

Final Meeting Minutes

Issued: July 7, 2016

Project: Former Camp Butner Restoration Advisory Board (RAB)

Date: June 1, 2016, 6:30 PM – 8:30 PM

Place: Butner Town Hall
415 Central Avenue
Butner, North Carolina 27509

Attendees:

The table below presents a list of the attendees to the RAB meeting #21, and **Attachment 1** provides the attendance sign-in sheet.

Name	Organization
Ray Livermore	U.S. Army Corps of Engineers (USACE) Wilmington District
Kimberly Vaughn	HydroGeoLogic, Inc. (HGL)
Doug Logan	Granville County Emergency Management
Penny Carpenter	The Butner-Creedmoor News
Jay and Gloria Boone	Local resident (participated by completing right-of-entry)
Marti Morgan	North Carolina Department of Environmental Quality (NC DEQ)
Vicky Cates	Town of Butner (Chairwoman)
Barry Baker	Granville County Planning Department
Tommy Marrow	Town of Butner

Minutes Prepared By: Kimberly Vaughn, HGL

Topic: RAB Meeting # 21

Objectives

The RAB meeting objectives are to discuss the status of the former Camp Butner Formerly Utilized Defense Site (FUDS) project overall. The RAB would like to solicit feedback from the community and stakeholders, and summarize the results of the current Remedial Investigation (RI) project and the next phases of the project.

Introduction

Ms. Vicky Cates called the meeting to order and requested an introduction of all meeting attendees. Mr. Ray Livermore, USACE discussed the status of the former Camp Butner FUDS since the last RAB meeting and reviewed the topics to be discussed this evening.

Remedial Investigation Update

Mr. Livermore summarized that various delays have occurred since the last gathering of the RAB board. Mr. Livermore introduced Kimberly Vaughn, present as the Project Manager for

HGL. Ms. Vaughn presented the slide presentation shown in Attachment 2, supplemented with the figure handouts provided in Attachment 3. The content discussed was as shown in the slide presentation (Attachment 2). Ms. Vaughn reviewed site history to date, the results of the RI field activities, the conclusions and recommendations of the RI project, and the development of boundaries for the munitions and explosives of concern (MEC) contaminated areas. Since the last RAB meeting, there was additional investigation conducted in October 2014, and the results of that investigation were summarized and included in the RI Report. A revised munitions response site (MRS) boundary for the MEC contamination areas is now recommended. The lands that are outside of the MEC contamination area will be called “Five Year Review MRS” where there is a low potential for explosive hazards (MEC) to be present. There were no indications that munitions constituents (MC) contamination is present at the former Camp Butner. The MRSs recommended to go forward to the feasibility study (FS) phase of the project are summarized in the table below. Ms. Vaughn summarized the recommendations that the RI report makes for the MRSs going forward, including the new Hand Grenade Range #2 MRS that was identified during the RI field activities.

Ms. Vaughn summarized that the FS, based on the RI recommendations, will evaluate the different remedies and technologies available. The cost analysis is included in the FS for each alternative that is presented. The best alternative is evaluated in the FS, and the future proposed plan presents a recommended alternative. Those recommendations are presented at a future public meeting for review and comment. The next actions for USACE and HGL on the RI project will be to finalize the FS, proposed plan, and to conduct the proposed plan public meeting. Other items summarized below were discussed specifically, as the slide presentation was reviewed:

- The RAB group discussed that the MRS as discussed thus far in the work plan, during the field activities and in the RI Report will be revised, based on the recommendations of the RI Report.
- MEC contamination was identified with the MRSs investigated
- No MC was detected at levels constituting a risk to human health or the environment; concluding that there is no MC contamination present onsite
- Finalization of the RI report occurred March 2016, with a slip page revision issued in June 2016
- MEC contaminated acreage were recommended to go forward to the FS phase
- A five-year review MRS was also recommended to go forward to the FS phase.

USACE representative, Mr. Livermore, and Ms. Vaughn emphasized that the RAB attendees, and the public, should always be encouraged to follow the “3 Rs” of explosive safety, to: RECOGNIZE military items can be dangerous, RETREAT (Do not touch it!) and move away from the area, and finally to REPORT the item by calling 911.

Summary of RI Recommendations

Munitions Response Site	RI Recommendation for Future MRS	Revised Acreage	Potential MEC Hazards	MC Risk Present	Recommendation
ARNG MRS	MEC-Contaminated Area	1,429	High	No	FS
	Five-Year Review Area	402	Low	No	FS
	Non MEC-Contaminated Area	3,395	Low	No	NFA

Munitions Response Site	RI Recommendation for Future MRS	Revised Acreage	Potential MEC Hazards	MC Risk Present	Recommendation
RC1 MRS	MEC-Contaminated Area	3,901	High	No	FS
	Five-Year Review Area	549	Low	No	FS
	Non MEC-Contaminated Area	8,462	Low	No	NFA
RC2 MRS	MEC-Contaminated Area	4,100	High	No	FS
	Five-Year Review Area	439	Low	No	FS
	Non MEC-Contaminated Area	7,429	Low	No	NFA
FTR MRS		20	Low	No	FS
HGR MRS		25	No	No	HGR MRS
ARNG HGR		6	High	No	ARNG HGR

The schedule moving forward was discussed, following today's RAB Meeting, the meeting minutes will be distributed. The Final RI Report (dated March 2016) and the slip page revision distributed in June 2016, will also be added to the Administrative Record available for the public to review at the library. The next steps will include the Draft through Final versions of the FS (June through August 2016), the Draft through Final Proposed Plan (July to September 2016), and the Proposed Plan Public Meeting (estimated for September 2016), followed by the Draft through Final Decision Documents (September through December 2016). Mr. Livermore reminded the group that the final documentation for the project site is actually approved by the headquarters of the Army, and coordinating that approval does take time, and might extend into 2017.

The group was reminded that the Camp Butner Administrative Record is available at the South Granville County Library, 1550 S. Campus Drive, Creedmoor, North Carolina 27522. The following website was confirmed after the meeting to be the correct website for use by the public to obtain more information on the former Camp Butner and to download reports: <http://www.saw.usace.army.mil/Missions/FormerlyUsedDefenseSites/CampButner.aspx>

Citizen Reported MEC Finds

Mr. Doug Logan provided an estimate of the citizen reported finds that he receives to his department at Granville County Emergency Management. He stated that they are receiving no more than 5 calls per year. They used to receive 5 to 10 calls per year. In the past Fort Bragg would respond to investigate the item. The most recently citizen reported find was near Enon Road and Uzzle Road (discussed as possibly near the Foggy Bottom Hunting Club site) and were two small projectiles. These turned out to be solid, non-explosive rounds (inert, practice). Mr. Livermore also reported to the group that Mike Mercier wanted to develop the Butner museum for the history of the area. A discussion of the recently cleared area near the Foggy Bottom Hunting Club site occurred, and Mr. Baker indicated this cleared area may be where the DOT repaired the existing bridge. This is probably not a development of any new construction site or housing development. This is most likely related to timber logging activities or the bridge repair. Mr. Logan stated that he will send Mr. Livermore more information of where the two practice rounds were located.

Mr. Logan asked Mr. Livermore what is done when the right-of-entry (ROE) for a parcel is refused. Mr. Livermore stated that the USACE policy is to return to the parcel in future to

attempt to get participation. Mr. Livermore stated that the five year reviews that are conducted along with the possibility of land use controls (LUCs) being established at the FS phase, will be part of revisiting the parcels status in future, in case the landowner changes their mind for granting ROE. Ms. Cates asked what type of public relations are performed as part of the five year reviews, is the public alerted through a media announcement or what other publicity is conducted during the five year reviews. Mr. Livermore stated that typically the five year reviews are evaluating whether the chosen remedy is effective, or have site conditions changed. Mr. Livermore noted that the RAB meetings, as they continue, are a good way to capture the community input, or capture changes in the public's interest level in the site. One component of the five year reviews will be to evaluate the community issues and whether land ownership may have changed for certain parcels.

Miscellaneous Topics

Mr. Baker asked how many signs (previously established as warning signs within Camp Butner) are still in place. Mr. Livermore stated that he and Ms. Morgan visited the area on the day of the RAB meeting to review the signage in place and make plans for replacing missing signs. Mr. Livermore stated that about half of the signs have been removed, some probably due to vandalism.

As the only members of the community present, Mr. and Mrs. Boone were asked if they had any particular questions. Mr. and Mrs. Boone stated they felt that the information as presented has answered most of their questions. Mr. Livermore stated that he has, in the past, provided letters to landowners, per their request, with the findings and status of their parcels. Mr. Boone took Mr. Livermore's contact information with him, at the conclusion of the meeting. Mr. Boone may reach out to Mr. Livermore after this meeting, to request such a letter.

Next RAB Meeting

The group discussed the next RAB meeting to be scheduled in September for preparation ahead of the public meeting set for the proposed plan. The schedule for the FS and proposed plan which shall be completed was discussed. A tentative date of September 21 was selected, to place the next RAB meeting on the calendar, timed to coincide with the Proposed Plan public meeting. Ms. Carpenter noted that any articles or media coverage publicizing the meeting should be submitted to the newspaper timely, to make the publication deadlines.

Action Items Include:

- USACE/RAB – Future media release will be arranged for the Proposed Plan/RAB meeting for the community to review and discuss the PP
- *Note:* Following the RAB Meeting, the Butner Creedmoor News issued on June 9, 2016, ran an article reporting on USACE activities, including the RAB Meeting and the current RI/FS project. A copy of the article is included with these meeting minutes as Attachment 4.

Attachment 1, Attendance Sign-In Sheet

**RAB MEETING
ATTENDANCE SIGN-IN SHEET**

Project: former Camp Butner Remedial Investigation / Feasibility Study

Date/Time: June 1, 2016, 6:30 pm

Place: Butner Town Hall, Multi-Purpose Room, 415 Central Avenue, Butner, North Carolina

PRINTED NAME	ORGANIZATION	PHONE NUMBER	Email	Initials
DOUG LOGAN	GRANVILLE COUNTY EMERGENCY MGT.	919-603-1310	doug.logan@granvillecounty.org	D.L.
Romy Carpenter	The Butner-Creedmoor News	919-528-2393	bcnews@mindspring.com	P.C.
Jay + Gloria Boone	N/A resident	919-529-4724	ghboone@gmail.com	JG
Marti Morgan	NC DEQ	(919) 707-8342	martha.morgan@ncdenr.gov	mm
Barry Baker	Granville County Planning	919-603-1334	barry.baker@granvillecounty.org	BB
Tommy Mann	Team of Butner	715-525-2022	tmann@butnernc.org	

**RAB MEETING
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PRINTED NAME	ORGANIZATION	PHONE NUMBER	Email	Initials
Vicky Cates	Butner	919.599.0782	mayorcates@butnernc.org	VVC

Attachment 2 – RAB Meeting Slide Presentation

Former Camp Butner

RAB Meeting - 4
1 June 2016


Remedial Investigation
Update



Anti-tank class at Camp Butner

INTRODUCTION AND OBJECTIVES

**FORMER CAMP BUTNER
REMEDIAL INVESTIGATION**



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Introductions

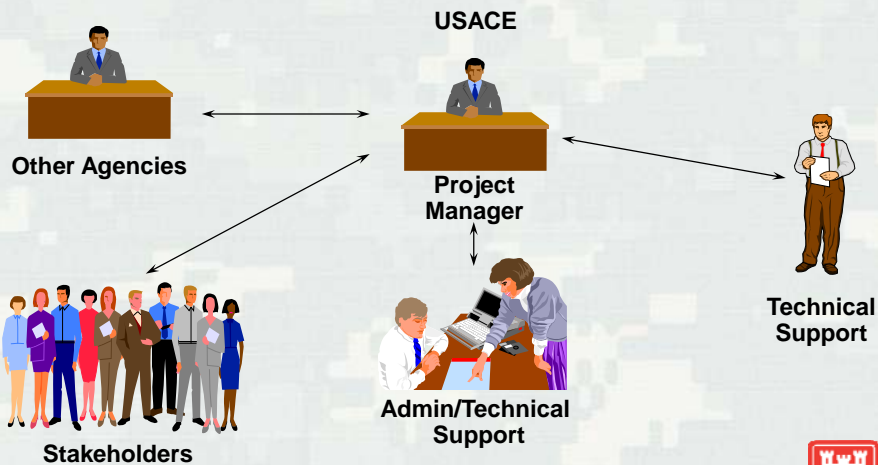
- Government Agencies – Federal, State and Local
 - U.S. Army Corps of Engineers (USACE)
 - North Carolina Department of Environmental Quality (NCDEQ)
- Technical
 - U.S. Army Engineering and Support Center, Huntsville (USAESCH)
 - HydroGeoLogic, Inc. (HGL)
- Stakeholders
 - Restoration Advisory Board Members and concerned citizens



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Project Team Composition



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Key Definitions

MPPEH - Material Potentially Presenting an Explosive Hazard, material that potentially contains explosives or munitions whether it be MEC or MD

MRS - A Munitions Response Site (MRS) is a discrete location within a munitions response area known to require a munitions response

MEC - Munitions and Explosives of Concern-Specific categories of military munitions that may pose unique explosives safety risks. MEC includes unexploded ordnance (UXO), discarded military munitions (DMM), and explosive concentrations of munitions constituents (MC).

MD - Munitions Debris (MD), scrap metal from munitions (no explosive safety risk)

MC - Munitions Constituents-Any materials originating from UXO, DMM, or other military munitions, including explosive and non-explosive materials and emission, degradation, or breakdown elements of such ordnance or munitions.



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Munitions and Explosives of Concern (MEC) Safety



RECOGNIZE

Military items can be
DANGEROUS.

RETREAT

DO NOT TOUCH IT!
Move away from the area.

REPORT

CALL 911.




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PROJECT HISTORY


**FORMER CAMP BUTNER
REMEDIAL INVESTIGATION**



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Site History

- Established 1942
 - 40,384 acres / 23,000 acres of live-fire artillery ranges
- Multiple Previous Investigations
 - Engineering Evaluation / Cost Analysis
 - Removal Actions (both time critical and non-time critical)
- Available historical data incorporated into the GIS for this RI/FS
- Remedial Investigation (this phase)



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RI/FS Project Purpose

- Remedial Investigation (RI) Purpose
 - Determine the nature and extent of MEC and MC across a site
 - Determine potential risks to human health and/or the environment
- Feasibility Study (FS) Purpose
 - Evaluates alternative munitions response options



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MRSs included in Butner RI/FS

See webmap and handouts.



- ▶ Flame Thrower Range (FTR)
- ▶ Hand Grenade Range (HGR)
- ▶ Army National Guard Property (ARNG)
- ▶ Range Complex 1 (RC 1)
- ▶ Range Complex 2 (RC 2)

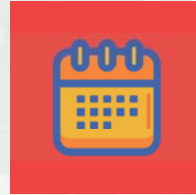


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RI/FS Project to Date

- Final Work Plan September 2012
- Field activities October 2012 through May 2013
- Additional sampling October 2013
- Additional investigation October 2014
- Draft report and revisions, 2015
- Final RI Report March 2016



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Planned Investigation

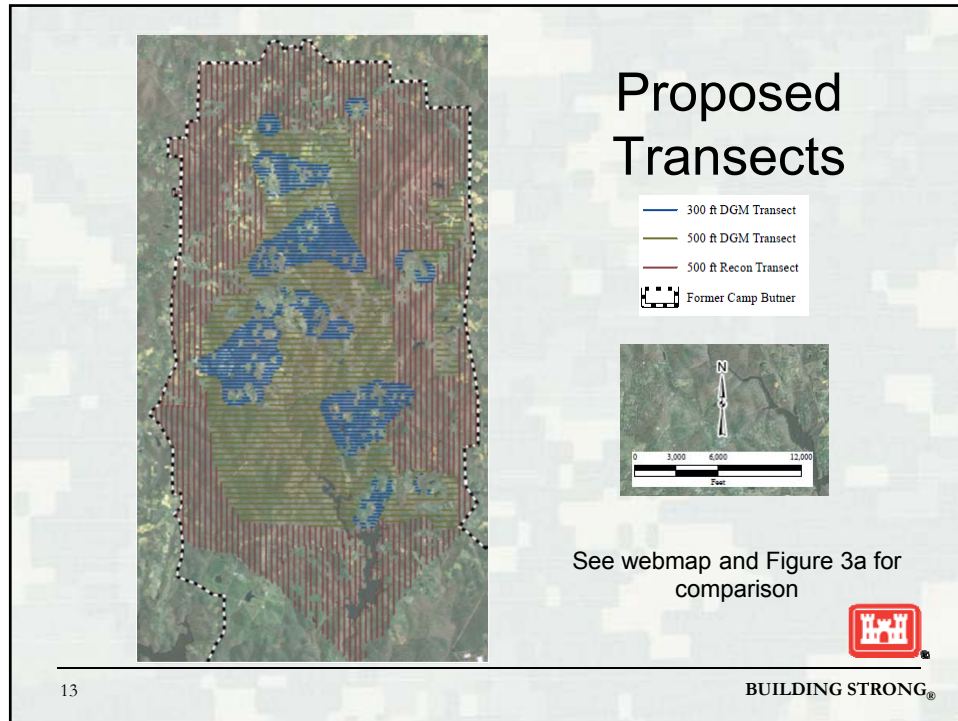
- Geophysical Investigations –
 - Digital Geophysical Mapping (DGM) transects
 - DGM grids (varying sizes)
- Instrument assisted surface reconnaissance transects
- Investigate selected anomalies (targets)
- Evaluate Investigation results and refine (with project team concurrence)

- See webmap



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Planned Approach MC characterization


- 10 incremental sampling methodology (ISM) sampling units (SU) per MRS
- Dependent on ISM surface soil results, conduct additional sampling, if needed
- 10 ISM SUs collected for background (metals)

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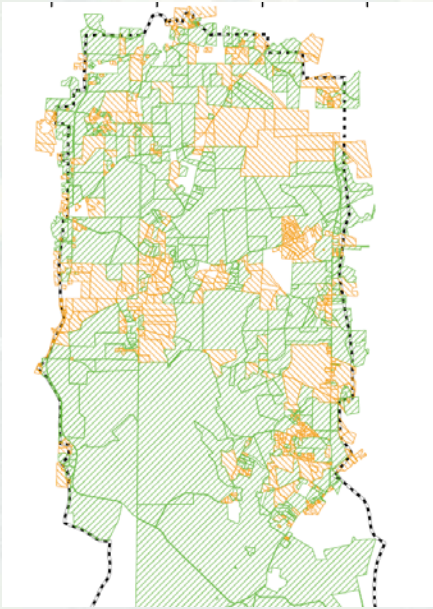
REMEDIAL INVESTIGATION FIELD ACTIVITIES:
RI DATA COLLECTED

**FORMER CAMP BUTNER
REMEDIAL INVESTIGATION**




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ROE Granted



- ROE Granted
- ROE Refused
- Former Camp Butner

See webmap, ROE
Status by Parcel



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Completed Investigation MEC presence confirmed

Table 1.1
Completed RI Field Activities, Proposed and Actual Totals

Activity	Actuals			Proposed			% of Work Plan Proposed Coverage ¹
	RC1 MRS	RC2 MRS	ARNG MRS	RC1 MRS	RC2 MRS	ARNG MRS	
Reconnaissance Transects (miles)	40	48.7	29.2	67	85	29	73%
DGM Density Transects (miles)	68	69.4	49.3	110	98	52	76%
DGM Survey Grids	62	101	89	158	133	77	77%
DGM Grids Intrusive ²	62	91	89	158	133	77	75%
Analog Intrusive Grids ³	28	13	NA				
RI met applicable DQOs for areas where ROE were granted ⁴	Yes	Yes	Yes				

1 - Less than 100% due to ROE refusals from landowners

2 - DGM was conducted but not intrusively investigated in 10 RC2 MRS grids because access was refused by landowner.

3 - The quantity of analog intrusive grids cannot be estimated during the work plan stage, prior to the field activities, as the specific landowner restrictions on brush cutting are unknown during the work plan stage.

4 - DQOs applicable to each MRS are listed in Table 3.4.

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MC Investigation

- Ten ISM soil samples each were collected from RC1 MRS and RC2 MRS.
- Eleven ISM soil samples were collected from the ARNG MRS. (1 additional at the new Hand Grenade Range MRS)
- Ten ISM soil samples were collected from outside the MRA boundary, to be representative of ambient soil conditions.
- No risks to human health or ecological receptors was identified during the MC investigation
- Samples collected in biased locations
 - Areas where MEC and/or large quantities of MD were found
 - Areas of high anomaly density


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See webmap

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**REMEDIAL INVESTIGATION SUMMARY AND
RECOMMENDATIONS**



**FORMER CAMP BUTNER
REMEDIAL INVESTIGATION**



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RI Findings – ARNG HGR

- During the investigation outside the interpreted impact areas a previously unknown hand grenade range was identified :
 - ▶ Army National Guard Hand Grenade Range (ARNG HGR).
- 39 anomalies were investigated, and 5 MkII hand grenades were discovered.



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RI Findings – ARNG HGR (cont.)

- Eight additional analog transects were conducted, and trenches were identified.
- ARNG HGR was delineated and recommended in the RI as a new MRS.



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RI Results – ARNG MRS

- A total of 1,382 targets were selected for intrusive investigation; 6 targets resulted in MEC items, 657 were MD items, and 475 were miscellaneous farm debris.
- MEC items included:
 - 60mm HE Mortar, Mk II Hand Grenades
- Material Potentially Presenting an Explosive Hazard (MPPEH) found included:
 - M70 57mm AP-T projectile, M2 3.25-inch AA Target Rocket



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MEC Located and Destroyed

MEC ID	Anomaly ID (if applicable)	Nomenclature	Type	Date Found	Date Destroyed	MEC	MD
ARNG-001	ARNG 11-43	M48	60mm HE Mortar	3/22/13	3/22/13	X	
ARNG-002	ARNG 14-18	M49	60mm HE Mortar	4/2/13	4/2/13	X	
ARNG-003	NA	M70	57mm AP-T projectile	4/4/13	4/18/13		X
ARNG-004	ARNG 13-05	M2	3.25-inch AA Target Rocket	4/17/13	4/18/13		X
ARNG-005	ARNG 82-16	Mk II	Hand Grenade, HE	4/25/13	4/25/13	X	
ARNG-006	NA	Mk II	Hand Grenade, HE	4/25/13	4/25/13	X	
ARNG-007	NA	Mk II	Hand Grenade, HE	4/25/13	4/25/13	X	
ARNG-008	NA	Mk II	Hand Grenade, HE	4/25/13	4/25/13	X	



04-02-2013 – ARNG-002, M49, 60mm HE Mortar, fuzed; discovered by HGL Team 1 while intrusively investigating grid ARNG-14.

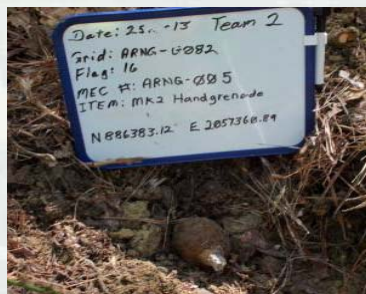


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See also webmap, Figure 1

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MEC Located and Destroyed



04-25-2013 – ARNG-005, Mk II Hand Grenade; discovered by HGL Team 2 while investigating grid ARNG-082.



04-25-2013 – ARNG-008, Mk II Hand Grenade; discovered by HGL Team 2 while investigating grid ARNG-082.



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RI Results – RC1 MRS

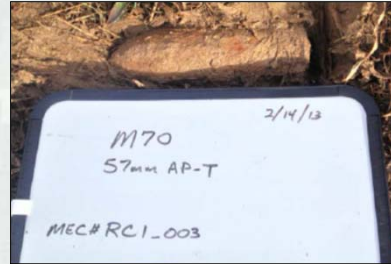
- A total of 749 targets were selected for intrusive investigation; 1 target resulted in a MEC item found (2.36-inch rocket warhead), 243 were MD items, and 283 were miscellaneous farm debris.

Two other MEC items were found during other operations.

MEC items included:

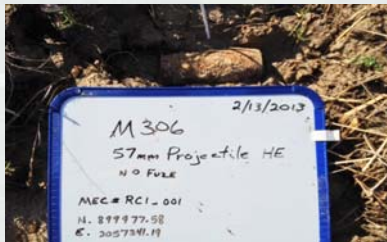
M306 57mm HE projectile, M70 57mm AP-T projectile, and

- MPPEH found included:
 - M70 57mm AP-T projectile, M2 3.25-inch AA Target Rocket



MEC Located and Destroyed

MEC ID	Anomaly (if applicable)	Nomenclature	Type	Date Found	Date Destroyed	MEC	MD
RC1-001	NA	M306	57mm HE projectile	2/13/13	2/14/13	X	
RC1-002	NA	M306	57mm HE projectile	2/14/13	2/14/13	X	
RC1-003	NA	M70	57mm AP-T projectile	2/14/13	2/14/13		X
RC1-004	NA	M6	2.36-inch Rocket Warhead	5/16/13	5/16/13	X	



02-13-2013 – RC1-001, M306, 57mm HE Projectile, unfuzed; located by AMEC crew laying on the surface at the Carrington parcel



RI Results – RC2 MRS

- A total of 1,303 targets were selected for intrusive investigation; 2 targets resulted in a MEC item found, 818 were MD items, and 483 were cultural debris or miscellaneous false positives or no finds.
- MEC items included:
 - ▶ M107 155mm HE projectile, and M63 37mm projectile



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MEC Located and Destroyed

MEC ID	Anomaly (if applicable)	Nomen-clature	Type	Date Found	Date Destroyed	MEC	MD
RC2-001	NA	M107	155mm HE projectile	4/15/13	4/15/13	X	
RC2-002	RC2 019-16	M63 Mod 1	37mm Projectile, TP	5/1/13	5/1/13	X	
RC2-003	RC2 106-12	M63 Mod 1	37mm Projectile, TP	5/15/13	5/15/13	X	



05-01-2013 – RC2-002, M63 Mod 1, 37mm TP Projectile; discovered by HGL Team 2 during intrusive investigation operations in grid RC2-019 at Philip Robbins' property.

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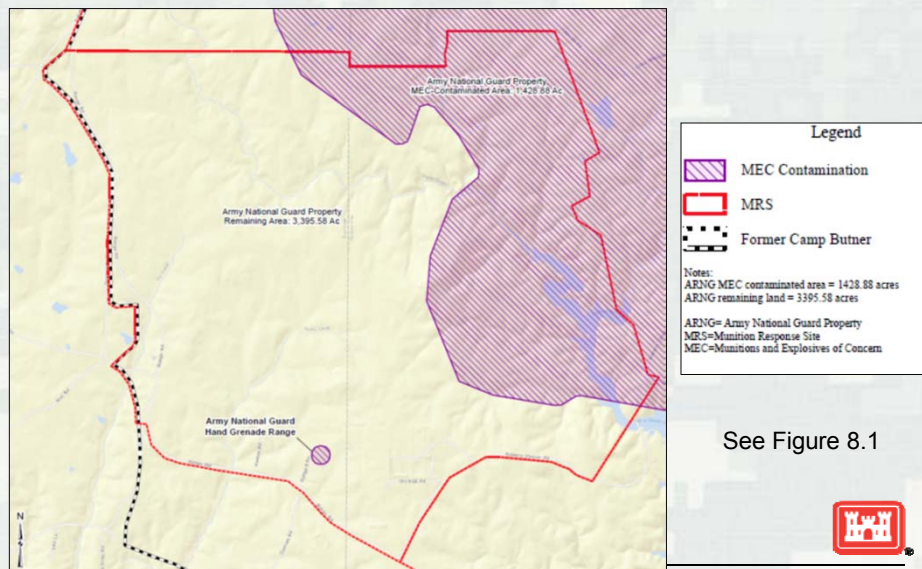
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MEC-Contaminated Area

- The extent of MEC contamination at each MRS was determined based on the RI results.
- MEC contamination was identified in the ARNG MRS, RC1 MRS, RC2 MRS, and the HGR MRS.
- The RI results were used to define MEC-contaminated areas for revision to the current MRS boundaries and to support the development and execution of potential remedial alternatives as part of the recommended FS.

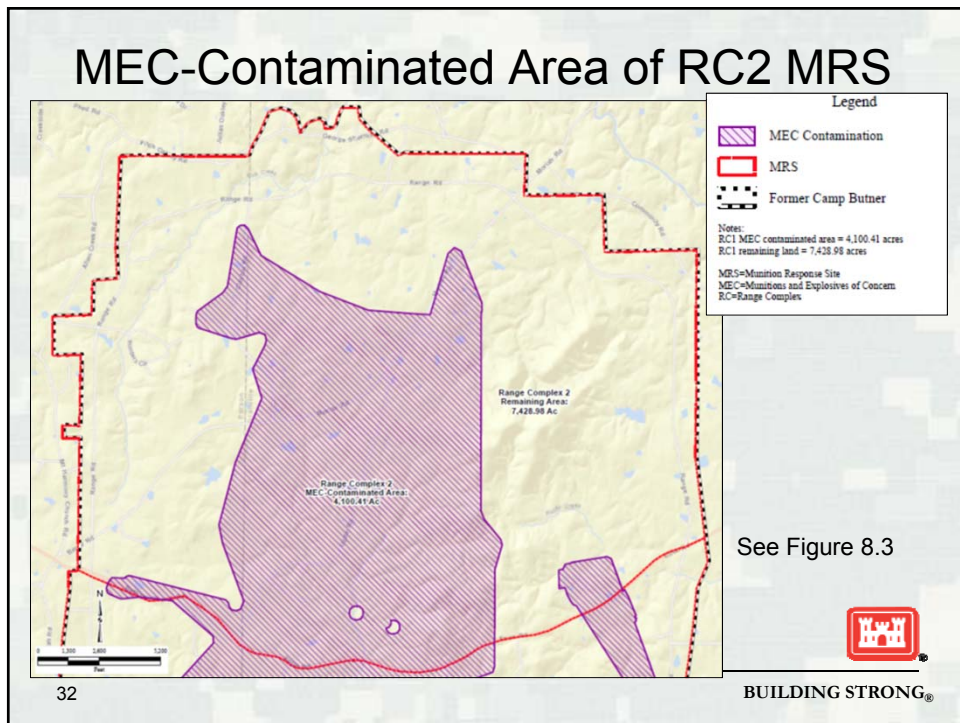
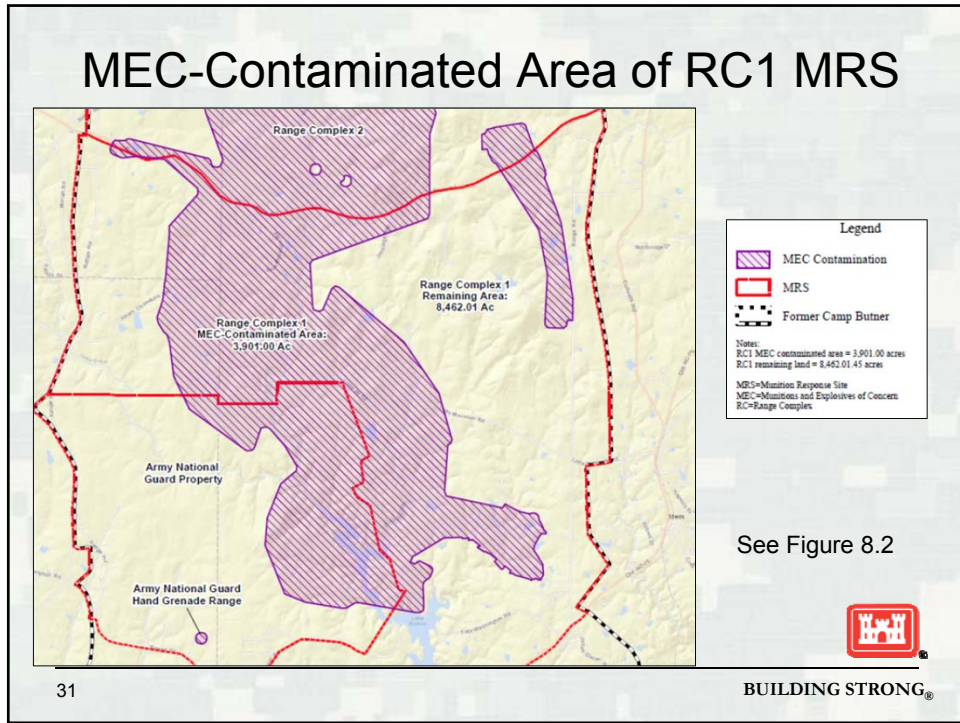


MEC-Contaminated Area of ARNG MRS



See Figure 8.1





RI Conclusions and Recommendations

- MEC contamination was identified within the MRSs investigated and poses explosive hazards to current and future receptors.
- No MC was detected at levels constituting a risk to human health or the environment, indicating there is no MC contamination.
- Portions of each MRS investigated, with the exception of HGR MRS, are recommended for inclusion in an FS to develop potential remedial alternatives capable of reducing the site hazards to acceptable levels.



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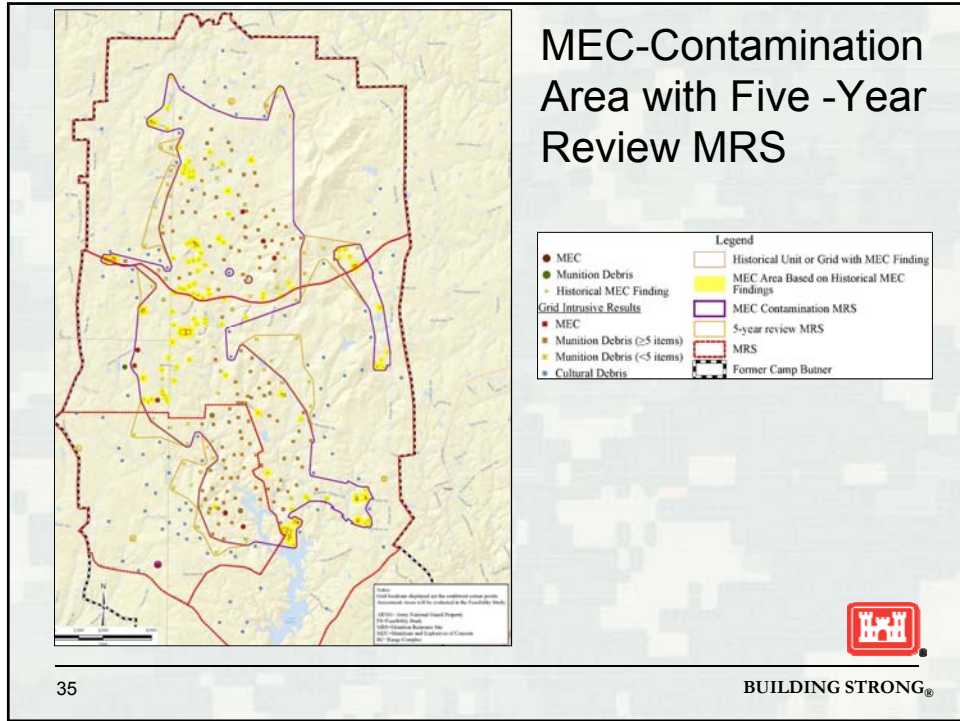
RI Recommendations (cont.)

- A Five-Year Review MRS was recommended in the RI to go forward for FS evaluation.
- The Five-Year Review MRS is made up of the portions of each MRS (as applicable) where minor amounts of munitions debris only was identified.



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RI Recommendations (cont.)

Munitions Response Site	RI Recommendation for Future MRS	Revised Acreage	Potential MEC Hazards	MC Risk Present	Recommendation
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HGR MRS		25	No	No	NFA
ARNG HGR		6	High	No	FS

FS = Feasibility Study
NFA = No Further Action

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MRSs Recommended for FS For MEC Hazards only

- Feasibility study recommended for the following MRS:
 - ▶ MEC Contaminated Area
 - ▶ Remaining Lands Area
 - ▶ FTR MRS
 - ▶ ARNG Hand Grenade Range
- No Further Action
 - ▶ HGR MRS



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Feasibility Study

- Based on the RI recommendations
 - ▶ Incorporates land use data
 - ▶ Different remedies and technologies are explored and screened
 - ▶ A cost analysis is done for each alternative presented
 - ▶ The best alternative is evaluated and the proposed plan presents a recommended alternative
 - ▶ Recommendations will be presented at a public meeting




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CLOSING AND ACTION ITEMS REVIEW


**FORMER CAMP BUTNER
REMEDIAL INVESTIGATION**



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Moving Forward - Schedule

- RAB Meeting #4 (today)
- Final RI Report (March 2016)
- Draft through Final FS (June through August 2016)
- Draft through Final Proposed Plan (July to September 2016)
- Proposed Plan Public Meeting (September 2016)
- Draft through Final Decision Document (September through December 2016)

Overlap reviews of draft documents with other deliverables




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Review of MEC Safety



RECOGNIZE

Military items can be
DANGEROUS.

RETREAT

DO NOT TOUCH IT!
Move away from the
area.

REPORT

CALL 911.



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How to Obtain More Information

Camp Butner Administrative Record

South Granville County Library
1550 S. Campus Drive
Creedmoor, North Carolina 27522

Public Affairs Office

U.S. Army Corps of Engineers–Wilmington District
69 Darlington Avenue
Wilmington, North Carolina 28403
(910) 251-4626

Website

<http://www.saw.usace.army.mil/Missions/FormerlyUsedDefenseSites/CampButner.aspx>



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Action Items Review and Closing



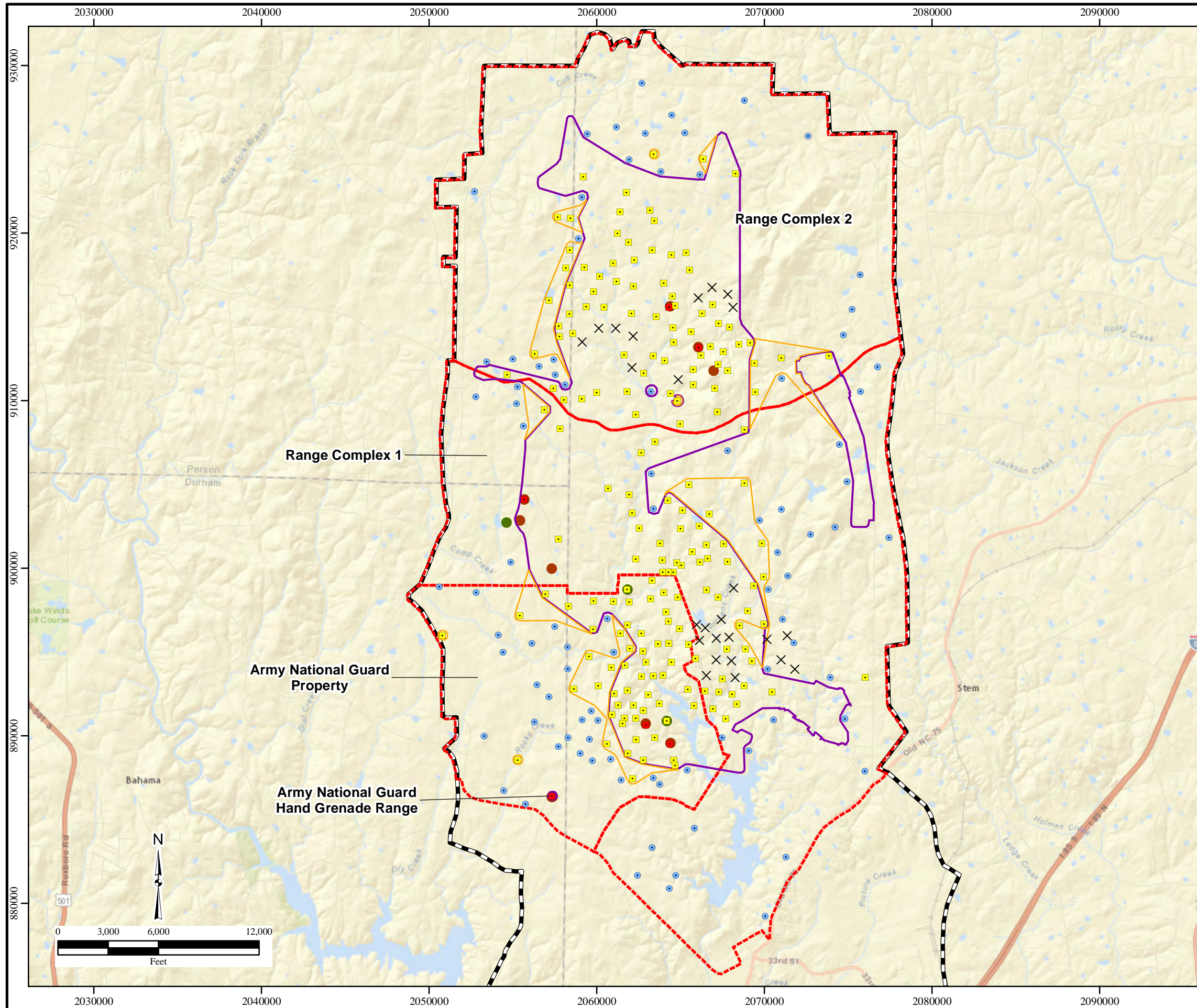
Questions?

RC2-001, M107, 155mm HE Projectile



Attachment 3 – RAB Meeting Handouts

Figure 1
Remedial Investigation
MEC Delineation



Legend

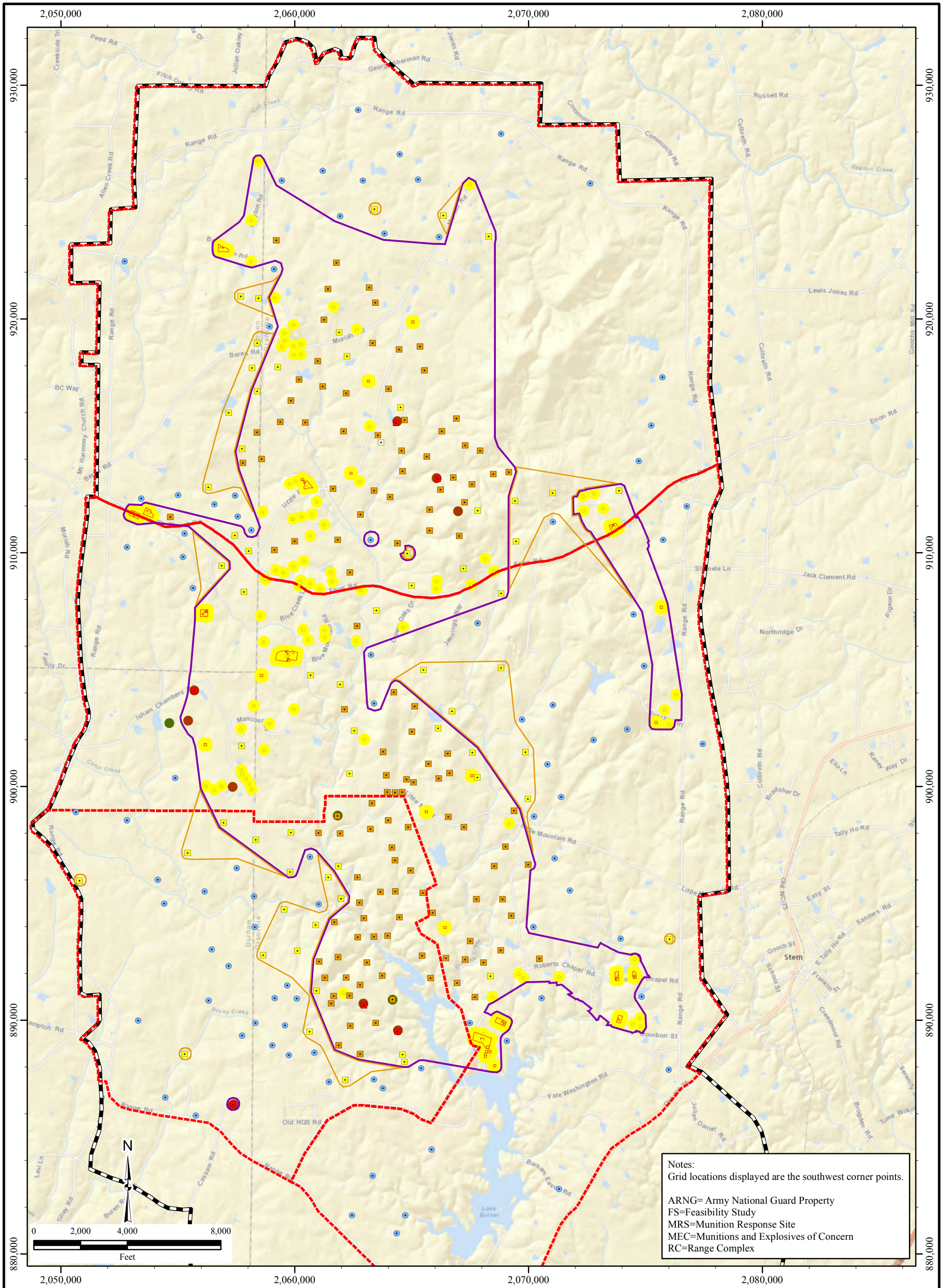
- MEC
- Muniton Debris
- Grid Intrusive Results**
- MEC
- Muniton Debris
- Cultural Debris
- × Access Refused
- MEC Contamination To Be Investigated in FS
- To Be Investigated in FS
- MRS
- Former Camp Butner

Notes:
Grid locations displayed are the southwest corner points.
ARNG MRS MEC-Contaminated Area = 1429.19 acres
ARNG MRS 5-Year Review Area = 402.20 acres
ARNG MRS not MEC-Contaminated Area = 3395.27 acres
RC1 MRS MEC-Contaminated Area = 3900.99 acres
RC1 5-Year Review Area = 549.46 acres
RC1 MRS not MEC-Contaminated Area = 8462.03 acres
RC2 MRS MEC-Contaminated Area = 4100.45 acres
RC2 5-Year Review Area = 439.28 acres
RC2 MRS not MEC-Contaminated Area = 7428.94 acres

ARNG=Army National Guard Property
FS=feasibility study
MRS=Muniton Response Site
MEC=Munitons and Explosives of Concern
RC=range complex

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(1)MEC_Delineation.mxd
7/23/2015 MB
Source: HGL, USACE
ESRI Online Aerial Imagery





\\Gst-srv-01\hglgis\Camp_Butner_MSIW\FS\02)Proposed_MRSs.mxd
 7/23/2015 CNL
 Source: HGL, USACE
 ArcGIS Online Imagery

Legend	
● MEC	 Historical Unit or Grid with MEC Finding
● Munition Debris	 MEC Area Based on Historical MEC Findings
● Historical MEC Finding	 MEC Contamination MRS
Grid Intrusive Results	 5-year review MRS
■ MEC	 MRS
 Munition Debris (≥5 items)	 Former Camp Butner
 Munition Debris (<5 items)	
● Cultural Debris	











Figure 2
Feasibility Study
Proposed MRSs

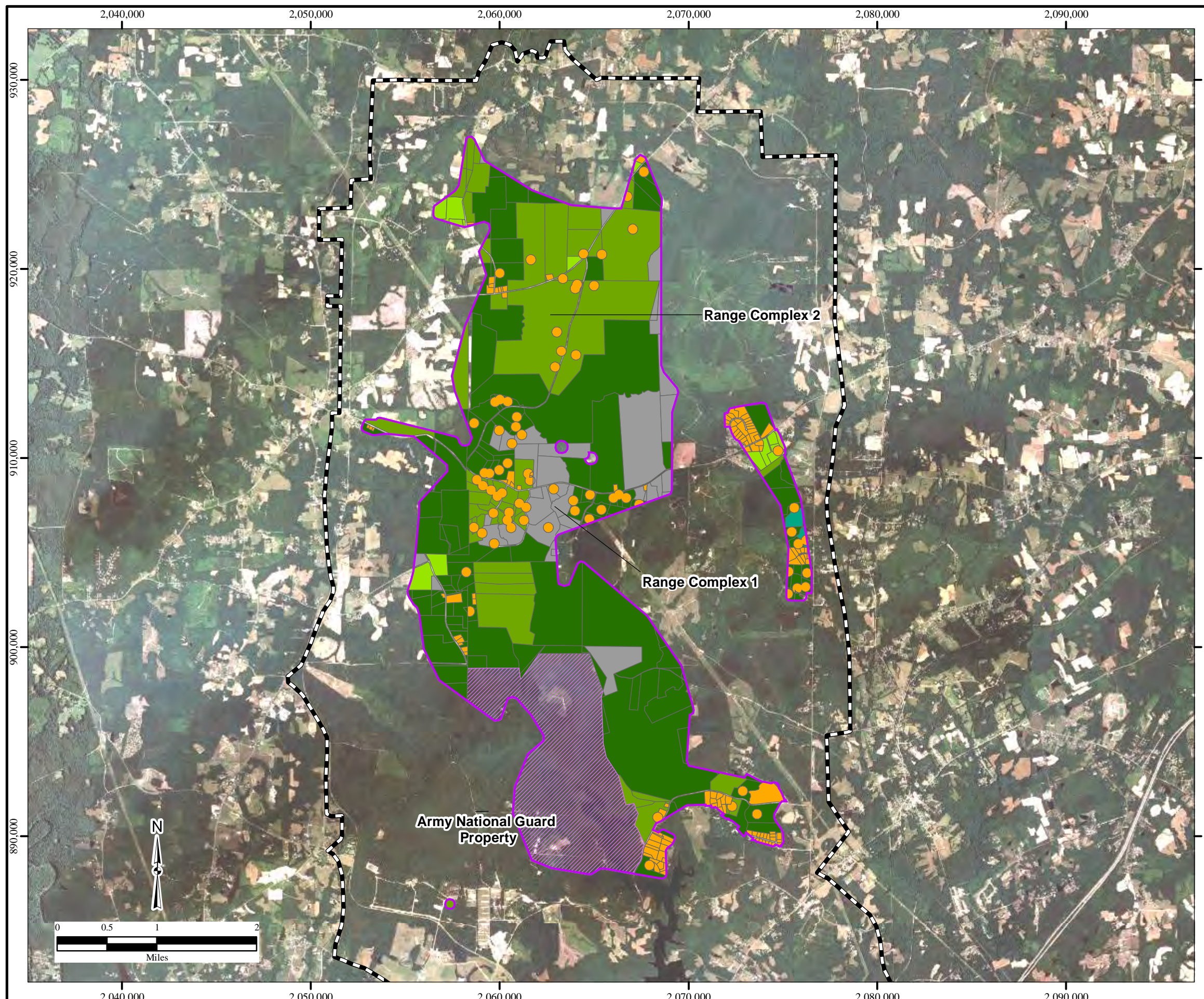


Figure 3
Land Use Within
MEC Contaminated Area

Legend

Land Use / Land Cover

-  Agriculture - Cropland
-  Agriculture - Timber/Cropland
-  Agriculture - Timber
-  Agriculture - Timber/Water
-  Residential
-  Military Use
-  Undeveloped/Wooded
-  Parcel
-  MEC Contamination Area
-  Former Camp Butner



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LandUse_MEC_Contam_Area.mxd
7/23/2015 MB
Source: HGL, USACE, USGS LU/LC



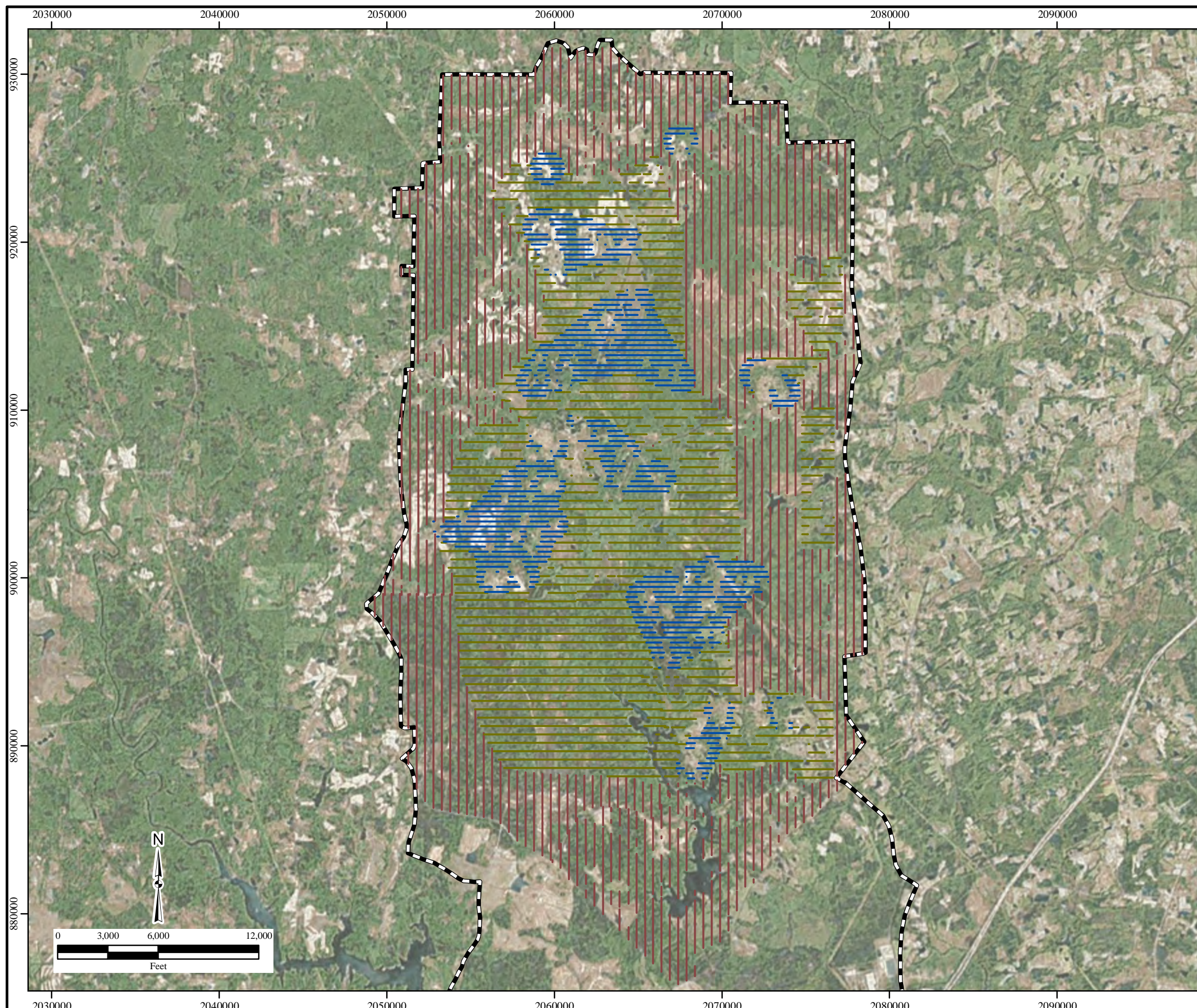
Figure 3.1a
Proposed Transect Paths
Work Plan

Legend

-  300 ft DGM Transect
-  500 ft DGM Transect
-  500 ft Recon Transect
-  Former Camp Butner

Notes:
DGM=digital geophysical investigation
RI=remedial investigation

Transects are spaced at 300ft in areas where 37mm projectiles have been found. Transects are spaced at 500ft in all other areas. Non-intrusive DGM transects will be used to determine the extent of areas with elevated anomaly concentrations. After initial transect investigation, grids will be placed to define nature of anomalies. DGM Grids will placed at 20% of DGM Transect acreage and intrusively investigated. DGM Grids will also be placed in areas where TEC Historical Analysis is not covered by DGM Transects at rate of 3% of the TEC acreage. Reconnaissance Transects will be non-intrusive, instrument assisted transects to verify the absence of MEC use. Areas presently characterized will not be investigated.






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(3-01a)Prop_Transects.mxd
1/7/2015 CNL
Source: HGL, USACE
ESRI Online Aerial Imagery



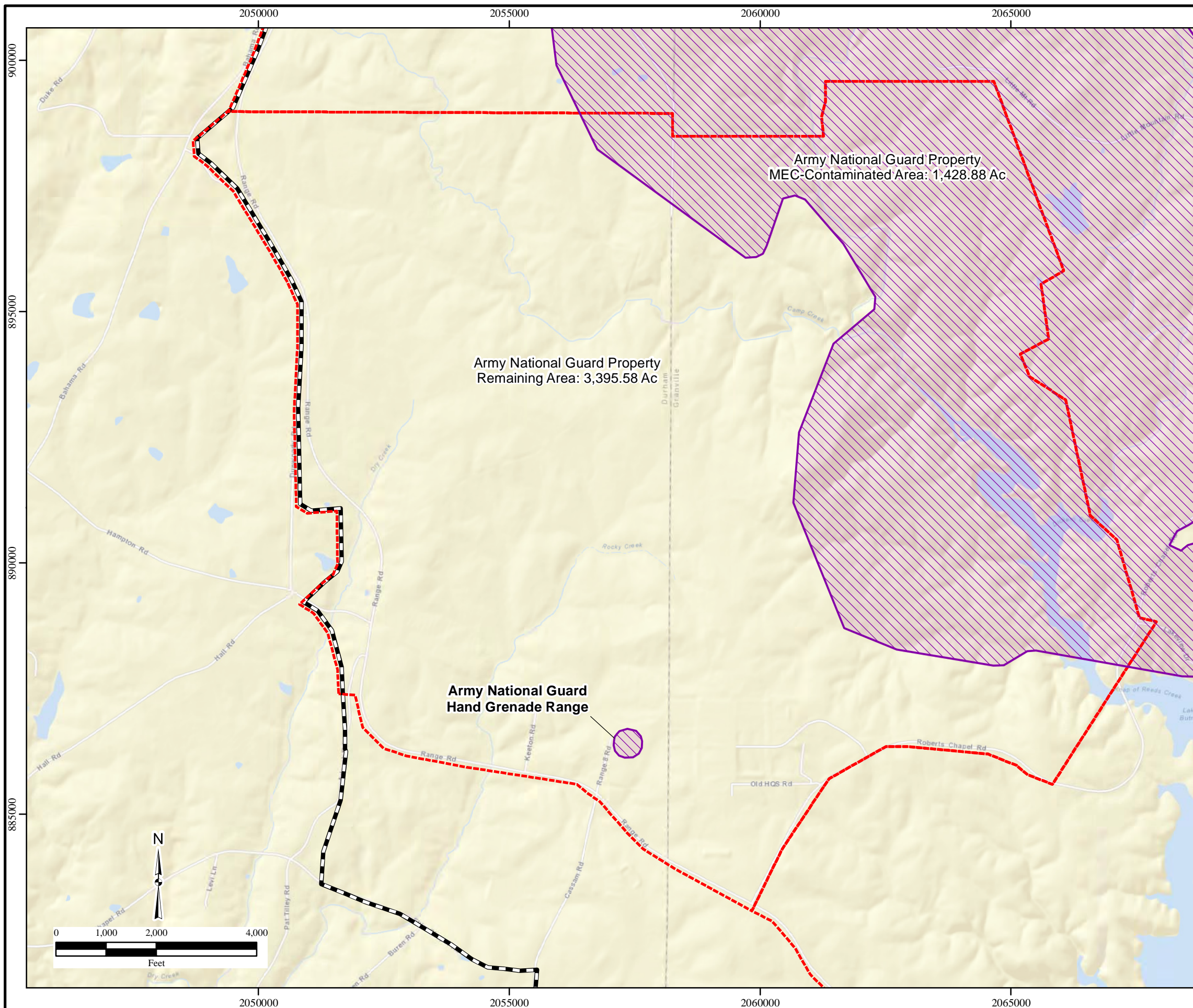
Figure 8.1
MRS Recommended
for Feasibility Study
ARNG MRS

Legend

-  MEC Contamination
-  MRS
-  Former Camp Butner

Notes:
ARNG MEC contaminated area = 1428.88 acres
ARNG remaining land = 3395.58 acres

ARNG= Army National Guard Property
MRS=Munition Response Site
MEC=Munitions and Explosives of Concern






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(8-01)ARNG_Delineation_HATCH.mxd
5/24/2016 CNL
Source: HGL, USACE
ArcGIS Online Streetmap



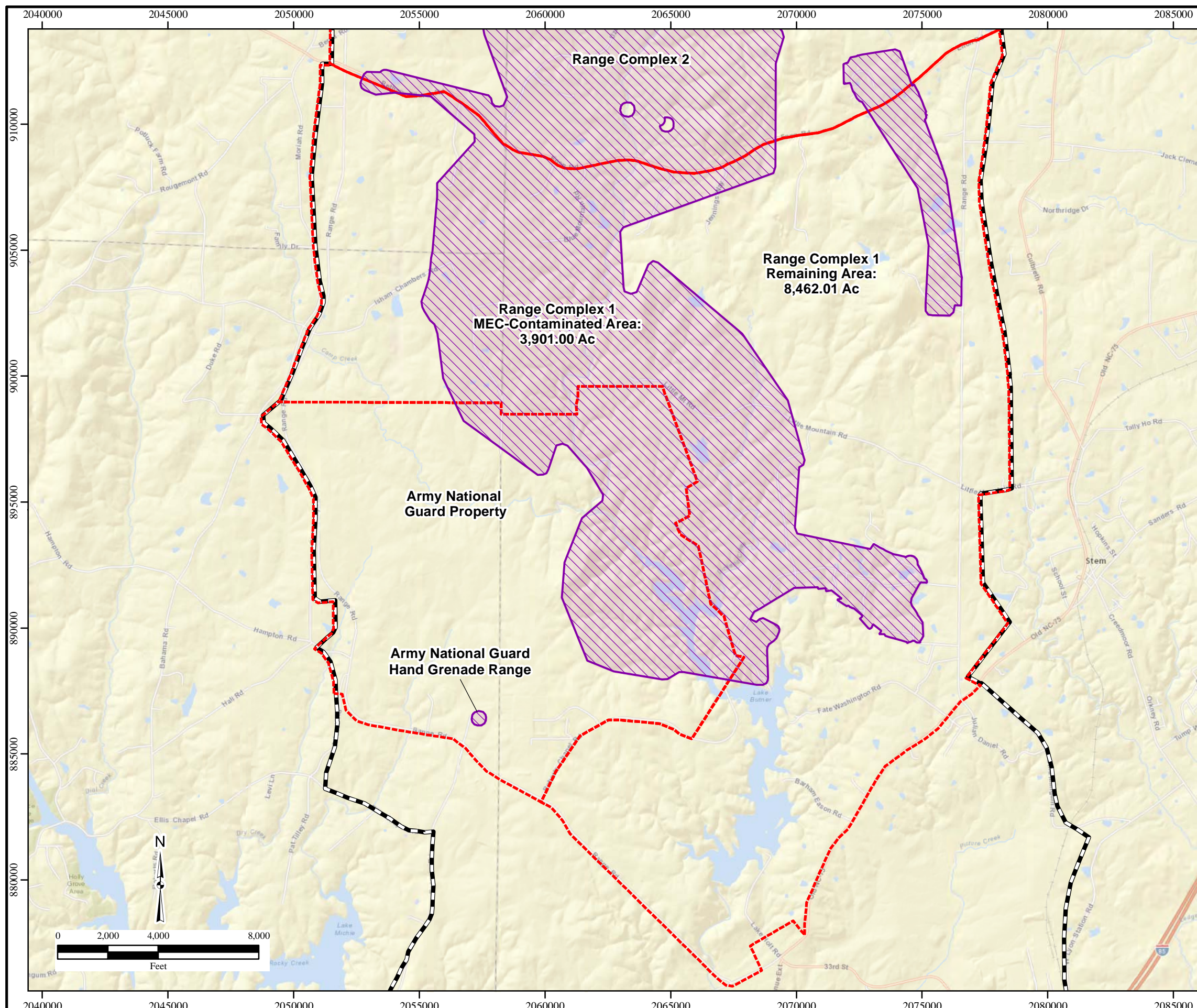
Figure 8.2
MRS Recommended
for Feasibility Study
RC1 MRS

Legend

-  MEC Contamination
-  MRS
-  Former Camp Butner

Notes:
RC1 MEC contaminated area = 3,901.00 acres
RC1 remaining land = 8,462.0145 acres

MRS=Munition Response Site
MEC=Munitions and Explosives of Concern
RC=Range Complex






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(8-02)RC1_Delineation_HATCH.mxd
5/24/2016 CNL
Source: HGL, USACE
ArcGIS Online Streetmap



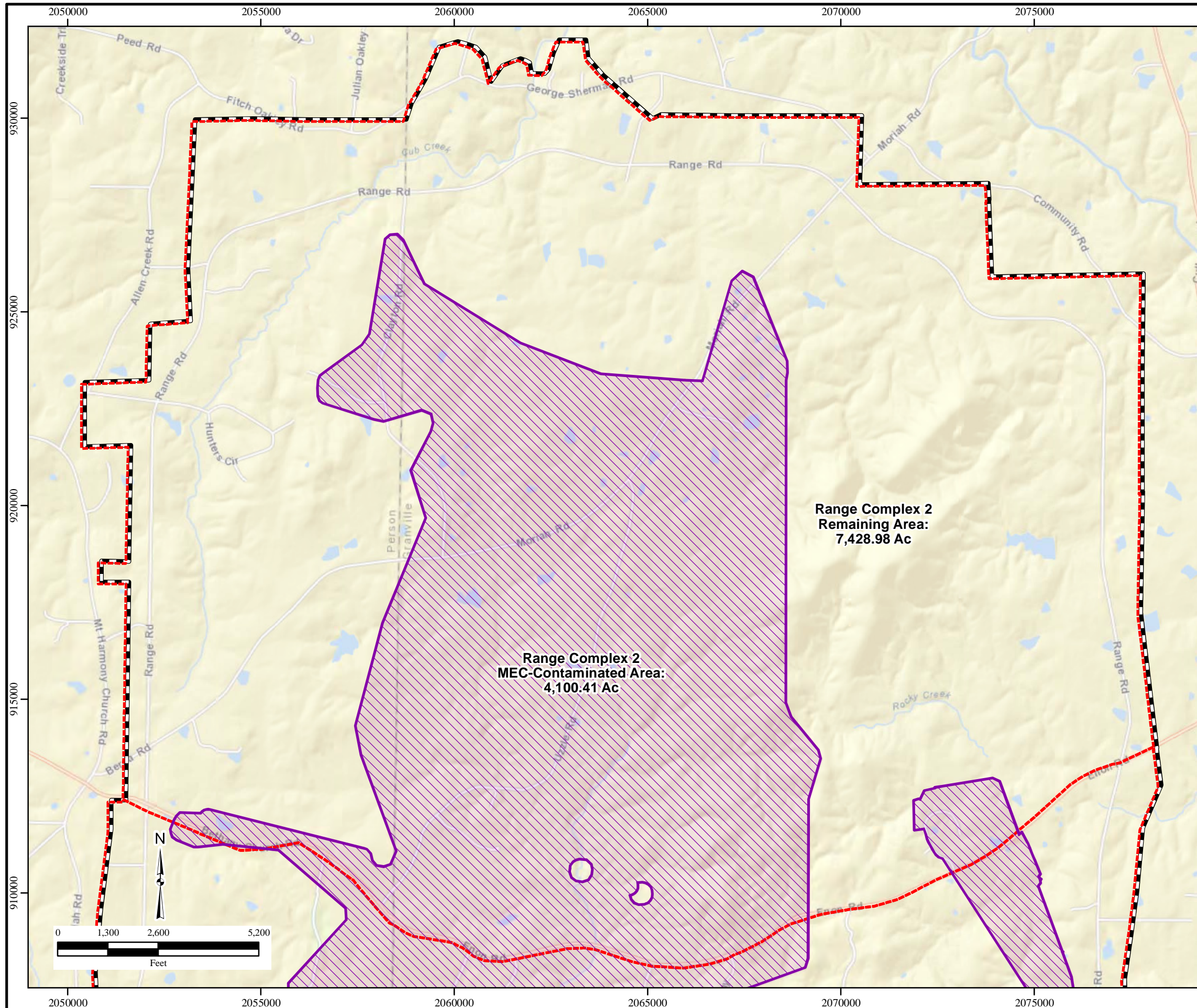
Figure 8.3
MRS Recommended
for Feasibility Study
RC2 MRS

Legend

-  MEC Contamination
-  MRS
-  Former Camp Butner

Notes:
RC1 MEC contaminated area = 4,100.41 acres
RC1 remaining land = 7,428.98 acres

MRS=Munition Response Site
MEC=Munitions and Explosives of Concern
RC=Range Complex



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(8-03)RC2_Delineation_HATCH.mxd
5/24/2016 CNL
Source: HGL, USACE
ArcGIS Online Streetmap



Attachment 4 - *Butner Creedmoor News* article issued on June 9, 2016

located at 101 South Peachtree Street in Creedmoor.

They are first come, first serve. Pick your sweet potatoes up at any time. They are available now.

Bring your own bag. All are welcome.

HRC MONTHLY MEETING

The Granville County Human Relations Commission will hold its monthly meeting on Monday, June 13th at 7 p.m. The meeting will be held at Stem Town Hall in Stem.

The public is encouraged to attend.

For more information, contact Jason Jenkins at 919-381-2776 or jasonjenkins2004@gmail.com



Granville County Department of Social Services receives a plaque for her 30 years of service.

contingency and fund balance, as well as various Budget Amendments pertaining to items such as the General Fund, the Butner Landfill

The Board also recognized the winners of the 4th Annual

[Continued on Page 9A]

of salaries, c operating ex outlay. This following : governmer economic developme recreation transportal

The bu new positic departmen

Update on Camp Butner Investigation

The Wilmington District, U.S. Army Corps of Engineers held a Restoration Advisory Board (RAB) meeting on June 1 at Butner Town Hall to provide an update on the remedial investigation at Camp Butner.

Camp Butner, a formerly used defense site (FUDS) located in Granville, Person and Durham counties, NC was established during World War II to train infantry divisions and various artillery and engineer units. The installation was active from 1942 to 1946. However, training was only conducted through 1943.

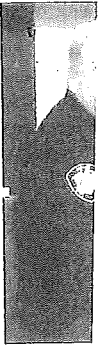
The goals of the FUDS

program are to reduce the risk to human health and the environment through the implementation of effective, legally compliant, and cost effective response actions; and to implement final remedies when the situation warrants. These remedies include detecting, removing, and disposing of ordnance and explosives; identifying, investigating, and cleaning up hazardous, toxic, and radioactive contamination that is a result of the Department of Defense (DoD)'s use of the land; and demolishing and removing unsafe buildings, structures, and debris resulting from past DoD operations.

Kimberly Vaughn from HydroGeoLogic and Ray Livermore, FUDS Project Manager for U.S. Army Corps of Engineers, (USACE) Wilmington District led the presentation. Marty Morton from North Carolina Department of Environmental Quality (NCDEQ) along with some members of the RAB were also in attendance.

The public is encouraged to be aware of munitions and explosives of concern (MEC) safety with the three R's, recognize, retreat and report. They are asked to recognize that

[Continued On PAGE 9a]



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[Continued From Page 1A]

any potential military item can be dangerous. It may not look like any kind of explosive or military device. But it is always best to err on the side of caution if you stumble upon an unidentified object.

If an object is found that you are unsure of, retreat, do not touch it and move away from the area and lastly report it by calling 911.

The purpose of the Remedial Investigation (RI) is to determine the nature of and extent of Mutations and Explosives of Concern (MEC) and Munitions Constituents (MC) across a site and to determine potential risks to human health and/or the environment.

Feasibility Study (FS) evaluates alternative munitions response options.

The majority of property owners granted Right of Entry (ROE) for the investigation and study. There were a few areas however that were not included because the property owners refused to give their permission which is their right to do so.

Soil samples were

collected from various areas. The whole area was gridded and a certain number of samples were taken from each area. The Munitions Constituents (MC) investigation identified no risks to human health or ecological receptors.

During the investigation outside the interpreted impact areas a previously unknown hand grenade range was identified. Thirty-nine anomalies were investigated and 5 hand grenades were discovered.

Eight additional analog transects were conducted and trenches were identified. The site was delineated and recommended in the Remedial Investigation as a new Munitions Response Site (MRS). A total of 1,382 targets were selected for intrusive investigation; 6 targets resulted in Munitions and Explosives of Concern (MEC) items, 657 were Munitions Debris (MD) and 475 were miscellaneous farm debris.

Material potentially presenting an explosive hazard (MPPEH) found included a M70 57 mm AP-T projectile and a M2 3.25 inch AA Target Rocket. They were destroyed along with the items listed below.

MECs that were located and destroyed

included from all the areas investigated 60mm HE mortars, hand grenades, projectiles and a rocket warhead.

The extent of MEC contamination at each MRS was determined based on the RI results. The investigation results were used to define MEC contaminated areas for revision to the current MRS boundaries and to support the development and execution of potential remedial alternatives as part of the recommended feasibility study (FS).

MEC contamination was identified within the MRSs investigated and poses explosive hazards to current and future receptors. No MC was detected at levels constituting a risk to human health or the environment, indicating there is no MC contamination.

Portions of each MRS investigated are recommended for inclusion in a FS to develop potential remedial alternatives capable of reducing the site hazards to acceptable levels. A five-year review MRS was recommended in the RI to go forward for FS evaluation.

The five-year review MRS is made up of the portions of each MRS (as applicable) where minor

amounts of munitions debris only were identified.

Feasibility study recommended for the following MRS: MEC contaminated area, remaining lands area, FTR MRS, and the hand grenade range.

Based on the RI recommendations land use data will be incorporated. Different remedies and technologies are explored and screened. A cost

The Butner-Creedmoor News, Thursday, June 9, 2016 • 9a

analysis is done for each alternative presented.

The best alternative is evaluated and the proposed plan presents a recommended alternative. Recommendations will be presented at a public meeting at a date to be determined possibly in the late summer or early fall of this year.

All of the reports associated with the study and investigation can be

seen in the Camp Butner Administrative Record at the South Granville County Library located at 1550 S. Campus Drive in Creedmoor.

To obtain more information the Public Affairs Office address is U.S. Army Corps of Engineers-Wilmington District 69 Darlington Avenue, Wilmington, NC 28403. The phone number is (910) 251-4626.



The Creedmoor High School Class of 1956 held their 60th Class Reunion at Old South Restaurant on May 28, 2016. Class members in attendance were: (pictured left to right) front row: Joanne Beasley Hockett, Barbara Kay Sebastian, Peggy Oakley Norwood, Betty Wilson Adcock and Shirley Daniel Watson. Back row left to right are: Thomas Lane, Cecil Harris, Deward Bowden, J.C. Peed, Bobby Haskins, Nelson Freeman and John Thomas Parrott. Not pictured are: Lucinda Pittard Burnette, Rachel Patterson Stone, Edith Guthrie Brown, Barbara Jones Watkins, Eve Thomas Harrington, Ruth Jarmon Mosley and Robert Brooks. Eighteen members of the class have passed away that are known about.