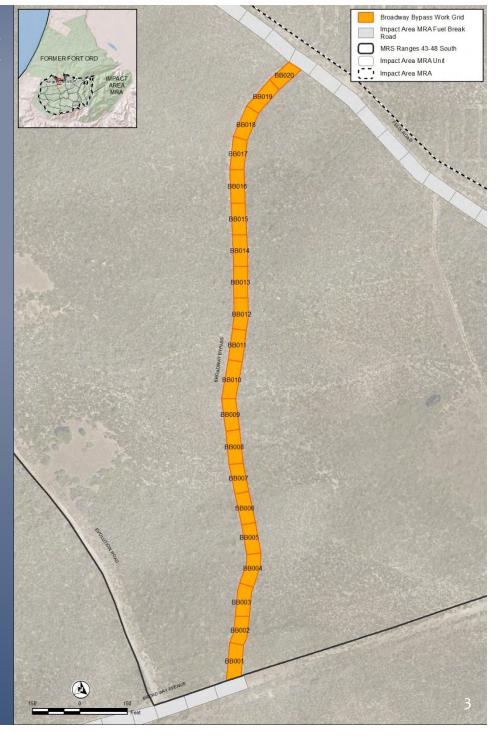


REMEDIAL ACTION OBJECTIVE

- Broadway Bypass:
 - 2.1 acres
 - 2,000 feet in length
 - 45 feet wide
- A part of the network of fuel break roads within the Impact Area MRA where, under the Track 3 ROD, subsurface removal will be conducted

REMEDIAL ACTION APPROACH

- Surface removal was previously completed
- DGM using advanced classification to identify subsurface anomalies requiring removal
- 2-phased DGM approach:
 - Dynamic detection survey to identify subsurface anomalies
 - Static classification survey to acquire more robust measurements at each detected anomaly location
- Modeling and classification of measured data to identify each anomaly source as a likely target of interest (TOI) or non-TOI
- Intrusive investigation and removal of anomaly sources classified as potential TOI





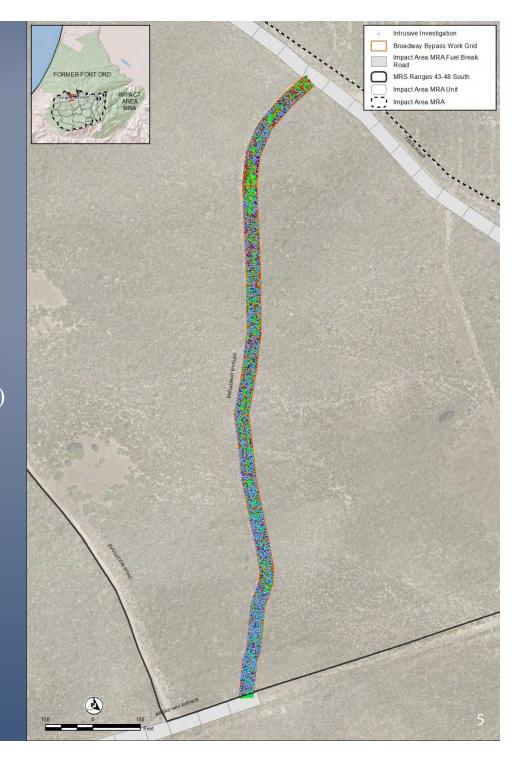
DYNAMIC DETECTION SURVEY

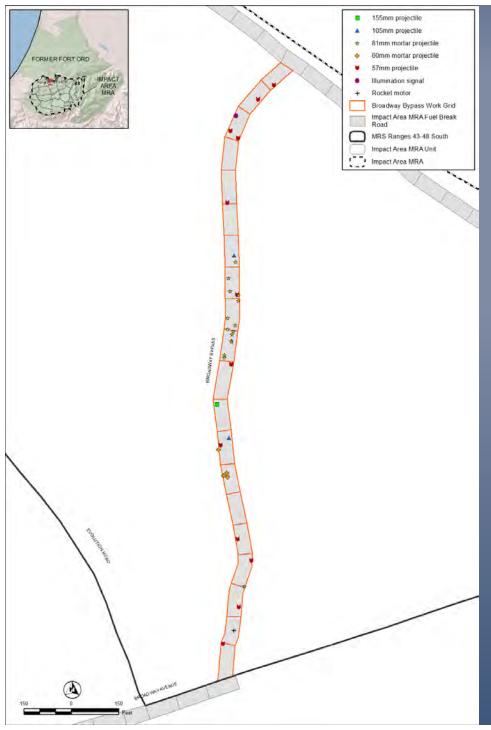
- April 13-April 19, 2017
- 2 acres surveyed with the Naval Research Laboratory TEMTADS
- Data processed by NAEVA Geophysics with UX-Analyze Advanced software
- Subsurface anomalies selected using a
 2.5mV/amp threshold
- 5,021 selected subsurface anomalies

STATIC CLASSIFICATION SURVEY

- April 24-July 10, 2017
- 5,021 anomalies surveyed with the TEMTADS in static mode
- Inversion modeling resulted in the identification of 5,216 individual anomaly source locations
 - 3,041 classified as high-confidence non-TOI (safe to leave in the ground)
 - 2,175 identified for intrusive investigation

Classification Category	Quantity	Dig/Do Not Dig
Category -1 (Training Digs)	61	Dig
Category 0 (Cannot Analyze)	12	Dig
Category 1 (High-Confidence TOI)	291	Dig
Category 2 (Inconclusive)	1,811	Dig
Category 3 (High-Confidence Non- TOI)	3,041	Do Not Dig
TOTAL	5,216	





INTRUSIVE INVESTIGATION AND SUBSURFACE REMOVAL

- September 13, 2017-February 21, 2018
- 50 recovered TOI
 - 30 TOI recovered from Category 1 targets (high-confidence TOI)
 - 20 TOI recovered from Category 2 targets (inconclusive)
- 2.3% of investigated anomalies had TOI sources
- 47.7% of investigated anomalies resulted in the recovery of MD
- 58.5% of investigated anomalies resulted in the recovery of 50cal small arms
- No TOI were recovered from the 104
 Category 3 QA validation digs

RECOVERED TARGET OF INTEREST SUMMARY

ltem	Quantity Recovered	Successfully Identified for Intrusive Investigation	Category -1 ¹	Category 1 ²	Category 2 ³	MEC	MD⁴
Rocket Motor	1	1	0	1	0	0	1
Signal, Illumination	1	1	0	1	0	0	1
Projectile, 57mm, HE, M306 series	12	12	0	4	8	3	9
Projectile, 60mm, mortar, HE, M49 series	4	4	0	3	1	3	1
Projectile, 81mm, mortar, model unknown	15	15	0	7	8	0	15
Projectile, 105mm, model unknown	2	2	0	2	0	0	2
Projectile, 155mm, model unknown	1	1	0	0	1	0	1
QC Seed	10	10	0	9	1	N/A	N/A
Validation Seed	4	4	1	2	1	N/A	N/A

¹ Category -1 = Training Dig

² Category 1 = High-Confidence TOI

³ Category 2 = Inconclusive

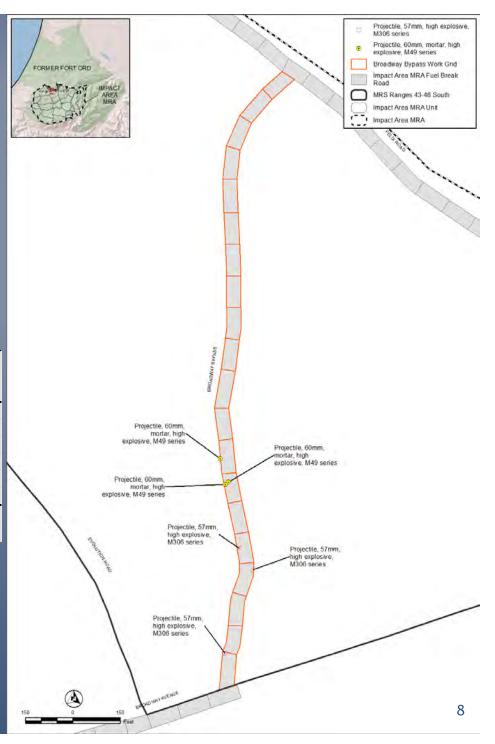
⁴ Specific model and filler designations are listed for MEC items only. Specific model and filler designations for recovered MD items are unknown.

RECOVERED MEC ITEMS

- 6 recovered TOI were UXO
 - 5 were positively classified as Category 1 (high-confidence TOI)
 - 1 classified as Category 2 (inconclusive)

Flag ID	Туре	Model Description	Recovery Depth (inches)	Classification Category ¹
1005	UXO	Projectile, 57mm, HE, M306 series	3	1
4013	UXO	Projectile, 57mm, HE, M306 series	12	2
5005	UXO	Projectile, 57mm, HE, M306 series	7	1
7004	UXO	Projectile, 60mm, mortar, HE, M49 series	24	1
7045	UXO	Projectile, 60mm, mortar, HE, M49 series	7	1
8014	UXO	Projectile, 60mm, mortar, HE, M49 series	6	1

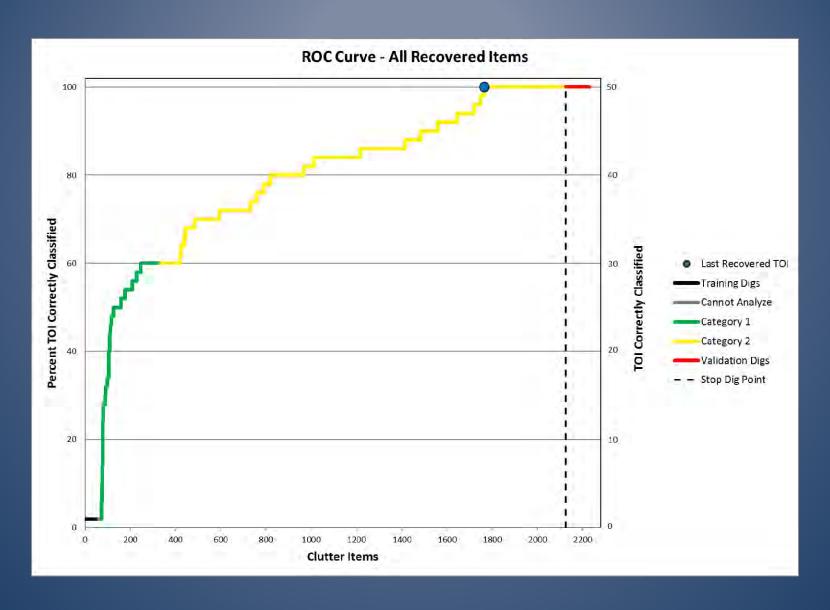
¹ Classification Category 1 = High-Confidence TOI; Classification Category 2 = Inconclusive



QUALITY CONTROL AND QUALITY ASSURANCE

- Quality Control verification activities:
 - Blind seeding (10 ISO-80 QC seed items)
 - MQO performance verification
 - Daily instrument verification (function tests and IVS surveys)
 - 360 library match threshold verification investigations
 - 11 cluster analysis verification investigations
 - Inspections of DGM and UXO activities and intrusive investigation results
- Quality Assurance validation activities:
 - Blind seeding (4 inert 40mm projectile QA seed items)
 - 104 QA validation investigations

CLASSIFICATION PERFORMANCE RECEIVER OPERATING CHARACTERISTIC CURVE



CLASSIFICATION PERFORMANCE DECISION STATISTIC PLOT

