

Air Force Civil Engineer Center

I n t e g r i t y - S e r v i c e - E x c e l l e n c e

Galena Restoration Advisory Board



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BRAC Environmental Coordinator
AFCEC/CZ
10 October 2012

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Overview

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- **Welcome and Overview**
 - **Introducing AFCEC**
- **Public Involvement Update**
- **Overview of Environmental Restoration**
 - **2012 Field Activities**
 - **Performance-based Remediation Contract Update**
- **Presentation from ADEC**
- **Remarks from Stakeholders**
- **General Discussion and Closing Remarks**
- **Suggested Agenda Items for next RAB**
- **Adjournment**



Public Involvement Update

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- Galena Newsletter
 - Created to keep stakeholders informed of the status of environmental cleanup activities
 - AFCEC works with BEC, contractors and regulators for newsletter content
 - New edition coming this winter



The Former Galena FOL Environmental Update

Published to keep the Galena community informed of the Air Force's environmental cleanup progress | Vol 1, Issue 2 | November 2011

Looking Back on 2011 and Ahead to 2012

2011 was a productive year for the Air Force Real Property Agency's environmental restoration program for Galena, AK. We will continue the momentum in 2012 as the environmental cleanup continues. This issue contains updates on activities completed to date and plans for next year.



In Memoriam: Norm (Buckets) Burgett 1934-2011

Condolences go out to the family and friends of Norm (Buckets) Burgett of Galena, who passed away November 1, 2011 in Fairbanks.

Buckets was born in Indianapolis and joined the U.S. Air Force in 1952. At his request he was stationed at Galena Air Force Base in 1954. There he met his wife of 55 years, Cecelia, and together they had eight children. Buckets was devoted to their 25 grandchildren and 12 great-grandchildren.

Buckets had several careers throughout his life, working much of that time at Galena AFB where he was actively involved in the Air Force environmental program.

He was a wealth of knowledge for the Air Force restoration program and a valued member of the Galena Restoration Advisory Board. He will be greatly missed.

Interim Removal Action

This year, AFRPA's contractor, CH2M Hill, removed 17,700 cubic yards of petroleum-contaminated soils from four sites – the former Wilderness Hall (SS005), the former Birchwood Hangar (SS014), the former truck fill-stand (SS017) and the former RAPCON above-ground storage tank (AST1569). AFRPA also built a pedestrian walkway for Galena residents and students prior to excavation of sites SS014 and SS017 to ensure the safety of pedestrians during the interim removal actions next to the flightline.



(Top) AFRPA completed Interim Removal Actions on four sites this year, and (above) conducted soil sampling on the sites.

In addition, AFRPA completed excavation activities at SS005 prior to the students' return for the 2011/2012 school year to avoid any disruption to the community, and to ensure the safety of the Alaskan students who rely on the Galena community for their educational needs.

- pg2 PROGRESS TO DATE
FIELD INVESTIGATIONS COMPLETE
PERFORMANCE BASED CONTRACT UPDATE
- pg3 AHEAD IN 2012
LANDFILL UPDATE
STILL TO COME
- pg4 CONTACT INFORMATION
POINTS OF CONTACT FOR AIR FORCE REPRESENTATIVES AND COMMUNITY CARE



Public Involvement Update

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- **Scheduling of future RAB meetings**
 - **Previously voted on 3rd Wednesday in April, October**
 - **Next RAB meetings will be April 17, 2013 and Oct. 16, 2013**
- **Conflicts?**





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Former Galena Forward Operating Location

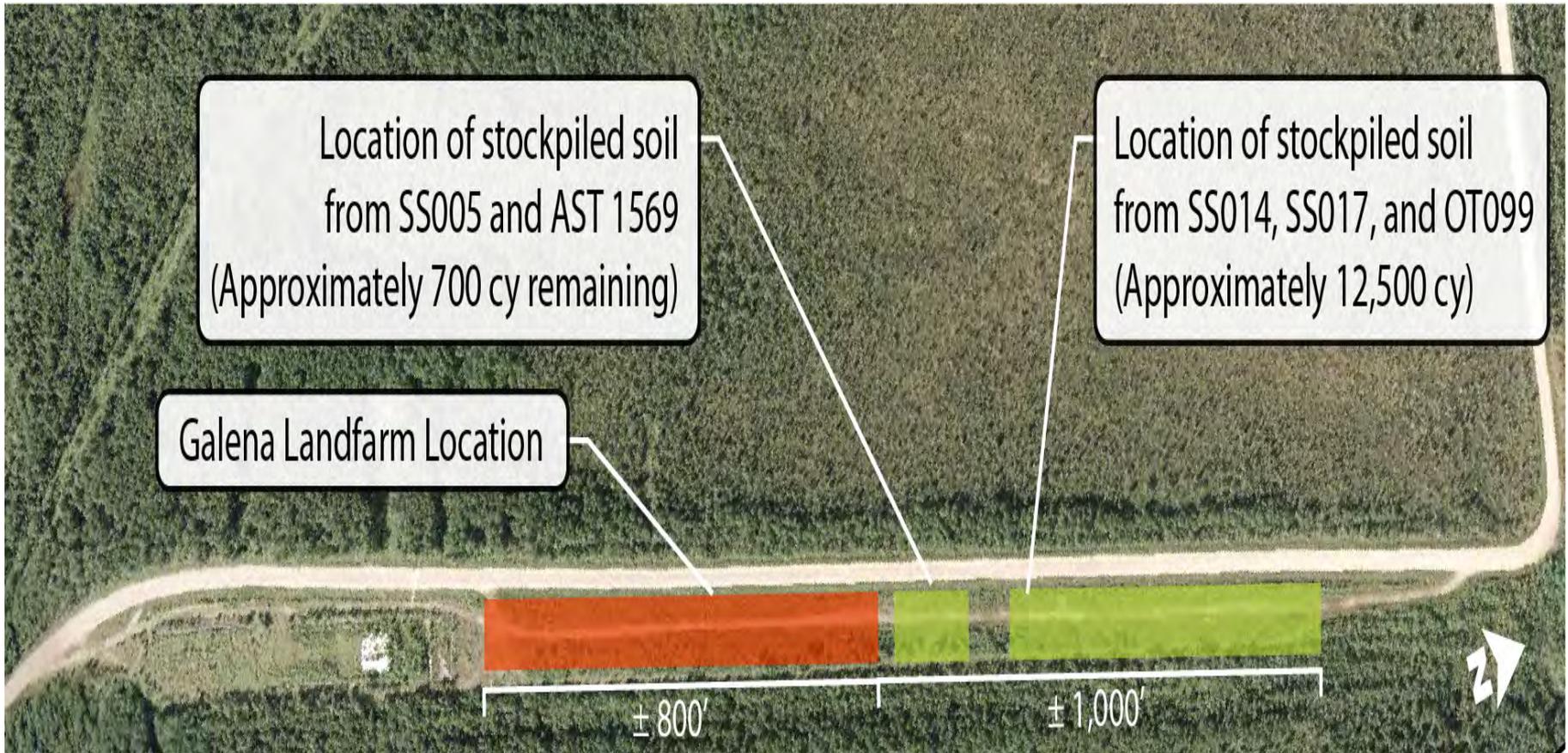
***LANDFARM
CONSTRUCTION/OPERATION
& ROAD RECONSTRUCTION***

October 10, 2012



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Landfarm and Stockpile Location





Landfarm Construction Details

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- **Landfarm treatment area approx. 760' x 55'**
- **3' high berms constructed with soil screened from former Campion airstrip grubblings**
- **12' wide gravel access road on west side**
- **Gravel decon area in southwest corner**
- **2,100 cy of contaminated soil placed 18" deep in landfarm**
- **All disturbed areas re-seeded**



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Landfarm Area after Grubbing (looking south)





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Screening Stockpiled Soil for Berm Construction





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Landfarm Berm Construction (looking north)





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Shaping Southwest Corner of Landfarm Berm





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Constructing Gravel Access Pad (looking south)





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Completed East Berm (looking north)





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Placing Contaminated Soil in the Landfarm (looking south)





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Landfarm Operation/ Winterization Details

- **Landfarm tilled once/week with dozer equipped with multi-shank ripper**
- **7 weekly tilling events occurred in 2012 -- Aug 6th through September 21st**
- **Fertilizer spread on landfarm prior to 1st tilling to aid in biodegradation**
- **Landfarm winterized in October**
 - **North berm reduced in height**
 - **Polyethylene cover/sandbags placed over entire landfarm area**



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Tilling Equipment





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Landfarm Tilling





Tilled Landfarm (looking south)

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Placing Landfarm Cover

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Winterized Landfarm





Road Reconstruction

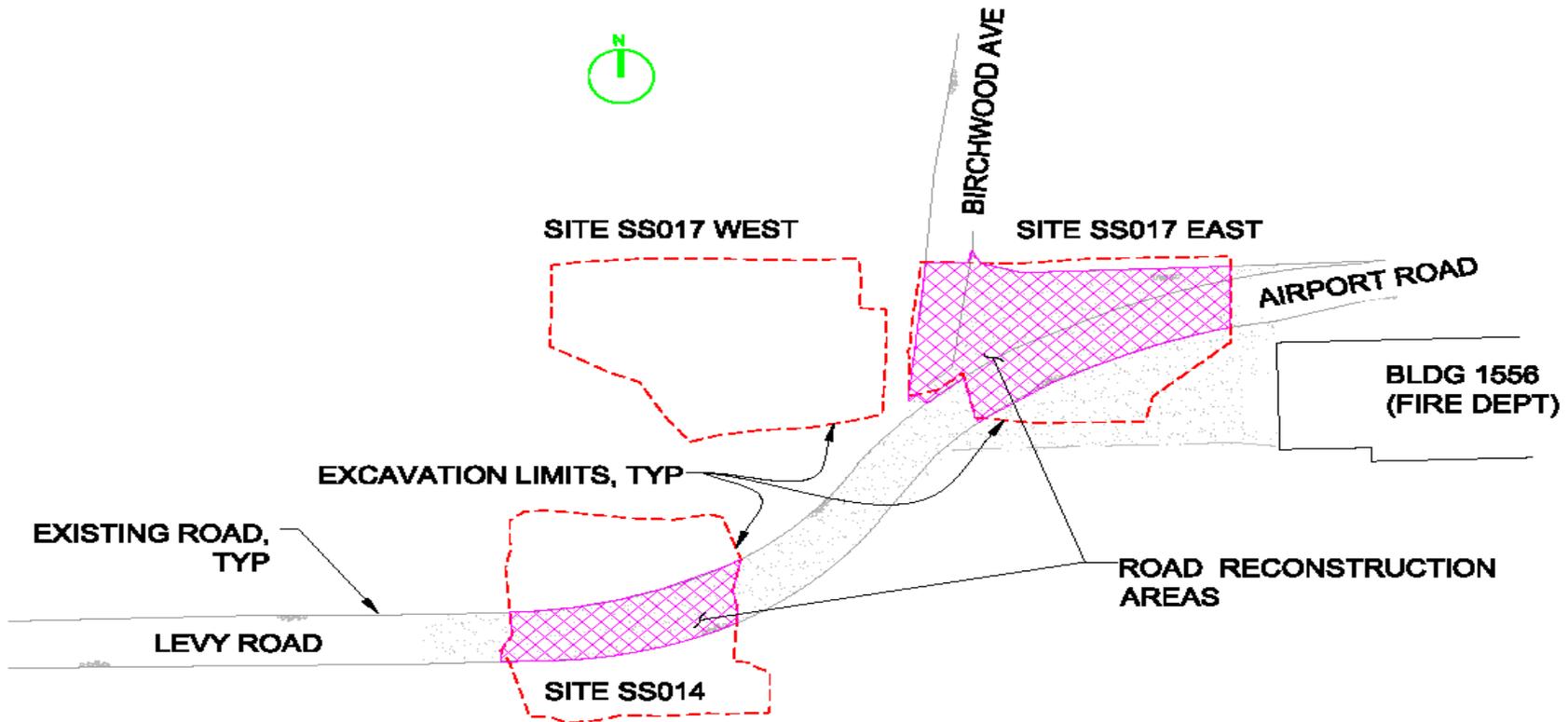
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- **Road reconstruction required at the intersection of Birchwood Avenue, Airport Road, and Levy Road**
 - **Delayed until 2012 to maximize excavation of contaminated soil in 2011**
 - **Performed according to ADOT requirements**
 - **Scope included:**
 - **Remove and recompact top 42” of subgrade to achieve 95% compaction**
 - **Screen local gravel and amend with silt to meet ADOT F-1 road surfacing gradation**
 - **Place 6” thickness of F-1 material to achieve 98% compaction**
 - **Blend in Calcium Chloride for dust suppression**
-



Road Reconstruction Location

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Subgrade Excavation on Birchwood Ave. (looking N/W)





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Subgrade Backfill and Compaction (looking east)





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Blending Gravel and Silt to Meet ADOT F-1 Specification





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Placing F-1 Surfacing Material (looking west)





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Adding Calcium Chloride (looking west)





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Completed Road Reconstruction (looking N/E)





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Former Galena Forward Operating Location

***MILITARY MUNITIONS
RESPONSE PROGRAM (MMRP)
SUPPLEMENTAL SITE
INVESTIGATION***

October 10, 2012



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MMRP Supplemental Site Investigation

- **Objective: Obtain closure of MMRP sites**
- **Historical Records Review identified 7 potential sites:**
 - **Open Burn/Open Detonation (OB/OD) Area - Parcel D**
 - **Suspected Ordnance Burial Site (SOBS)**
 - **Rocket Shipping Container Site**
 - **Hot Cargo Pad**
 - **Former Ammo Storage Building 1400**
 - **Former Missile Storage Area Building 1488**
 - **Former Army Ammo Storage on South Apron**



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MMRP Sites





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Parcel D 16 Investigation Areas





Scope of MMRP Investigation

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- **Supplemental Site Investigation includes:**
 - **Tree clearing and surveying**
 - **Geophysical investigation**
 - **Intrusive investigation of targets and anomalies**
 - **Removal and disposal of any uncovered munitions**
 - **Site Closure**
 - **Former Missile Storage Area Building 1488**
 - **Wipe samples to test for explosive residue only**
 - **Rocket Shipping Container Site**
 - **Removal and disposal of shipping containers**
-



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Fieldwork Completed August - October 2012

- **UXO surface sweeps prior to fieldwork at each site to ensure safety of onsite personnel**
- **Surveying of site boundaries**
- **Vegetation clearance at Parcel D grids and SOBS**
- **Digital geophysical surveying at Parcel D grids, SOBS, Hot Cargo Pad, Former Building 1400 and South Apron perimeter**
- **All workers were escorted by bear guards**



UXO Sweeps and Surveying

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Vegetation Removal at Parcel D

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Vegetation Removal at the Suspected Ordnance Burial Site





Quality Control (QC) Procedures

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- Instrument Verification Strip (IVS)
 - Verifies equipment is operating properly through the detection of Industry Standard Objects (ISOs) buried in specific locations, depths, and orientations.





Quality Control (QC) Procedures

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- Blind seeding the ISOs
 - Inert pieces of 1-inch piping, with a geophysical signature similar to munitions, are buried at locations unknown to the geophysical team
 - Ensures the team can locate munitions in the field





Geophysical Surveying

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Visual Observations

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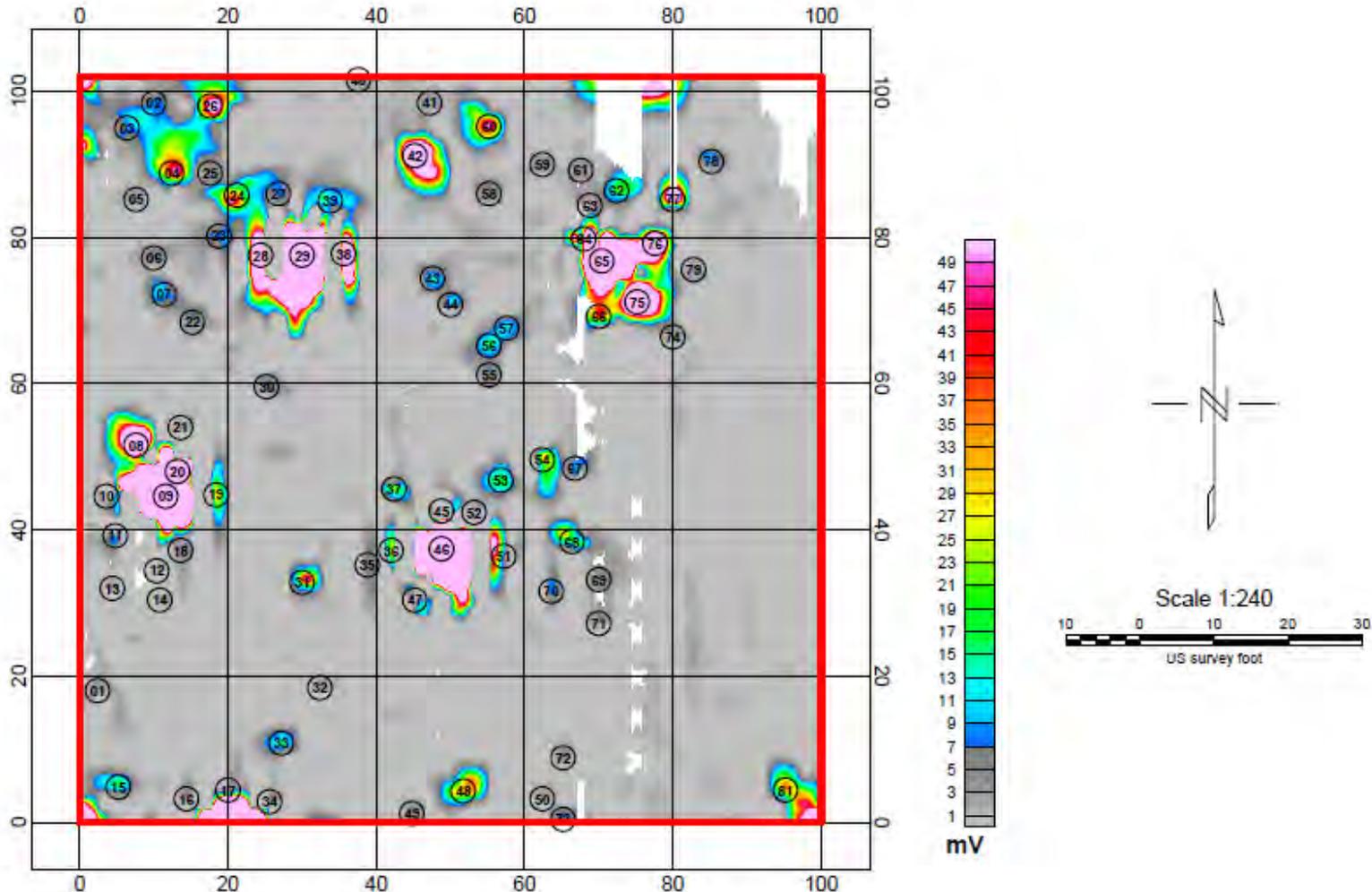
- **Sites are inspected for surface objects that will be detected by geophysical survey equipment**
- **Scrap metal, marsten matting, drums, and other cultural debris were found at Parcel D and SOBS**
- **To date, no ordnance or munitions debris have been found on the surface.**





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Example Geophysical Survey Results





Fieldwork Summer 2013

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- **Removal and disposal of rocket shipping containers**
- **Wipe tests for explosive residue at Former Missile Storage Area Building 1488**
- **Intrusive investigation based on the results of the geophysical surveys**
- **Removal and disposal of munitions if found during intrusive investigation**
- **Soil sampling based on results of the intrusive investigation**



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Questions?





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