

**FIRING/NONFIRING DATA**

*For use of this form see USAIC Regulation 350-19; the proponent agency is DPTMS*

<b>TO:</b> Chief, Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905	<b>Date:</b> 15 March, 2013 <span style="float: right; background-color: yellow;">Log #1-6-13</span> <b>Range:</b> Hartell OP, Concord OP, K36 <b>Title:</b> Concord OP Range Division Standard Close Air Support <b>Problem No:</b>
<b>THRU:</b> DPTMS, Range Operations Fort Benning, Georgia 31905	<b>FROM:</b> Range Operations Survey Fort Benning, Georgia 31905

**SECTION I, TYPE OF TRAINING**

a. Live Fire     
  b. Non-live Fire     
 CPI/Controller Coordinates: See Weapons and Ammo List

**SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS**

Coordinates	Type	Model/DODAC	Size of Charges

**SECTION III, WEAPONS/AMMUNITION REQUESTED**

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
See Weapons and Ammo List	See Weapons and Ammo List	See Weapons and Ammo List	See Weapons and Ammo List	See Weapons and Ammo List

**SECTION IV, LIVE FIRE EXERCISES Attach the following:**

**SECTION V, NON-LIVE FIRE TRAINING**

<input checked="" type="checkbox"/> Scenario of training to be conducted: <input checked="" type="checkbox"/> Sketch of area: <input checked="" type="checkbox"/> Risk Assessment: <input type="checkbox"/> Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:	<b>Training area(s) to be occupied:</b>  <input type="checkbox"/> Scenario of training to be conducted: <input type="checkbox"/> Sketch of area(s) to be occupied: <input type="checkbox"/> Risk Assessment:
Name/rank of requesting officer: <i>Benjamin T. Bolding</i> Benjamin T. Bolding, GS08, Chief Survey Technician	Name/rank of Major Unit S3/Commander: <i>Brad S. Tesch</i> Brad S. Tesch, GS12, Chief Range Operations, DPTMS

**SECTION VI, FOR RANGE DIVISION USE**

**DATE:** *24 April 2013*

<b>TO:</b> Range Operations, Range Division Fort Benning, Georgia 31905	<b>FROM:</b> Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905
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<b>a. Roadblocks to be closed:</b>	K: 2, 5, 12, 16A, 16B, 27, 28, 29, 30, 32, 38, 39, 41, 42, 44, 45, 46. O: 9, 18.
<b>b. Road(s) to be closed/road barrier locations:</b>	See Weapons And Ammo List For Additional Roadblocks, Road Guard And Barrier Positions.
<b>c. Remarks:</b>	
<b>d. This approval expires:</b> <i>Indef</i>	

Chief, Range Division  
 Directorate of Plans, Training, Mobilization and Security  
*Brad S. Tesch*

**Concord OP Range Division Standard Close Air Support Log #1-6-13 Weapons & Ammo List**

Firing Positions	Weapons	Ammunition	Left Limit Deg's Grid Azimuth	Right Limit Deg's Grid Azimuth
<p><b>Corridor A Attack Helicopter (Hartell OP)</b>                      Start Fire: GA 1439 9083 to 1491 9053                      to Cease Fire: GA 1479 9153 to 1531 9123                      Attack Headings:                      2.75" FFAR &amp; M2 .50 cal = 020 Deg's (Grid Az)                      20mm, 30mm, 7.62mm = 030 Deg's (Grid Az)</p>	<p>2.75" FFAR, M2                      M61 Vulcan, M230 Chain Gun                      Mini Gun M134</p>	<p>2.75" Inert, .50 cal Ball/Tracer                      20mm (TP-T), 30mm (TP-T)                      7.62mm Ball/Tracer</p>	<p>005                      005                      005</p>	<p>035                      055                      055</p>
<p><b>Corridor B Attack Helicopter (Concord OP)</b>                      Start Fire: GA 1563 9019 to 1623 9025                      to Cease Fire: GA 1554 9119 to 1614 9124                      Attack Headings:                      Weapons Listed = 355 Deg's (Grid Az)</p>	<p>2.75" FFAR, M2                      M61 Vulcan, M230 Chain Gun                      Mini Gun M134</p>	<p>2.75" Inert, .50 cal Ball/Tracer                      20mm (TP-T), 30mm (TP-T)                      7.62mm Ball/Tracer</p>	<p>335</p>	<p>015</p>
<p><b>Corridor C Attack Helicopter (K36)</b>                      Start Fire: GA 1686 9005 to 1744 9020                      to Cease Fire: GA 1660 9101 1718 9117                      Attack Headings:                      Weapons Listed = 345 Deg's (Grid Az)</p>	<p>2.75" FFAR, M2                      M61 Vulcan, M230 Chain Gun                      Mini Gun M134</p>	<p>2.75" Inert, .50 cal Ball/Tracer                      20mm (TP-T), 30mm (TP-T)                      7.62mm Ball/Tracer</p>	<p>325</p>	<p>005</p>
<p>Hartell OP Bunker: GA 1457 9077                      Hartell OP Non Bunker: GA 1455 9065                      Concord OP: GA 1554 9029; K36: GA 1719 9015</p>	<p>M4/M249, M240B, M2                      LASER's</p>	<p>5.56mm/7.62mm/.50 cal Blanks                      Various LASERS For Target Marking</p>	<p>N/A</p>	<p>N/A</p>

**Additional Roadblocks, Road Guard And Barrier Positions.** When Occupying Eelbeck Field For Helicopter FARP The Following Roadblock, Road Guards And Barriers will be in Place: **K10.** **Roadguard #1** will be Placed on Buena Vista Road Near The West End of Eelbeck Field (GA 1130 9198) Blocking Traffic Going East. **Roadguard #2** will be Placed on Buena Vista Road at its Intersection With Resaca Road (1359 9081) Blocking Traffic Going North West. **Barrier #1** Will be Placed on Tank Trail (GA 1131 9196) Adjacent to Roadguard #1 Blocking Traffic Going East. **Barrier #2** Will be Placed on Tank Trail (GA 1358 9081) Adjacent to Roadguard #2 Blocking Traffic Going North West.

Note: Launch Angle for 2.75" FFAR from Attack Helicopters will not exceed +4 degrees.  
 Attack Helicopter Corridor A is 600m wide and 800m long.  
 Attack Helicopter Corridors B and C are 600m wide and 1,000m long each.

**Helicopter Target List (All Targets Are Located Inside the K15 Dud Area)**

Targets for **Corridor A (Hartell OP)** Attack Helicopters in K15 For 20mm/30mm, 7.62mm = 1-56. And For 2.75" FFAR & M2 .50 cal = 30, 35-44, 47, 50-54.  
 Targets for **Corridor B** Attack Helicopters in K15 For Weapons Listed Above = 2, 9-33, 35-48, 50-54.  
 Targets for **Corridor C** Attack Helicopters in K15 For Weapons Listed Above = 1-34, 50-56.

**Concord OP Range Division Standard Close Air Support Log #1-6-13 Weapons & Ammo List**

Firing Positions	Weapons	Ammunition	Left Limit Deg's Grid Azimuth	Right Limit Deg's Grid Azimuth
<u>AC130</u> : K15 Target Area	25mm 30mm, 40mm 105mm	HE, HEIT, TP-T HE, HEIT, TP-T HE, WP, Inert	See AC130 Notes Below	See AC130 Notes Below
<u>TAC Air</u> : K15 Target Area See TAC Air Notes Below	20mm, 30mm MK82/83 BDU (33, 38, 48). MK (106, 117)	HE/HEIT, TP-T HE/Inert Inert	325 315 315	025 345 345
Hartell OP Bunker: GA 1457 9077 Hartell OP Non Bunker: GA 1455 9065 Concord OP: GA 1554 9029; K36: GA 1719 9015	M4/M249, M240B, M2 LASER's	5.56mm/7.62mm/.50 cal Blanks Various LASERS For Target Marking	N/A	N/A
Eelbeck Field FARP: GA 1150 9181	20mm, 30mm, 2.75" FFAR M134 Mini Gun M2	TP-T, TP-T, Inert 7.62mm Ball/Tracer .50 cal Ball/Tracer	075	075

**AC130 Notes:** (30mm, 40mm and 105mm) Can Conduct Continuous Fire at Targets 1-48, 55 and 56 (WP/Inert) Located Inside The Following Coordinates: GA 15063 91964, 16881 93014, 15313 91531, 17131 92581). HE/HEIT, etc Targets = 1-25, 32-34, 48, 55 And 56 Located Inside The Following Coordinates: (GA) 15712 92339, 16881 93014, 15962 91906, 17131 92581. HE/HEIT, etc Cannot Fire Into The DU Contamination Area Located Inside The Following Coordinates: (GA) 15145 92233, 16145 92233, 15145 91233, 16145 91233. (25mm HE/HEIT/TP-T) Targets = 1-24, 32-34, 55, 56 Located Inside The Following Coordinates: (GA) 15800 92389, 16881 93014, 16049 91956, 17131 92581. No Fire Headings Will be Enforced When Weapons Are Oriented Between 270 Deg's and 120 Deg's Grid Azimuth. All Targets Are located Inside The K15 Dud Area.

**TAC Air Notes:** (20mm TP-T, 30mm TP-T) Attack Heading = 355 Deg's Grid Azimuth. Targets = 1-48, 55 and 56 Located Inside The Following Coordinates: (GA) 15063 91964, 16881 93014, 15313 91531, 17131 92581. (20mm HE/HEIT, 30mm HE/HEIT) Attack Heading = 355 Deg's Grid Azimuth. Targets = 1, 3-15, 17-24, 32-34, 55 And 56 Located Inside The Following Coordinates: (GA) 16015 92514, 16881 93014, 16265 92081, 17131 92581. (MK82/83 HE/Inert, BDU (33, 38, 48), MK (106, 117) Inert) Attack Heading = 330 Deg's Grid Azimuth. Targets = 1, 3-15, 17-20, 34, 55 And 56 Located Inside The Following Coordinates: (GA) 16190 92614, 16881 93014, 16439 92181, 17131 92581. (K36 Cannot be Occupied When MK82/83 HE/Inert Are Used). All Targets Are located Inside The K15 Dud Area.



**DEPARTMENT OF THE ARMY**  
INSTALLATION MANAGEMENT COMMAND  
ATLANTIC REGION  
HEADQUARTERS, UNITED STATES GARRISON  
1 KARKER STREET, BUILDING 4, SUITE 4403  
FORT BENNING, GEORGIA 31905

IMSE-BEN-PL

15 March 2013

MEMORANDUM FOR Directorate of Plans, Training, Mobilization, and Security, U.S. Army Garrison, Fort Benning, Georgia, 31905.

SUBJECT: Concord OP Range Division Standard Close Air Support.

1. The intent of this memorandum is to provide units on and off post a standard training scenario on Attack Helicopters, C130'S, and TAC Air (Fast Movers) supporting the Army, Air Force, and Marines for Close Air Support training.

2. Attack Helicopters. (OP from Hartell OP Bunker, GA 1457 9077, Hartell OP Non-Bunker, GA 1455 9065, Concord OP, GA 1554 9029, and K36, GA1719 9015.

a. **Corridor A**, Attack Helicopters (Hartell OP): Start Fire – GA 1439 9083 to 1491 9053 to Cease Fire - GA 1479 9153 to 1531 9123 (In vicinity of Pine Knot Creek). Attack Headings will be 020 degrees for 2.75" FFAR and M2 .50 caliber and 030 degrees for 20mm, 30mm, 7.62mm (See target list for Weapons, Ammunition type, and left and right limits).

b. **Corridor B**, Attack Helicopters (Concord OP): Start Fire – GA 1563 9019 to 1623 9025 to Cease Fire – GA 1554 9119 to 1614 9124 (In vicinity of Pine Knot Creek). Attack Headings will be 355 degrees (See target list for Weapons, ammunition type, and left and right limits).

c. **Corridor C**, Attack Helicopters (K36): Start Fire – GA 1686 9005 to 1744 9020 to Cease Fire GA 1660 9101 to 1718 9117 (In vicinity of Pine Knot Creek). Attack Headings will be 345 degrees (See target list for Weapons, Ammunition type, and left and right limits).

d. Aircraft will conduct a dry pass to identify personnel and targets prior to expending any ordnance. Weapons will not be armed until they are at or beyond their designated attack heading and will remain on electrical/manual safe when not engaging targets.

e. Attack Helicopters will conduct Forward Arming and Refueling Point (FARP) operations on Eelbeck Field.

f. Flight corridor for attack helicopters will be established on Buena Vista road between east of Cactus road and north of Buena Vista road.

g. Forward Ground Controller will de-conflict multiple aircraft attacks.

3. AC130 (K15 Target Area). (OP from Hartell OP Bunker, GA 1457 9077, Hartell OP Non-Bunker, GA 1455 9065, Concord OP, GA 1554 9029, and K36, GA1719 9015.

a. The entry point will be at Cactus checkpoint at grid GA 2030 8400 (LS) and grid GA 2020 8850 (RS).

b. Approach heading will be 310 – 330 degrees towards K15 impact area.

c. The AC130 can conduct continuous firing at targets 1-48, 55, and 56 (40mm and 105mm both WP/Inert) located inside the following coordinates GA 15063 91964, 16881 93014, 15313 91531, 17131 92581. HE/HEIT, etc..., targets will be 1-25, 32-34, 48, 55, and 56, located inside the following coordinates GA 15712 92339, 16881 93014, 15962 91906, and 17131 92581. HE/HEIT, etc..., cannot fire into the DU contaminated area located inside the following coordinates GA 15145 92233, 16145 92233, 15145 91233, and 16145 91233. The 25mm HE/HEIT/TP-T will only engage the following targets, 1-24, 32-34, 55, and 56, located inside the following coordinates GA 15800 92389, 16881 93014, 16049 91956, and 17131 92581. No fire headings will be enforced when weapons are oriented between 270 degrees and 120 degrees grid azimuth.

4. TAC Air (K15 Target Area). (OP from Hartell OP Bunker, GA 1457 9077, Hartell OP Non-Bunker, GA 1455 9065, Concord OP, GA 1554 9029, and K36, GA1719 9015.

a. The entry point will be at Cactus checkpoint at grid GA 2030 8400 (LS) and grid GA 2020 8850 (RS)

b. Approach heading will be 310 – 330 degrees towards K15 impact area.

c. Attack heading will be 355 degrees utilizing 20mm TP-T, and 30mm TP-T at targets 1-48, 55, and 56, located inside the following coordinates GA 15063 91964, 16881 93014, 15313 91531, and 17131 92581. Attack heading will be 355 degrees utilizing 20mm HE/HEIT, and 30mm HE/HEIT at targets 1, 3-15, 17-24, 32-34, 55, and 56, located inside the following coordinates GA 16015 92514, 16881 93014, 16265 92081, and 17131 92581. Attack heading will be 330 degrees utilizing MK82/83, HE/Inert, BDU 33, 38, 48, and MK 106 and 117 Inert, at targets 1, 3-15, 17-20, 34, 55, and 56, located inside the following coordinates GA 16190 92614, 16881 93014, 16439 92181, and 17131 92581.

d. K36 will not be occupied when MK82/83 HE/Inert is being fired.

e. Permissible ordinance: 20mm, 30mm, 2.75 rockets, BDU 48, MK106 inert, MK117 inert, BDU 30, BDU 33 PRACTICE BOMBS, MK 82/HE/Inert, MK 83/HE/Inert, 40mm, 105mm, .50 cal., 25mm, 7.62mm

f. All missions where ordinance is expended on range will be supervised by a Ground Safety Observer (GSO) or a Ground Terminal Attack Control (GTAC) having radio contact with both the aircraft and Range Control. All flights will adhere to range entry procedures outlined in Standard Range Packet.

g. Each aircrew using the Fort Benning range will have a current chart with the restricted area and the MOA clearly annotated. All live ordinance flights will be restricted to the live impact area IAW FB Form 350-19-1-E-R.

h. Employment of small scale training ordinance, full scale inert ordinance and laser designators have restricted attack axis.

i. High angle strafe and live ordinance deliveries are restricted to attack headings, showed on Weapons and Ammo enclosures.

j. Entry and exit into the restricted area (r-3002) will be via the military operations area (MOA) located to the east of R-3002.

k. The Fort Benning Military reservation is divided into many alphanumeric areas. The Kilo area located in the eastern part of R-3002 is used for live artillery fire, tank gunnery, Tactical Air operations; laser “ranging” tow missile firing. The live fire “impact area” for aircraft is located within the Kilo 15 area.

- l. Within the impact area are 56 targets.
- m. Inadvertent Release: Aircrew will immediately notify the GSO/GTAC of the impact location and circumstances. Aircrews will then proceed IAW the cease fire procedures and contact Range Control.
- n. Laser operations will be IAW standard packet.
- o. Emergency Jettison Area: Midway on a line between Pope Pond, GA 1562 9296, and McMath Pond 1675 9370.
- p. Hung Ordinance Procedures: Aircraft will remain over the impact or return to the impact area as soon as the condition is recognized. Aircrews will immediately notify the GSO/GTAC of the situation, terminate training, attempt to correct the condition IAW the standard packet and notify Range Control.
- q. Aircraft with a runaway gun will maintain level flight straight ahead (360 degree heading) until the condition is corrected or the ammunition is expended.

5. Communications: Positive FM Communications will be maintained at all times between OIC/RSO, ground controllers, and aircraft. If communications are lost, the range will go into a cease fire status (cold) until positive communications are reestablished with all assets.

6. Emergency cease fire signal: Primary emergency cease fire signal will be FM radio; alternate signal will be two red star clusters. Emergency cease fire signals will be briefed to all personnel prior to training. All participants are safety officers; anyone may call for a cease fire when and unsafe act is being observed.

7. Road Guards, Roadblocks, and Barriers (See FB Form 350-19-1-E-R and Weapons and Ammo list, page one).

8. DMPRC: Coordination with the DMPRC will be made to ensure no personnel will travel east of Underwood road on the DMPRC during the course of the exercise.

9. When an incident occurs on the range, regardless of injury or not, the OIC/RSO will immediately report to Range Control and Unit Headquarters.

10. Safety:

a) LASER's: Laser, ground or airborne, must have vertical backdrop and away from reflective surface.

b) Communications: Unit will maintain continuous contact with Range Control at all times. If communications are lost the unit will go into a self induced check fire until communications are restored.

c) Incident: When an incident occurs on the range, regardless of injury or not, the OIC/RSO will immediately call a cease fire and report it to Range Control and the using unit's higher headquarters. OIC/RSO will take action as directed by Range Control. The cease fire will remain in effect until the problem is resolved and cleared through Range Control. If the incident results in an injury, the OIC/RSO will use the procedures outlined in the medical paragraph. The following information will be furnished by the OIC/RSO to Range Control:

- a. Designation of unit.

- b. Range and location
- c. Type of weapon involved.
- d. Type of ammunition involved.
- e. Brief summary of what happened.
- f. Personnel injuries and extent.
- g. Full Name, SS#, Rank and unit of injured personnel.
- h. Extent of property damage.
- i. Intentions regarding an AR 15-6 investigation.

d. Medical: In the event of an accident, injury or illness, the OIC/RSO will immediately call a cease fire then call 911 using the standard 9 Line MEDEVAC to determine what type of evacuation is the most appropriate for the injury (loss of life, limb or eyesight). MEDEVAC will be IAW MCoE Regulation 350-19 and USAIC 40-2. Landing zone for MEDEVAC aircraft will be established prior to use and will be marked appropriately. Range Control will be notified in this event. The cease fire will remain in effect until cleared through Range Control.

e. Weapons/Ammunition Malfunction Reports: When a malfunction is experienced, the OIC/RSO will suspend all firing and immediately notify Range Control. The weapons and all components and ammunition involved will remain in place. The cease fire will remain in effect until cleared through Range Control. An investigation is required and will be conducted by the ammunition and weapons inspection personnel and DOL.

f. Prior coordination with live fire ranges adjacent to the K15 area will be accomplished with Range Control prior to any air missions.

g. Units are required to have a RMWS approved through Post Safety and on file at the Range Operations Survey Section.

11. POC for this memorandum is Benjamin Bolding at 706-544-6342.



Brad Tesch  
GS12  
Chief, Range Operations

Snelling Pond

K15 Targets #50- #54.

K15

McMath Pond

Pope Pond

K15 Targets #1-#49, #55, #56.



DU Contamination Area

Pine Knot Creek

Shamanski Rd

DMPRC

Pine Knot Creek

Hartell OP

Concord OP

Buena Vista Rd

K36

Box Springs Rd

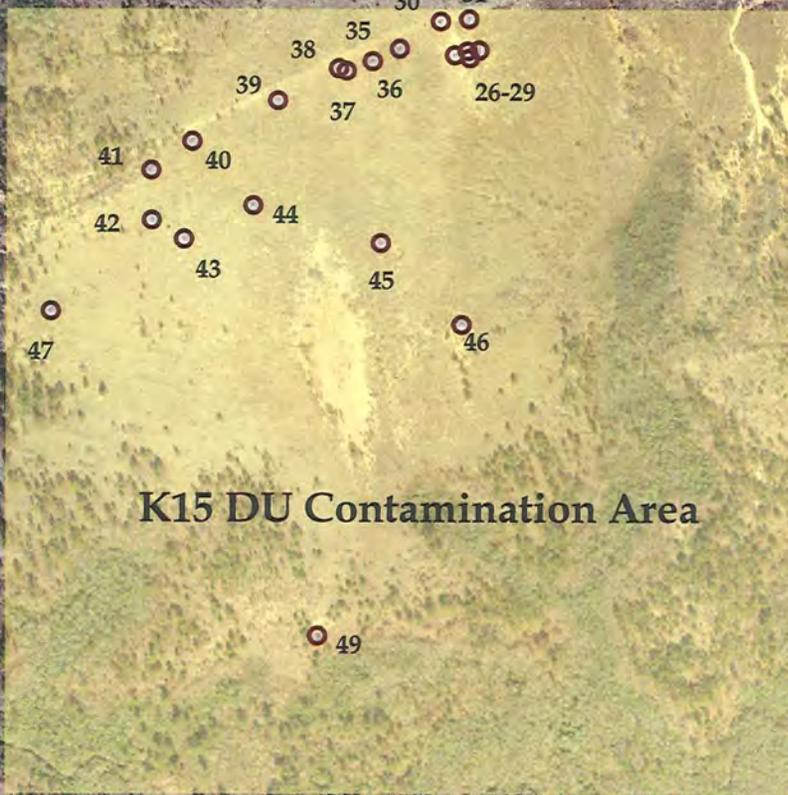
Whitson Rd

Cactus Rd

Cactus

**K15 Targets #1-#49, #55, #56.**

Pope Pond



**K15 DU Contamination Area**

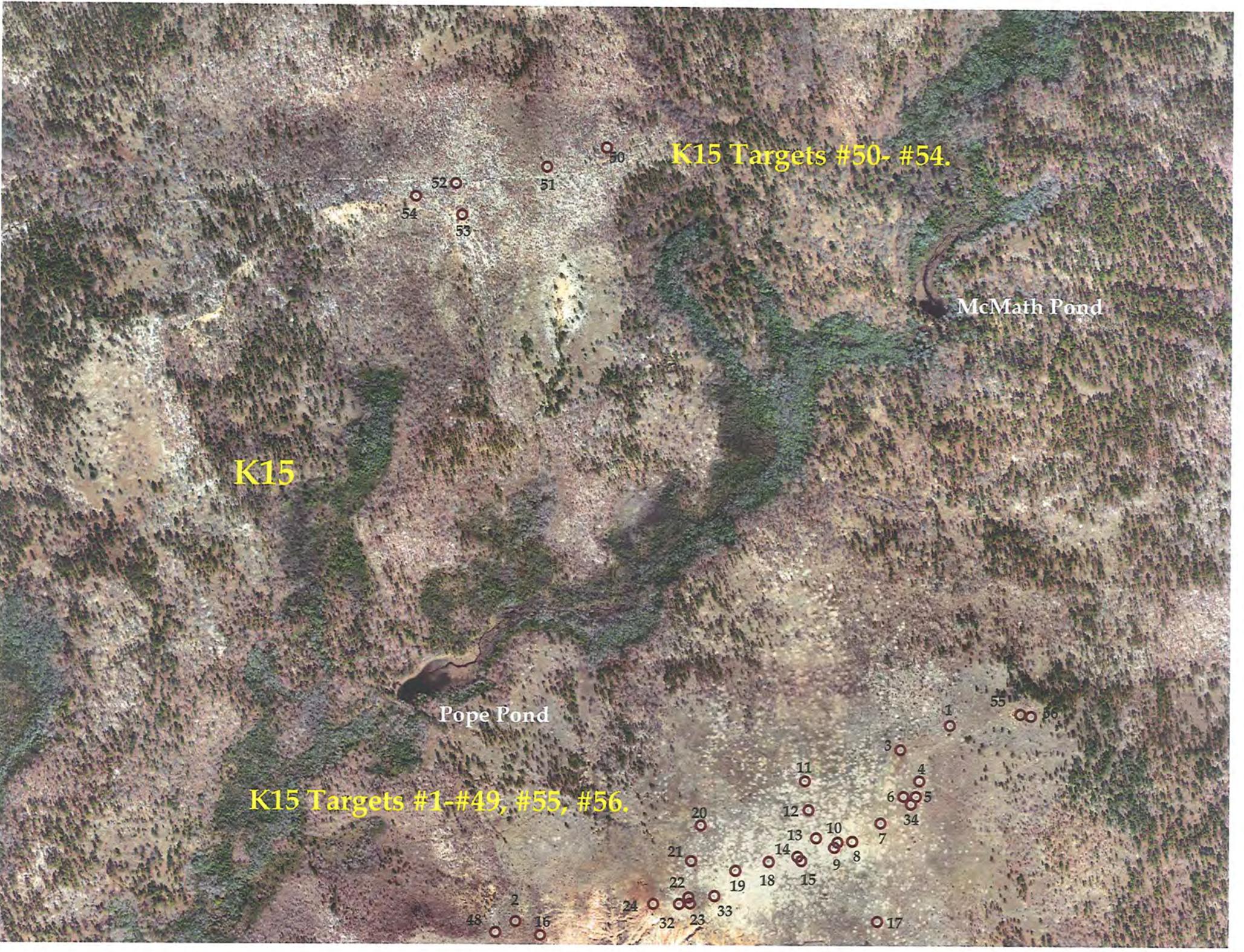
K15 Targets #50- #54.

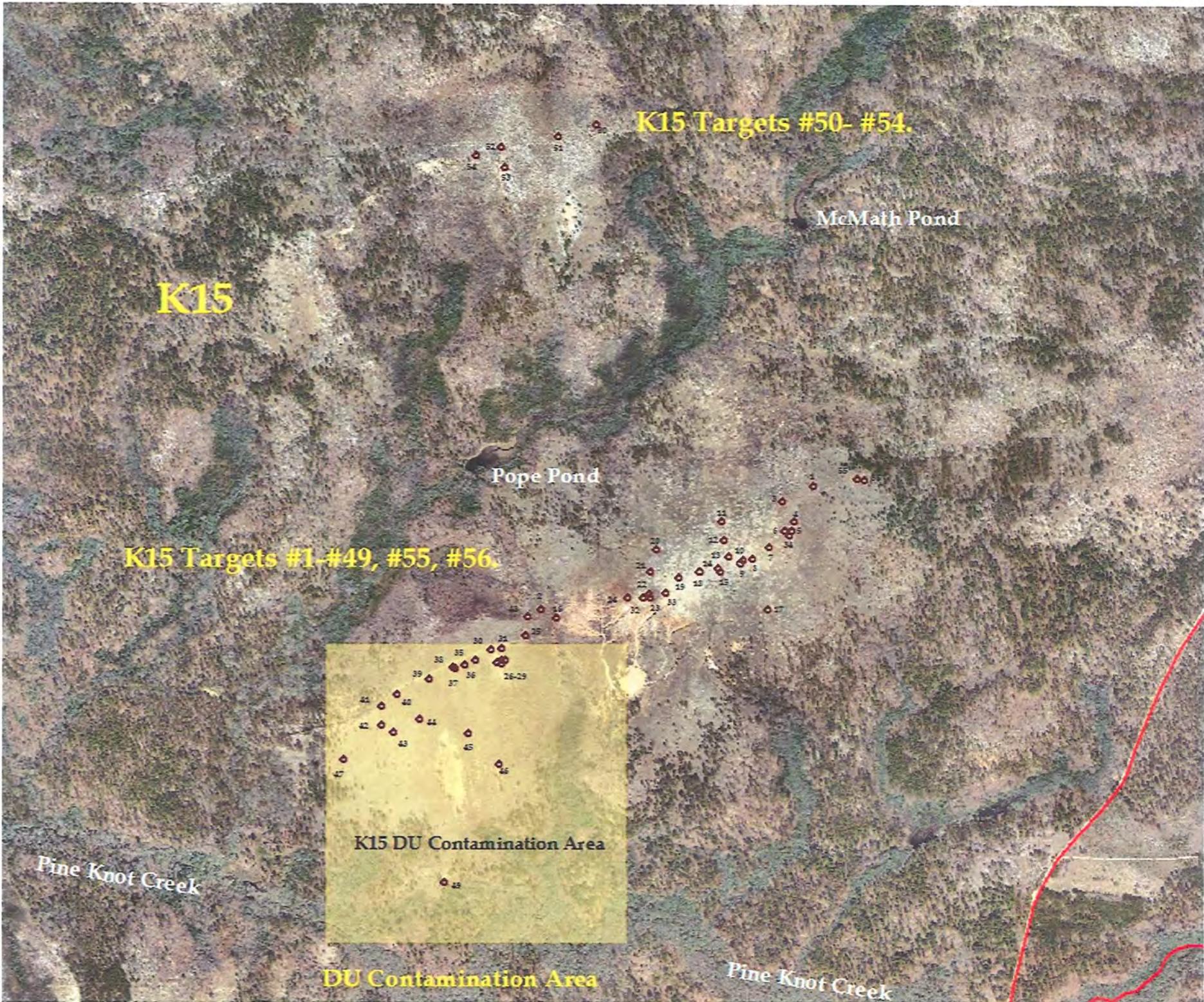
McMath Pond

K15

Pope Pond

K15 Targets #1-#49, #55, #56.





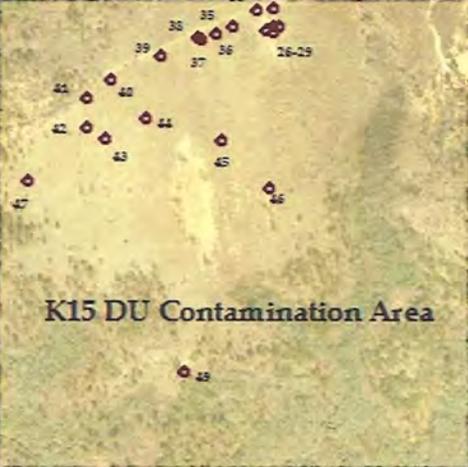
K15 Targets #50- #54.

McMath Pond

K15

Pope Pond

K15 Targets #1-#49, #55, #56.



K15 DU Contamination Area

Pine Knot Creek

DU Contamination Area

Pine Knot Creek

### K15 TARGETS Aug 1, 09

TARGET #	COORDINATES (GA)	TARGET #	COORDINATES (GA)
1	16772 92766	29	15715 92173
2	15862 92350	30	15697 92216
3	16668 92714	31	15733 92219
4	16708 92648	32	16205 92388
5	16701 92615	33	16279 92405
6	16675 92615	34	16691 92599
7	16627 92559	35	15645 92181
8	16568 92520	36	15611 92165
9	16530 92507	37	15578 92153
10	16537 92518	38	15568 92156
11	16468 92647	39	15491 92115
12	16476 92586	40	15382 92063
13	16492 92527	41	15330 92026
14	16453 92488	42	15331 91962
15	16461 92479	43	15372 91938
16	15914 92321	44	15460 91981
17	16621 92352	45	15622 91933
18	16393 92477	46	15725 91829
19	16323 92458	47	15203 91846
20	16250 92553	48	15820 92327
21	16230 92478	49	15543 91433
22	16225 92402	50	16045 93982
23	16228 92389	51	15920 93941
24	16151 92388	52	15729 93905
25	15812 92261	53	15742 93839
26	15746 92179	54	15645 93878
27	15734 92169	55	16920 92790
28	15731 92178	56	16942 92786



# RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



**Date Submitted:** 1/9/2013

**EMD Number:** 1300903

**Project#:** Unknown

**Project Title:** Mounted and dismounted movement and maneuver of personnel and vehicles, North; Red Arrow incorporating of Air Ground Integration(AGI).

**Description of proposed action:**

Blackjack(North) Mounted and dismounted movement and maneuver of personnel and vehicles cross country to gather information on terrain and built up urban areas. Occupy OPs Hartell and Concord in K36/K37 while identifying targets in K15. Attack helicopters will engage targets called by the observing OPs.

**Project Location:**

K36, K37, Morgan Heliport, Anzio II Heliport, observation bunker Hartell, and Concord.

**Amount, Description, Location of Disturbance/Digging:**

None

**Number of Personnel:**

130

**Type of Ammunition:**

5.56 mm, 7.62 mm, .50 Cal, 2.75 rockets, Live & Blank

**Number/Types of Trees:**

None

**Size of Project Area:**

**Duration of Action:** Start: 1/17/2013 Stop: 9/30/2013

**Proponent:** HenryNEdwards 706-626-8038

**Organization/Unit:** N TRP 3-16th CAV, SQDN

**Number/Types of Vehicles:**

Number of vehicles:32  
Types of vehicles:M1025, M1127, LMTV, AH-1, UH-1, AH-64, OH-58D  
Yes-Vehicles will be going off road.  
What type of vehicles will be going off road:M1025, M1127, LMTV

\*\*\*\*\*  
**DECISION:** Concur with conditions

This Action is adequately covered in the Existing EA titled: 'Ongoing Mission and siting Activities, USAIC, Ft. Benning, GA.'

(NA): Training involving LIVE FIRE and tracked vehicles has NO CATEX -- "Ongoing Mission and Siting Activities, USAIC, Ft. Benning, GA."  
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## REC APPROVED THROUGH 30 SEPTEMBER, 2013

**Cultural Resources - Archeological** Conditions: Edward Howard (706 545 1898), 1/10/2013

See attached JPEG maps for reference. The project area contains federally protected sensitive sites. These sites may or may not be marked with Siebert stakes placed 20 - 30 meters apart which contain labels warning against ground disturbance. Training may be conducted in these sites so long as it does not disturb the ground (digging, off-road vehicle traffic, etc.) The project OIC is responsible to insure the sites are not disturbed, regardless of whether or not they are marked. They are identified in RED in the attached maps. Additionally, if endangered plants, historic artifacts or Native American artifacts (arrowheads, etc) are encountered here (as in anywhere on the Installation) their removal constitutes theft as well as possible violation of other federal laws. This could result in criminal prosecution. Contact CRM with any questions or concerns. Re-submittal is required if submitted project is modified in any way.

**Natural Resources - RCW** Conditions: Michael Barron (706 544 7080), 1/10/2013

See attached conditions as discussed in email with Mr. Edwards. Vehicles will only use established roads to access the 2 OPs requested. No off-road vehicle use in K36-37.

EMD Number: 1300903

IJO# Unknown

Project Title:

Mounted and dismounted movement and maneuver of personnel and vehicles, North; Red Arrow Incorporating of Air Ground Integration (AGI).

**Noise**

**Conditions:**

Ellis Leeder (706 545 2400), 1/15/2013

This is training operations that must be conducted. If there is any noise complaints received, the Environmental Management Division Installation Operational Noise Monitoring Program (IONMP) and or Public Affairs Office (PAO) programs will investigate and then recommending operational noise mitigation actions to the appropriate personnel for the training actions. In accordance with the Army's policy on environmental noise management, all efforts shall be made to minimize noise annoyances to the highest extent practicable with training operations without interfering with the proposed missions. Please follow the fly friendly program avoiding no fly zones. Please follow good smoke management practices not allowing smoke or dust to travel off Installation boundary into public areas or roads. Please increase distance between vehicles when dust conditions are extreme, see Table 5-3. CS gas use should be utilized in designated areas only, contact Range Control for a listing of approved sites. If any assistance or a copy of MCoE Regulation 350-19 or the IONMP noise plan is needed for review, please feel free to contact Ellis Leeder at 706.545.2400 or email ellis.p.leeder.civ@mail.mil or visit the Range Control Website for the updated version of MCoE Regulation 350-19

**Hazardous Materials/Waste**

**Conditions:**

Ted Williams (706 545 7579), 1/11/2013

Appropriate precautions must be taken to prevent hazardous material spills. Have adequate quantities of spill response supplies on hand. If a spill occurs use notification procedures as outlined in the Fort Benning Hazardous Waste Management Plan. Contain and clean up spill according to guidance provided by the Environmental Protection Management Branch. Any waste generated must undergo a waste stream analysis to determine appropriate management requirements. If any hazardous waste is generated it must be managed in accordance with Federal, State, Army and Fort Benning regulations.

Defective, misfired, or otherwise unserviceable munitions must be managed IAW/MCOE Reg. 350-19 -5-10, Para 9-2 (Proper management of Misfired munitions). All excess, munitions must be returned to the Ammunition Supply Point after the field exercise is completed. A dud shall not be removed from the range; it will be marked, called into range control and will be properly disposed of by EOD personnel IAW/MCOE Reg. 350-19 -5-8, Jul 2010.

Rubbish, empty containers and other waste (including used smoke canisters) should be removed from the training area after the exercise. Contact EPMB for detailed information on the proper disposal of waste products resulting from the exercise.

**CWA - Training**

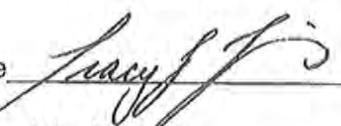
**Conditions:**

Leah Ropski (706 626 0492), 1/9/2013

Environmental Review: Caution within training areas and motor pools should be taken to protect all nearby waterways (including perennial, intermittent streams and wetlands); as well as ground surfaces and any other sensitive areas in the vicinity of the training areas. Potential spills/releases from this activity that may occur before and/or during the FTX include: 1. Discharge and/or improperly disposal of oil or hazardous substances into or upon land, water, or into ground water areas from storage, handling and/or transportation of hazardous materials/waste; 2. Vehicle/equipment/generators leaks; 3. Fuel loading/unloading/refueling operations; 4. Field mess facilities/equipment/operations, and/or 5. Ammunitions /explosives (as applicable, before and/or during the FTX).

General SPCC Requirements: Ensure all hazardous materials are properly storage to prevent spill/discharges, to meet safety requirements for storage, and that containers are not exposed to the weather. Have adequate spill response supplies available during exercise for any spills that may likely occur. Use drip pans under vehicles and provide secondary containment for any fueling activities and hazardous material/waste storage. Locate all refueling operations and storage of hazardous materials/waste away from waterways and sensitive areas. See attached section on prevention procedures and CHECKlist (Example Unit/Activity SOP for Training and Deployment) to be used during training exercise to comply with SPCC plan requirements. Ensure all wastewater from field mess equipment/operations particularly those involving oil/grease are collected and dispose properly. Do not discharge any wastewater into storm drains or dispose of oil/grease waste directly into land.

General ISCP Requirements: In the event of a spill/discharge -- notify Range Control by radio or call 544-6291, and they will notify E-911 for Fire Department/HAZMAT Team assistance and/or notification of the EMD office (Spill Beeper 706-317-6584). As appropriate, and if personnel are trained -- REACT to minimize spill damages. Submit a spill report to the EPMB Spill Program Manager (use Spill Response Report attached). All spills reaching navigable water must be reported immediately. The unit is responsible for the final cleanup of any spill during this exercise. Coordination with this office is required for clearance of the site. SPECIAL NOTE: See attached Unit/Activity SOP for Training and Deployment and Refueling documents with recommendations during training exercise. For refueling, maintenance and/or hazardous material/waste storage areas - recommended a distance of approximately 100 (30 meters) from any water ways.

Signature   
for John E Brown  
NEPA Program Manager

Date 16 JAN 2013

Signature   
for/Christopher E. Hamilton, PhD  
EPMB Chief

Date 16 Jan 2013

From: Edwards, Henry N CIV (US)  
Sent: Thursday, January 10, 2013 11:30 AM  
To: Barron, Michael G CIV (US)  
Cc: Linander, Joice K CTR (US)  
Subject:FW: Please Review the NEPA Package Unknown (UNCLASSIFIED)  
Signed By: henry.n.edwards@us.army.mil  
Classification: UNCLASSIFIED  
Caveats: NONE

Michael,

The unit will only use the road to get to Hartell and Concord to call for strikes.  
Thanks,

Henry

-----Original Message-----

From: Barron, Michael G CIV (US)  
Sent: Wednesday, January 09, 2013 4:22 PM  
To: Linander, Joice K CTR (US)  
Cc: Edwards, Henry N CIV (US)  
Subject: RE: Please Review the NEPA Package Unknown (UNCLASSIFIED)  
Classification: UNCLASSIFIED  
Caveats: NONE

Mr. Edwards,

We require some clarification for this request. Your request seems to indicate that you want to expand your off-road/cross country maneuvers into the K36 and K37 Training Areas. This would be beyond the scope of what we have approved with US Fish and Wildlife Service and would not be acceptable at this time and would require re-initiation with the Service. If, however, your request is just to use the existing roads to drive up to Hartell/Concord in order to call the strikes into K15, then we would not have any issues.

Please provide further clarification as to what you want to do in these areas.

Thanks,

Michael

Michael G. Barron  
Wildlife Biologist  
IMBE-PWE-C  
10198 First Division Road  
Building 5888  
Fort Benning, GA 31905  
W: 706-544-7080  
F: 706-544-6570  
email: michael.g.barron.civ@mail.mil

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-----Original Message-----

From: [joyce.k.linander.ctr@us.army.mil](mailto:joyce.k.linander.ctr@us.army.mil)  
[mailto:[joyce.k.linander.ctr@us.army.mil](mailto:joyce.k.linander.ctr@us.army.mil)]  
Sent: Wednesday, January 09, 2013 11:06 AM  
To: Barron, Michael G CIV (US)  
Subject: Please Review the NEPA Package Unknown

Michael Barron,

You have been assigned a new NEPA package to review for Natural Resources - RCW. The following package must be reviewed by 1/16/2013:

IJO: Unknown  
EMD Number: 1300903  
Description: Blackjack(North) Mounted and dismountd movement and maneuver of personnel and vehicles cross country to gather information on terrain and built up urban areas. Occupy OPs Hartsell and Concord in K36/K37 while identifying targets in K15. Attack helicopters will engage targets called by the observing OPs.

Please visit <https://applications/NEPA/> to review the NEPA package or to see all NEPA packages which you have been assigned to review.

This email message was automatically generated by the Environmental Division NEPA Portal. Please contact [joice.k.linander.ctr@us.army.mil](mailto:joice.k.linander.ctr@us.army.mil) for more details.

Please do not reply to this address.

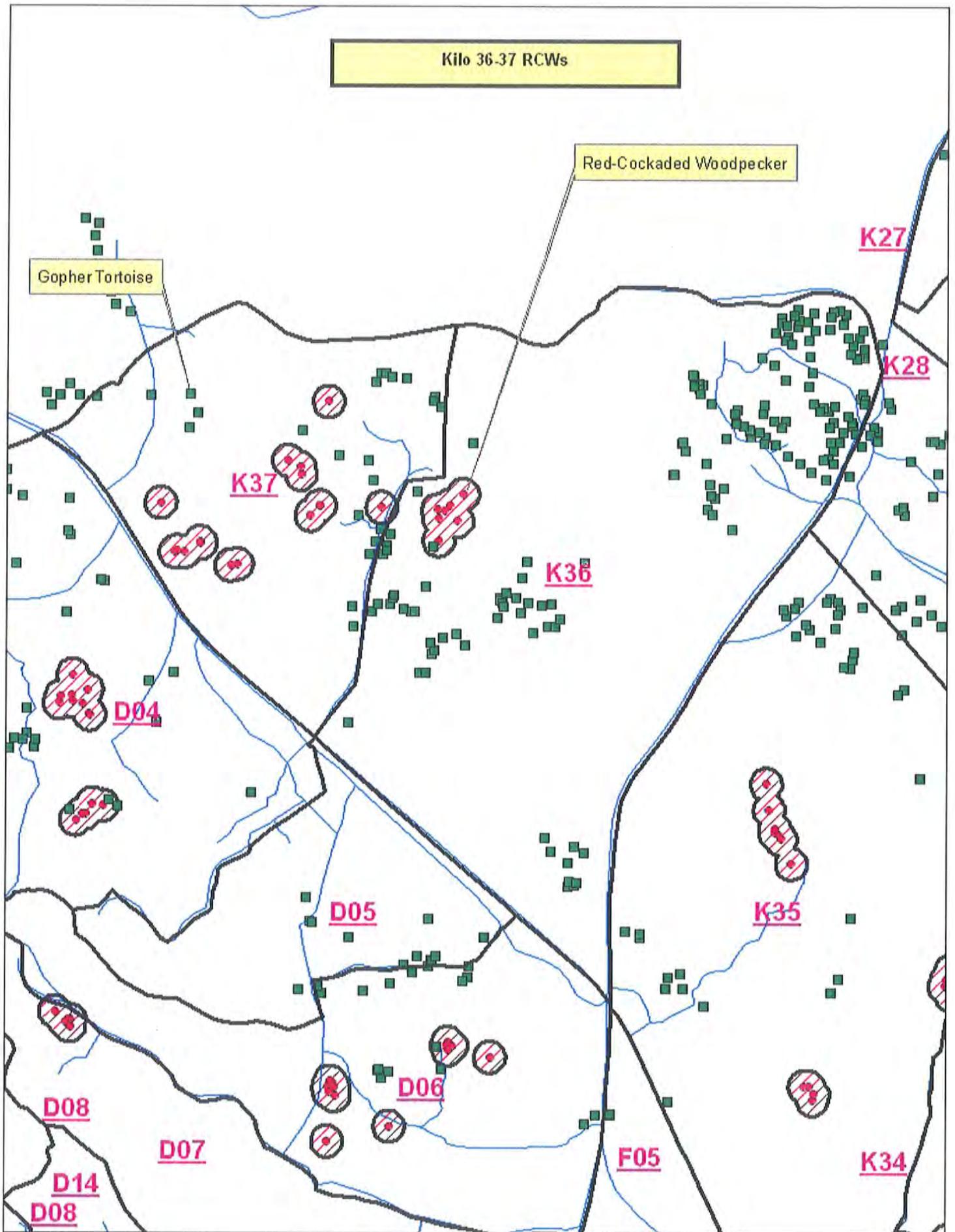
Classification: UNCLASSIFIED

Caveats: NONE

Kilo 36-37 RCWs

Red-Cockaded Woodpecker

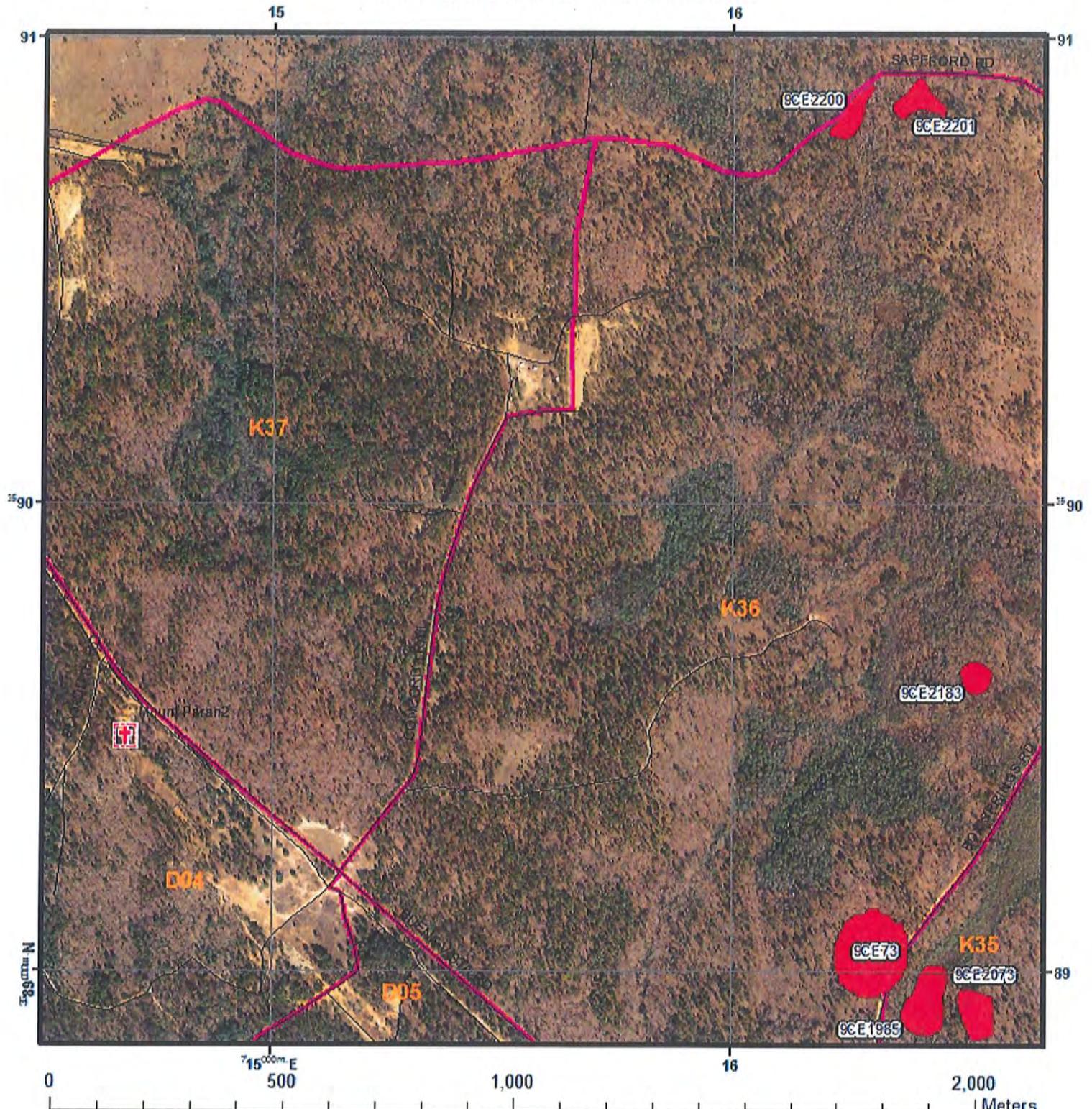
Gopher Tortoise



For Official Use Only, Not for Public Release  
**Ground Disturbing Activities in Sensitive Areas  
 are Subject to Criminal and/or Civil Penalties**

NAD 83  
 Grid in Meters

K36, 37



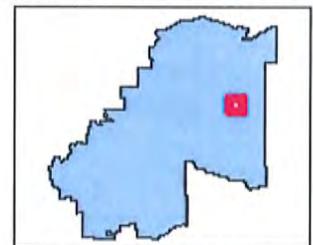
**Historic Districts**

- Name**
-  Lawson Army Airfield
  -  Main Post
  -  Parachute Jump Tower

**Historic\_buildings STATUS**

-  Historic
-  Not Evaluated
-  Not Eligible
-  Not Historic
-  Demolished
-  Prgm Cmt
-  Prgm Cmt/FRL

-  No Vehicles
-  or
-  ground disturbance



DPWEPMB  
 Cultural Resources

## Example Unit/Activity SOP for Training and Deployment

### Introduction

This SOP is divided into two main sections: PREVENTION & RESPONSE. The following sections will assist you in planning your environmental activities while bedding down, initiating, sustaining and conducting field exercises, and/or during deployment. Before you deploy, ensure you are familiar with the following:

### What Are Hazardous Materials and Hazardous Wastes

Hazardous Materials are defined as any material that may be a health or physical hazard, or any material that, based on either chemical or physical characteristics, is capable of posing a risk to human health or the environment if improperly disposed of, handled, stored, or transported. Chemical and physical characteristics that may pose a risk to human health or the environment include, but not limited to, one of the following characteristics: Ignitable; Corrosive; Reactive and/or Toxic.

Hazardous Waste: is defined as any discarded material (solid, liquid or gas) that:

1. Has no further value and cannot be reused or recycled;
2. Is harmful to human health or the environment due to its quantity, concentration, biological, chemical or physical characteristics; and/or
3. Exhibits one or more of the characteristics as described for Hazardous Material.

Contaminated or unusable fuel is a typical hazardous material/hazardous waste common to training and deployment operations and should be handled, stored, and disposed of properly.

**Ten of the most common hazardous materials/hazardous wastes** that you will encounter during training and or deployment operations include:

- Fuel
- Engine Oil
- Bleach or DS-2
- Solvent
- Anti-Freeze
- Transmission Fluid
- Used Oil Filters or Batteries
- Empty POL Containers
- Brake Fluid
- Grease.

These materials should be handled, stored and disposed of properly.

**SPILL KITS:** Spill kits should be maintained in and around all locations where hazardous materials/hazardous wastes are stored, handled, or disposed. Various types of kits may be ordered through the U.S. Army Supply System and include: rubber gloves, safety goggles, putty, rubber mallet, wooden plugs, absorbent booms, absorbent pads, plastic bags, and in some cases, a disposal barrel.

**SPILL PREPARATION:** Despite the best prevention, you may run into difficulties and an accident may occur when you least expect it. To minimize contamination, hazards to people, and environmental damage, you must REACT immediately. To help you prepare, this SOP will tell you:

- **HOW to PLAN** and be ready to respond to a problem;
- **HOW to REACT** to a minor, intermediate or major spill; and
- **WHAT** to do after a spill occurs.

## Planning

### MINOR SPILLS

- When on the move, keep some plastic bags in your vehicle, and have your assigned On-Vehicle Equipment (OVE) ready for use.
- Maintain supplies, rags, absorbent pads, or other kinds of materials that will soak up spills on hard surfaces (like Dry Sweep), or know where you can easily obtain them.
- Keep Personal Protective Equipment (PPE) accessible (gloves, goggles, etc.).

### INTERMEDIATE & MAJOR SPILLS

In addition to the procedures above:

- Know where to go for help.
- Know where spill kits are kept and learn how to use them.

## Prevention

Vehicle Maintenance and Fueling Points, Hazardous Waste Collection Points and hazardous material Storage & Supply Areas may not be set up at your deployment destination. So PLAN to build your areas to prevent hazardous material accidents before they occur. Remember the following:

HAZARDOUS MATERIAL/HAZARDOUS WASTE AREA LOCATION - Locate hazardous material/hazardous waste areas away from living areas, bunkers, ammunition storage, fence lines and/or dining facilities. Place them near the areas where hazardous material are used.

MATERIAL SAFETY DATA SHEET (MSDS) - Keep MSDSs for each hazardous material stored or collected at hazardous material/hazardous waste areas.

UNIT/ACTIVITY ENVIRONMENTAL SOP & SPILL RESPONSE PLAN - Place SOP and Spill Response Plan at each hazardous material/hazardous waste area.

COMPATIBILITY OF MATERIALS - Store and/or dispose of each class of hazardous material/hazardous waste separately. MSDSs describe the classification of HMs. Four common classification include the following: Flammable (fuels), Corrosives (acids), Reactive (explosives), and Toxic (insecticides).

BEFORE you deploy, plan to pack drip pans, rags, plastic, Dry Sweep, absorbent, and spill pallets to prevent drips, spills, and leaks from seeping into the ground and contaminating soil and water resources.

SECONDARY CONTAINMENT - All liquid hazardous material/hazardous waste must have secondary containment. In order for it to be effective it must:

1. Hold 10% of the total hazardous material/hazardous waste stored or 100% of the largest container.
2. Have sand and/or pallets placed in certain areas to protect the liner.
3. Have overhead cover.

You should continually keep your hazardous material/hazardous waste areas clean and orderly by applying the principals of Monitoring and Housekeeping. An easy way to remember what to check, is

to remember your **CHECK** list:

### **Containment:**

\_\_\_ Ensure that secondary containment is used and in good condition.

\_\_\_ Empty water within secondary containment on a regular basis and dispose of it as hazardous waste at the Hazardous Waste Collection Point.

### **Hazardous Material/Hazardous Waste locations:**

\_\_\_ Make sure the locations of your hazardous material/**hazardous waste** are well chosen.

\_\_\_ Put up warning signs and keep them clean and orderly.

### **Environmental Documentation:**

\_\_\_ **Maintain MSDSs for each hazardous material and update Unit/Activity SOPs and Spill Response Plans regularly.**

### **Containers:**

\_\_\_ Check condition of containers and keep containers of incompatible materials in proper order.

### **Kits:**

\_\_\_ Place Spill Kits, First Aid Kits, and Emergency Response Kits in the vicinity of the hazardous material/hazardous waste areas.

See Appendix D of the ASP for specific CHECKlists for areas such as: Vehicle Fueling & Maintenance Areas; Hazardous Waste Collection Points; and Hazardous Material Supply & Storage Areas.

## **Response**

Be prepared to respond immediately to any spill situation. Keep your Environmental SOP and Spill Response Plan (SRP) readily available at the main hazardous material/hazardous waste areas. The SRP should ensure that the following measures are implemented:

- PERSONAL PROTECTIVE EQUIPMENT (PPE) - At the entrance of every hazardous material/hazardous waste area, keep a supply of PPE to protect hands, eyes, skin, ears, head, feet, and lungs. If you are unsure about which items you need, consult the MSDS for the HMs that you are using.
- MSDS - Make sure that MSDSs are available in order to REACT to spills safely and effectively.
- SPILL STATIONS - Maintain spill response equipment at a station near (not inside of) hazardous material/hazardous waste areas. They should contain: First Aid Kits, Fire Extinguishers, Spill Response Kits, and Emergency PPE.
- TRAINING - Improve your readiness by practicing the SPILL DRILL on a regular basis, and be sure to know the spill reporting process.

Respond to spills, major or minor, immediately in order to eliminate hazards that could cause personal injury and/or environmental damage. If assistance is required, or spill/release is major, immediately call 911 or the Fort Benning Military Police (MP) Desk.

In any spill situation:

1. Safety First! -- Protect yourself by using PPE, including goggles, gloves, and suits. THEN...
2. Do the SPILL DRILL -- REACT:

**REMOVE THE SOURCE:** Plug the drip or leak and stop the spill.

**ENVELOP THE SPILL:** Place absorbent booms around the spill area, or build an earthen dam, when appropriate, around the spill.

**ABSORB/ACCUMULATE:** Place appropriate absorbent material (Dry Sweep, pads, etc.) on the spill in the middle of the boomed-off area.

**CONTAINERIZE THE HAZARDOUS WASTE:** Use a shovel to place contaminated materials (including soil, booms, pads or other materials) in a plastic bag or a waste drum.

**TRANSMIT A REPORT:** If a spill is too large to handle alone, - REACT as best you can and get help!

See Appendix D of the ASP for specific REACT actions for spills involving:

- **Minor Spills** (20 gallons or less);
- **Intermediate Spills** (from 21-55 gallons); and
- **Major Spills** (more than 55 gallons), or any spill into water, where injuries occurred or where spills occurred off Fort Benning associated property.

In addition:

- Prevent hazardous material from entering storm sewers and waterways;
- Minimize impacts to vegetation and wildlife; and
- Notify proper personnel and maintain record of spill event.

**Acronyms are defined in the ASP Table of Content**

APPENDIX H

# Spill Kits and Response Material Checklists

---

**Summary Spill Kit and Response Material Checklist**

**Recommended Spill Kits for Unit/Activity Motor Pools, Aircraft Hanger Areas, and all POL Field Sites**

**Recommended Spill Kits for Fuel Carrying Vehicles**

**Recommended Spill Kits for Other Military Vehicles**

**Vehicles Transporting Hazardous Materials other than POL**

## Summary Spill Kit and Response Material Checklist

Spill Kits and Response Material	Primary Contents
<p>Spill kits should be maintained in and around all locations where hazardous material and hazardous waste are stored, handled, or disposed.</p> <p>The contents of a spill kit will vary depending on the hazardous materials and their characteristics.</p> <p>Hazardous materials other than POL will require spill kits to meet their specific requirements, (i.e., acid spill kit for Battery Shop that handles lead acid batteries).</p>	<p><b>Spill kits</b> should include as a minimum:</p> <ul style="list-style-type: none"> <li>✓ Rubber gloves,</li> <li>✓ Safety goggles,</li> <li>✓ Putty, rubber mallet,</li> <li>✓ Wooden plugs,</li> <li>✓ Absorbent booms,</li> <li>✓ Absorbent pads,</li> <li>✓ Plastic bags, and</li> <li>✓ In some cases, a disposal barrel.</li> </ul>
<p>The Unit/Activity must check the material's MSDS for specific information on PPE and spill supplies.</p>	<p>Units/activities <b>transporting hazardous materials</b> should also plan for having a minimum amount of response materials on hand.</p> <ul style="list-style-type: none"> <li>✓ Various types of kits can be ordered through the U.S Army Supply System (through the Units supply or S-4 shop);</li> <li>✓ The Unit/Activity must assess their hazardous material inventory and plan to have enough spill response material to respond to the larger container within their facility and the minimum for any specific hazardous material that require specific spill materials or PPE; and</li> <li>✓ Whenever the Unit gets to this minimum level, the user should initiate a reorder to the supply NCO or S-4 to maintain the minimum amount on-hand.</li> </ul>

**Acronyms are defined in the ASP Table of Contents**

## **Recommended Spill Kits for Unit/Activity Motor Pools, Aircraft Hanger Areas, and all POL Field Sites**

30-Gallon POL Boom Kit: Absorbs Approx. 40 Gallons  
Polyurethane 2 Rolls  
55-Gallon POL Kit: Absorbs Approx. 40 Gallons  
1 55 Gallon Drum  
2 Bags Absorbent  
6 Booms 2x10  
50 Absorbent Pads  
10 Heavy Duty Trash Bags

### **Recommended Spill Kits for Fuel Carrying Vehicles**

It's recommended that all fuel carrying vehicles should have a transportation pack spill kit or equivalent spill equipment on board at all times. The following vehicles are considered to be fuel transporting vehicles: HEMITT M971 2500 gallons, Tanker 5000 gallon, M49C 1200 gallon, Tank and Pump unit 600 gallon.

The following is a list of the minimum level of spill equipment recommended to be on hand in all fuel carrying vehicles, especially if they are traveling within the Installation or in a field exercise.

#### Drip Pan

30-Gallon POL Kit: Absorbs Approx. 20 Gallons  
1 30 Gallon Drum  
1 16 pound bag Absorbent  
3 Booms 2x10  
25 Absorbent Pads ~17x19  
5 Heavy Duty Trash Bags  
1 Dust Pan

### **Recommended Spill Kits for Other Military Vehicles**

Recommended on Vehicle Equipment (OVE) for small spills (usually from vehicle leaks):

1 drip pan  
4-5 absorbent pads  
1-2 plastic bags.

#### **Additional Materials or Equipment**

For each one of these recommended spill kits, the following should be available:

PPE such as: Goggles and Gloves. (2-3 pairs)  
1 Shovel  
2 Labels for wastes  
1 Spill report  
1 Inventory

### **Vehicles Transporting Hazardous Materials other than POL**

- ✓ Transportation of hazardous materials is regulated under the Department of Transportation. Personnel transporting hazardous materials must follow all DOT requirements.
- ✓ As a preventive measurement, vehicles transporting small amounts of hazardous materials or waste should have a transportation pack spill kit or equivalent spill equipment on board to REACT in the event of an incident.

- ✓ Hazardous Materials other than POL will require spill kits to meet their specific requirements. The Unit/ Activity should check the MSDS for the materials that they transport and have appropriate amount for those particular materials.

## Spill Response Record

### PHASE I-IMMEDIATE ACTIONS FOR EVALUATING AND REPORTING SPILLS:

**IMMEDIATELY REPORT ALL SPILLS TO YOUR SUPERVISOR AND/OR CALL 911 or the Fort Benning Military Police (MP) Desk**

**\*\*BE PREPARED TO PROVIDE THE FOLLOWING INFORMATION TO THE 911 OPERATOR:**

**During Duty Hours also Call Mr. Felix Seda, EMD Spill Manager at (706) 545-9879**

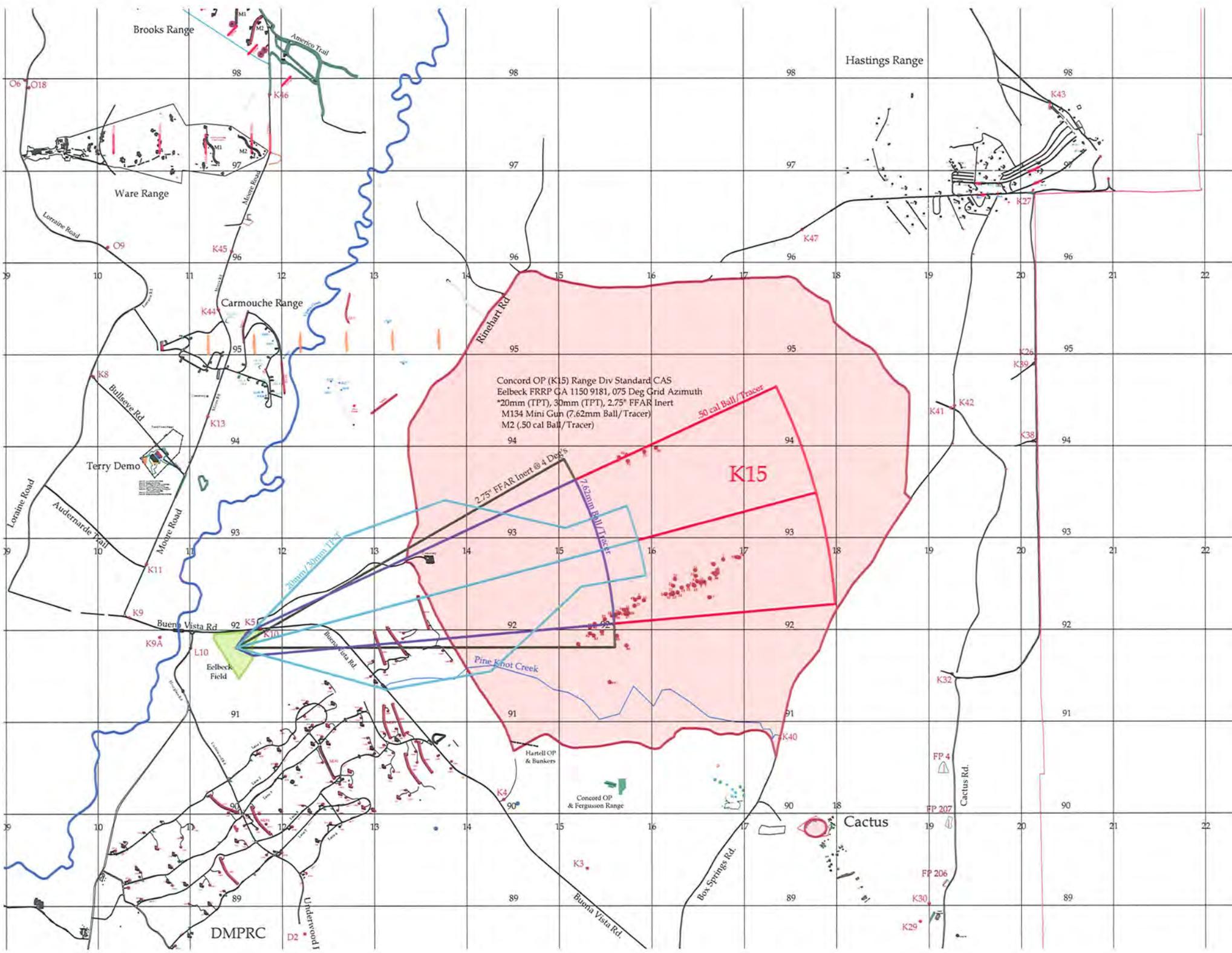
1. DATE/TIME OF SPILL: \_\_\_\_\_ / \_\_\_\_\_
2. LOCATION: \_\_\_\_\_
3. MATERIAL SPILLED (include NSN and ingredients, if able): \_\_\_\_\_  
\_\_\_\_\_
4. HAZARD: FLAMMABLE \_\_\_\_\_ TOXIC \_\_\_\_\_ CORROSIVE \_\_\_\_\_  
OXIDIZER \_\_\_\_\_ REACTIVE \_\_\_\_\_ UNKNOWN \_\_\_\_\_  
OTHER (Specify) \_\_\_\_\_
5. CAUSE OF SPILL: \_\_\_\_\_
6. DESCRIPTION OF SPILL QUANTITY, SIZE AND TYPE OF AREA AFFECTED:
  - a. Quantity Released and Size of Spill Area: \_\_\_\_\_
  - b. Soil: \_\_\_\_\_
  - c. Pavement: \_\_\_\_\_
  - d. Vegetation: \_\_\_\_\_
  - e. Storm of Sewer Drain: \_\_\_\_\_
  - f. Name of body of Water (River, Creek, Pond, Lake, Drainage Ditch): \_\_\_\_\_
7. HAS RELEASE BEEN STOPPED? \_\_\_\_\_
8. HAS RELEASE BEEN CONTAINED? \_\_\_\_\_
9. DID RELEASE CROSS INSTALLATION BOUNDARIES: (IF YES, DESCRIBE LOCATION): \_\_\_\_\_
10. TYPE AND EXTENT OF INJURIES, IF ANY: \_\_\_\_\_

**\*\*Provide a copy of this form to DPW EMD Spill Program Manager or FAX to (706) 545-4209**

### PHASE II — POST-SPILL RESPONSE AND CLEAN UP ACTIONS:

11. DESCRIBE CLEAN-UP METHOD AND CONTAINMENT PROCEDURES: \_\_\_\_\_  
\_\_\_\_\_
12. NAME OF CONTRACTOR INVOLVED IN CLEAN-UP: \_\_\_\_\_
13. ESTIMATED AMOUNT OF SPILL RESIDUE AND CONTAMINATED MATERIAL REMOVED: \_\_\_\_\_
14. ESTIMATED COST OF CLEAN-UP: \_\_\_\_\_
15. CORRECTIVE ACTION TAKEN OR TO BE TAKEN TO PREVENT FUTURE SIMILAR INCIDENTS: \_\_\_\_\_
16. NAME AND PHONE NUMBER OF PERSONNEL REPORTING SPILL: \_\_\_\_\_

**\*\*KEEP THIS FORM FOR A MINIMUM OF 5 YEARS**



Concord OP (K15) Range Div Standard CAS  
Eelbeck FRRP GA 1150 9181, 075 Deg Grid Azimuth  
\*20mm (TPT), 30mm (TPT), 2.75" FFAR Inert  
M134 Mini Gun (7.62mm Ball/Tracer)  
M2 (.50 cal Ball/Tracer)

K15

50 cal Ball/Tracer

2.75" FFAR Inert @ 4 Deg's

7.62mm Ball/Tracer

20mm TPT

Pine Knot Creek

Cactus

Brooks Range

Hastings Range

Ware Range

Carmouche Range

Terry Demo

DMPC

Concord OP & Ferguson Range

Hartell OP & Bunkers

Lorraine Road

Audermaide Trail

Buena Vista Rd

Underwood I

Moore Road

Eelbeck Field

Boy Springs Rd

Cactus Rd

Rimhart Rd

Amesico Trail

FP 4

FP 207

FP 206

K29

K30

K32

K38

K39

K40

K41

K42

K43

K44

K45

K46

K47

K9

K9A

K8

K11

K13

K10

K5

K7

K6

M1

M2

O18

O9

L10

D2

O6

O18

O9

K9

K9A

K8

K11

K13

K10

K5

K7

K6

M1

M2

O18

O9

L10

D2

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O18

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K13

K10

K5

K7

K6

M1

M2

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O9

L10

D2

O6

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K9A

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K11

K13

K10

K5

K7

K6

M1

M2

O18

O9

L10

D2

O6

O18

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K9

K9A

K8

K11

K13

K10

K5

K7

K6

M1

M2

O18

O9

L10

D2

O6

O18

O9

K9

K9A

K8

K11

K13

K10

K5

K7

K6

M1

M2

O18

O9

L10

D2

O6

O18

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K9

K9A

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K11

K13

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K6

M1

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O18

O9

L10

D2

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K9

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K10

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M1

M2

O18

O9

L10

D2

O6

O18

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K9

K9A

K8

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K13

K10

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M1

M2

O18

O9

L10

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O18

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K9A

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K13

K10

K5

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K6

M1

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O18

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L10

D2

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K9A

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M2

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D2

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K9A

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M1

M2

O18

O9

L10

D2

O6

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K9A

K8

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K13

K10

K5

K7

K6

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O18

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K9A

K8

K11

K13

K10

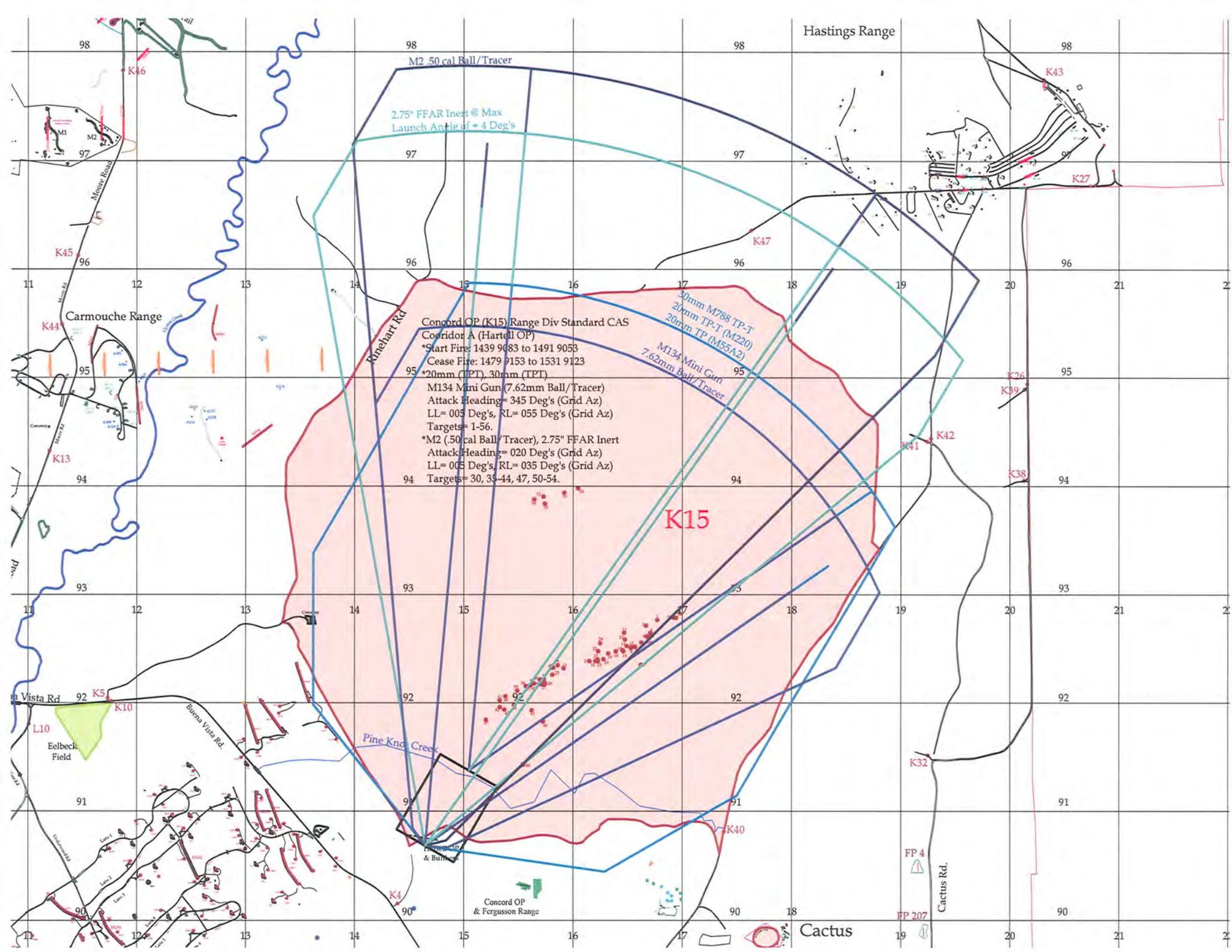
K5

K7

K6

M1

M2



Hastings Range

M2 .50 cal Ball/Tracer  
2.75" FFAR Inert @ Max  
Launch Angle of + 4 Deg's

Concord OP (K15) Range Div Standard CAS  
Corridor A (Hartell OP)  
\*Start Fire: 1439 9083 to 1491 9053  
Cease Fire: 1479 9153 to 1531 9123  
\*20mm (TPT), 30mm (TPT)  
M134 Mini Gun (7.62mm Ball/Tracer)  
Attack Heading= 345 Deg's (Grid Az)  
LL= 005 Deg's, RL= 055 Deg's (Grid Az)  
Targets= 1-56.  
\*M2 (.50 cal Ball/Tracer), 2.75" FFAR Inert  
Attack Heading= 020 Deg's (Grid Az)  
LL= 005 Deg's, RL= 035 Deg's (Grid Az)  
Targets= 30, 33-44, 47, 50-54.

K15

Pine Knob Creek

Concord OP  
& Fergusson Range

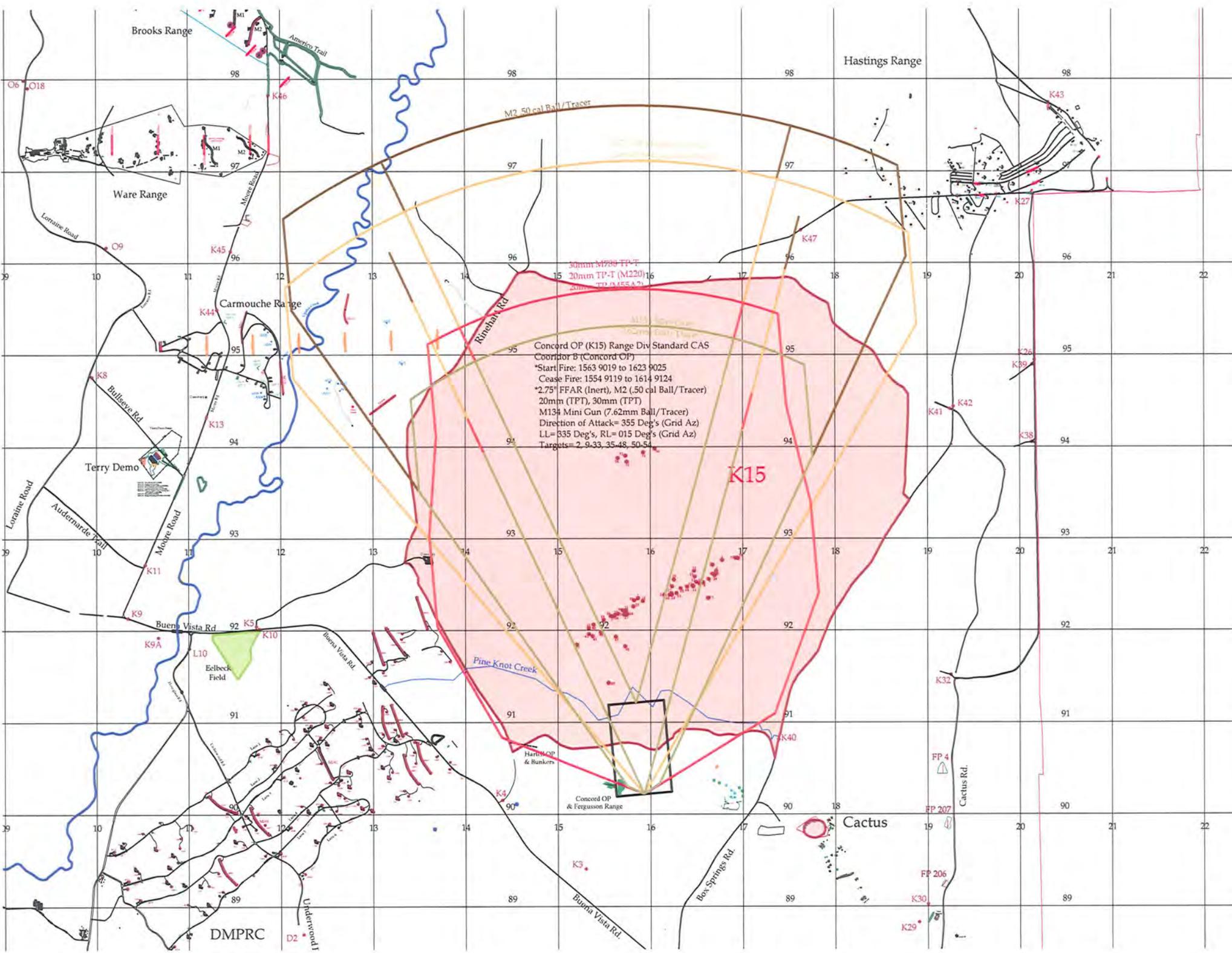
Cactus

FP 4  
FP 207  
Cactus Rd.

Carmouche Range

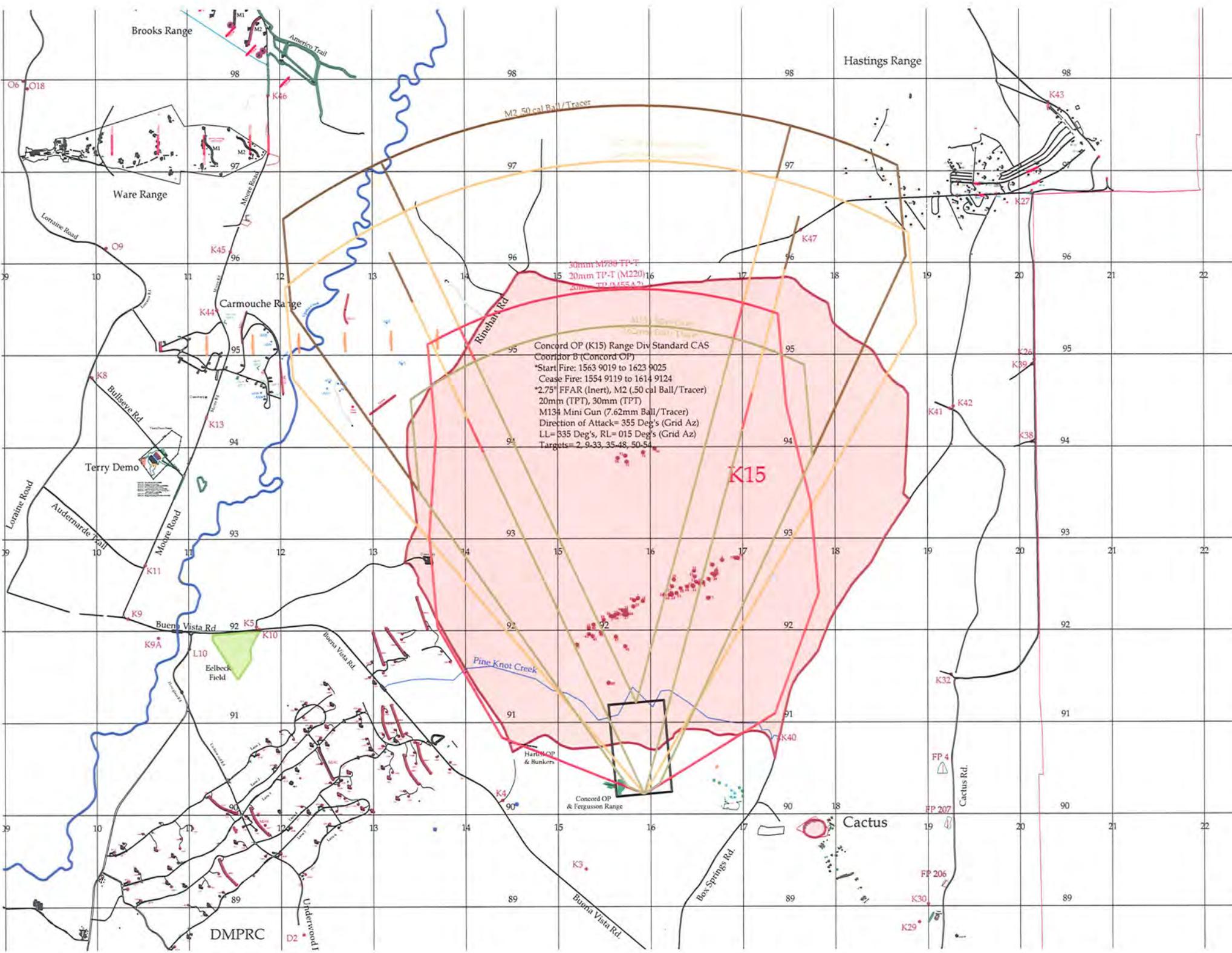
Eelbeck Field

FP 4  
FP 207  
Cactus Rd.



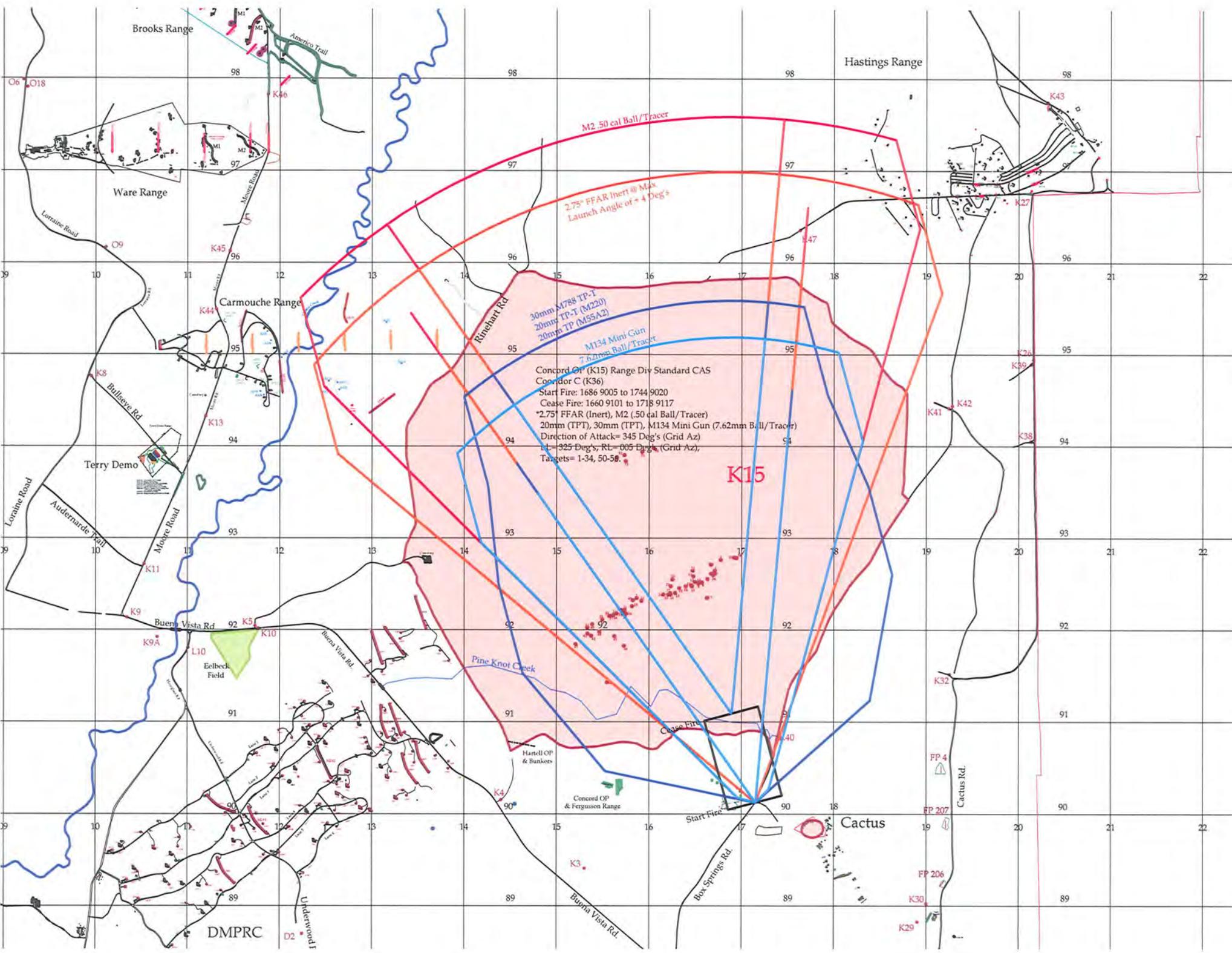
Concord OP (K15) Range Div Standard CAS  
 Coordinator B (Concord OP)  
 \*Start Fire: 1563 9019 to 1623 9025  
 Cease Fire: 1554 9119 to 1614 9124  
 \*2.75" FFAR (Inert), M2 (.50 cal Ball/Tracer)  
 20mm (TPT), 30mm (TPT)  
 M134 Mini Gun (7.62mm Ball/Tracer)  
 Direction of Attack= 355 Deg's (Grid Az)  
 LL= 335 Deg's, RL= 015 Deg's (Grid Az)  
 Targets= 2, 9, 33, 35, 48, 50, 54

**K15**

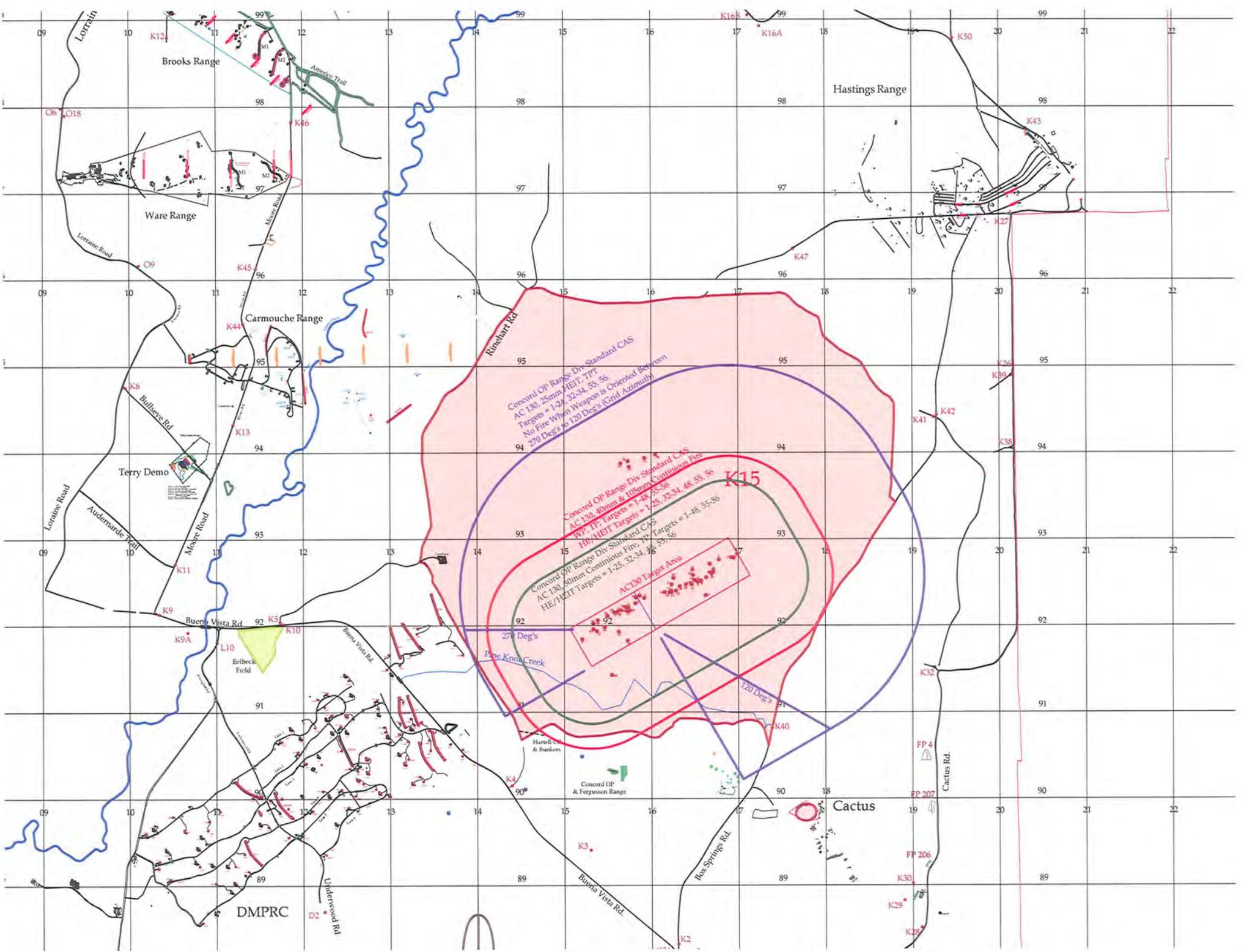


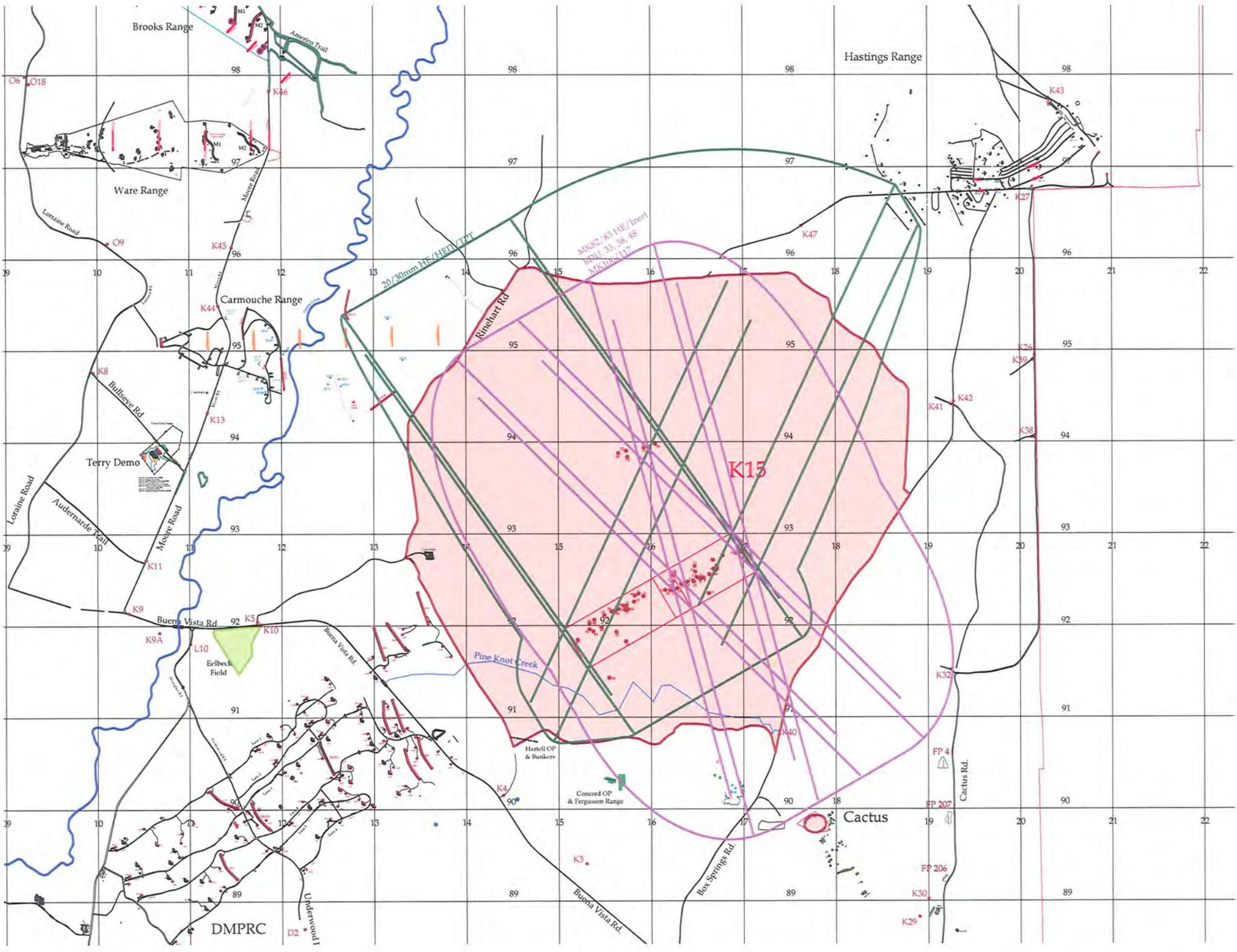
Concord OP (K15) Range Div Standard CAS  
 Coordinator B (Concord OP)  
 \*Start Fire: 1563 9019 to 1623 9025  
 Cease Fire: 1554 9119 to 1614 9124  
 \*2.75" FFAR (Inert), M2 (.50 cal Ball/Tracer)  
 20mm (TPT), 30mm (TPT)  
 M134 Mini Gun (7.62mm Ball/Tracer)  
 Direction of Attack= 355 Deg's (Grid Az)  
 LL= 335 Deg's, RL= 015 Deg's (Grid Az)  
 Targets= 2, 9, 33, 35, 48, 50, 54

**K15**









Brooks Range

Hastings Range

Ware Range

Carmouche Range

Terry Demo

DMPRC

D2

K15

MK82/83 HE/Inert  
BSU: 33, 35, 48  
MK102/117

Pine Knot Creek

Hartell OP & Bunkers

Concord OP & Fergusson Range

Cactus

FP 4

FP 207

FP 206

K29

K30

K32

K38

K39

K41

K42

K43

K3

K4

K5

K9A

K9

K11

K8

K45

O6

O18

O9

O10

O11

O12

O13

O14

O15

O16

O17

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