

FIRING/NONFIRING DATA

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

TO: Chief, Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905	Date: 26 Sep 13 Log# 9-11-13 Range: FP 4 & FP 207 & FP 210 & FP 206 Title: Mortars Problem No:
THRU: DPTMS, Chief, Range Operations, Fort Benning, GA. 31905	FROM: DPTMS, Chief, Survey Section, Range Operations Fort Benning, GA. 31905

SECTION I, TYPE OF TRAINING

a. Live Fire
 b. Non-live Fire
 CP/Controller Coordinates: FP 4: 1916 9049; FP 207: 1921 8989

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS

Coordinates	Type	Model/DODAC	Size of Charges
N/A			

SECTION III, WEAPONS/AMMUNITION REQUESTED

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
FP 4: 1916 9045 to 1916 9053	120mm Mortar 81mm Mortar	WP, ILL, IR ILL, FRPC WP, ILL, IR ILL, RP, TP	5320 mils 5320 mils	5680 mils 5680 mils
FP 4: 1916 9045 to 1916 9053	120mm Mortar, 81mm Mortar	HE	5370 mils	5680 mils
FP 4: 1916 9045 to 1916 9053	60mm Mortar	HE, WP, ILL, IR ILL, FRPC	5370 mils	5680 mils

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 checked="" type="checkbox"/> Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:	Training area(s) to be occupied: <input type="checkbox"/> Scenario of training to be conducted: <input type="checkbox"/> Sketch of area(s) to be occupied: <input type="checkbox"/> Risk Assessment:
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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 Tesch, GS12, Chief, Range Operations DPTMS
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SECTION VI, FOR RANGE DIVISION USE

DATE: 1 Nov 13

TO: Chief, Range Operations, DPTMS Fort Benning, GA. 31905	FROM: Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905
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a. Roadblocks to be closed: b. Road(s) to be closed/road barrier locations: c. Remarks: d. This approval expires: <i>Indef</i>	See Road Block Enclosures Controller Coordinates FP210: 1651 8820, FP 206: 1918 8923 USING UNITS CANNOT FIRE ANY HE ROUNDS INTO OR OVER DU AREAS. UNIT MUST ABIDE BY THE TARGET LIST FOR HE TARGETS (SEE 350-19-2-E-R)
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Chief, Range Division Directorate of Plans, Training, Mobilization and Security	<i>Brad S. Tesch</i>
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FIRING/NONFIRING DATA

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

Continuation of Section II and III - FB Form 350-19-2-E-R, February 2009

TO: Chief, Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905	Date: 26 Sep 13 Log# 9-11-13 Range: FP 4 & FP 207 & FP 210 & FP 206 Title: Mortars Problem No:
THRU: DPTMS, Range Operations Fort Benning, GA. 31905	FROM: DMTMS, Range Operations (Survey) Fort Benning, GA. 31905

SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS (CONTINUED FROM PAGE 1)

Coordinates	Type	Model/DODAC	Size of Charges
N/A			

SECTION III, WEAPONS/AMMUNITION REQUESTED (CONTINUED FROM PAGE 1)

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
FP 207: 1921 8985 to 1921 8993	120mm Mortar 81mm Mortar	WP, ILL, IR ILL, FRPC WP, ILL, IR ILL, RP, TP	5410 mils 5410 mils	5710 mils 5710 mils
FP 207: 1921 8985 to 1921 8993	120mm Mortar, 81mm Mortar	HE	5500 mils	5710 mils
FP 210: 1648 8818 to 1655 8821	120mm Mortar 81mm Mortar	WP, ILL, IR ILL, FRPC WP, ILL, IR ILL, RP, TP	6025 mils	0120 mils
FP 210: 1648 8818 to 1655 8821	120mm Mortar, 81mm Mortar	HE	6340 mils	0120 mils
FP 206: 1916 8921 to 1920 8926	120mm Mortar, 81mm Mortar	WP, ILL, IR ILL, FRPC WP, ILL, IR ILL, RP, TP	5495 mils	5850 mils
FP 206: 1916 8921 to 1920 8926	120mm Mortar, 81mm Mortar	HE	5700 mils	5850 mils

Name/rank of requesting officer:
 Benjamin T. Bolding, GS08 *Benjamin T. Bolding*
 Chief, Range Division *Ben S. Tull*
 Directorate of Plans, Training, Mobilization and Security

ARTILLERY/MORTAR SAFETY RECORD

For use of this form, see USAIC Regulation 350-19; the proponent is DPTMS, Range Division.

DATE:	7 Oct 13	UNIT:	DPTMS, Range Operations Fort Benning, GA 31904	TITLE:	Mortars LOG# 9-11-13
FIRING POINT #:	206 to K15		WEAPONS:	81mm	
COORDINATES:	1916 8921-1920 8926				

Weapon Projectile	Left Limit Mils	Right Limit Mils	Minimum Range Meters	Maximum Range Meters	Minimum Charge	Maximum Charge	Maximum Ordnance Meter
HE M374 &A2	5700	5850	3750	4595	8	9	2062
WP M375 &A2	5495	5850	3750	4595	8	9	2062
HE M374A3	5700	5850	3750	4790	4	4	2220
HE M821	5700	5850	3750	5610	3	4	2792
HE M889	5700	5850	3750	5535	3	4	2741
TP M879	5495	5850	3750	5760	3	4	2974
HE M821A1 & A2	5700	5850	3750	5790	3	4	2974
HE M889A1E1	5700	5850	3750	5790	3	4	2974
HE M889A1	5700	5850	3750	5845	3	4	2991
RP M819	5495	5850	3750	4975	4	4	2372
ILL M853A1	5495	5850	3750	5365	4	4	2705
IR ILL M816	5495	5850	3750	5345	4	4	2674

SPECIAL INSTRUCTIONS: This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.
 NON-HE TARGETS= 1-38, 48, 50-56
 HE TARGETS= 1, 3-13, 17, 34, 50-56

Name/rank of requesting officer Benjamig T. Bolding. GS08 Chief, Range Division Directorate of Plans, Training, Mobilization and Security	
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ARTILLERY/MORTAR SAFETY RECORD

For use of this form, see USAIC Regulation 350-19; the proponent is DPTMS, Range Division.

DATE: 7 Oct 13	UNIT: DPTMS, Range Operations Fort Benning, GA 31904	TITLE: Mortars	LOG# 9-11-13
FIRING POINT #: 206 to K15	WEAPONS: 120mm		
COORDINATES:	1916 8921-1920 8926		

Weapon Projectile	Left Limit Mils	Right Limit Mils	Minimum Range Meters	Maximum Range Meters	Minimum Charge	Maximum Charge	Maximum Ordnance Meter
HE M57	5700	5850	3750	6200	6	10	3835
WP M68	5495	5850	3750	6200	6	10	3835
HE M934 & A1	5700	5850	3750	6200	3	4	3651
HE M933	5700	5850	3750	6200	3	4	3651
WP M929	5495	5850	3750	6200	3	4	3718
FRPC M931	5495	5850	3750	6200	3	4	3762
ILL M91	5495	5850	3750	6200	8	10	3793
ILL M930	5495	5850	3750	6200	3	4	3649
IR ILL M983	5495	5850	3750	6200	3	4	3649

SPECIAL INSTRUCTIONS: This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.
 NON-HE TARGETS= 1-38, 48, 50-56
 HE TARGETS= 1, 3-13, 17, 34, 50-56

Name/rank of requesting officer Benjamig T. Bolding. GS08 Chief, Range Division Directorate of Plans, Training, Mobilization and Security	
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ARTILLERY/MORTAR SAFETY RECORD

1. DATE OF REQUEST

(DD/MM/YYYY)

For use of this form, see MCoE Regulation 350-19; the proponent is DPTMS, Range Division.

26 Sep 2013

2. UNIT DPTMS, Range Operations Fort Benning, GA. 31905	3. TITLE Mortars Log # 9-11-13
4. FIRING POINT NUMBER FP 210 to K-15	5. WEAPONS 120mm Mortar

6. COORDINATES
1648 8818 to 1655 8821

7. WEAPON PROJECTILE	8. LEFT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	9. RIGHT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	10. MINIMUM RANGE METERS	11. MAXIMUM RANGE METERS	12. MINIMUM CHARGE	13. MAXIMUM CHARGE	14. MAXIMUM ORDNANCE <input checked="" type="checkbox"/> m <input type="checkbox"/> ft
HE M57	6340	0120	3800	5500	6	8	3189
HE M934 & A1	"	"	"	"	3	4	3644
HE M933	"	"	"	"	3	4	3644
FRTR M931	6025	0120	3150	6200	2	4	3840
WP M68	"	"	"	"	4	8	3283
WP M929	"	"	"	"	2	4	3789
ILL M91	"	"	"	"	4	8	3312
ILL M930	"	"	"	"	2	4	3729
IR ILL M983	6025	0120	3150	6200	2	4	3729

15. SPECIAL INSTRUCTIONS: This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.
HE Targets: 1, 3-15, 17-21, 33, 34, 55, 56
Non HE Targets: 1-56

16. NAME AND RANK OF THE REQUESTING OFFICER Benjamin T. Bolding, GS08 <i>Benjamin T. Bolding</i>	17. SIGNATURE 
18. APPROVING OFFICIAL Chief, Range Division Directorate of Plans, Training, Mobilization, and Security <i>Bay S. Tu</i>	19. SIGNATURE 

ARTILLERY/MORTAR SAFETY RECORD For use of this form, see MCoE Regulation 350-19; the proponent is DPTMS, Range Division.	1. DATE OF REQUEST (DD/MM/YYYY) 26 Sep 2013
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2. UNIT	3. TITLE
DPTMS, Range Operations Fort Benning, GA. 31905	Mortars Log # 9-11-13
4. FIRING POINT NUMBER	5. WEAPONS
FP210 to K15	81mm Mortars

6. COORDINATES
1648 8818 to 1655 8821

7. WEAPON PROJECTILE	8. LEFT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	9. RIGHT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	10. MINIMUM RANGE METERS	11. MAXIMUM RANGE METERS	12. MINIMUM CHARGE	13. MAXIMUM CHARGE	14. MAXIMUM ORDNANCE <input checked="" type="checkbox"/> m <input type="checkbox"/> ft
HE M374 & A2	6340	0120	3800	5500	8	9	2041
WP M375 & A2	6025	0120	3150	5850	7	9	2265
HE M374A3	6340	0120	3800	5500	4	4	2201
HE M821	6340	0120	3800	5500	3	4	2781
HE M889	6340	0120	3800	5500	3	4	2729
TP M879	6025	0120	3150	5850	3	4	2961
HE M821A1 & A2	6340	0120	3800	5500	3	4	2963
HE M889 A1E1	6340	0120	3800	5500	3	4	2963
HE M889A1	6340	0120	3800	5500	3	4	2981
RP M819	6025	0120	3150	5850	3	4	2532

15. SPECIAL INSTRUCTIONS: This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.
See Page 1 for authorized Targets

16. NAME AND RANK OF THE REQUESTING OFFICER	17. SIGNATURE
Benjamin T. Bolding. GS08 <i>Benjamin T. Bolding</i>	
18. APPROVING OFFICIAL	19. SIGNATURE
Chief, Range Division Directorate of Plans, Training, Mobilization, and Security <i>Ben S. [Signature]</i>	

ARTILLERY/MORTAR SAFETY RECORD

For use of this form, see MCoE Regulation 350-19; the proponent is DPTMS, Range Division.

1. DATE OF REQUEST

(DD/MM/YYYY)

26 Sep 2013

2. UNIT DPTMS, Range Operations Fort Benning, GA. 31905	3. TITLE Mortars Log # 9-11-13
4. FIRING POINT NUMBER FP 210 to K15	5. WEAPONS 81mm Continued

6. COORDINATES
 1648 8818 TO 1655 8821

7. WEAPON PROJECTILE	8. LEFT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	9. RIGHT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	10. MINIMUM RANGE METERS	11. MAXIMUM RANGE METERS	12. MINIMUM CHARGE	13. MAXIMUM CHARGE	14. MAXIMUM ORDNANCE <input checked="" type="checkbox"/> m <input type="checkbox"/> ft
ILL M853A1	6025	0120	3150	5850	3	4	2849
IR ILL M819	6025	0120	3150	5850	3	4	2873

15. SPECIAL INSTRUCTIONS: This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.

See Page 1 for authorized Targets

16. NAME AND RANK OF THE REQUESTING OFFICER Benjamin T. Bolding. GS08 <i>Benjamin T. Bolding</i>	17. SIGNATURE 
18. APPROVING OFFICIAL Chief, Range Division Directorate of Plans, Training, Mobilization, and Security <i>Ben S. [Signature]</i>	19. SIGNATURE 

ARTILLERY/MORTAR SAFETY RECORD

For use of this form, see MCoE Regulation 350-19, the proponent is DPTMS, Range Division.

1. DATE OF REQUEST

(DD/MM/YYYY)

4 May 2012

Log 9-11-13

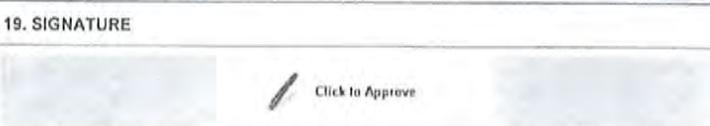
2. UNIT DPTMS, Range Operations Fort Benning, GA. 31905	3. TITLE Mortars
4. FIRING POINT NUMBER FP 4 to K-15	5. WEAPONS 120mm Mortar

6. COORDINATES
1916 9045 to 1916 9053

7. WEAPON PROJECTILE	8. LEFT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	9. RIGHT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	10. MINIMUM RANGE METERS	11. MAXIMUM RANGE METERS	12. MINIMUM CHARGE	13. MAXIMUM CHARGE	14. MAXIMUM ORDNANCE <input checked="" type="checkbox"/> m <input type="checkbox"/> ft
HE M57	5370	5680	2800	5400	4	6	2582
WP M68	5320	5680	2800	5400	4	6	2582
HE M934 & A1	5370	5680	2800	5400	2	3	2871
HE M933	5370	5680	2800	5400	2	3	2871
WP M929	5320	5680	2800	5400	2	3	2928
FRPC M931	5320	5680	2800	5400	2	3	2994
ILL M91	5320	5680	2800	5400	4	8	3312
ILL M930	5320	5680	2800	5400	2	3	2865
IR ILL M983	5320	5680	2800	5400	2	3	2865

15. SPECIAL INSTRUCTIONS: This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.

120mm HE TARGETS: 1, 3-24, 32-34, 50-56.
120mm NON HE TARGETS: 1-24, 32-34, 48, 50-56.

16. NAME AND RANK OF THE REQUESTING OFFICER Benjamin T. Bolding, GS08 <i>Benjamin T. Bolding</i>	17. SIGNATURE 
18. APPROVING OFFICIAL Chief, Range Division Directorate of Plans, Training, Mobilization, and Security <i>Benjamin S. ...</i>	19. SIGNATURE 

ARTILLERY/MORTAR SAFETY RECORD

For use of this form, see MCoE Regulation 350-19; the proponent is DPTMS, Range Division.

1. DATE OF REQUEST

(DD/MM/YYYY)

4 May 2012

Log# 9-11-13

2. UNIT

DPTMS, Range Operations
Fort Benning, GA. 31905

3. TITLE

Mortars

4. FIRING POINT NUMBER

FP 4 to K-15

5. WEAPONS

81mm Mortar

6. COORDINATES

1916 9045 to 1916 9053

7. WEAPON
PROJECTILE

8. LEFT LIMIT

deg mil

9. RIGHT LIMIT

deg mil

10. MINIMUM
RANGE METERS

11. MAXIMUM
RANGE METERS

12. MINIMUM
CHARGE

13. MAXIMUM
CHARGE

14. MAXIMUM
ORDNANCE

m ft

HE M374 & A2

5370

5680

2800

5400

6

9

2352

HE M374A3

5370

5680

2800

5400

3

4

2478

HE M821

5370

5680

2800

5400

2

4

2952

HE M889

5370

5680

2800

5400

2

4

2905

TP M879

5320

5680

2800

5400

2

4

3168

HE M821A1 & A2

5370

5680

2800

5400

2

4

3124

HE M889A1/E1

5370

5680

2800

5400

2

4

3124

HE M889A1

5370

5680

2800

5400

2

4

3124

RP M819

5320

5680

2800

5400

3

4

2594

ILL M853A1

5320

5680

2800

5400

3

4

2900

15. SPECIAL INSTRUCTIONS: This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.

81mm HE TARGETS: 1, 3-24, 32-34, 50-56.

81mm NON HE TARGETS: 1-24, 32-34, 48, 50-56.

16. NAME AND RANK OF THE REQUESTING OFFICER

Benjamin T. Bolding, GS08

Benjamin T. Bolding

17. SIGNATURE



 Click to Approve



18. APPROVING OFFICIAL

Chief, Range Division
Directorate of Plans, Training, Mobilization, and Security

Brad S. Lu

19. SIGNATURE



 Click to Approve



ARTILLERY/MORTAR SAFETY RECORD

For use of this form, see MCoE Regulation 350-19; the proponent is DPTMS, Range Division.

1. DATE OF REQUEST

(DDMMYYYY)

4 May 2012

Log # 9-11-13

2. UNIT

DPTMS, Range Operations
Fort Benning, GA. 31905

3. TITLE

Mortars

4. FIRING POINT NUMBER

FP 4 to K-15

5. WEAPONS

81mm Mortar, 60mm Mortar

6. COORDINATES

1916 9045 to 1916 9053

7. WEAPON PROJECTILE	8. LEFT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	9. RIGHT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	10. MINIMUM RANGE METERS	11. MAXIMUM RANGE METERS	12. MINIMUM CHARGE	13. MAXIMUM CHARGE	14. MAXIMUM ORDNANCE <input checked="" type="checkbox"/> m <input type="checkbox"/> ft
81mm							
HE M375 & A2	5320	5680	2800	5400	6	9	2352
IR ILL M816	5320	5680	2800	5400	3	4	2967
60mm							
HE M720 & A1	5370	5680	2800	3500	4	4	1663
HE M768	5370	5680	2800	3500	4	4	1663
IR ILL M767	5370	5680	2800	3500	4	4	1548
ILL M721	5370	5680	2800	3500	4	4	1536
WP M722	5370	5680	2800	3500	4	4	1663
FRPC M769	5370	5680	2800	3500	4	4	1663

15. SPECIAL INSTRUCTIONS: This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.

81mm HE TARGETS: 1, 3-24, 32-34, 50-56. 81mm Non HE TARGETS: 1-24, 32-34, 48, 50-56.
60mm HE & Non HE TARGETS: 1, 3-15, 17-24, 32-34, 55, 56.

16. NAME AND RANK OF THE REQUESTING OFFICER

Benjamin T. Bolding, GS08

Benjamin T. Bolding

17. SIGNATURE

Click to Approve

18. APPROVING OFFICIAL

Chief, Range Division
Directorate of Plans, Training, Mobilization, and Security

Brad S. Tuck

19. SIGNATURE

Click to Approve

ARTILLERY/MORTAR SAFETY RECORD

1. DATE OF REQUEST

(DD/MM/YYYY)

For use of this form, see MCoE Regulation 350-19, the proponent is DPTMS, Range Division.

4 May 2012

Log# 9-11-13

2. UNIT DPTMS, Range Operations Fort Benning, GA. 31905	3. TITLE Mortars
4. FIRING POINT NUMBER FP 207 to K-15	5. WEAPONS 120mm Mortar

6. COORDINATES
 1921 8985 to 1921 8993

7. WEAPON PROJECTILE	8. LEFT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	9. RIGHT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	10. MINIMUM RANGE METERS	11. MAXIMUM RANGE METERS	12. MINIMUM CHARGE	13. MAXIMUM CHARGE	14. MAXIMUM ORDNANCE <input checked="" type="checkbox"/> m <input type="checkbox"/> ft
HE M57	5500	5710	3300	5800	4	8	3283
WP M68	5410	5710	3300	5800	4	8	3283
HE M934 & A1	5500	5710	3300	5800	2	4	3709
HE M933	5500	5710	3300	5800	2	4	3709
WP M929	5410	5710	3300	5800	2	4	3774
FRPC M931	5410	5710	3300	5800	2	4	3823
ILL M91	5410	5710	3300	5800	6	8	3312
ILL M930	5410	5710	3300	5800	3	4	3711
IR ILL M983	5410	5710	3300	5800	3	4	3711

15. SPECIAL INSTRUCTIONS: This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.
 120mm HE Targets: 1, 3-15, 17-24, 32-34, 51-54
 120mm Non HE Targets: 1-25, 31-34, 48, 51-54.

16. NAME AND RANK OF THE REQUESTING OFFICER Benjamin T. Bolding, GS08 	17. SIGNATURE <div style="border: 1px solid gray; height: 40px; width: 100%; position: relative;"> Click to Approve </div>
18. APPROVING OFFICIAL Chief, Range Division Directorate of Plans, Training, Mobilization, and Security 	19. SIGNATURE <div style="border: 1px solid gray; height: 40px; width: 100%; position: relative;"> Click to Approve </div>

ARTILLERY/MORTAR SAFETY RECORD

For use of this form, see MCoE Regulation 350-19; the proponent is DPTMS, Range Division

1. DATE OF REQUEST

(DD/MM/YYYY)

4 May 2012

Log# 9-11-13

2. UNIT DPTMS, Range Operations Fort Benning, GA. 31905	3. TITLE Mortars
4. FIRING POINT NUMBER FP 207 to K-15	5. WEAPONS 81mm Mortar

6. COORDINATES
 1921 8985 to 1921 8993

7. WEAPON PROJECTILE	8. LEFT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	9. RIGHT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	10. MINIMUM RANGE METERS	11. MAXIMUM RANGE METERS	12. MINIMUM CHARGE	13. MAXIMUM CHARGE	14. MAXIMUM ORDNANCE <input checked="" type="checkbox"/> m <input type="checkbox"/> ft
HE M374 & A2 WP M375 & A2	5500 5410	5710	3300	5800	7	9	2222
HE M374A3	5500	5710	3300	5800	4	4	2364
HE M821	5500	5710	3300	5800	3	4	2880
HE M889	5500	5710	3300	5800	3	4	2831
TP M879	5410	5710	3300	5800	3	4	3077
HE M821A1 & A2	5500	5710	3300	5800	3	4	3059
HE M889A1	5500	5710	3300	5800	3	4	3068
RP M819	5410	5710	3300	5800	3	4	2499
IR ILL M816	5410	5710	3300	5800	3	4	2828
ILL M853A1	5410	5710	3300	5800	3	4	2820

15. SPECIAL INSTRUCTIONS: This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.

81mm HE Targets: 1, 3-15, 17-24, 32-34, 51-54.
 81mm Non HE Targets: 1-25, 31-34, 48, 51-54.

16. NAME AND RANK OF THE REQUESTING OFFICER Benjamin T. Bolding, GS08 	17. SIGNATURE <div style="border: 1px solid gray; width: 100%; height: 40px; display: flex; align-items: center; justify-content: center;"> Click to Approve </div>
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18. APPROVING OFFICIAL Chief, Range Division Directorate of Plans, Training, Mobilization, and Security 	19. SIGNATURE <div style="border: 1px solid gray; width: 100%; height: 40px; display: flex; align-items: center; justify-content: center;"> Click to Approve </div>
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DEPARTMENT OF THE ARMY
HEADQUARTERS UNITED STATES ARMY MANEUVER CENTER OF EXCELLENCE
1 KARKER STREET
FORT BENNING, GEORGIA 31905-5000

REPLY TO
ATTENTION OF

IMSE-BEN-PL

31 October, 2013

MEMORANDUM FOR Director, Plans, Training, Mobilization and Security, U.S. ARMY GARRISON, Fort Benning, Georgia 31905

SUBJECT: Mortar firing from FP 207, FP 210, FP 206, and FP 4.

1. **Purpose:**

The purpose of this memorandum is to outline the training concept and scenario for Mortar training on FP 207, FP 210, FP 206 and FP 4 using live ammunition. The training will familiarize Soldier's on firing techniques relative to combat conditions in the contemporary operating environment, firing realistic training scenarios from existing firing points and targets arrays with live munitions. During the execution of training, Soldiers will train on the following task.

- 60mm Mortars, HE, ILL, IR ILL, WP, FRPC
- 81mm Mortars, HE, WP, ILL, IR ILL, RP, TP
- 120mm Mortars, HE, WP, ILL, IR ILL, FRPC,

2. **Reference:**

- a. AR 385-63 and DA PAM 385-63, Range Safety.
- b. MCoE Reg 350-19, Range and Terrain, March 2013
- c. TM 9-1300-206, Ammunition and Explosives Standards.
- d. FM 3-22.90 Mortars.
- e. FM 3-22.91 Mortar Fire Direction Procedures.
- f. FM 3-20.21

3. **Commanders Intent:** The intent is for Soldiers to effectively and decisively coordinate and execute the indirect capabilities of each Mortar section.

4. **Concept of the Operation:** Unit Mortar Sections will conduct live fire operations from Firing Point 207, Firing Point 210, Firing Point 206, and Firing Point 4.

- a. Mortar Sections will occupy FP 4 (1916 9045 to 1916 9053) **See Sketch**.
- b. Mortar Sections will occupy FP 207 (1921 8985 to 1921 8993) **See Sketch**.
- c. Mortar Sections will occupy FP 210 (1648 8818 to 1655 8821) **See Sketch**
- d. Mortar Sections will occupy FP 206 (1916 8921 to 1920 8926) **See Sketch**
- c. Mortar Sections will conduct Dry Fire Rehearsals.
- d. All equipment will be inspected for serviceability and safety before training is conducted.
- e. Mortar Sections will not fire over the heads of other Soldiers or personnel in the area.
- f. Mortar Sections will fire only at approved targets in the K15 impact area (**See Sketch**). The Mortar Section will also be aware of the areas that have been contaminated by Depleted Uranium, and will insure **Mortars do not shoot over or into the DU area with High Explosive (HE) rounds (See Sketch)**.
- g. Units will occupy the selected training area and establish communications with Range Control.

- h. Units will ensure that all mortar rounds are observed either by FIST, CATD, Forward Observers (FO), or UAV/SUAS. The Observers have the option of where the FO's will observe from. Unit will need to make sure that they schedule the Land through Range Control where they will observe from.
- i. **Hip Shoot:** Units have the option of using multiple FP's to conduct the Hip Shoot as long as they are all scheduled through Range Control. Units cannot fire in between the firing points. They must occupy either FP 4, FP 210, FP206, or FP 207(See Sketches of approved positions).

5. **AMMUNITION:**

- a. The Ammunition NCO will sign for and control all ammunition at the designated position for each firing point. This location will be a minimum of 15 meters to the rear of each gun line on their respective FP's. Ammunition will be separated by type and controlled by the NCOIC.
- b. Each Mortar Section will receive the required amount of ammunition to complete their iteration of the Live Fire Exercise (LFX).
- c. All unused ammunition will be turned back into the Ammunition Supply Point (ASP) upon completion of the LFX.
- d. The ammunition points for each FP will maintain 2 fire extinguishers each.
- e. Unused charges will be disposed of IAW the range SOP, and MCoE Reg. 350-19. Unit will use this to train each Mortar Section on the proper procedures for disposing unused charges.

6. **Range Firing Limitations:**

- a. Units will ensure all rounds fired during the LFX impact within the appropriate Range Firing Limitations (Min/Max Range, left/right Azimuth Limits, and Min/Max Charge). All fires will be IAW the FB Form 350-19-1-E-R and FB Form 350-19-2-E-R for respective FP at all times.
- b. In case of a short round, unobserved round, or round out of sector or safe, there will be an immediate cease fire and Range Control will be notified. All weapon(s) involved (data locked on the sights) and all components / ammunition will remain in place and personnel moved away from the guns until Range Control directs otherwise.

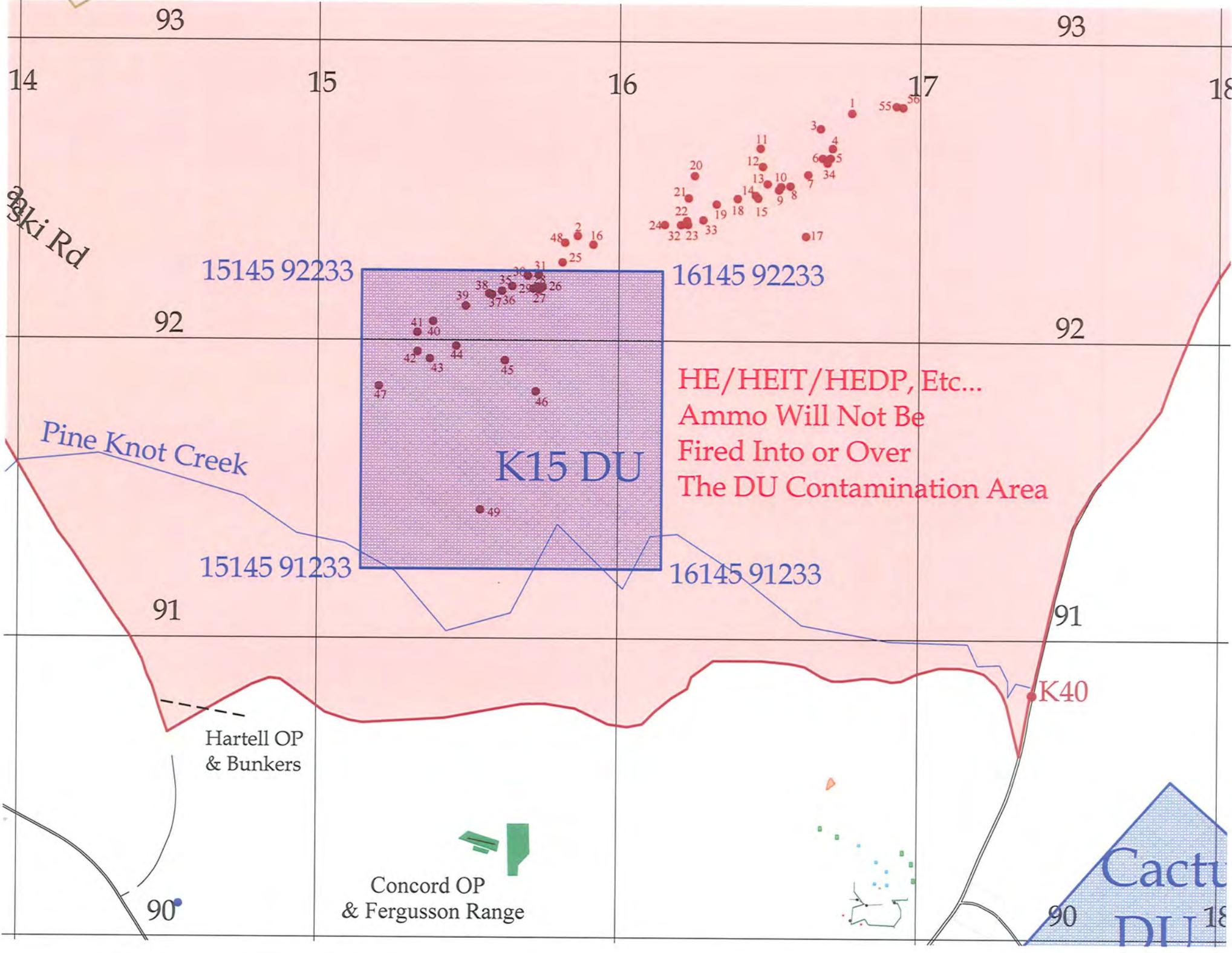
7. **Safety Measures**

- 1. All Soldiers will have the appropriate safety equipment on (eye/ear protection, body armor, and helmets) prior to firing on the range.
- 2. All Soldiers will receive a safety briefing/orientation on the scenario
- 3. A Combat Lifesaver with a designated covered vehicle will be on site at all times.
- 4. The OIC will monitor Range Control net at all times during execution of training and will request opening/closing codes.
- 5. Soldiers will be briefed on cease-fire procedures during the range in-brief. Additionally cadre will relay any/all cease fire signals applicable if they witness an unsafe act. Anyone on the Firing Point that see's an unsafe act can call a cease fire.
- 6. RSO will have his RSO card present and only perform duties as the Range Safety Officer.
- 7. RSO will suspend all firing if a malfunction causes damage to a weapon or injury to personnel and will notify Range Control and QASAS at 544-7490/7489.
- 8. All Soldiers will be briefed on the procedure when finding unexploded munitions (duds) on the Firing Point.

9. Weapons will be cleared by visual inspection on and off the firing line/point by the RSO after each interation.
10. **No one moves downrange at any time.**
8. **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.
9. **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.
10. **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.
11. **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.
12. **Units Must have an Approved RMWS signed off by Post Safety prior to use of this range and on file at Range Operations (Survey Section).**
13. **There will be no deviations to this packet without prior approval from Range Control**
14. POC for this exercise is the undersigned at 544-6385.



BRAD S. TESCH
GS12, Chief of Operations
Range Division



93

93

14

15

16

17

18

Ski Rd

15145 92233

16145 92233

92

92

Pine Knot Creek

HE/HEIT/HEDP, Etc...
Ammo Will Not Be
Fired Into or Over
The DU Contamination Area

K15 DU

15145 91233

16145 91233

91

91

Hartell OP
& Bunkers

K40

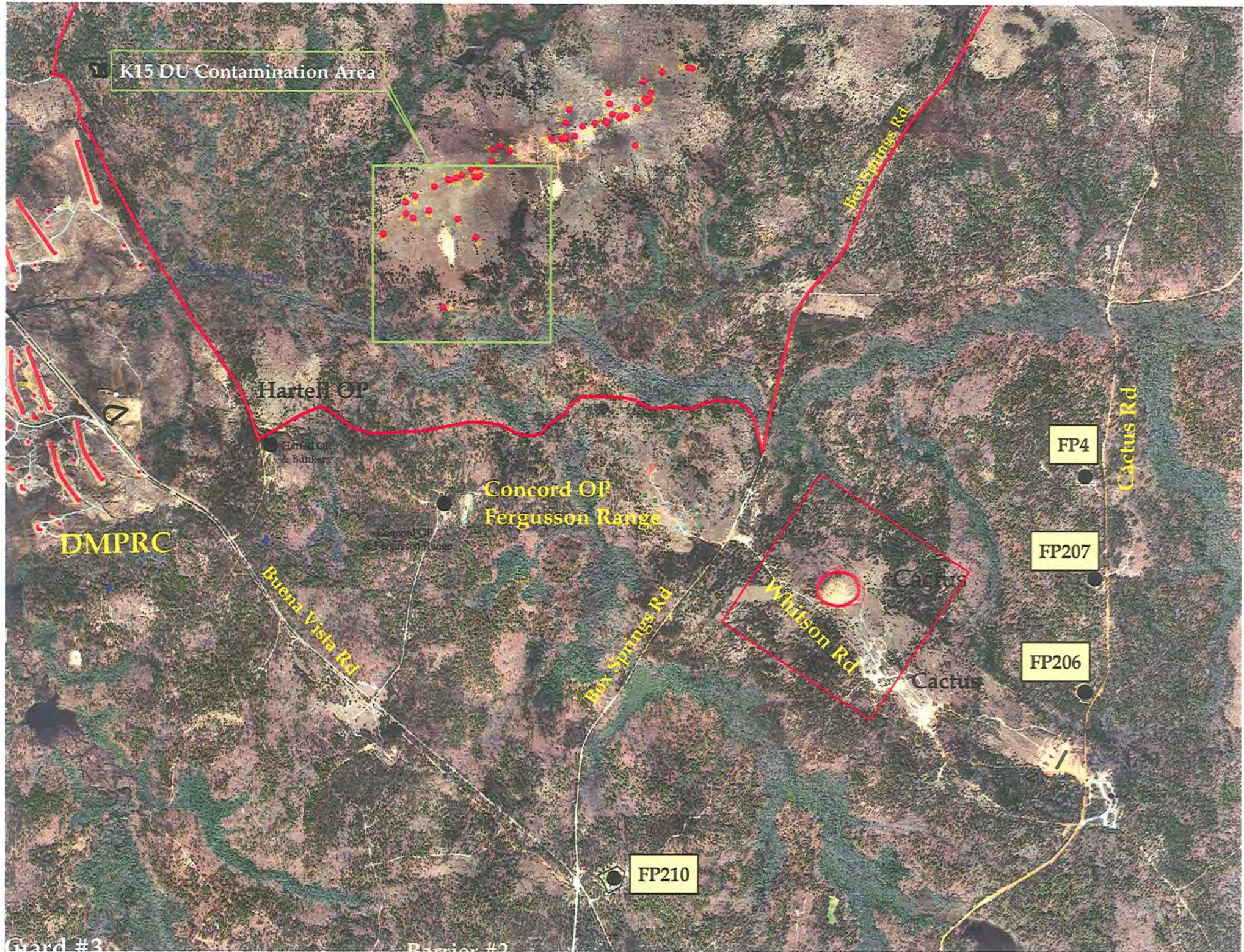
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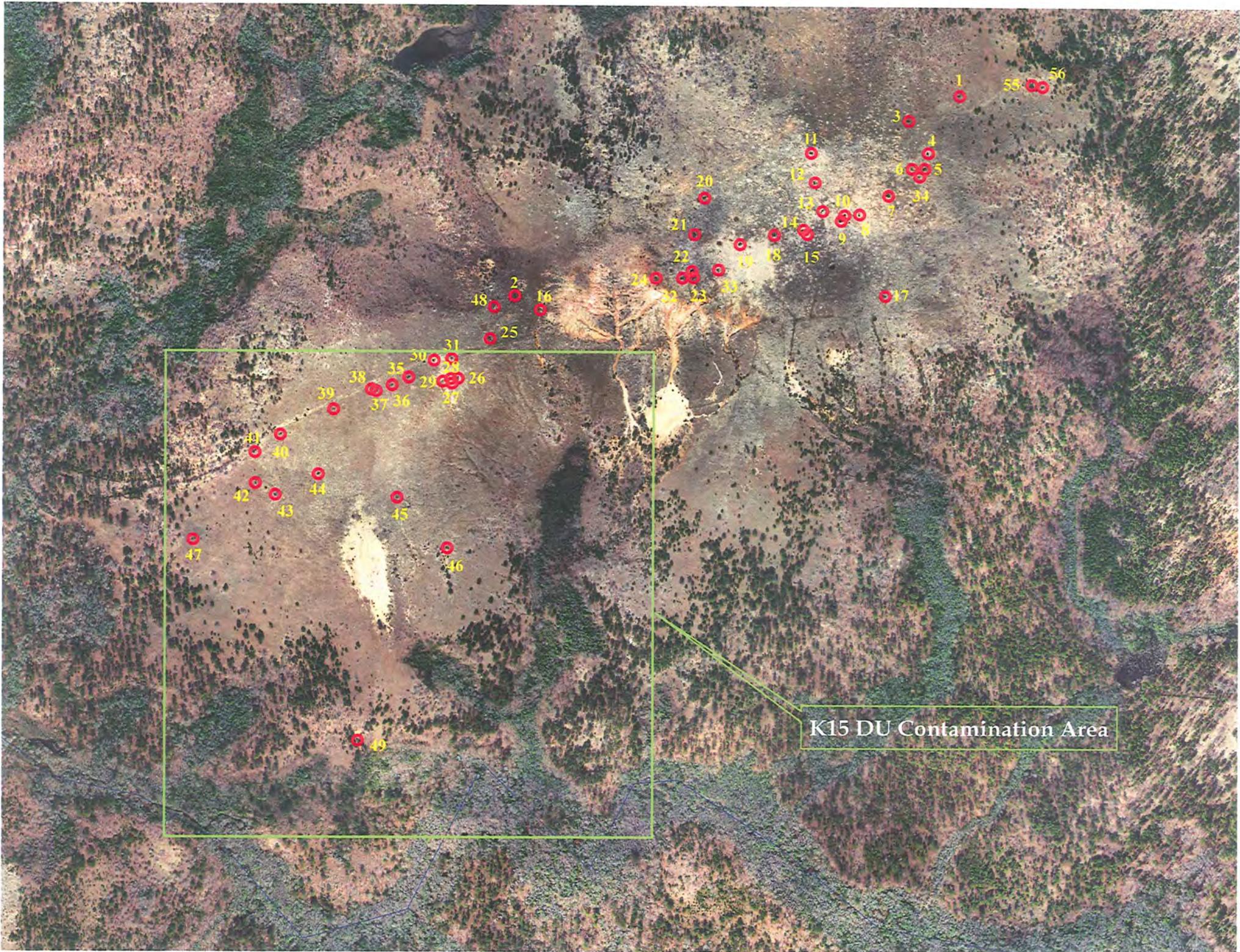
Concord OP
& Fergusson Range

Cactus
DU

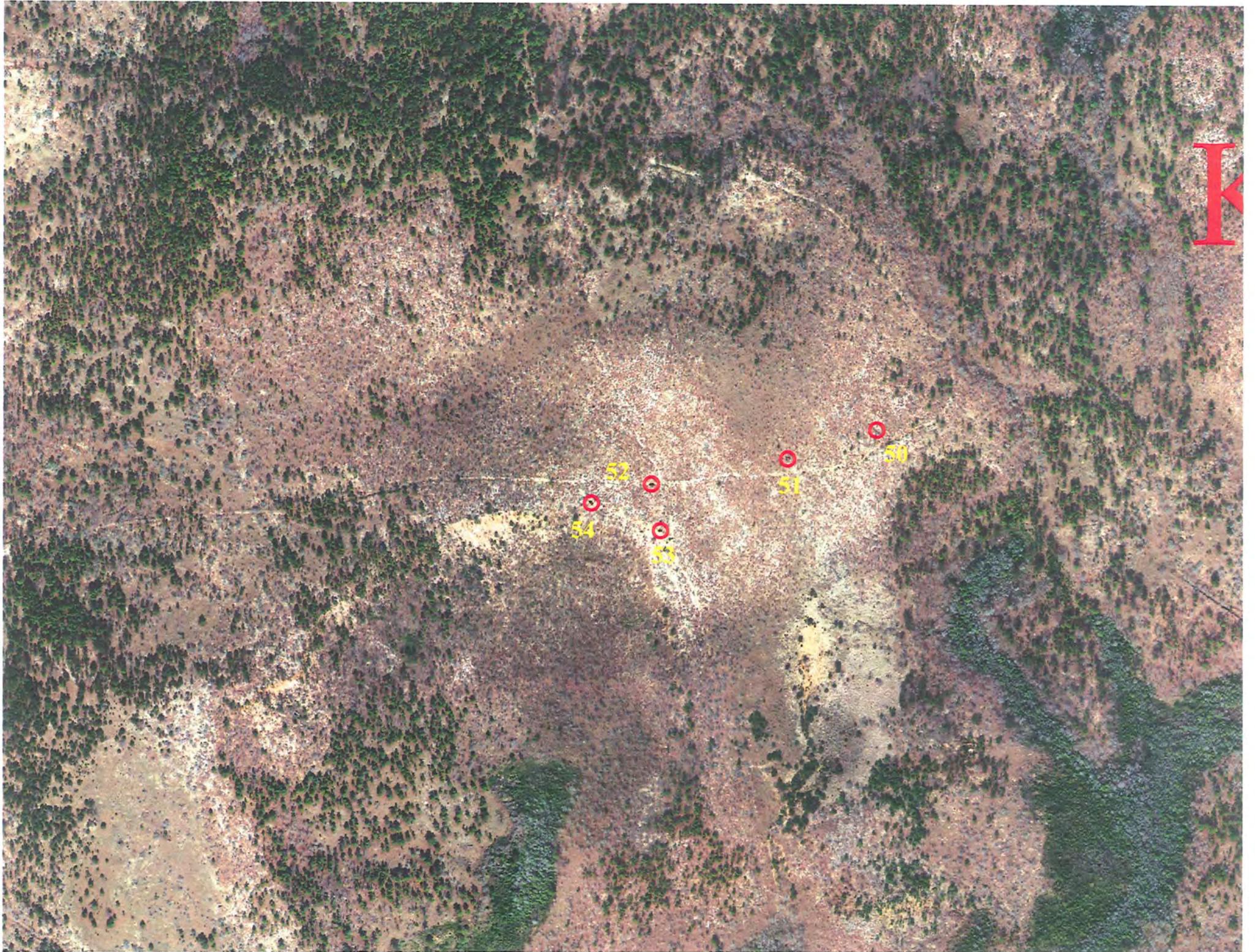
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18





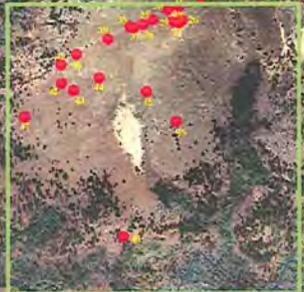
K15 DU Contamination Area



K15

K15 Targets #1 - #56

K15 DU Contamination Area



Pine Knot Creek

Buena Vista Rd

Box Springs Rd

Hartel OP

Hartel OP & Bunkers

Concord OP
Fergusson Range

Concord OP
Fergusson Range

DMPRC

FP 4

FP 207

FP 206

Cactus Rd



Whitson Rd

Cactus

Cactus

FP 210 Range Div Mortars (Log #9-11-13) Roadblock List Oct 1 2013

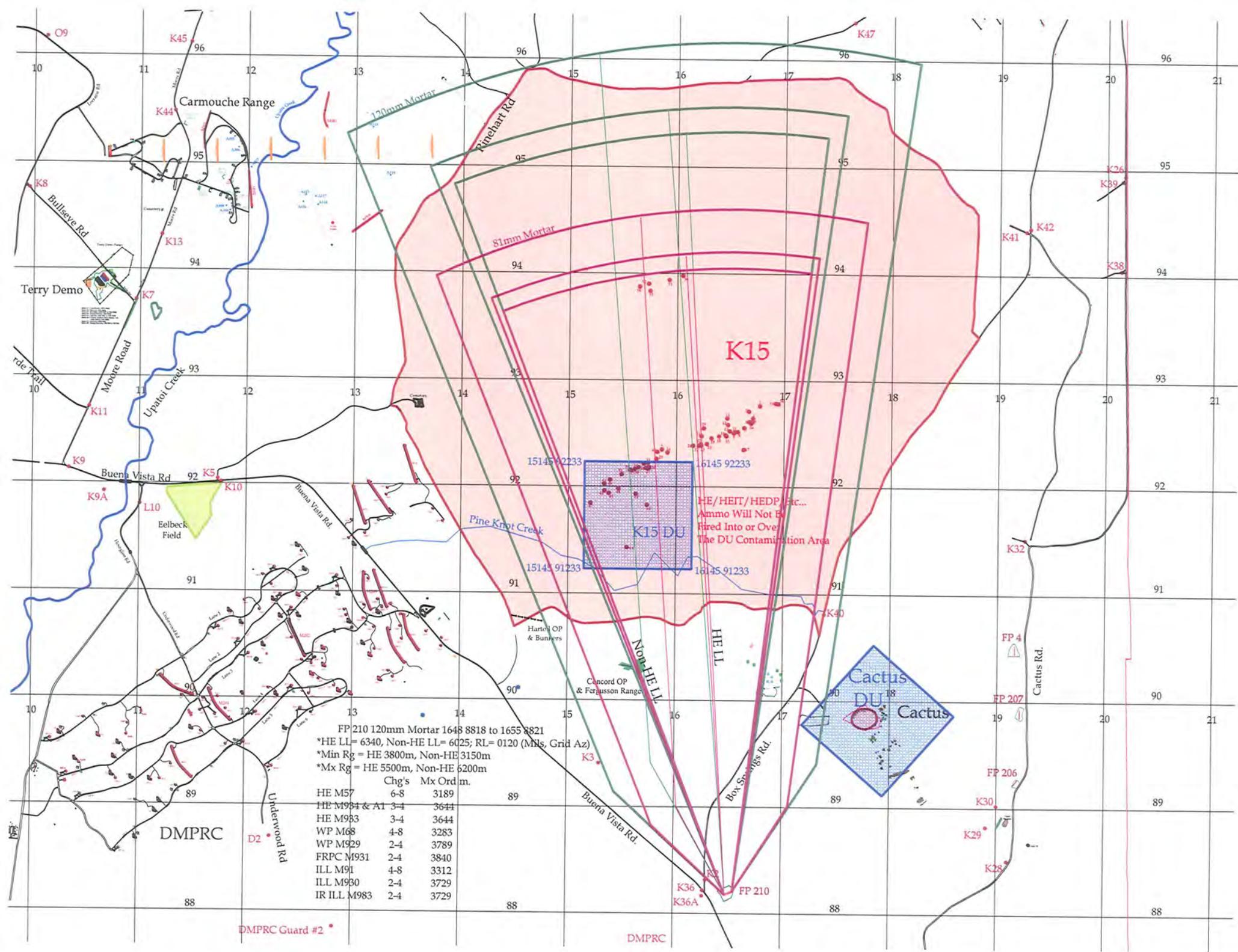
#	GRID	LOCATION	TYPE
K-2	GA 163 883	Across Box Springs Rd 125m N. of its intersection with Buena Vista Rd.	Gate
K-3	GA 153 894	Across entrance road leading to Concord OP 250m N. of its intersection with Buena Vista Rd.	Gate
K-5	GA 117 920	Across Shamanski Rd 25m N. of its intersection with Buena Vista Rd.	Gate
K-7	GA 109 937	Across Moore Rd 15m N. of its intersection with Bullseye Rd.	Cable
K-8	GA 099 947	Across Bulls Eye Rd 50m E of its intersection with Lorraine Road.	Gate
K-9	GA 103 921	Across Buena Vista Rd 40m E of the intersection with Moore Rd (Road Guard Location)	Gate
K-9A	GA 106 919	Across tank trail 200m W of the Upatoi Creek ford site.	Gate
K-10	GA 118 920	Across Buena Vista Rd at K-5 road block.	Gate
K-11	GA 105 927	Across Moore Rd 20m N. of its intersection with Audernarde Trail. Entrance to Terry Demo Rng. (Road guard location)	Gate
K-12	GA 104 988	Across Old Lorraine Road 600m S of the tower on Brooks Range.	Gate
K-13	GA 112 943	Across Moore Rd 680m N. of its intersection with Bullseye Rd.	Gate
K-14	GA 113 998	Across Moore Rd 10m S. of its intersection with Lorraine Rd.	Gate
K-15	GA 114 999	Across course road leading out of Ruth Range 50m E. of its intersection with Moore Rd.	Gate
K-16	GB 190 003	Across Rinehart Rd 130m W. of its intersection with Box Springs Rd.	Gate
K-16A	GA 172 989	Across Rinehart Rd 20m S. of its intersection with the northern boundary range road.	Gate
K-16B	GA 171 990	Across un-named trail 20m S. of its intersection with the northern boundary range road.	Gate
K-17	GB 116 013	Across unnamed trail 15m E. of Moore Rd and 300m N. of Ruth Range tower.	Gate
K-19	GB 121 023	Across unnamed trail 220m N-E. of Oscar Range Complex Road and 30m S of the northern boundary range road.	Gate
K-20	GB 141 021	Across unnamed trail 550m S of the northern boundary range road.	Cable
K-21	GB 139 027	Across the northern boundary range road Aprox 250m East of Cox Creek bridge.	Gate

#	GRID	LOCATION	TYPE
K-26	GA 201 949	Across Boundry Road 1800m S of its intersection with Turrentine Road	Gate
K-27	GA 207 968	Across Turrentine Rd 600m E. of its intersection with Boundary Rd.	Gate
K-28	GA 191 885	Across Whitson Rd 15m W. of its intersection with Cactus Rd.	Gate
K-29	GA 189 888	Across un-named trail on left side of Cactus Range 300m W of Cactus Road	Gate
K-30	GA 190 890	Across un-named trail on right side of Cactus Range 250m W of Cactus Road.	Gate
K-32	GA 192 915	Across Shamanski Road 35m W of its intersection with Cactus Rd.	Gate
K-36	GA 163 883	Across Buena Vista Rd 50m W. of its intersection with Box Springs Rd. (Road guard location).	Gate
K-36A	GA 163 882	Across Tank Trail 50m W. of its intersection with Box Springs Rd.	Gate
K-38	GA 201 941	Across unnamed trail 35m W. of its intersection with the east boundary road. Permanently closed.	Gate
K-39	GA 202 949	Across unnamed trail 15m W. of its intersection with the east boundary road. Permanently closed.	Gate
K-40	GA 174 908	Across Box Springs Rd 30m S. of Pine Knot Creek.	Gate
K-41	GA 192 944	Across Kennesaw Trail 30m W. of its intersection with Box Springs Rd.	Gate
K-42	GA 193 944	Across Box Springs Rd 10m N. of its intersection with Cactus Rd.	Gate
K-43	GA 203 978	Across the northern boundary range road approx 20m N-W. of the old Hastings Range upper baseline.	Gate
K-44	GA 113 955	Across Moore Rd on the N. side of Carmouche Range maneuver box.	Gate
K-45	GA 115 961	Across Moore Rd 300m S. of its intersection with the old Ware Range course road.	Gate
K-46	GA 119 979	Across Moore Rd 725m S. of its intersection with Americo Trail	Gate
K-47	GA 176 963	Across Turrentine Rd 1000m W. of mover 4 on Hastings Range	Gate
K-50	GA 195 988	Across Box Springs Rd 60m N. of its intersection with the northern boundary range road.	Cable

FP's 4, 206 & 207 Range Div Mortars (Log #9-11-13) Roadblock List Oct 1 2013

#	GRID	LOCATION	TYPE	#	GRID	LOCATION	TYPE
K-2	GA 163 883	Across Box Springs Rd 125m N. of its intersection with Buena Vista Rd.	Gate	K-26	GA 201 949	Across Boundry Road 1800m S of its intersection with Turrentine Road	Gate
K-3	GA 153 894	Across entrance road leading to Concord OP 250m N. of its intersection with Buena Vista Rd.	Gate	K-27	GA 207 968	Across Turrentine Rd 600m E. of its intersection with Boundary Rd.	Gate
K-5	GA 117 920	Across Shamanski Rd 25m N. of its intersection with Buena Vista Rd.	Gate	K-28	GA 191 885	Across Whitson Rd 15m W. of its intersection with Cactus Rd.	Gate
K-7	GA 109 937	Across Moore Rd 15m N. of its intersection with Bullseye Rd.	Cable	K-29	GA 189 888	Across un-named trail on left side of Cactus Range 300m W of Cactus Road	Gate
K-8	GA 099 947	Across Bulls Eye Rd 50m E of its intersection with Lorraine Road.	Gate	K-30	GA 190 890	Across un-named trail on right side of Cactus Range 250m W of Cactus Road.	Gate
K-9	GA 103 921	Across Buena Vista Rd 40m E of the intersection with Moore Rd (Road Guard Location)	Gate	K-32	GA 192 915	Across Shamanski Road 35m W of its intersection with Cactus Rd.	Gate
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K-21	GB 139 027	Across the northern boundary range road Aprox 250m East of Cox Creek bridge.	Gate				

Note: These roadblocks are the same for FP's 4, 206 and 207.



Carmouche Range

K15

HE/HEIT/HEDP, Etc...
Ammo Will Not Be
Fired Into or Over
The DU Contamination Area

Cactus
DU
Cactus

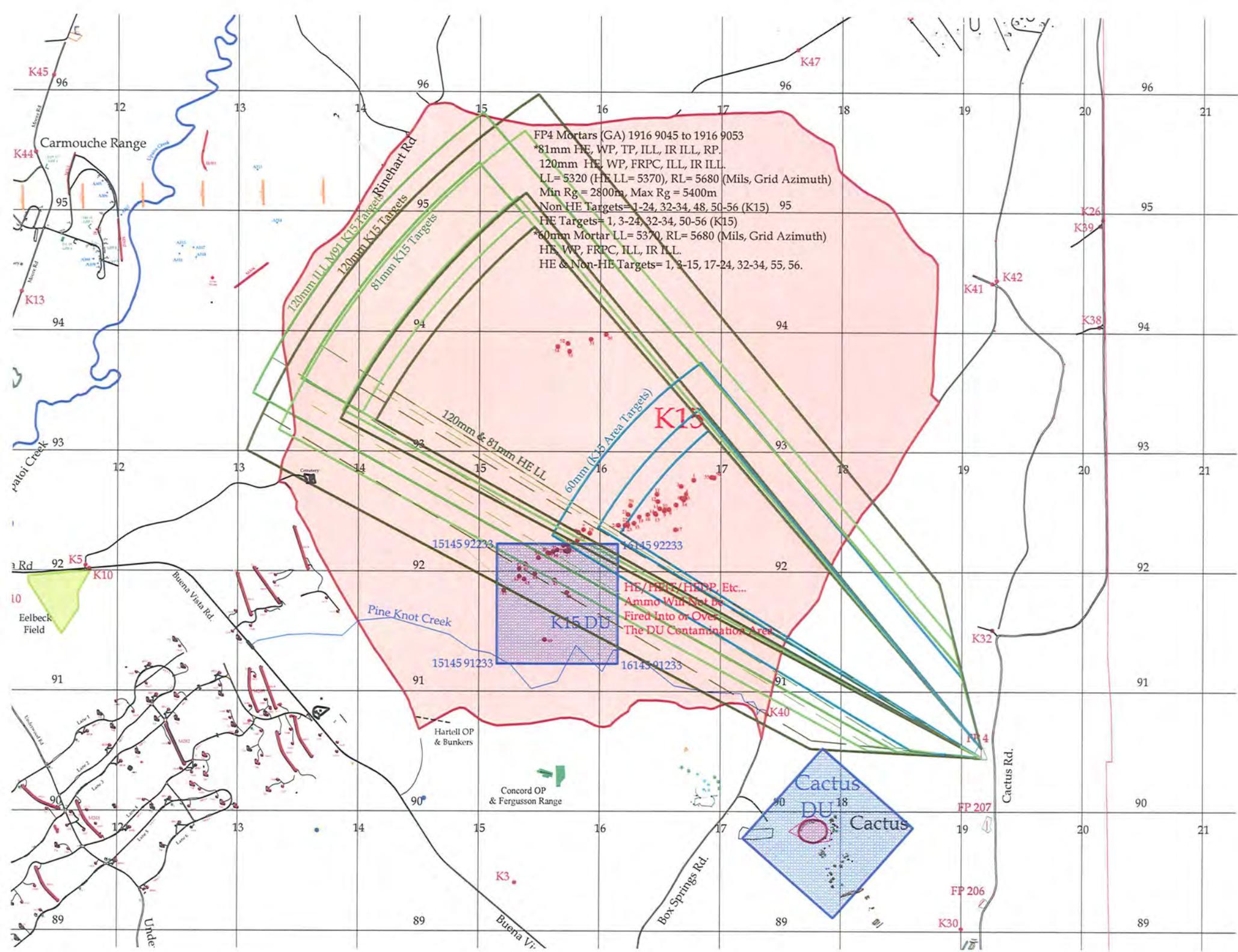
FP 210 120mm Mortar 1648 8818 to 1655 8821
 *HE LL= 6340, Non-HE LL= 6025; RL= 0120 (MNs, Grid Az)
 *Min Rg = HE 3800m, Non-HE 3150m
 *Mx Rg = HE 5500m, Non-HE 5200m
 Chg's Mx Ord m.

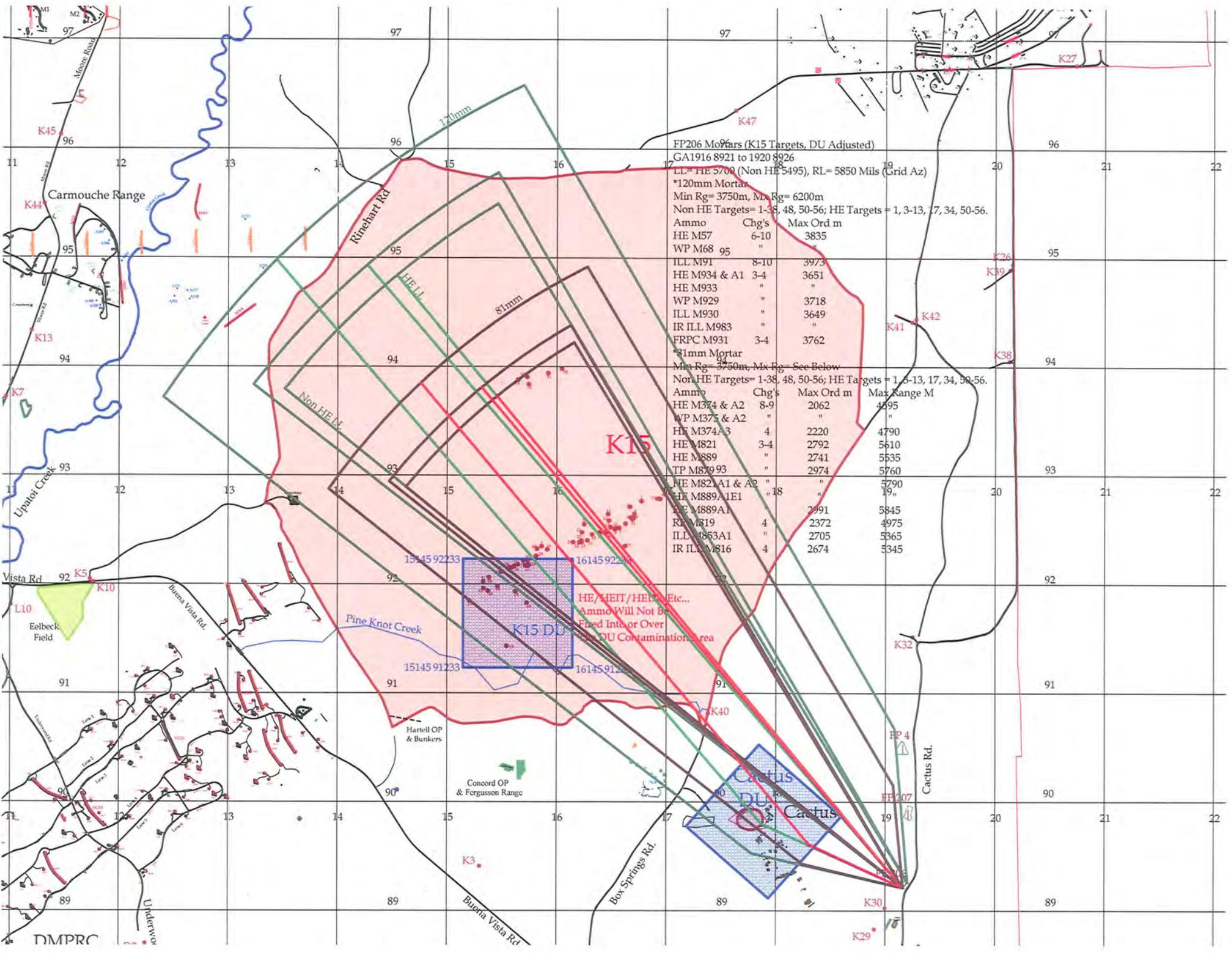
HE M57	6-8	3189
HE M984 & A1	3-4	3641
HE M983	3-4	3644
WP M68	4-8	3283
WP M929	2-4	3789
FRPC M931	2-4	3840
ILL M91	4-8	3312
ILL M930	2-4	3729
IR ILL M983	2-4	3729

DMPRC

DMPRC Guard #2

DMPRC





FP206 Mortars (K15 Targets, DU Adjusted)
 GA1916 8921 to 1920 8926
 LL= HE 5700 (Non HE 5495), RL= 5850 Mils (Grid Az)
 *120mm Mortar
 Min Rg= 3750m, Max Rg= 6200m
 Non HE Targets= 1-3, 48, 50-56; HE Targets= 1, 3-13, 17, 34, 50-56.

Ammo	Chg's	Max Ord m
HE M57	6-10	3835
WP M68	95	"
ILL M91	8-10	3973
HE M934 & A1	3-4	3651
HE M933	"	"
WP M929	"	3718
ILL M930	"	3649
IR ILL M983	"	"
FRPC M931	3-4	3762

*81mm Mortar
 Min Rg= 3750m, Max Rg= See Below

Ammo	Chg's	Max Ord m	Max Range M
HE M374 & A2	8-9	2062	4695
WP M375 & A2	"	"	"
HE M374 A3	4	2220	4790
HE M821	3-4	2792	5610
HE M889	"	2741	5535
TP M87993	"	2974	5760
HE M821 A1 & A2	"	"	5790
HE M889 A1E1	" 18	"	19"
HE M889 A1	"	2991	5845
RP M819	4	2372	4975
ILL M853A1	"	2705	5365
IR ILL M816	4	2674	5345

HE/HEIT/HEB/Etc...
 Ammo Will Not Be
 Fired Into or Over
 this DU Contamination Area