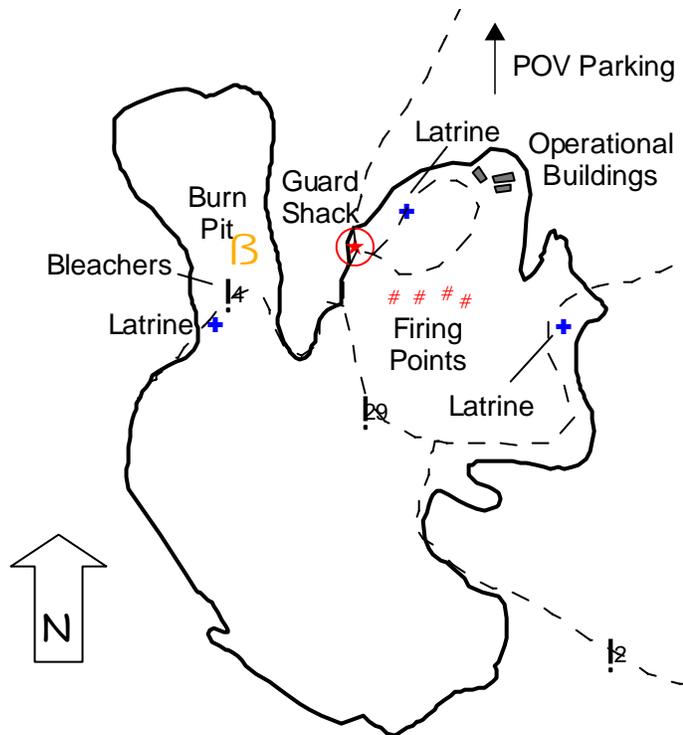
**Firing Points:** 4, see map

**Range Flag:** Located at the entrance to firing positions

**Targets:** Armored vehicle hulls

**Danger Area:** Z2, Z6, E2, OP McNair

**Telephone:** 938-3222





# Range 4: Inchon

## 25m Zeroing Range



Range 4 is a 25-meter zeroing range with 65 points for rifle, pistol, and a M16 night familiarization range with 39 points.



**Location:** This Range is located at WL82508065, adjacent to Range 5. It is accessible from HWY 293 across from Range Control, with a key.

### Authorized Weapons and Ammunition:

**Weapons:** Weapons firing standard 5.56mm (to include SAW) or lesser caliber ammunition or weapons requiring a surface danger zone less than 3000 meters.

**Ammunition:** Standard ball; tracer firing is prohibited during periods of increased danger of fire. See general information for details about fire danger.

**Vehicles:** The authorized parking for military vehicles is the lot between ranges 4 and 5 (WL82448079). POV parking is located outside of the Range Gate.

**Facilities:** Covered bleachers, mess area behind the bleachers on Range 5, one latrine.

**Range Guard:** Units firing from this range will post guards at the range shack (WL82438074).

### Special Instructions:

See USMA Reg 385-11 for more information

**Firing Points:** 63 daylight zero and 39 night familiarization

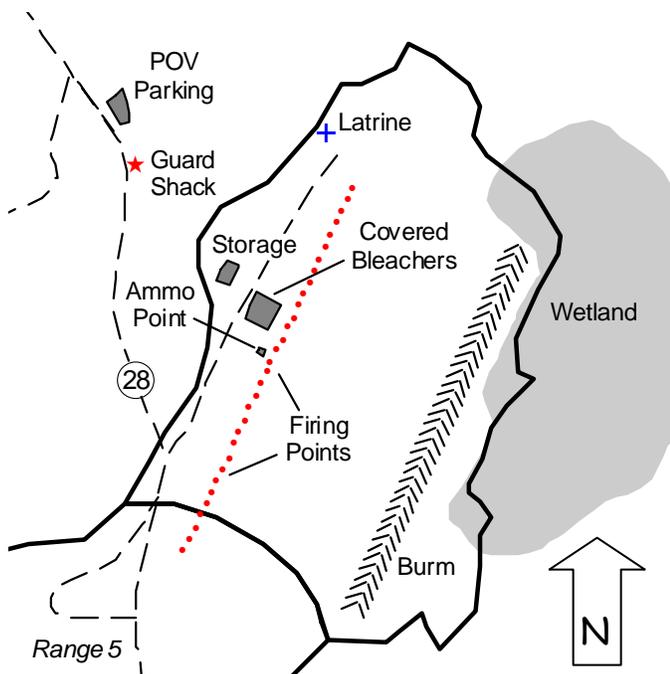
**Range Flag:** Located along Route 293 at the base of the range road

**Targets:** Zero target frames at 25m. M31 mounted E-type silhouettes at 50m for night

**Safety Area:** Right and left limits are posted downrange

**Danger Area:** Z2, Z3, D2, D3, D5, D6

**Telephone:** 938-3757, located on range tower





# Range 5: Gettysburg Automated Field Fire



Range 5 is an Automated Field Fire (AFF) range with a Machine Gun (MG) firing capability. This range consists of 16 lanes of AFF and 8 partial lanes of MG.



**Location:** This Range is located at WL82388052, adjacent to Range 4 and is accessible from HWY 293 across from Range Control. A key is necessary to access this range.

### Authorized Weapons and Ammunition:

Weapons firing standard 5.56mm or lesser caliber ammunition.

Machine guns (M60 or M240G) are authorized only under a waiver in support of Cadet Summer Training (CST). Machine guns will not be fired on the AFF. Bipod and/or Traversing and Elevation (T&E) mechanism firing is authorized from the prone position only. No assault firing is authorized on this range without approval from Range Control. Tracer firing is prohibited during periods of increased danger of fire.

**Facilities:** Covered bleachers, mess area behind the bleachers, one latrine.

**Range Guard:** When firing from this range ensure the following actions are taken:

A guard will be posted at the gate

No guard is necessary at the intersection of the firing line on Range 5 and the road to McNair Observation Point (OP). However, the range OIC must block the road and permit traffic through the intersection only upon approval from Range Control and a cease-fire.

**Vehicles:** Parking for military vehicles is in the lot between ranges 4 and 5 (WL82448079). The authorized parking for privately owned vehicles is located outside of the Range Gate. See Range 4 map for more details.

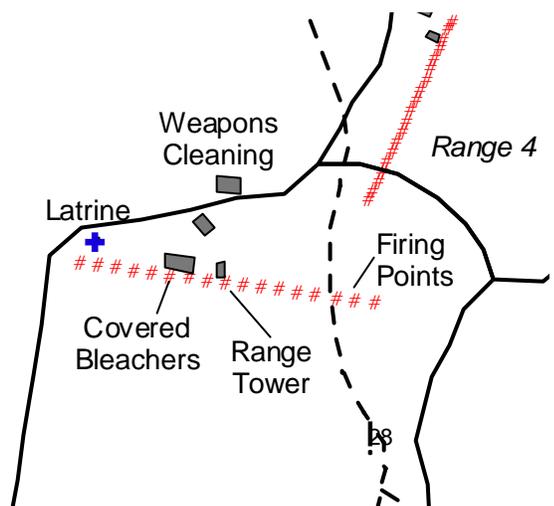
**Range Flag:** Located in the vicinity of Route 293 at the base of the range road.

**Targets:** AFF: E type silhouettes on M64 mechanism; MG: E-type silhouettes

**Safety Area:** Right and left limits are posted downrange

**Danger Area:** Z3, OP McNair

**Telephone:** 938-6036, located on range tower





# Range 7: Saratoga Anti-tank



Range 7 is used for claymores and anti-tank weapons.



**Location:** This Range is part of the 7-10 Complex and is located at WL81708000. It is accessible from HWY 293 directly across from Range Control. A key is needed to access this range.

**Authorized Weapons and Ammunition:**  
Weapons: 66mm Light Anti-tank Weapon, M72 LAW; M136 (AT4), M18 Claymore Mine, MK19, SMAW (83mm).

**Ammunition:** All M72 and M67 ammunition; 83mm HE (SMAW), 40mm MK19 (less high explosive) when used with tripod and T&E mechanism.

**Facilities:** Bleachers, mess area on Range 8 behind near operational building, one latrine as shown on map.

**Range Guard:** The guard shack is located at WL81758009.

**Vehicles:** Military Parking is available behind Range 8 and between Range 7 and 8 (WL81688001). There is no POV parking available on this Range.

**Special Instructions:**  
See USMA Reg 385-11 for more information

**Firing Points:** 6 points, see map

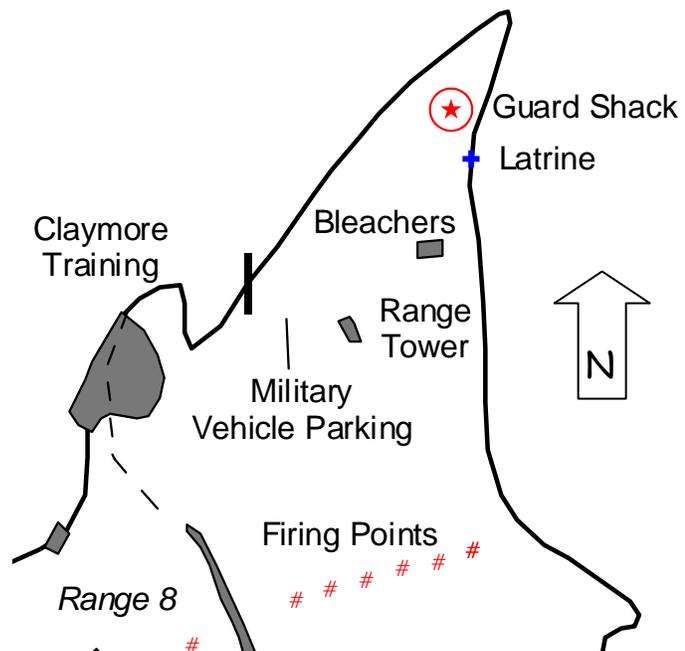
**Range Flag:** Located adjacent to Route 293

**Targets:** Vehicle hulls in the impact area

**Safety Area:** Right and left limits are indicated by panel markers posted downrange

**Danger Area:** Z4, D4, E2, OP McNair

**Telephone:** 938-6038, located in tower





# Range 8: Richmond

## M203



Range 8 is used for M203 Grenade launchers and MK19.



**Location:** This Range is part of the 7-10 Complex and is located at WL81597986 . It is accessible from HWY 293 directly across from Range Control. A key is needed to access this range.

**Authorized Weapons and Ammunition:**

**Weapons:** 40mm grenade launcher, M203, MK19.

**Ammunition:** All 40mm rounds less White Phosphorus, M385 practice rounds for MK19.

**Facilities:** Covered bleachers, mess area near operational building

**Range Guard:** Guard shack is located at WL81758009.

**Vehicles:** Military Parking is available behind Range 8 and between Range 7 and 8 (WL81688001). There is no POV parking available on this Range.

**Special Instructions:**

1. A minimum distance of 130 meters will be maintained between the impact area and the firing line when firing the grenade launcher.
2. Firing will be suspended when ground winds are in excess of 30 mph
3. All personnel are prohibited from the impact area.

See USMA Reg 385-11 for more information

**Firing Points:** 11 points

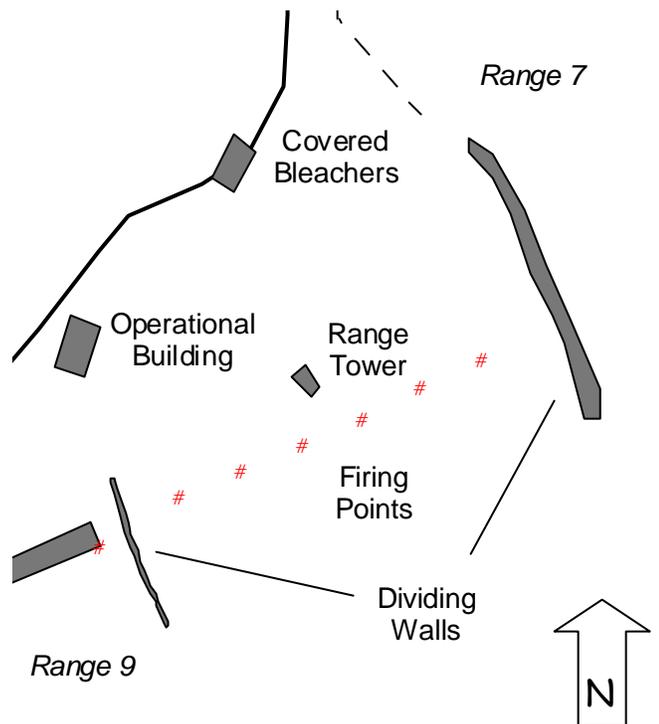
**Range Flag:** Located adjacent to Route 293

**Targets:** Vehicle hulls in the impact area

**Safety Area:** Right and left limits are indicated by panel markers posted downrange

**Danger Area:** Z4, D4, E2, OP McNair

**Telephone:** 938-2861, located on pole next to tower





# Range 9: Stony Point Pistol



Range 9 is used to support a variety of cadet firearm clubs, and serves as the resident FBI field office marksmanship range. Range 9 also supports other civilian law enforcement agencies that are authorized to use USMA training facilities.



**Location:** This Range is part of the 7-10 Complex and is located at WL81547982. It is accessible from HWY 293 directly across from Range Control. A key is needed to access this range.

### Authorized Weapons and Ammunition:

**Weapons:** Handguns, M16 Series Rifles, M4 Rifle and Shotguns. No automatic firing will take place on this range.

**Ammunition:** Only ammunition typically fired in the above-authorized weapons is permitted.

**Range Guard:** Guard shack is located at WL81758009.

**Vehicles:** Military Parking is available behind Range 8 and between Range 7 and 8 (WL81688001). There is no POV parking available on this Range.

### Special Instructions:

Using military units must get trained on the target system by Range Control before they will be allowed to use the range. All civilian law enforcement agencies will contact the FBI's West Point field office to receive training on the system.

**Firing Points:** This facility can support up to 30 firers

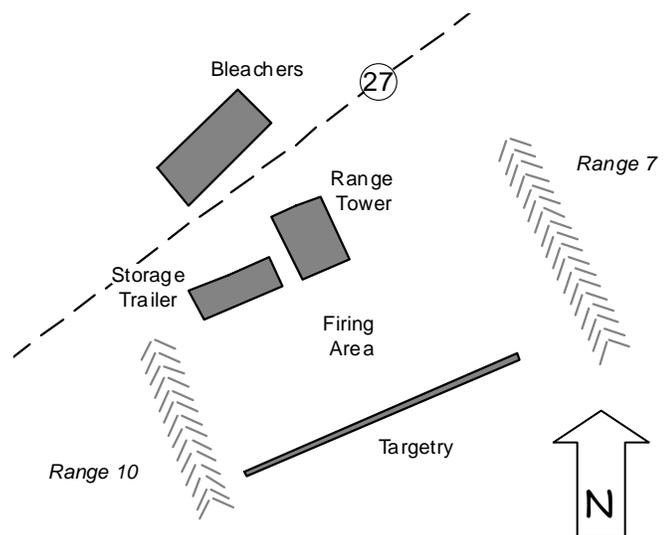
**Range Flag:** Located adjacent to Route 293

**Targets:** Blackwater Bear Target System. The target system is located at a distance of 50 yards from the firing line. Civilian firers will provide all targets and backing materials.

**Safety Area:** Right and left limits are indicated by panel markers posted downrange.

**Danger Area:** Z4, OP McNair

**Telephone:** 938-6037





# Range 10: Bastogne Skeet



The USMA Skeet and Trap Range is for recreational use by the Corps of Cadets, USMA staff and faculty, and other authorized military personnel and their guests.



**Location:** This Range is part of the 7-10 Complex and is located at WL81477980. It is accessible from HWY 293 directly across from Range Control. A key is needed to access this range.

**Authorized Weapons and Ammunition:**  
Weapons: .410 to 12 gauge shotguns only

Ammunition: Light target load, #7.5 to #9.

**Range Guard:** Guard shack is located at WL81758009.

**Vehicles:** Military Parking is available behind Range 8 and between Range 7 and 8 (WL81688001). There is no POV parking available on this Range.

### Special Instructions:

- The Cadet Skeet and Trap Team has priority
- All individual users must complete an additional course of instruction on the use of the equipment on this range
- A maximum of 19 shooters may use this range at any one time

See USMA Reg 385-11 for more information

**Firing Points:** At designated, regulation skeet and trap stations only

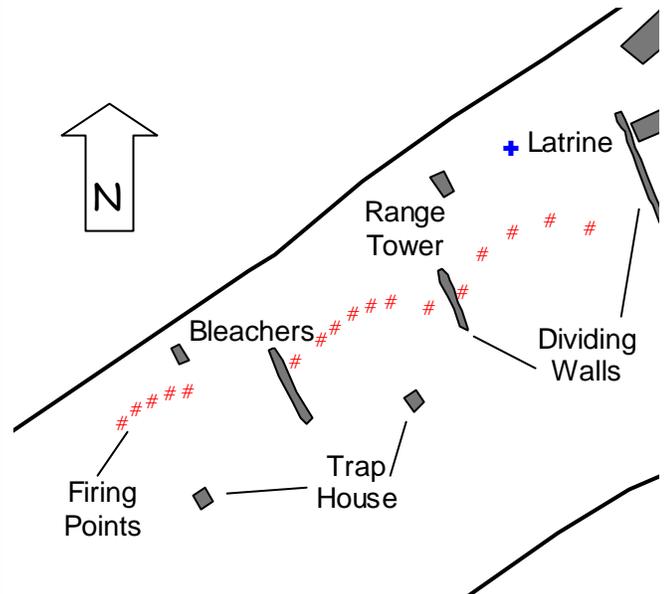
**Range Flag:** Located adjacent to Route 293

**Targets:** Personnel must provide their own

**Safety Area:** Right and left limits are indicated by panel markers posted downrange

**Danger Area:** Z4, OP McNair

**Telephone:** 938-4492 or 938-6208





# Range 11: Normandy

## Record Fire



Range 11 is a 16 lane Remote Engagement Target System (RETS) record fire range. This range is computer-operated and requires the unit to provide a certified tower operator and/or Range Control to operate. This range currently operates with two programs (scenarios): M-16 record fire (qualification) and mission oriented protective posture (MOPP) familiarization.



**Location:** This Range is located at WL80887901 and is accessible from HWY 293 between Mine Torne Road and Long Pond. A key is necessary to use this range.

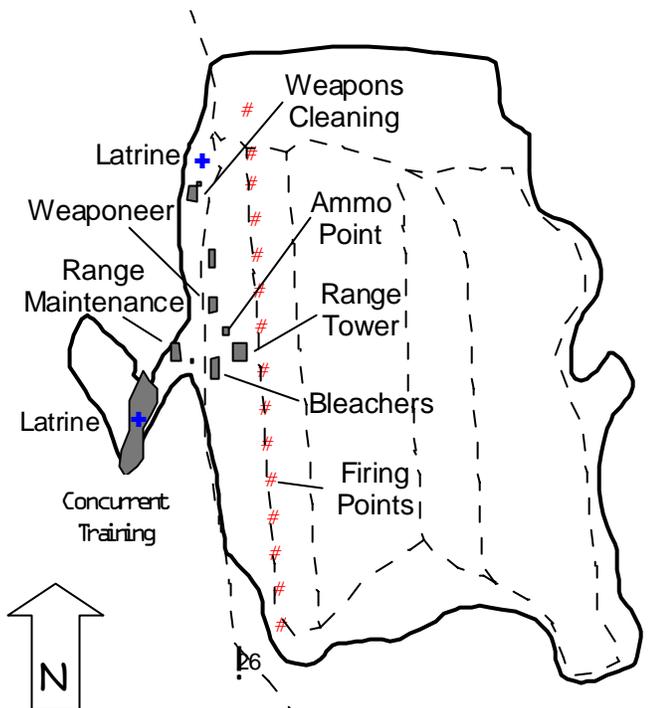
**Authorized Weapons and Ammunition:** Weapons firing standard 5.56mm or lesser caliber ammunition or weapons having a surface danger zone less than 3000 meters excluding shotguns. Only semi-automatic fire is authorized.  
*Ammunition:* Standard ball

**Range Guard:** The guard shack is located at WL80697941.

**Vehicles:** Authorized military parking is behind the range tower. POV parking is just inside the gate (WL80687943). Vehicles are not permitted past the range tower when Range 12 is operational.

**Special Instructions:**  
See USMA Reg 385-11 for more information

**Firing Points:** 16 points, see map  
**Range Flag:** Located at the range gate  
**Targets:** E and F type silhouettes on M64 mechanism at range of 50, 100, 150, 200, 250, & 300 meters  
**Safety Area:** Right and left limits are posted downrange  
**Danger Area:** Z5, D5, D6  
**Telephone:** 938-4243, located in tower and ammo building





# Range 12: Basra Mortar



Range 12 is a mortar and MK19 range with four firing points.



**Location:** This Range is located at WL81067830 and is accessible from Range 11 and Mine Torne Road, across from Lake Stilwell. A key is necessary to access this range.

**Authorized Weapons and Ammunition:**  
*Weapons:* 60mm, 81mm mortar, 120mm mortar and MK19

*Ammunition:* HE, Illumination, practice and training PD/VT fuses for 60mm, 81mm, and 120mm mortar. Only M385 practice (aluminum) rounds may be fired from the MK19.

**Facilities:** Bleachers, mess area to the right of the range tower, one latrine as shown on map.

**Range Guard:** The guard shack for range 12 is located at WL81007778.

**Vehicles:** The designated parking area for military vehicles is on the road leading into the range from Mine Torne Road. Privately owned vehicles (POVs) should be parked on Mine Torne Road below Stilwell Dam.

**Special Instructions:**  
See USMA Reg 385-11 for more information

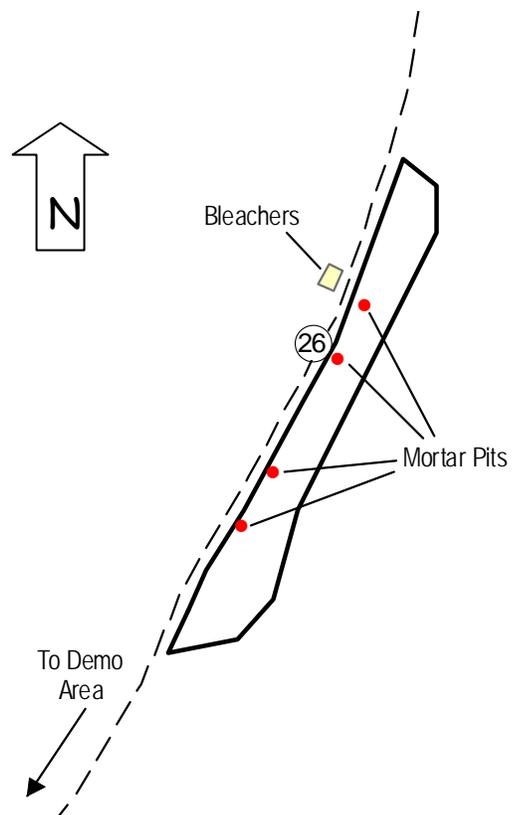
**Firing Points:** All weapons must be located within 25 meters of WL81067830

**Range Flag:** Range pole is located next to the gate

**Targets:** Vehicle hulls in impact area

**Danger Area:** Training Areas-Z6 and E2. The portion of the range road between Ranges #11 and #12.

**Telephone:** 938-4356, located in tower





# Live Fire Exercise (LFX) Ambush Sites



There are 5 Live Fire Exercise (LFX) Ambush Sites throughout the range and training complex at USMA.

**Authorized Weapons and Ammunition:**  
M16 series, M-4, 249 SAW, M18 Claymore Mine

**Range Guard:** Yes

**Special Instructions:**  
See USMA Reg 385-11 for more information

**Range Flag:** Yes

**Targets:** Moving target carried by a tracked vehicle

**Danger Area:** See USMA Reg 385-11

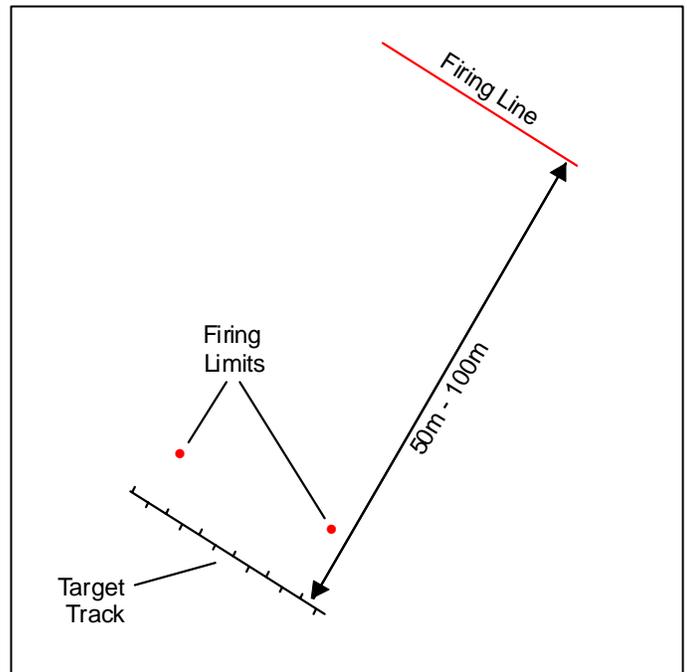
**Telephone:** N/A (FM Communication)



LFX 5

**Location:** The LFX sites are located at the following coordinates:

- LFX-1: WL84408020
- LFX-2: WL83808050
- LFX-3: WL83708070
- LFX-4: WL81907990
- LFX-5: WL81007826



Standard LFX layout



# U.S. Military Academy

West Point, New York



## Specialty Course Information Book



Bull Run Water Confidence Course



Lundy's Lane LRC



MOUT Site



Marne Confidence Course



# Anzio Obstacle Course



Anzio obstacle course is located in Camp Buckner at WL78877829. This course measures a soldier's ability to perform physical skills that may be needed in a combat situation.



Run, Dodge Jump

The obstacle course has low obstacles that must be negotiated quickly, testing the soldier's basic motor skills and physical conditioning.

After soldiers receive instruction and practice the skills, they run the course against time.



Log Ladder



# Appomattox Combative Pit



This site consists of a sawdust-filled combative pit, adjacent to Camp Buckner and Route 293. This site is used for instruction and practice of hand to hand combat skills and can be used for Pugil stick instruction and practice.





# Bataan Bayonet Course



The Bataan Bayonet Assault Course (BAC) is located in Training Area B (WL79817897). It consists of 9 lanes of obstacles and is approximately 400 meters in length. Use of this course must be scheduled through Range Control. The unit must conduct a pre-inspection prior to using the course.





# Land Navigation Courses



There are three separate Land Nav courses at West Point. Land Nav 1 (Vera Cruz, WL75927741) and Land Nav 2 (Utah, WL77237702) are considered practice courses. Land Nav 3 (Vicksburg) can be run as a competitive course for either day or night navigation. Navigational points need to be placed along the intended course route and locations need to be verified by the using unit.



## Land Nav 3: Vicksburg

The Vicksburg Advanced Land Navigation Course is located in Training Areas C and P and is located at WL76187616. The course key can be obtained from Range Control and a recon of the course is strongly recommended before training. Score points consist of marked trees with numbered tin can lids.



# Lundy's Lane LRC



Lundy's Lane Leadership Reaction Course (LRC) is located in Training Area K at WL79337766. Access is off of Route 293. Use of the LRC is scheduled through Range Control and a pamphlet describing the course and its operation is also available at Range Control. All equipment is located in a connex behind the last obstacle (obstacle 13, The Tubes). A latrine is adjacent to obstacles 12 and 13.

## Obstacle List -

- |                   |                    |
|-------------------|--------------------|
| 1. River Crossing | 8. Blood Expander  |
| 2. Moving Bridge  | 9. Minefield 2     |
| 3. Bridge the Gap | 10. Electric Fence |
| 4. Tank Trap      | 11. Ammo Detail    |
| 5. Minefield 1    | 12. POW Escape     |
| 6. The Wall       | 13. Tubes          |
| 7. The Cliff      |                    |



Tank Trap



Tubes



Blood Expander



# Lundy's Lane LRC



## Example Obstacle Description

### River Crossing

*Student Briefing:* You are in charge of an ammunition detail delivering ammunition to your unit. It is in very heavy contact and in serious need of the ammunition. On your way back you encounter this obstacle which you must cross using the available equipment. The river is deep, fast, and unfordable at this point and anyone falling into the river will be swept away. All members must cross the obstacle along with all equipment.



River Crossing

*Safety Factors:* Do not allow students to throw planks, rifles, or ammunition. No jumping until one or both white marks on the rails have been reached by a plank. Ammunition must be under control, i.e., not dropped or thrown.

*Instructions to the Rater:* A foul occurs when -  
A team member or equipment touches any area painted red.  
A team member or any piece of equipment touches water.

You may penalize the team for fouling by-  
Penalizing team 10 to 60 seconds.

Move team back one stage.

The planks may touch the bars only but no other part of the obstacle.  
All equipment used by the group must be taken with the group.



Bridge the Gap

### Equipment:

- 2 iron rails (installed on bridge)
- 2 planks (2x6x96)
- 2 planks (2x6x48)
- 2 planks (2x6x40)
- 2 ammo boxes (7.62 inert)



# Maddock Drop Zone



This is a circular-shaped drop zone with a diameter of 600 meters located directly north of Lake Frederick (WL753773). This Drop Zone is for the exclusive use of the USMA Airborne Detachment and the USMA Cadet Parachute Team. This facility is scheduled through Range Control.



# Marne Confidence Course



The Marne Confidence Course is located in Training Area K at WL78937770. This course is composed of 24 obstacles. Descriptions of some obstacles are included in the following pages. Please see FM 21-20 for more information.



## **Belly Buster -**

Soldiers vault, jump, or climb over the log. They must be warned that it is not stationary. Therefore, they should not roll or rock the log while others are negotiating it. *See picture at left.*

## **Swing, Stop, and Jump -**

Soldiers gain momentum with a short run, grasp the rope, and swing their bodies forward to the top of the wall. They release the rope while standing on the wall and jump to the ground. *See picture at right.*





# Marne Confidence Course



## Weaver -

Soldiers move from one end of the obstacle to the other by weaving their bodies under one bar and over the next. *See picture at right.*



## The Tough One -

Soldiers climb the rope or pole on the lowest end of the obstacle. They go over or between the logs at the top of the rope. They move across the log walkway, climb the ladder to the high end, then climb down the cargo net to the ground. *See picture at left.*

### Obstacle List

Balancing Logs  
Belly Buster  
Belly Robber  
Confidence Climb  
Confidence Slide  
The Dirty Name  
Easy Balancer  
High Step Over

Hip-Hip  
Incline Wall  
Island Hopper  
Jump and Land  
Log Walk  
Low Belly Over  
Low Wire Crawl  
Reverse Climb

Six Vaults  
Sky Scraper  
Swing, Stop, and Jump  
Swinger  
Tarzan  
Tough Nut  
Tough One  
Weaver



# MOUT Site



The USMA MOUT Site consists of three buildings, one two-story building and two one-story buildings, with a fourth building proposed for future construction. Each structure is built using masonry walls and does not possess interior or exterior lighting.

This facility is not equipped with audio or video capabilities, nor can live ammunition be used during training. The only authorized ammunition that can be used are blanks, pyrotechnics (smoke only), and practice hand grenades. Paintball use is prohibited at all times with no exceptions. The Aachen MOUT Site is located at WL82157498.





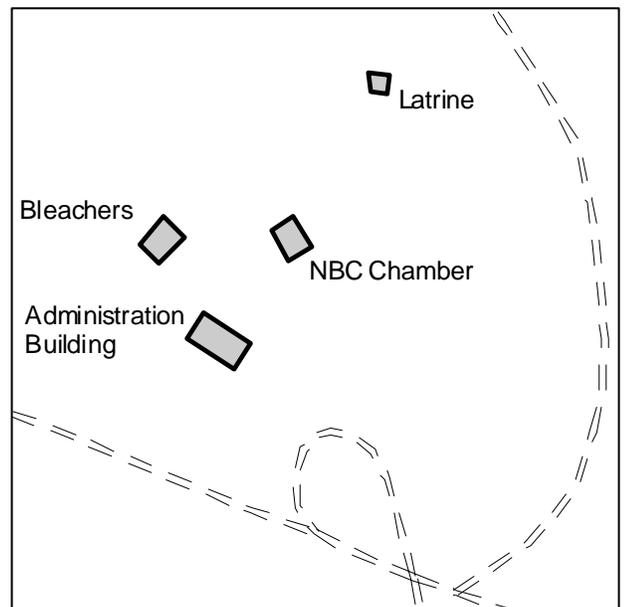
# Verdun NBC Site



This training site is located at WL75967738 and consists of a NBC Chamber with a parking area, administration building. There are no latrine facilities located at NBC site; using units should contact the Directorate of Contracting to rent Porta Potty at cost. This facility is scheduled through Range Control.



NBC Chamber





# Observation Posts



## McNair Observation Post

McNair Observation Post is located at grid WL82037950, at an altitude of 367.6 meters and consists of a concrete bunker, which can be used for observation of fire. Other OP's may be selected, however, they must be located outside of the active danger fan and require written approval of the CDR, 1-1 IN/DGC-WP. Range Control will be contacted and approval obtained, before any movement either to or from McNair OP.

## Observation Post 5

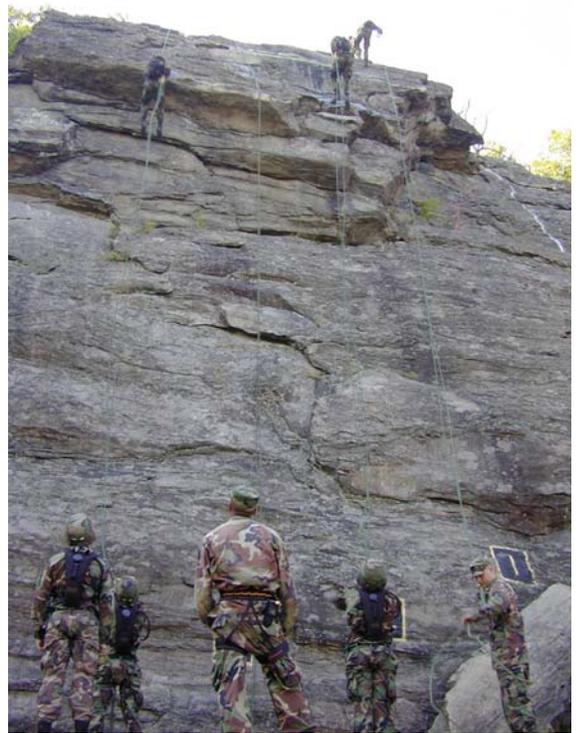
Observation Post 5 is located along the ridge in Area H west of Range 11. Other OP's may be selected, however, they must be located outside of the active danger fan and require written approval of the CDR, 1-1 IN/DGC-WP. Range Control will be contacted and approval obtained, before any movement either to or from OP 5.



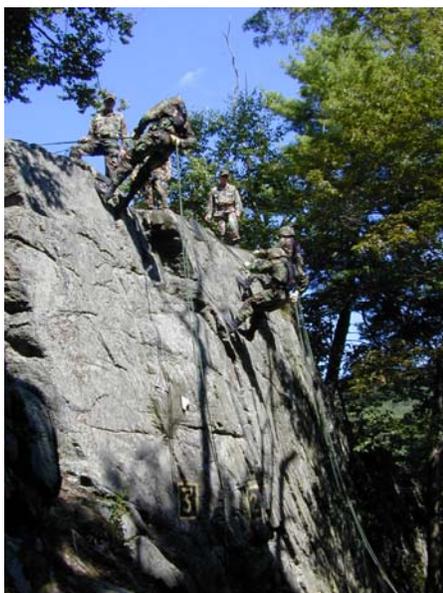
# Pine Ridge Rappel Site



The Pine Ridge Rappel site is located at WL77227615. Users of the rappel site are required to maintain radio communication with Range Control, and have a qualified aide person, litter, and dedicated evacuation vehicle on-site during the conduct of training. Use of this site is considered the same as a range and therefore required a qualified OIC and RSO (training certification of the OIC and RSO by the battalion commander or equivalent is mandatory). Either the OIC or RSO must be rappel master qualified and their certification certificate must be on file with range control.



75 foot rappel



25 foot practice wall



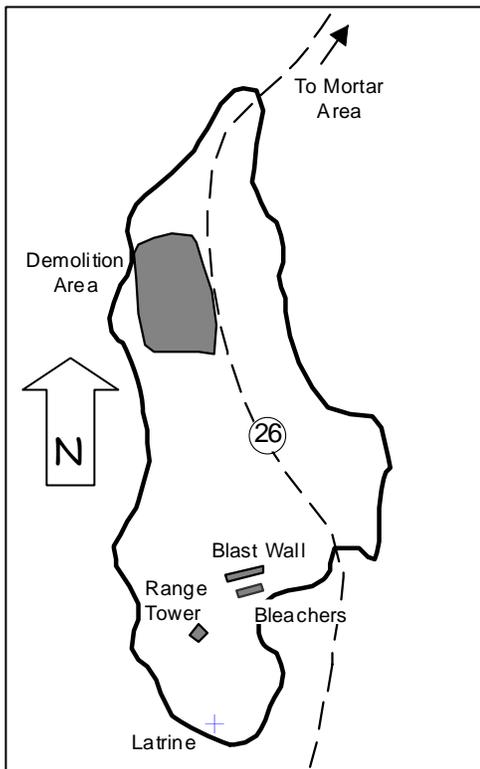
This site offers training for beginners and advanced rappelling. Lanes are also available for Hasty Rappel, Body Rappel, and Balance Climb



# Range 12 Demolition Site



The Range 12 Demo Site is located at WL80997796. The use of TNT, dynamite, blasting caps, detonation cord, C-4, shape-charges, and Bangalore Torpedoes is authorized in the designated firing pits. Total combined charge may not exceed 16 pounds.



**The following safety precautions will be strictly followed:**

1. A range flag will be prominently displayed at the the range entrance off of Mine Torne Road whenever explosives are being used.
2. The gate guards will not permit entrance by vehicles or personnel while the range is in use without the approval of the Range OIC.
3. Personnel within 100 meters and actually involved in firing explosives will be required to wear Kevlar helmets and ear plugs.



Blast Wall



# Sapper Isle Demolition Site



## Sapper Isle is not currently in use

This demolition site is approved for use only during the summer in support of the Cadet Training Program and **will not** be approved for other users. The use of TNT, dynamite, blasting caps, detonation cord, C-4, shape-charges, and Bangalore Torpedoes is authorized in the designated firing pits. Total combined charge may not exceed 1/2 pound. The Mobility/Survivability (MS) (Engineer) Committee of Cadet Field Training are the only authorized users of this training site.

## The following safety precautions will be strictly followed:

1. Explosive charges may be exploded in roofless sandbag bunkers on this island. Charges will not exceed 1/2 pound per bunker, fired non-electrically. Surface danger areas in this instance are 60 meters. Personnel must wear Kevlar helmets and earplugs.
2. The OIC or RSO will have a radio for communications with Range Control.
3. The range will go "wet" when the assault force reaches the island. The OIC or RSO will request "wet" and "dry" times.
4. Before detonation, the OIC and RSO must check the island for personnel and departs ensuring all boats are clear of the surface danger area (300 meters). After the blast the OIC or RSO clears the island and requests a "dry" time.



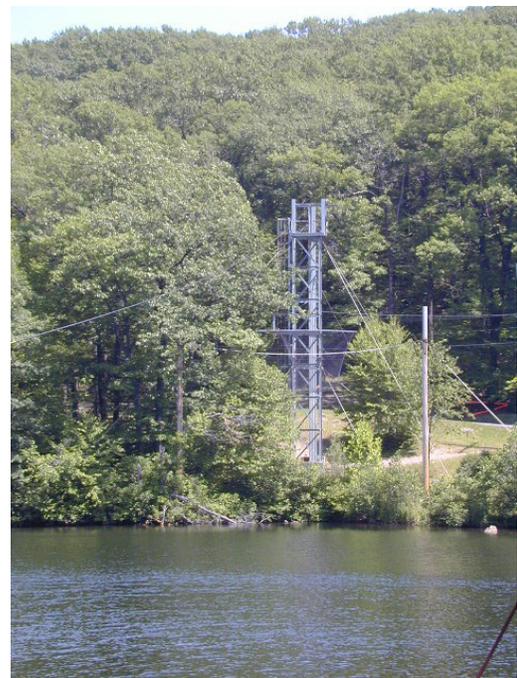


# Water Confidence Course



The Bull Run Water Confidence Training site is located at WL78677826. It extends over Popolopen Lake from Camp Buckner to White Oak Island. This site consists of a slide for life, rope bridge, and beam walk-rope drop. Users must have a qualified and fully equipped scuba diver on-site. Two boats with two lifeguards each is required to operate this course.

The battalion commander or equivalent will certify the training and qualifications of the diver and lifeguards. Medic and ambulance are required. Scheduling is done through Range Control.



Slide for Life



Beam Walk Rope Drop