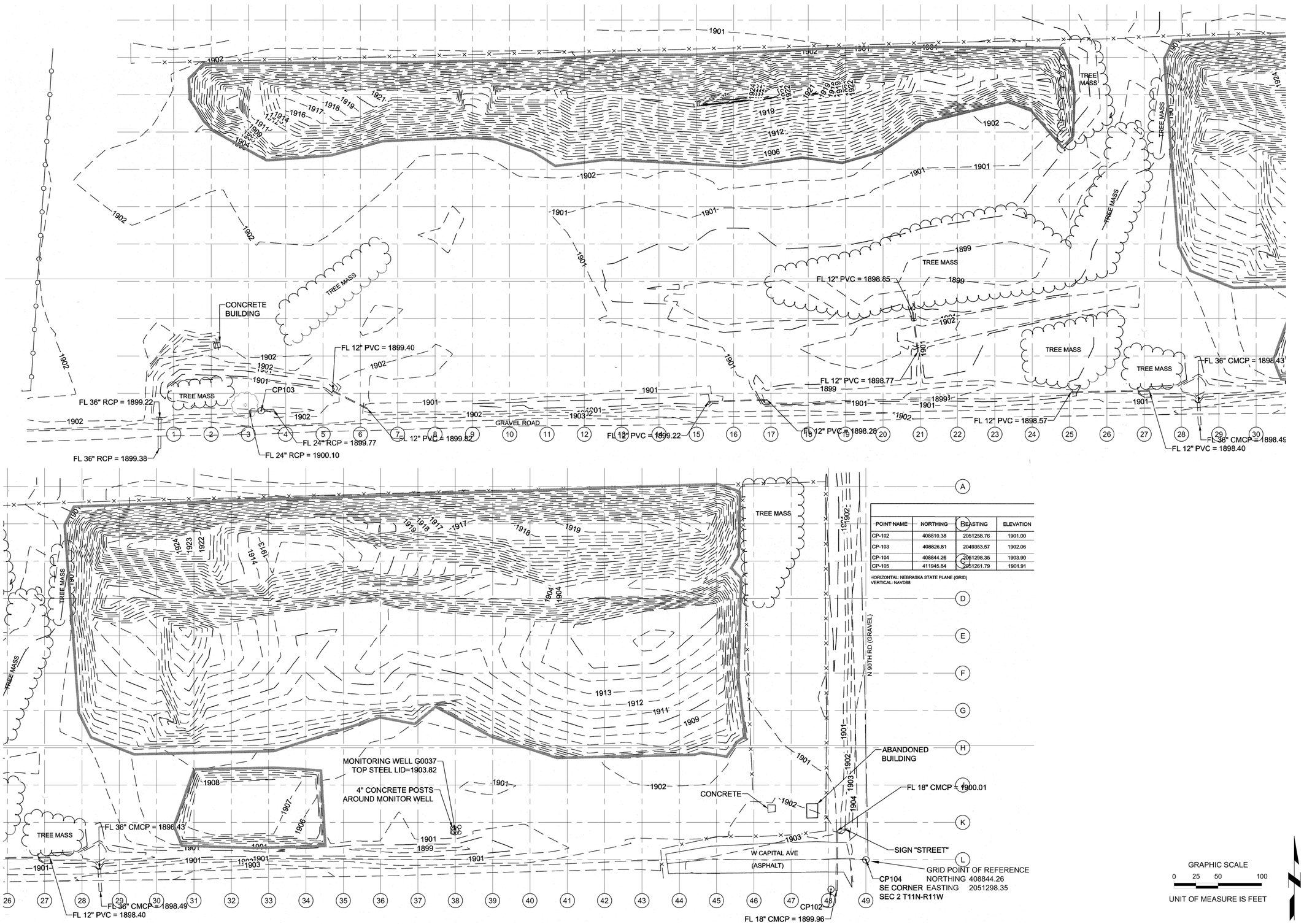

POINT NAME	NORTHING	EASTING	ELEVATION
CP-102	408810.38	2051258.76	1901.00
CP-103	408826.81	2049353.57	1902.06
CP-104	408844.26	2051298.35	1903.90
CP-105	411945.84	2051261.79	1901.91

HORIZONTAL: NEBRASKA STATE PLANE (GRID)
VERTICAL: NAVD88

GRAPHIC SCALE
0 25 50 100
UNIT OF MEASURE IS FEET

JEO CONSULTING GROUP INC
Ph: 308.381.7428 800.723.8567
308 West 3rd Street
Grand Island, NE 68801

ATI INC
CHAPP GRAND ISLAND SITE
GRAND ISLAND, NEBRASKA

PROJECT NO.	180050
DATE	4/4/2018
DRAWN BY	JLM
FILE NAME	SV-180050.dwg
FIELD BOOK	GI#5
FIELD CREW	AG
SURVEY FILE NO.	
PLAN IN HAND INITIALS DATE	
70 PERCENT REVIEW INITIALS DATE	
95 PERCENT REVIEW INITIALS DATE	
REVISIONS	

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Tract 19B – Soil Stockpile / Native Grade Boundaries

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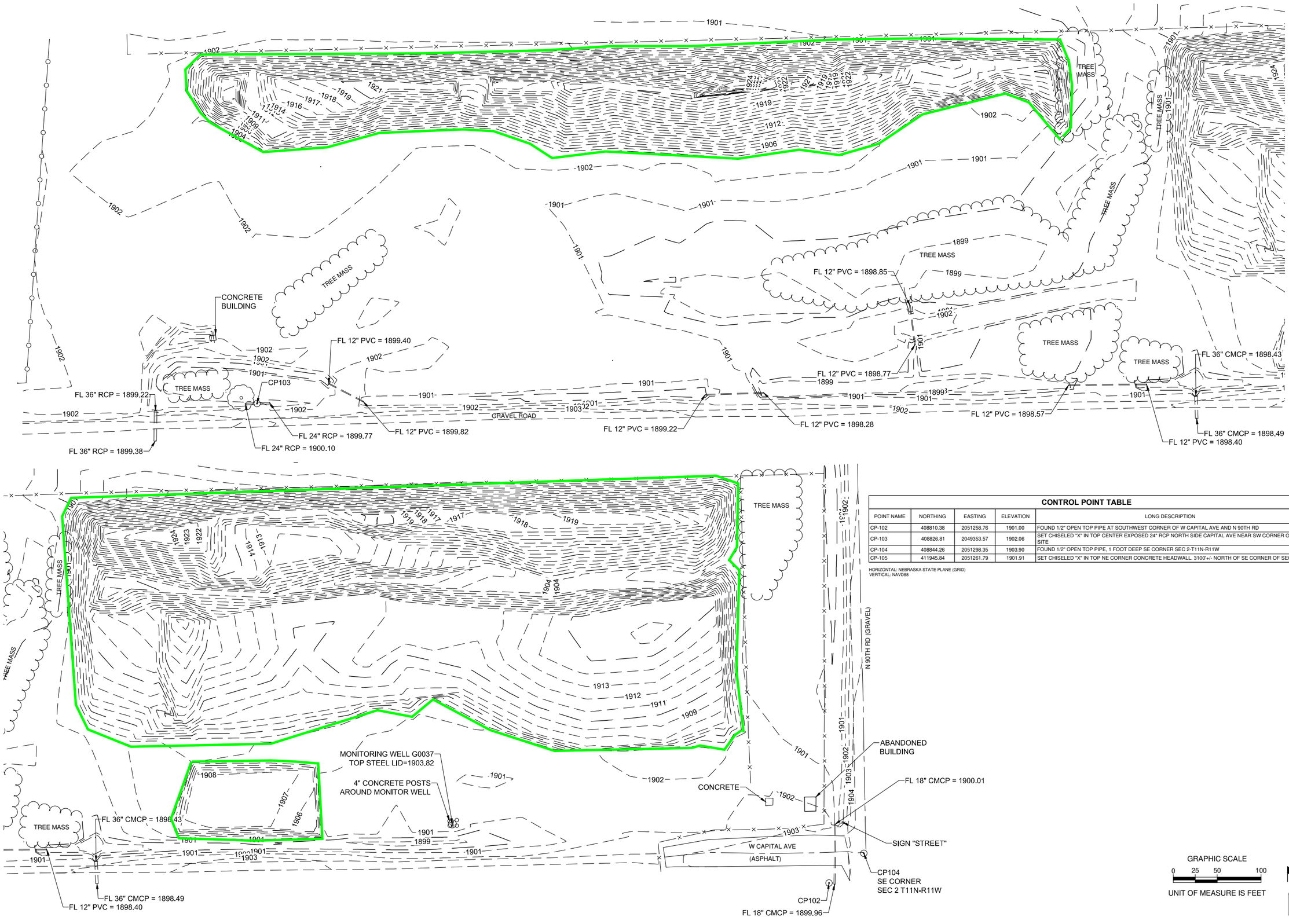

CONTROL POINT TABLE

POINT NAME	NORTHING	EASTING	ELEVATION	LONG DESCRIPTION
CP-102	408810.38	2051258.76	1901.00	FOUND 1/2" OPEN TOP PIPE AT SOUTHWEST CORNER OF W CAPITAL AVE AND N 90TH RD
CP-103	408826.81	2049353.57	1902.06	SET CHISELED "X" IN TOP CENTER EXPOSED 24" RCP NORTH SIDE CAPITAL AVE NEAR SW CORNER OF SITE
CP-104	408844.26	2051298.35	1903.90	FOUND 1/2" OPEN TOP PIPE, 1 FOOT DEEP SE CORNER SEC 2-T11N-R11W
CP-105	411945.84	2051261.79	1901.91	SET CHISELED "X" IN TOP NE CORNER CONCRETE HEADWALL. 3100'+/- NORTH OF SE CORNER OF SEC 2

HORIZONTAL: NEBRASKA STATE PLANE (GRID)
VERTICAL: NAVD88

GRAPHIC SCALE
0 25 50 100
UNIT OF MEASURE IS FEET

JEO CONSULTING GROUP INC
Ph: 308.381.7428
308 West 3rd Street
Grand Island, NE 68801

ATI INC
CHAPP GRAND ISLAND SITE
GRAND ISLAND, NEBRASKA

PROJECT NO.	180050
DATE	2/1/2018
DRAWN BY	JLM
FILE NAME	SV-180050.dwg
FIELD BOOK	GI#5
FIELD CREW	AG
SURVEY FILE NO.	
PLAN IN HAND INITIALS DATE	
70 PERCENT REVIEW INITIALS DATE	
95 PERCENT REVIEW INITIALS DATE	
REVISIONS	

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APPENDIX G

TRACT 20B MEC INVESTIGATION

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APPENDIX G.1

INSTRUMENT VERIFICATION STRIP TECHNICAL MEMORANDUM

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June 1, 2020

Mr. Jason Blair
U.S. Army Corps of Engineers
1616 Capitol Ave, Suite 3300
Omaha, NE, 68102

Subject: Contract No. W9128F-16-D-0014 Task Order 0002; Remedial Investigation /Feasibility Study Burning Grounds, Sanitary Landfill, and Pistol Range Areas (Remaining Property of the U.S. Government); Draft Instrument Verification Strip (IVS) Technical Memorandum for Person Portable EM61-MK2A Operations at Cornhusker Army Ammunition Plant, Grand Island, Nebraska.

Dear Mr. Blair:

The purpose of this letter report is to summarize the results of the Person Portable EM61-MK2A IVS performed on May 26-27, 2020.

1.0 INTRODUCTION

Remedial investigation field activities are currently being conducted for the above-referenced project, per the requirements of the Final Uniform Federal Policy - Quality Assurance Project Plan (QAPP) issued in January 2020. The ATI, Inc. and HydroGeoLogic, Inc. (ATI/HGL) team is conducting digital geophysical mapping (DGM) activities using an EM61-MK2A in wheel mode (EM61) to detect and map locations of materials potentially presenting an explosive hazard (MPPEH) including munitions and explosives of concern (MEC) over approximately 3,000 feet of transects at the South Fuze Destruction Area (SFDA) and 2 acres of full coverage data at the Abandoned Burning Area (ABA) in the Tract 20B subsite of the Cornhusker Army Ammunition Plant (CHAAP). Positioning for the dynamic EM61 survey will be accomplished using a real-time kinematic global positioning system (RTK GPS). The DGM data will be processed and analyzed to determine locations of targets throughout the project area for intrusive investigation.

The purpose of the IVS is to demonstrate and document the site-specific capabilities of the proposed equipment and sensors, geophysical survey platform, data acquisition and processing protocol, and to verify the system is functioning properly and capable of providing data that are of sufficient quantity and quality to meet the measurement quality objectives (MQOs) in the QAPP. The IVS is part of the Geophysical System Verification (GSV) process and is also utilized in establishing an appropriate target selection threshold by comparing background and real-time results with established detection curves. The IVS also provides the opportunity to establish the information management and data transfer elements of the project and serves as an opportunity for the U.S. Army Corps of Engineers (USACE) Omaha District (CENWO) geophysicist to observe HydroGeoLogic, Inc.'s (HGL's) methods, evaluate the survey results, and determine if the results meet the requirements specified in the QAPP.

2.0 IVS CONSTRUCTION

2.1 IVS LOCATION AND SIZE

The IVS is in an area where the terrain, soils, and geology are similar to most of the favorable areas where production DGM data will be acquired (Figure 1). The IVS area is approximately 6 meters (m) wide and 21 m in length and is oriented approximately N40E. The coordinates for the ends of the IVS center line and noise line were surveyed using a Trimble R6 RTK GPS.

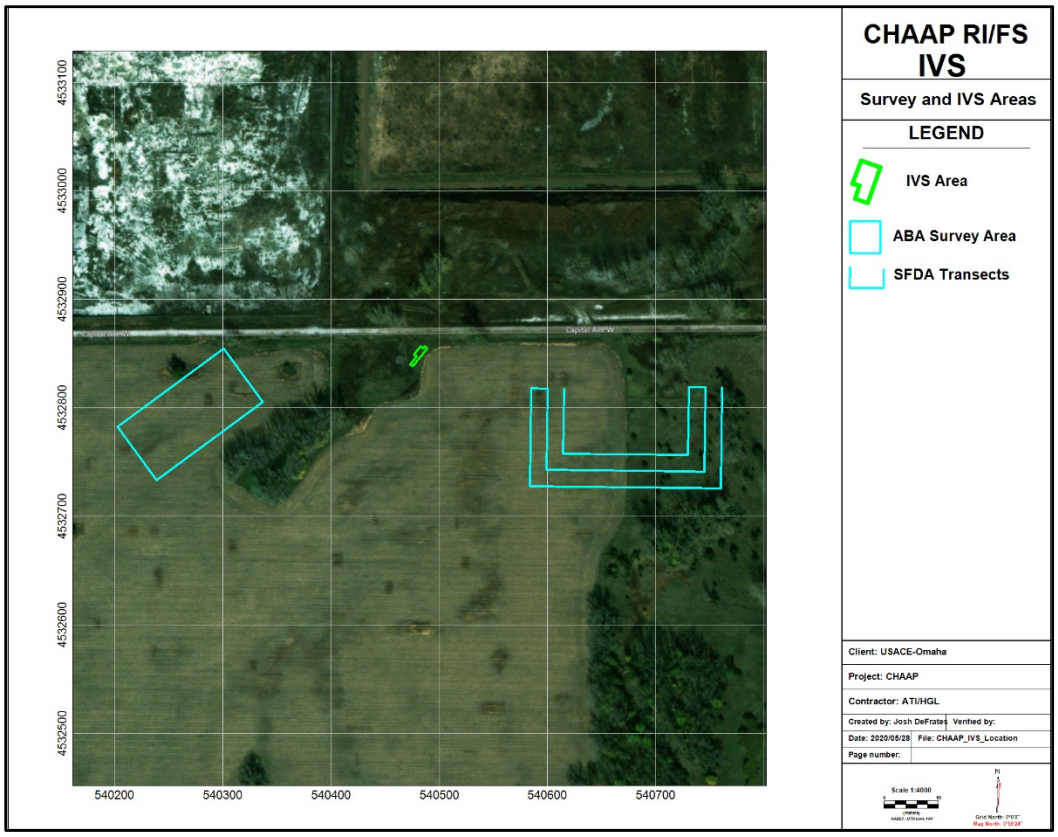


Figure 1 – IVS General Location

2.2 CIVIL SURVEY

Four control points were established by JEO Consulting Group, a Professionally Licensed Surveyor (PLS) in the state of Nebraska, in Tract 19B in early 2018. Three control points are along Capitol Avenue, just north and northeast of the SFDA and ABA. After an initial search determined that two of the CPs were under water or under the middle of the gravel road, HGL established its own control point near the gate to the site on May 26th. Static data was collected over CHAAP_CP1 and submitted to the National Geodetic Survey's (NGS) Online Positioning User Service (OPUS) for a solution. Establishing an RTK survey using this base control point, two points measured by JEO were successfully reacquired at less than 0.015 m. The maximum recorded offset on the QC control points has been 0.015 m over four measurements through May 27th.

Table 1 exhibits the coordinates for the RTK GPS base station control point for the IVS survey. The other control points discussed above are documented in the *Control Point Table* of the Access database.

Table 1 – IVS Control Points

Point ID	Easting	Northing	Elevation	Type
CP_102[a]	541047.67	4532869.51	579.57	
CP_103[a]	540467.12	4532881.27	579.90	
CP_104[a]	541059.86	4532879.69	580.46	
CP_105[a]	541059.71	4533825.04	579.85	
CHAAP_CP1 [b]	540974.92	4532886.71	579.57	Base Point
CHAAP_CP2 [b]	540979.26	4532876.31	579.86	QC Point
IVS-Noise-N[b]	540483.60	4532856.20	580.08	IVS QC Point

UTM Zone 14 North, NAD83, meters
[a] Established by PLS
[b] Local control point established by HGL.
ID = identification
UTM = Universal Transverse Mercator
NAD83 = North American Datum of 1983

2.3 BACKGROUND SURVEY

The field geophysicist scanned potential areas near the old magazine storage area with the EM61 and performed a full coverage survey at 0.75 m line spacing of the proposed IVS area on May 26th with sensor 1423W01. Positions for the EM61 background survey were determined with the RTK GPS. Three (3) anomalies were identified manually by the data processor with a minimum amplitude of 2.0 mV on Channel 2. The anomalies were investigated on May 27th by unexploded ordnance (UXO) personnel prior to burying the IVS items with several small nails recovered from the anomaly locations. The background survey was repeated again using Sensor 1910W01 and the results of the survey are presented in Figure 2. Sensor 1423W01 exhibited sporadic, low amplitude noise and was not used further for the IVS surveys.

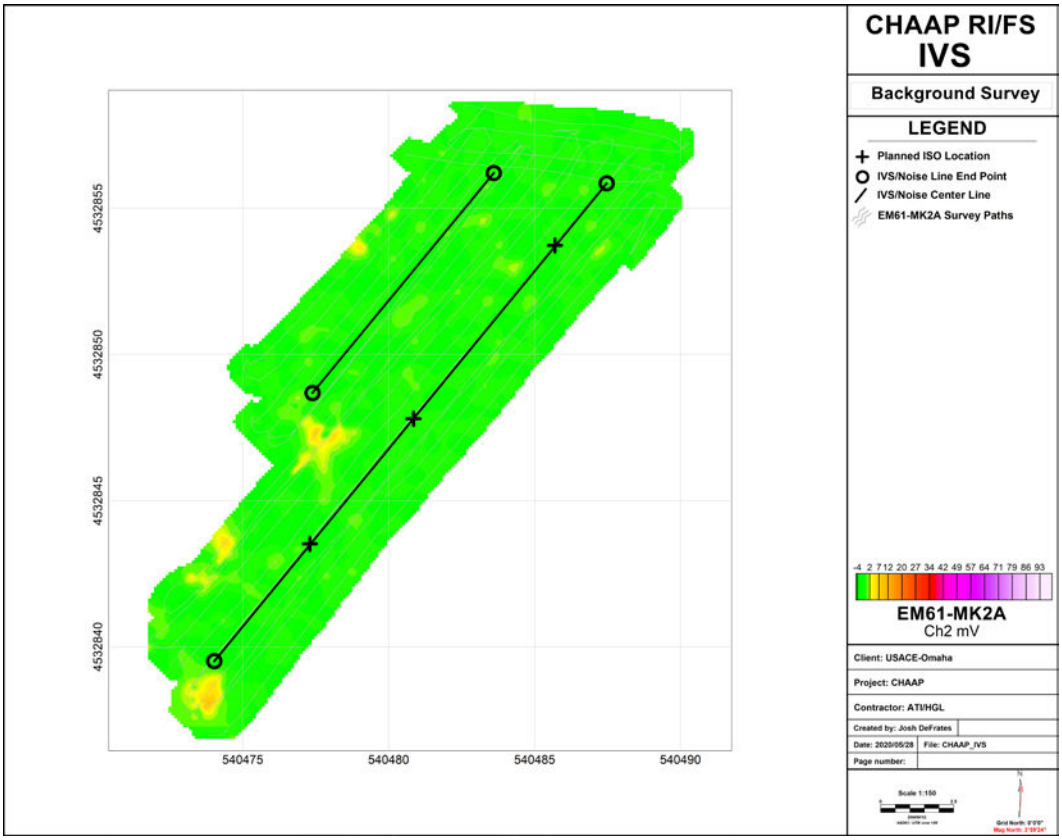


Figure 2 – IVS Background Survey

2.4 IVS SEED ITEMS

Three industry-standard objects (ISOs) purchased from McMaster-Carr are buried at the IVS. Table 2 lists the specifications for the ISOs. Small ISOs were chosen for test items as they are of comparable size to the fuzes and other items expected at the sites.

Table 2 – IVS Items

Item	Pipe Size Inches (cm)	Outside Diameter Inches (cm)	Length Inches (cm)	Part Number
Small Schedule 80 ISO (3)	1 (2.5)	1.3 (3.3)	4 (10.2)	4550K226

cm = centimeter(s)

The IVS items were buried along the IVS center line on May 27th by field personnel. All IVS items were buried in a horizontal, across-track orientation, which is the least favorable orientation for detection. The Easting and Northing coordinates for each IVS item were recorded with the RTK GPS on May 27th. The depths to the top of the items buried below the ground surface were measured with a rigid ruler and a flag stem placed level with the ground surface over the hole for

reference (Table 3). Photographs of each ISO and the IVS layout are provided in Appendix A. Figure 3 is a map of the IVS as-built.

Table 3 – IVS As-Built

Item ID	Orientation	Easting	Northing	Depth Inches (cm)
IVS1_ISO1	small ISO across-track	540477.30	4532843.52	3.0 (7.6)
IVS1_ISO2	small ISO across-track	540480.85	4532847.80	4.0 (10.2)
IVS1_ISO3	small ISO across-track	540485.69	4532853.73	5.0 (12.7)

UTM Zone 14 North, NAD83, meters
Depth reference is the center of mass of each item
Across-track (long axis of item perpendicular to direction of EM61 coil)

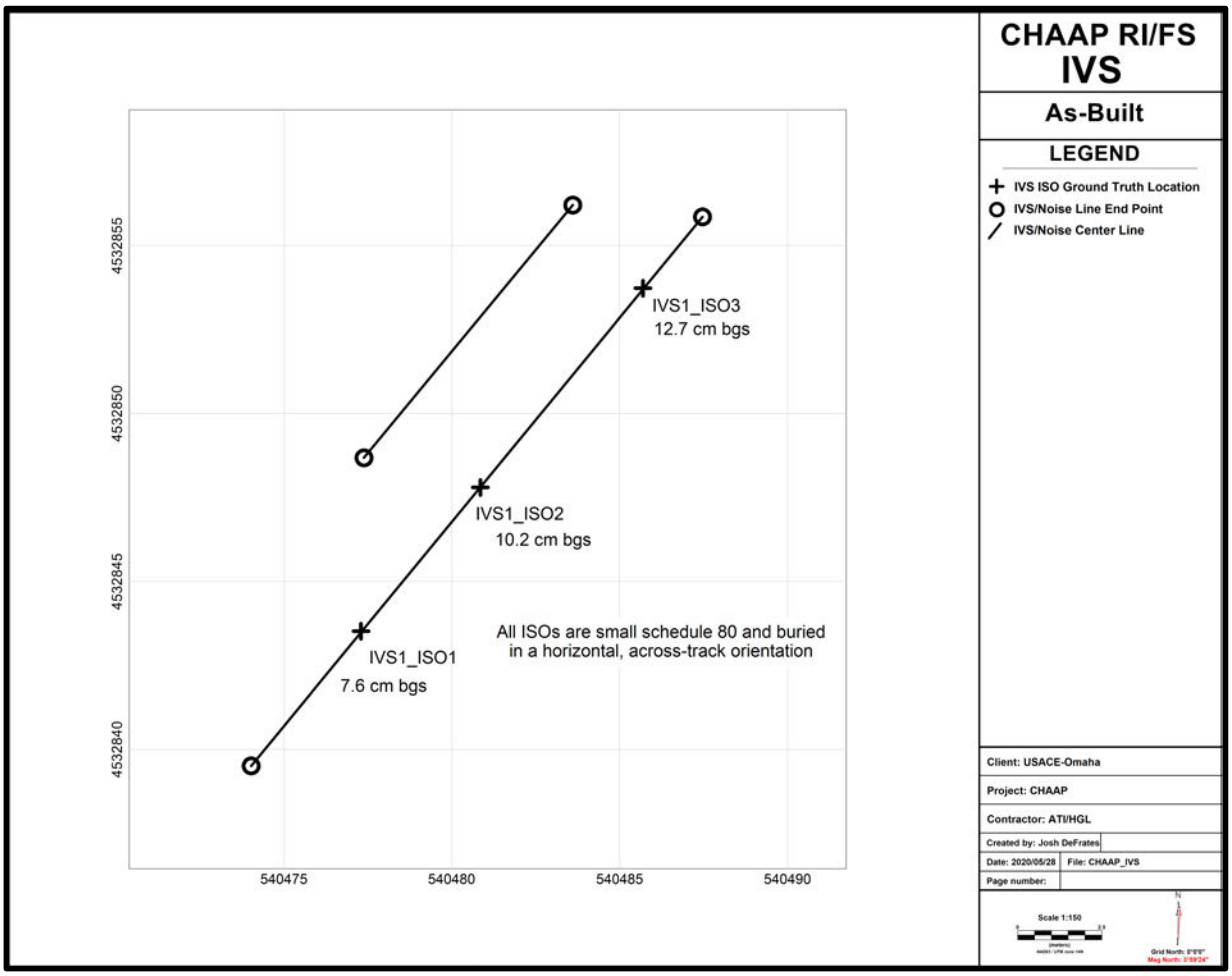


Figure 3 – IVS As-Built

3.0 DATA COLLECTION

3.1 EQUIPMENT AND SENSORS

HGL used an EM61-MK2A (Sensor ID: 1910W01) on a wheeled platform at standard 42 cm coil height to collect the IVS data at 18 measurements per second (Hz) and an RTK GPS unit streaming a GGA NMEA string at 1 Hz. Sensor components and other survey equipment are listed in Table 4.

Table 4 – Equipment List

Equipment ID	Description	Serial Number	Sensor ID or Use
Archer_A	Archer 2 data logger	150492	1910W01
EM61_143420	EM61 Electronics Console	143420	1910W01
EM61_1910	EM61 bottom coil	1910	1910W01
GPS_A	Trimble R6 Model 3	5301422618	1910W01/Rover
GPS_B	Trimble R8 Model 3	5049457333	Base Station
TSC_A	Trimble TSC3	TSC3RS13C18927	Rover

Data collected at the IVS included the following:

- Daily instrument QC tests:
  - Static and static spike
  - Cable Shake
  - Personnel
  - Known position check
- Two background surveys, the second confirmed the removal of the previously identified anomalies (*20200526_1423W01_A*.gdb and *20200527_1910W01_Bkgd.gdb*);
- Twelve alternate passes along the IVS and Noise center line (*20200527_1910W01_E.gdb*);
- Collection of a full coverage survey at 0.75m line spacing (*20200527_1910W01_G.gdb*);
- Collection of static measurements over the center of each ISO (*20200527_1910W01_F.gdb);*
- Collection of static measurements over the center of a small schedule 40 ISO (20200529_1910W01_B).

The static spike portion of the static test used a small ISO placed within the framework of the lower coil of the EM61. Visible markings were placed on the framework of the lower coil to ensure consistent placement of the ISO. QC test summaries for each day of work are provided in Appendix B. EM61 coil 1423 was taken out of service on May 26th based on the results of the PM static test.

3.2 DATA PROCESSING AND ANALYSIS

Processing of the IVS data was performed with version 9.7 of *Geosoft Oasis Montaj*.

Processing in *Oasis Montaj* included leveling of the data to account for measurement drift and application of a latency correction. The drift correction filter and latency applied to the data are documented in the *Data Processing* table in the Microsoft Access database. Latency corrections ranged between 0.33 to 0.38 seconds and drift correction used a 5-second rolling mean filter that ignored 20 percent (%) of the highest values on the IVS and other surveys and 20% on the noise line.

The geo-referenced data were used to generate a color-coded image of Channel 2 of the EM61 data. The data exhibit the lowest response over the center of each ISO and the highest response over the ends, which is typical for ISOs whose long axis is perpendicular to the direction of the EM61. The cell size for interpolation (gridding) was 10 cm and the blanking distance used was 50 cm. A color-coded image of the full coverage EM61 survey over the IVS and noise centerlines is provided in **Figure 4**.

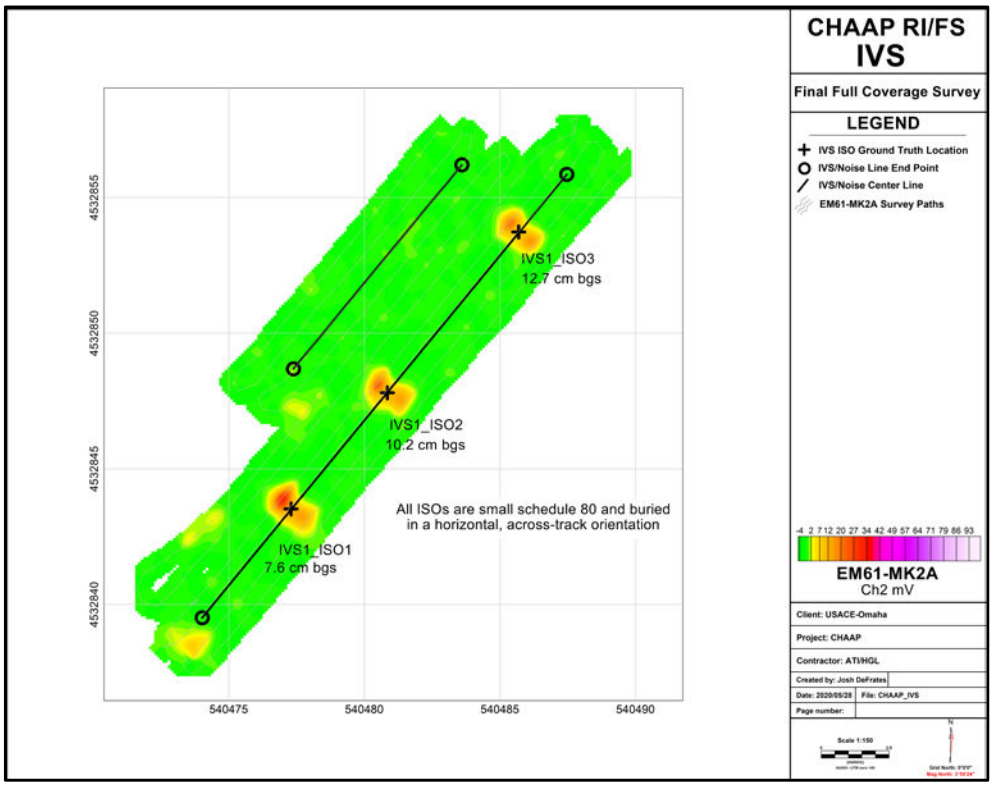


Figure 4 – EM61 full coverage survey of IVS area after installment was completed.

4.0 RESULTS

The daily test regimen prior to collection of data at the IVS included static and static response, personnel, and cable shake tests. After the instrument functional (QC) tests were performed data were acquired over the IVS. The reference values for the static spike test that will be used for comparative purposes during the project are exhibited in Table 5. These values were determined

using a small Schedule 80 ISO placed on the EM61 frame (Appendix A) and represent an average of the first four tests performed on May 27th.

Table 5 – Static Spike Reference Values

Sensor ID	Ch1 (mV)	Ch2 (mV)	Ch3 (mV)	Ch4 (mV)
1910W01	738.1	422.4	204.5	81.7

mV = millivolts

Dynamic responses and positional offset data from the known IVS item locations are documented in the Access database in the *IVS Daily Results Table*. The reference values for the dynamic signal repeatability that will be used for comparative purposes during the project are exhibited in Table 6. These values were determined from traversing each IVS item twelve times in opposite directions on May 27th using Sensor 1910W01.

Table 6 – Dynamic Signal Repeatability

Item ID	Ch1 (mV)	Ch2 (mV)	Ch3 (mV)	Ch4 (mV)	Sum (mV)	Sum234 (mV)
IVS1_ISO1	23.5	14.0	6.2	2.6	46.2	22.7
IVS2_ISO2	17.8	10.5	4.7	1.9	34.8	17.1
IVS3_ISO3	15.7	9.3	4.1	1.9	30.8	15.2

Average and maximum offsets between the ground truth locations and the detected peaks in the twelve passes of the IVS line are presented in Table 7.

Table 7 – Dynamic Offset from Ground Truth

	Average Offset (m)	Max Offset (m)
IVS1_ISO1	0.06	0.11
IVS1_ISO2	0.05	0.12
IVS1_ISO3	0.06	0.08

The dynamic noise was measured by repeated traversals of the noise line with both sensors. Noise is defined as one standard deviation of measurements for each EM61 data channel and is presented in Table 8. The average signal to noise ratio (SNR) for each IVS item is also presented for comparison. To evaluate dynamic signal repeatability daily at the IVS, only the **Channels for the items that exceed a SNR of 10 will be used**.

Table 8 – Background Noise and SNR Comparison

Item ID	Ch1	Ch2	Ch3	Ch4	Sum	Sum234
Background Noise (mV)	0.64	0.53	0.44	0.44	1.71	1.21
IVS1_ISO1 SNR	36.7	26.4	14.1	5.8	27.0	18.8
IVS2_ISO2 SNR	27.7	19.7	10.6	4.4	20.4	14.1
IVS3_ISO3 SNR	24.5	17.5	9.2	4.2	18.0	12.6

Background Noise calculated as 1 standard deviation

The sensitivity of the EM61 was verified by comparing the static and dynamic results over the ISOs with the values from the Naval Research Laboratory (NRL) detection curves (Nelson et al., 2008). The detection curves represent static EM61 data collected directly over the center of an item, though they are for the schedule 40 variant of the small ISO, not the schedule 80 variant used in the IVS. The results for this test are documented in the Access *IVS Daily results Table*, Appendix C and are summarized in Table 9. Static data were also collected over a Schedule 40 small ISO for comparative purposes and the data are presented in Appendix C.

Table 9 – NRL Static Data versus Static and Dynamic Field Data

IVS1_ISO1	Ch1 (mV)	Ch2 (mV)	Ch3 (mV)	Ch4 (mV)
NRL Response/75%	24.1/18.1	13.4/10.1	6/4.5	2.1/1.6
Static	28.0	16.1	7.8	3.2
Dynamic Avg	23.5	14.0	6.2	2.6
IVS1_ISO2	**Ch1 (mV)**	**Ch2 (mV)**	**Ch3 (mV)**	**Ch4 (mV)**
NRL Response/75%	20.9/15.7	11.6/8.7	5.2/3.9	2.1/1.6
Static	20.2	11.6	5.7	2.3
Dynamic Avg	17.8	10.5	4.7	1.9
IVS1_ISO3	**Ch1 (mV)**	**Ch2 (mV)**	**Ch3 (mV)**	**Ch4 (mV)**
NRL Response/75%	16.9/12.7	9.4/7.1	4.2/3.2	1.5/1.1
Static	18.9	10.9	5.3	2.2
Dynamic Avg	15.7	9.3	4.1	1.9

5.0 MEASUREMENT QUALITY OBJECTIVES (MQOS)

The MQOs from QAPP Worksheet #22 are presented below. Detailed IVS and Function Test (QC) results are tabulated in the project Access database, which is submitted with the IVS Report and at weekly intervals thereafter.

Worksheet #22 MQOs – Dynamic Survey (Instrument: EM61-MK2A with RTK GPS)

Measurement Quality Objective	DFW/ SOP Reference	Frequency	Responsible Person/ Report Method/ Verified by	Acceptance Criteria	QC Test and IVS Results	Failure Response
Geodetic Equipment Functionality	SOP 551.01.4	Daily	Operator/Daily QC Report/UXOQCS or DGM Data Processor	Measured position of control point within 10 cm of ground truth (RTK GPS) and 10 meters (if wide area augmentation system GPS) if used for reconnaissance activities.	RTK GPS achieved MQO (documented in Access Geodetic Functionality Table). Avg. offset =0.01 m Max offset = 0.015 m	RCA/CA
DGM Positioning Accuracy (EM61-MK2A and RTK GPS at IVS)	SOP 551.01.4	Beginning and end of each day	Field Team Leader/ running QC summary/QC Geophysicist	Derived positions of IVS target(s) are within 25 centimeters of the ground truth locations for RTK and RTS.	Sensor 1910W01 achieved MQO (documented in Access IVS Daily Results Table). Avg. offset =0.06 m Max offset =0.12 m	RCA/CA CA assumption: redo affected work
Instrument Function Test (EM61-MK2A)	SOP 551.01.4	Beginning and end of each day.	Field Team Leader/ running QC summary/QC Geophysicist	Response within 20% of baseline static spike response (comparison with the mean static spike minus mean static background)	Sensor 1910W01 achieved MQO (documented in Access Static Repeatability Test Table)4.3% difference maximum.	RCA/CA CA assumption: redo affected work.

Worksheet #22 MQOs – Dynamic Survey (Instrument: EM61-MK2A with RTK GPS) (continued)

Measurement Quality Objective	DFW/ SOP Reference	Frequency	Responsible Person/ Report Method/ Verified by	Acceptance Criteria	QC Test and IVS Results	Failure Response
DGM Dynamic Detection Repeatability (EM61-MK2A at IVS)	SOP 551.01.4	Beginning and end of each day	Field Team Leader/ running QC summary/ QC Geophysicist	Peak response > 75% of minimum expected response for EM61 target selection channel(s)	Sensor 1910W01 achieved MQO (documented in Access IVS Daily Results Table).	RCA/CA
In-line measurement spacing (EM61-MK2A)	SOP 551.01.4	Verified for each data collection day using existing UX Detect tools based upon sensor center position	Project Geophysicist/ running QC summary/QC Geophysicist	98% ≤ 0.25 meters between successive measurements; 100% <= 1 meter	Sensor 1910W01 achieved MQO (documented in Access Along Line Spacing Table). avg. spacing = 0.05 m	RCA/CA CA assumption: redo affected work.
DGM Dynamic Detection signal repeatability of QC seeds (EM61-MK2A and RTK GPS – QC Seeds)	SOP 551.01.4	Evaluated by survey grid	QC Geophysicist/ QC Seed Production Tracking information/Lead agency QA Geophysicist	Peak response > 75% of expected response	Not applicable for IVS	RCA/CA
DGM Dynamic Detection positioning of QC seeds (EM61-MK2A and RTK GPS – QC Seeds)	SOP 551.01.4	Evaluated by survey grid	QC Geophysicist/ QC Seed Production Tracking information/Lead agency QA Geophysicist	Grids: 90% positioning offset is <=25 cm + ½ line/sensor spacing (62.5 cm) and 100% is <=35 cm + ½ line/sensor for RTK GPS or RTS positioning systems (72.5 cm) Transects: 100% positioning offset is <= 1 m	Not applicable for IVS	RCA/CA

Worksheet #22 MQOs – Dynamic Survey (Instrument: EM61-MK2A with RTK GPS) (continued)

Measurement Quality Objective	DFW/ SOP Reference	Frequency	Responsible Person/ Report Method/ Verified by	Acceptance Criteria	QC Test and IVS Results	Failure Response
DGM Coverage (EM61-MK2A)	SOP 551.01.4	Verified for each data collection day using existing UX Detect tools based upon sensor center position	Project Geophysicist/ running QC summary/QC Geophysicist	>90% coverage of accessible areas at 0.75-meter line spacing and 98% coverage at 1.0-meter line spacing (excluding site-specific access limitations, e.g., obstacles, unsafe terrain)	Background and full coverage seeded survey achieved MQO with at least 98.5% of the area covered at 0.75m line spacing and 100% at 1.0 m line spacing.	RCA/CA CA assumption: Gaps require fill-in lines to achieve required coverage unless no indication of subsurface metal in gap. Analyst will review data surrounding identified gaps to determine the possibility that subsurface metal is present in the gap. If the analyst and USACE Geophysicist agree that the data surrounding the gap indicates there is no potential for subsurface metal in the gap, it will not be recollected.

6.0 TARGET SELECTION CRITERIA

The dynamic noise observed during IVS testing (Table 8), defined as one standard deviation, is 0.53 mV on Channel 2. Channel 1 has the highest SNR and the sum of channels 1-4 and Channel 2 have similar SNR. Based on past experience, Channel 1 often has the highest SNR at the IVS but during production activities can be noisy and is prone to produce false positives in relatively more rugged terrain. Channel 2 is proposed as the targeting channel for this project and was also selected as the targeting channel in the 2012 DGM investigation at the SFDA.

It is anticipated that the noise observed at the IVS will be similar to the levels expected at the SFDA and ABA, however, intermittent site noise has been noted during the production survey. Worksheet #12 Measurement Performance Criteria (MPC) in the project QAPP sets the target selection threshold at five times the site background noise, which is 2.7 mV on Channel 2. Targets will be evaluated for decay and width of response, with those showing improper decay or an anomalous response over a very short distance may be excluded from the final dig list. All anomalies are not proposed for investigation at the ABA and SFDA. The previous DGM survey in 2012 at the SFDA used a target selection threshold of 5 mV on Channel 2. Higher mV targets may be investigated first followed by investigation of targets with smaller signal intensity.

7.0 CONCLUSIONS

The IVS results indicate that Sensor 1910W01 is functioning properly. The Instrument Function Test results indicate the sensor system is repeatable and producing low-noise data in background areas. The Geodetic Equipment Functionality Check indicates the RTK GPS positioning system is functioning properly, and the Dynamic Positioning Accuracy offsets from the IVS items indicate the data is being processed correctly. Overall, the data collection parameters and survey design produce data of sufficient quantity and quality to achieve the project objectives.

The Instrument Function Tests, Dynamic Signal Repeatability, and Dynamic Positioning Accuracy results will be closely monitored during the dynamic survey to ensure Sensor 1910W01 is functioning properly and produces consistent results.

Sincerely,

HGL Geophysics Team:

Joshua DeFrates, HGL Site Geophysicist
Tim Deignan, HGL Project Geophysicist
Charles Nycum, HGL QC Geophysicist

Cc:
Mr. Jeffery Gill, Project Manager/Contracting Officer's Representative, CENWO
Mr. Kevin Wierengo, HGL Project Manager
Mr. Joe Skibinski, HGL Deputy Project Manager
Mr. Dave Nelson, ATI Project Manager

Attachments:
Appendix A: IVS Photos
Appendix B: Daily QC Reports
Appendix C: Depth-Response Curves

References:

Nelson, H.H., T. Bell, J. Kingdon, N. Khadr, and D.A. Steinhurst. 2008. EM61-MK2 Response of Standard Munitions Items. *NRL/MR/6110-08-9155*. October 6, 2008.

APPENDIX A

IVS PHOTOS

CHAAP RI/FS IVS Photos

SFT item location

IVS1_ISO1

IVS1_ISO2

IVS1_ISO3

APPENDIX B

DAILY QC REPORTS

Daily DGM QC and Production Report

Remedial Investigation/Feasibility Study (RI/FS) - Cornhusker Army Ammunition Plant -Grand Island, Nebraska
Contract No. W9128F-16-D-0014, Task Order No. 0002

Date	Week	Sensor Description	Sensor ID	Positioning	Location	Activities	Project Personnel
5/26/2020	Week_01	EM61-MK2A Wheel Platform	1423W01	RTK-GPS	CHAAP	established GPS control points and verified network established by PLS, searched for IVS area, preliminary background survey	Field Geophysicist/Lead: Josh DeFrates Data Processor/Analyst: Josh DeFrates Project Geophysicist: Tim Deignan, RGp QC Geophysicist: Charles Nycum, RGp

Weather	Terrain	Vegetation	Processing Sofware and Version
windy, warm	flat, standing water in areas	grass	Oasis montaj v9.7.1 (20191211.18)

Comments	

Daily Datasets

Dataset ID	Dataset Type	Raw Filename(s)	Processed Filename	Latency (s)
20200526_1423W01_AM	QC	20200526-1423-am; 20200526-1423-am2	20200526_1423W01_AM	
20200526_1423W01_A	IVS_Testing	20200526-1423-b	20200526_1423W01_A	0.33
20200526_1423W01_PM	QC	20200526-1423-pm3	20200526_1423W01_PM	

QC Test Summary

Dataset_ID	Static-Spike QC Status	IVS QC Status	Cable Shake QC Status	Personnel QC Status	XY offset (m)	Positioning QC Status	Comments
20200526_1423W01_AM	Pass	N/A	Pass	Pass	0.044	Pass	SFT:; IVS: ; CS: ; Pers: ; GPS:
20200526_1423W01_PM	Pass	N/A	N/A	N/A		N/A	SFT:; IVS: ; CS: ; Pers: ; GPS:

Survey_MQO_Summary

Static Spike Results

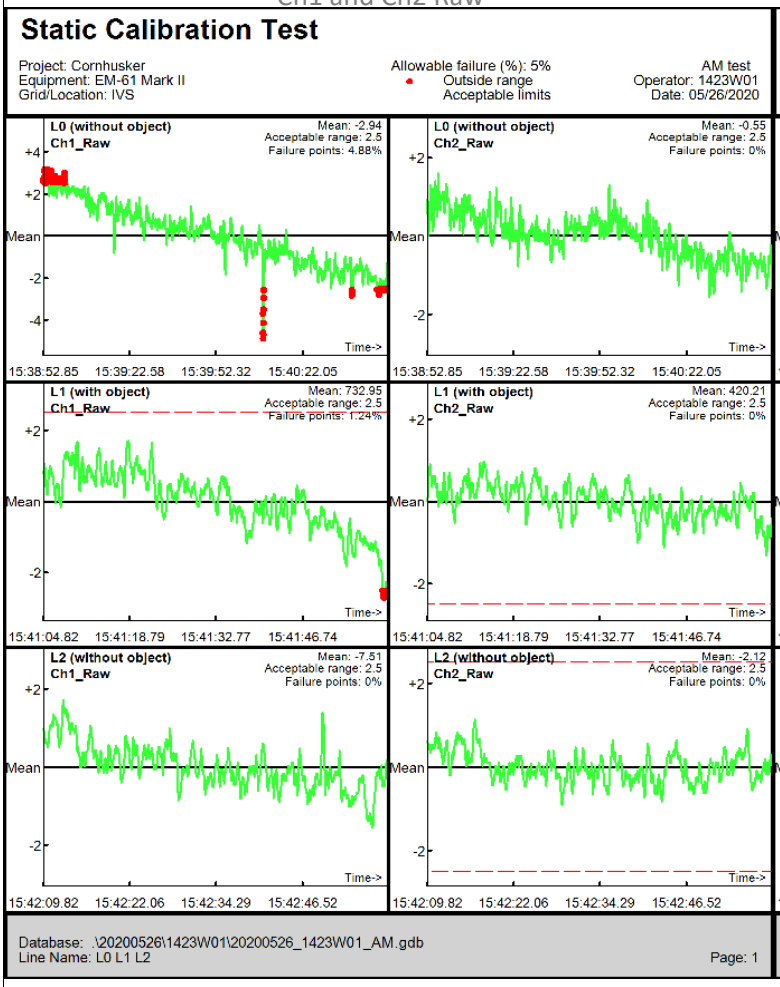
Filename	Sensor ID	Ch1 %Diff	Ch2 %Diff	Ch3 %Diff	Ch4 %Diff	Noise Status	QC Status	Accepted	Comment
20200526_1423W01_AM	1423W01	1.2	0.8	0.7	0.6		Pass	Yes	
20200526_1423W01_PM	1423W01	-1.2	-0.8	-0.7	-0.6		Pass	Yes	

IVS Results

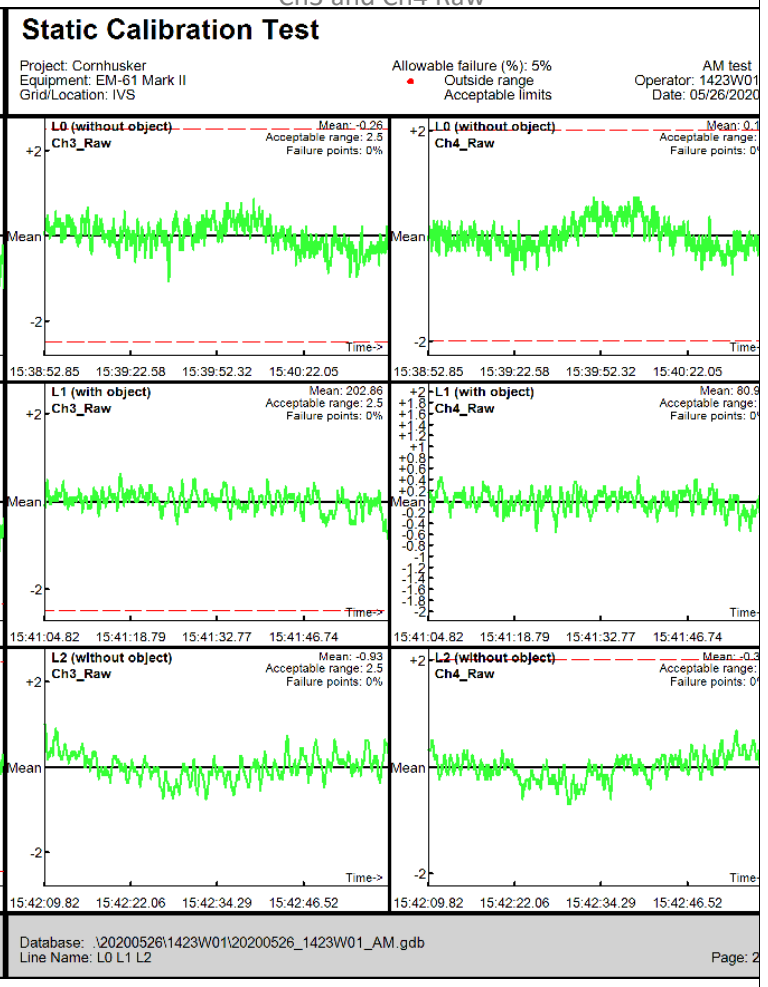
Static Spike Images

20200526_1423W01_AM

Ch1 and Ch2 Raw

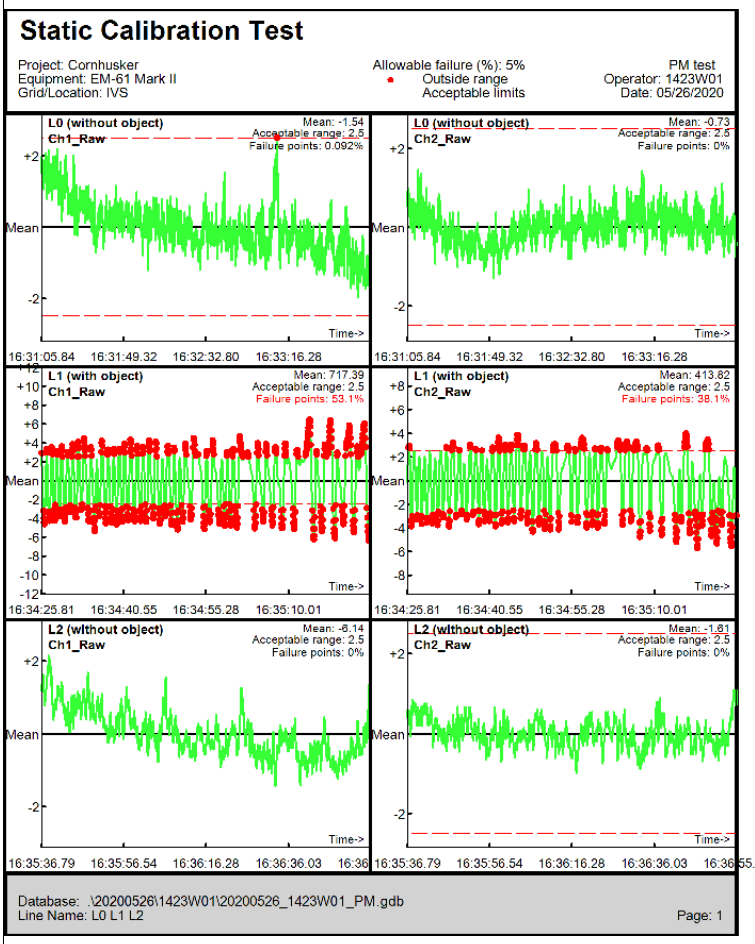


Ch3 and Ch4 Raw

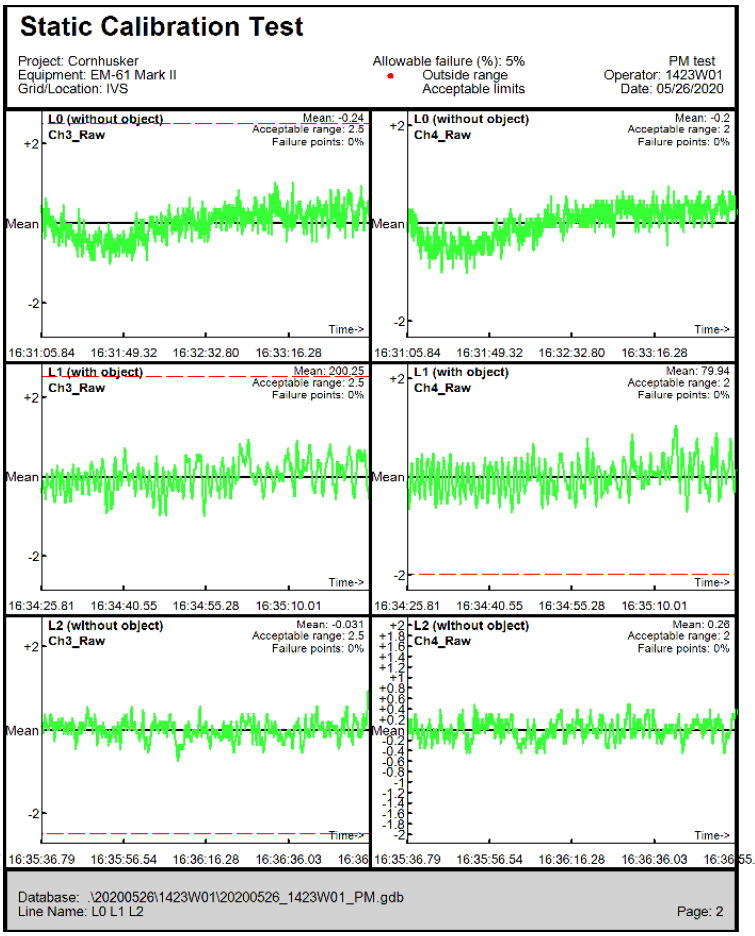


20200526_1423W01_PM

Ch1 and Ch2 Raw



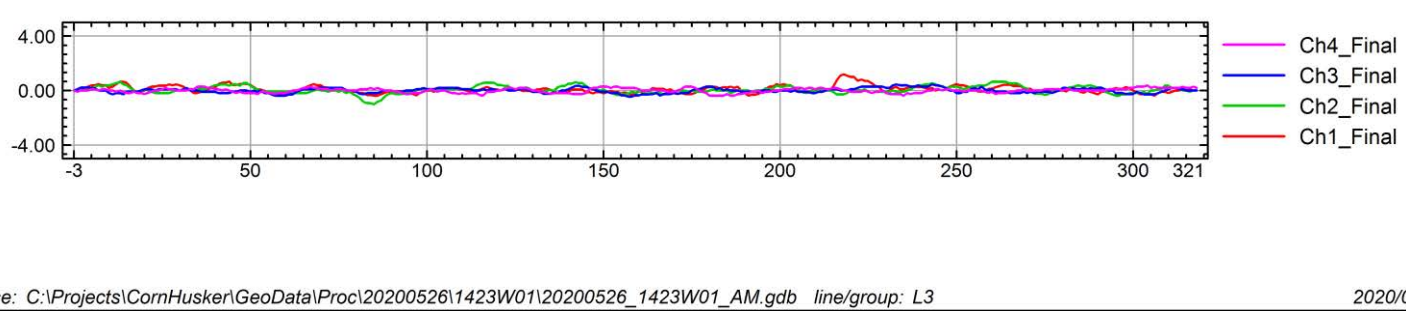
Ch3 and Ch4 Raw



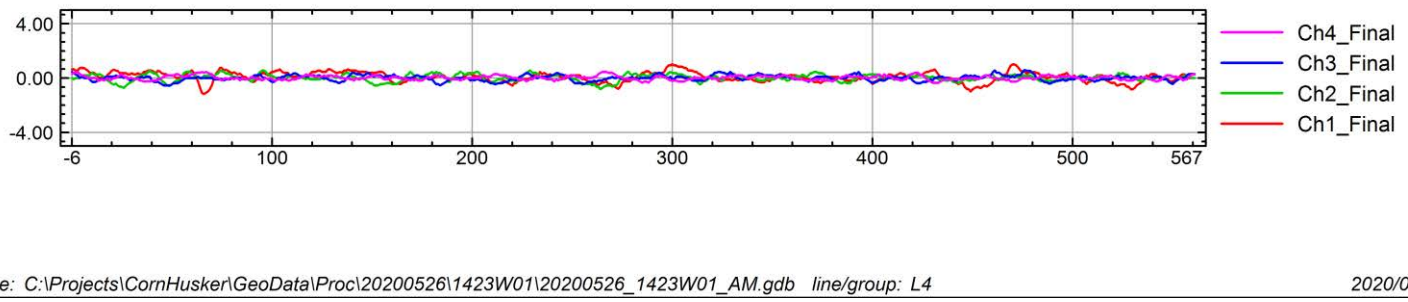
Cable Shake and Personnel Test Images

20200526_1423W01_AM

Cable Shake



Personnel



database: C:\Projects\CornHusker\GeoData\Proc\20200526\1423W01\20200526_1423W01_AM.gdb line/group: L4 *2020/05/26*

Daily DGM QC and Production Report

Remedial Investigation/Feasibility Study (RI/FS) - Cornhusker Army Ammunition Plant -Grand Island, Nebraska
Contract No. W9128F-16-D-0014, Task Order No. 0002

Date	Week	Sensor Description	Sensor ID	Positioning	Location	Activities	Project Personnel
5/27/2020	Week_01	EM61-MK2A Wheel Platform	1910W01	RTK-GPS	IVS and SFDA	established IVS and performed data collection along transects in the SFDA	Field Geophysicist/Lead: Josh DeFrates Data Processor/Analyst: Josh DeFrates Project Geophysicist: Tim Deignan, RGp QC Geophysicist: Charles Nycum, RGp

Weather	Terrain	Vegetation	Processing Sofware and Version
calm, warm	flat, standing water in areas	grass	Oasis montaj v9.7.1 (20191211.18)

Comments	

Daily Datasets

Dataset ID	Dataset Type	Raw Filename(s)	Processed Filename	Latency (s)
20200527_1910W01_AM	QC	20200527-AM	20200527_1910W01_AM	
20200527_1910W01_A	IVS_Testing	20200527-A	20200527_1910W01_Bkgd	0.33
20200527_1910W01_B	IVS_Testing	20200527-B	20200527_1910W01_Bkgd	0.33
20200527_1910W01_C	IVS_Testing	20200527-C	20200527_1910W01_C	
20200527_1910W01_D	IVS_Testing	20200527-D	20200527_1910W01_D	0.381
20200527_1910W01_E	IVS_Testing	20200527-E	20200527_1910W01_E	0.381
20200527_1910W01_M1	Midday_Static	20200527-M1	20200527_1910W01_M1	
20200527_1910W01_M2	QC	20200527-M3; 20200527-M4	20200527_1910W01_M2	0.365
20200527_1910W01_F	IVS_Testing	20200527-F	20200527_1910W01_F	
20200527_1910W01_G	IVS_Testing	20200527-G	20200527_1910W01_G	0.381
20200527_1910W01_H	DGM_Transects	20200527SFDA	20200527_1910W01_H	0.381
20200527_1910W01_PM	QC	20200527PM	20200527_1910W01_PM	0.329

QC Test Summary

Dataset_ID	Static-Spike QC Status	IVS QC Status	Cable Shake QC Status	Personnel QC Status	XY offset (m)	Positioning QC Status	Comments
20200527_1910W01_AM	Pass	N/A	Pass	Pass		N/A	SFT:; IVS: ; CS: ; Pers: ; GPS:
20200527_1910W01_M1	Pass	N/A	N/A	N/A		N/A	SFT:; IVS: ; CS: ; Pers: ; GPS:
20200527_1910W01_M2	Pass	Pass	N/A	N/A		N/A	SFT:; IVS: ; CS: ; Pers: ; GPS:

Dataset_ID	Static-Spike QC Status	IVS QC Status	Cable Shake QC Status	Personnel QC Status	XY offset (m)	Positioning QC Status	Comments
20200527_1910W01_PM	Pass	Pass	N/A	N/A	0.027	Pass	SFT:; IVS: ; CS: ; Pers: ; GPS:

Survey_MQO_Summary

Static Spike Results

Filename	Sensor ID	Ch1 %Diff	Ch2 %Diff	Ch3 %Diff	Ch4 %Diff	Noise Status	QC Status	Accepted	Comment
20200527_1910W01_AM	1910W01	4.3	4.1	4.0	3.7		Pass	Yes	
20200527_1910W01_M1	1910W01	-2.2	-2.0	-1.8	-1.4		Pass	Yes	
20200527_1910W01_M2	1910W01	-0.3	-0.4	-0.6	-0.9		Pass	Yes	
20200527_1910W01_PM	1910W01	-1.8	-1.7	-1.6	-1.4		Pass	Yes	

IVS Results

Filename	Sensor ID	ISO	Ch1 %Diff	Ch2 %Diff	Ch3 %Diff	Ch4 %Diff	Offset	Pos	Ch2 Noise	Comment
20200527_1910W01_E	1910W01	1	-5.2	-5.9	N/A	N/A	0.11 m	RTK	0.53	
20200527_1910W01_E	1910W01	1	-1.8	-2.1	N/A	N/A	0.06 m	RTK	0.53	
20200527_1910W01_E	1910W01	1	-1.7	-0.7	N/A	N/A	0.02 m	RTK	0.53	
20200527_1910W01_E	1910W01	1	-2.1	-1.4	N/A	N/A	0.08 m	RTK	0.53	
20200527_1910W01_E	1910W01	1	-1.7	-2.6	N/A	N/A	0.11 m	RTK	0.53	
20200527_1910W01_E	1910W01	1	-2.9	-6.6	N/A	N/A	0.03 m	RTK	0.53	
20200527_1910W01_E	1910W01	1	4.3	6.0	N/A	N/A	0.05 m	RTK	0.53	
20200527_1910W01_E	1910W01	1	4.1	7.5	N/A	N/A	0.04 m	RTK	0.53	
20200527_1910W01_E	1910W01	1	2.2	5.3	N/A	N/A	0.04 m	RTK	0.53	
20200527_1910W01_E	1910W01	1	-1.7	-2.6	N/A	N/A	0.02 m	RTK	0.53	
20200527_1910W01_E	1910W01	1	-2.3	-2.8	N/A	N/A	0.05 m	RTK	0.53	
20200527_1910W01_E	1910W01	1	8.7	6.0	N/A	N/A	0.08 m	RTK	0.53	

Daily DGM QC and Production Report

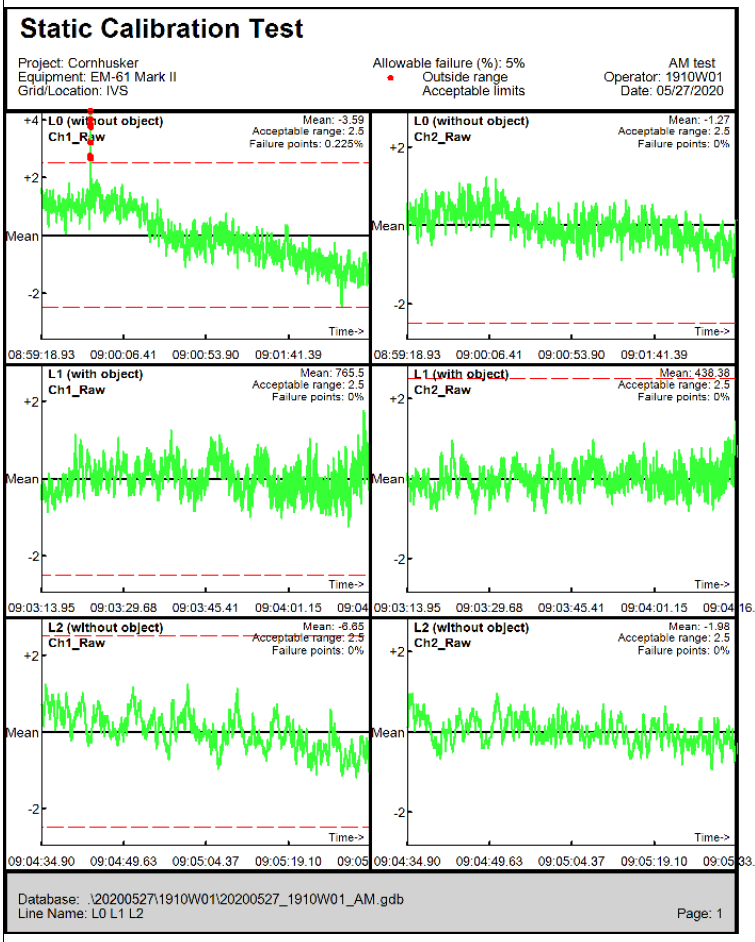
Remedial Investigation/Feasibility Study (RI/FS) - Cornhusker Army Ammunition Plant -Grand Island, Nebraska
Contract No. W9128F-16-D-0014, Task Order No. 0002

Filename	Sensor ID	ISO	Ch1 %Diff	Ch2 %Diff	Ch3 %Diff	Ch4 %Diff	Offset	Pos	Ch2 Noise	Comment
20200527_1910W01_E	1910W01	2	-3.9	-6.7	N/A	N/A	0.02 m	RTK	0.53	
20200527_1910W01_E	1910W01	2	11.0	13.2	N/A	N/A	0.07 m	RTK	0.53	
20200527_1910W01_E	1910W01	2	2.4	1.7	N/A	N/A	0.07 m	RTK	0.53	
20200527_1910W01_E	1910W01	2	4.3	2.7	N/A	N/A	0.12 m	RTK	0.53	
20200527_1910W01_E	1910W01	2	1.9	4.5	N/A	N/A	0.03 m	RTK	0.53	
20200527_1910W01_E	1910W01	2	4.0	7.2	N/A	N/A	0.05 m	RTK	0.53	
20200527_1910W01_E	1910W01	2	-7.0	-5.3	N/A	N/A	0.02 m	RTK	0.53	
20200527_1910W01_E	1910W01	2	-1.7	-7.0	N/A	N/A	0.07 m	RTK	0.53	
20200527_1910W01_E	1910W01	2	-3.3	-2.8	N/A	N/A	0.02 m	RTK	0.53	
20200527_1910W01_E	1910W01	2	-6.9	-7.9	N/A	N/A	0.03 m	RTK	0.53	
20200527_1910W01_E	1910W01	2	-7.2	-4.5	N/A	N/A	0.06 m	RTK	0.53	
20200527_1910W01_E	1910W01	2	6.1	5.3	N/A	N/A	0.08 m	RTK	0.53	
20200527_1910W01_E	1910W01	3	1.0	-4.3	N/A	N/A	0.06 m	RTK	0.53	
20200527_1910W01_E	1910W01	3	-0.1	-6.4	N/A	N/A	0.07 m	RTK	0.53	
20200527_1910W01_E	1910W01	3	7.8	4.6	N/A	N/A	0.08 m	RTK	0.53	
20200527_1910W01_E	1910W01	3	-3.3	-3.2	N/A	N/A	0.05 m	RTK	0.53	
20200527_1910W01_E	1910W01	3	3.4	6.7	N/A	N/A	0.05 m	RTK	0.53	
20200527_1910W01_E	1910W01	3	-4.7	-4.1	N/A	N/A	0.02 m	RTK	0.53	
20200527_1910W01_E	1910W01	3	-3.6	-2.2	N/A	N/A	0.06 m	RTK	0.53	
20200527_1910W01_E	1910W01	3	9.8	13.1	N/A	N/A	0.03 m	RTK	0.53	
20200527_1910W01_E	1910W01	3	-6.5	-5.2	N/A	N/A	0.08 m	RTK	0.53	
20200527_1910W01_E	1910W01	3	6.0	11.0	N/A	N/A	0.07 m	RTK	0.53	
20200527_1910W01_E	1910W01	3	-7.0	-5.1	N/A	N/A	0.07 m	RTK	0.53	
20200527_1910W01_E	1910W01	3	-3.0	-5.2	N/A	N/A	0.04 m	RTK	0.53	
20200527_1910W01_M2	1910W01	1	-2.6	-1.7	N/A	N/A	0.06 m	RTK	0.48	
20200527_1910W01_M2	1910W01	2	4.6	2.6	N/A	N/A	0.05 m	RTK	0.48	
20200527_1910W01_M2	1910W01	3	1.4	-1.1	N/A	N/A	0.04 m	RTK	0.48	
20200527_1910W01_PM	1910W01	1	16.2	-5.8	N/A	N/A	0.06 m	RTK	0.38	
20200527_1910W01_PM	1910W01	2	-13.9	4.2	N/A	N/A	0.02 m	RTK	0.38	
20200527_1910W01_PM	1910W01	3	24.6	-2.7	N/A	N/A	0.06 m	RTK	0.38	

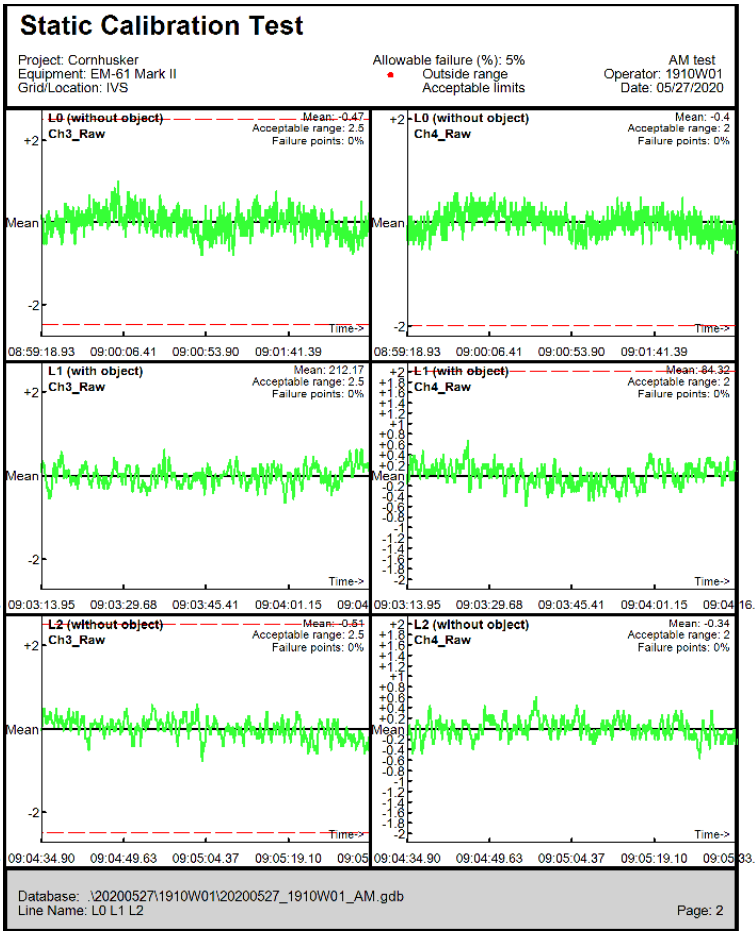
Static Spike Images

20200527_1910W01_AM

Ch1 and Ch2 Raw

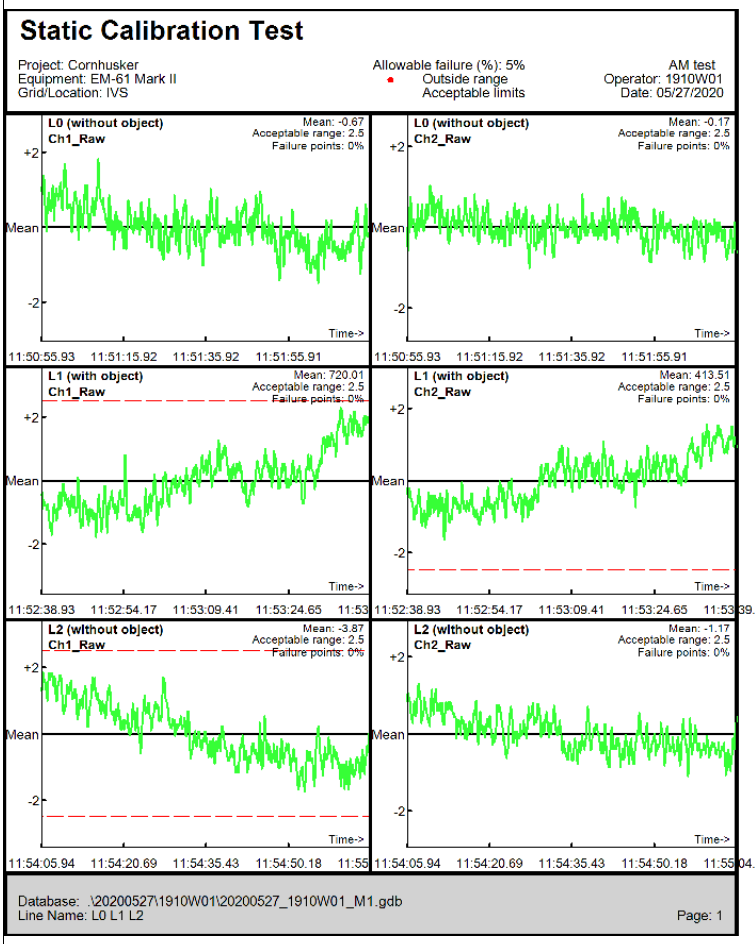


Ch3 and Ch4 Raw

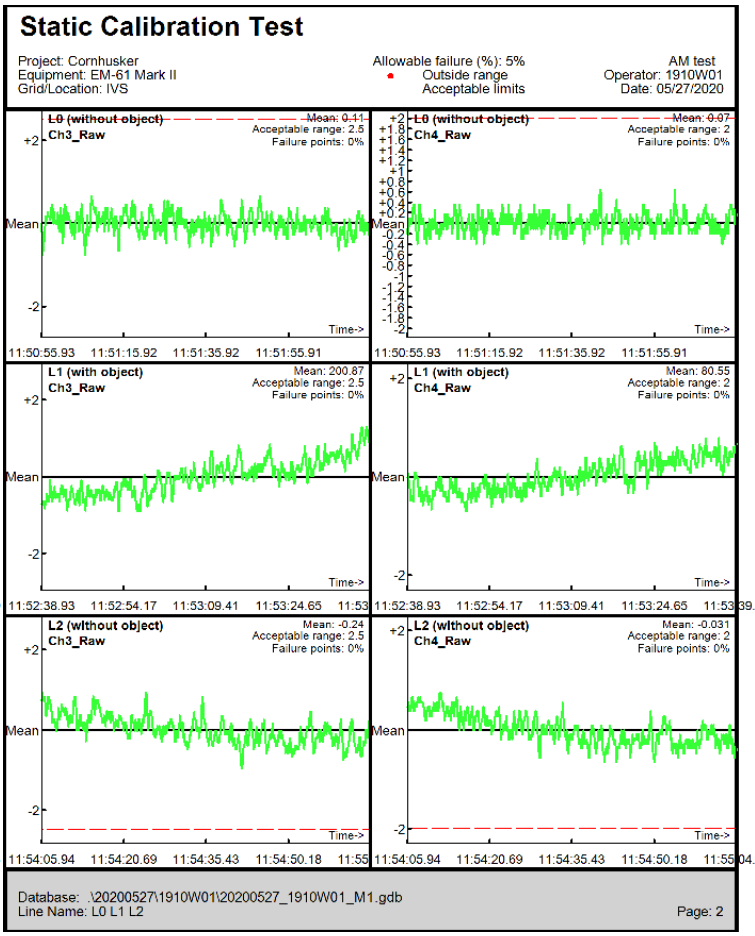


20200527_1910W01_M1

Ch1 and Ch2 Raw

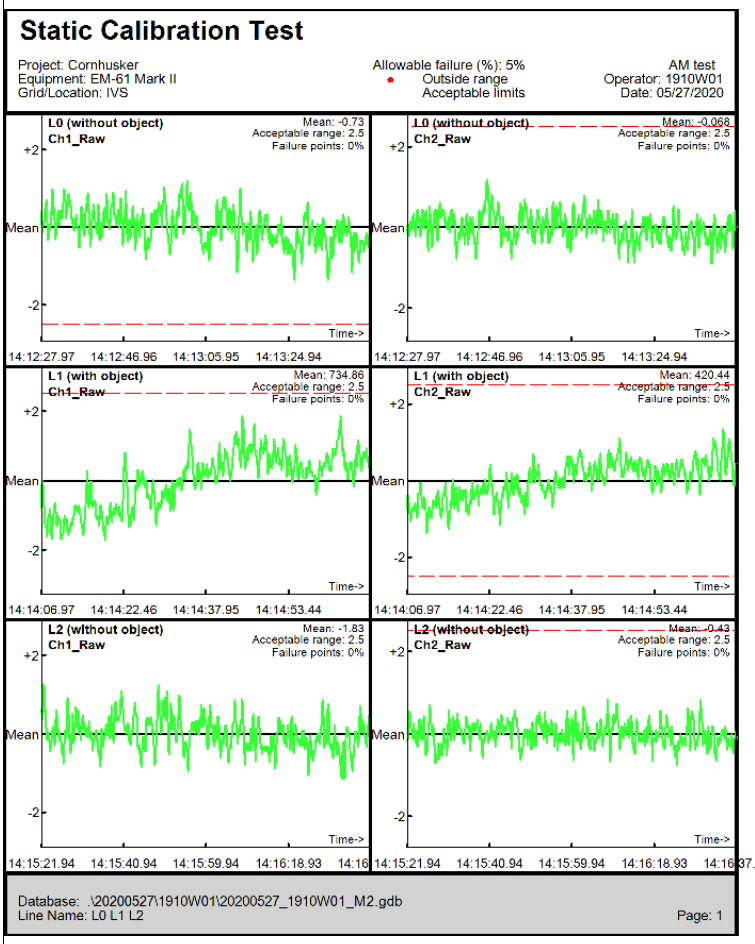


Ch3 and Ch4 Raw

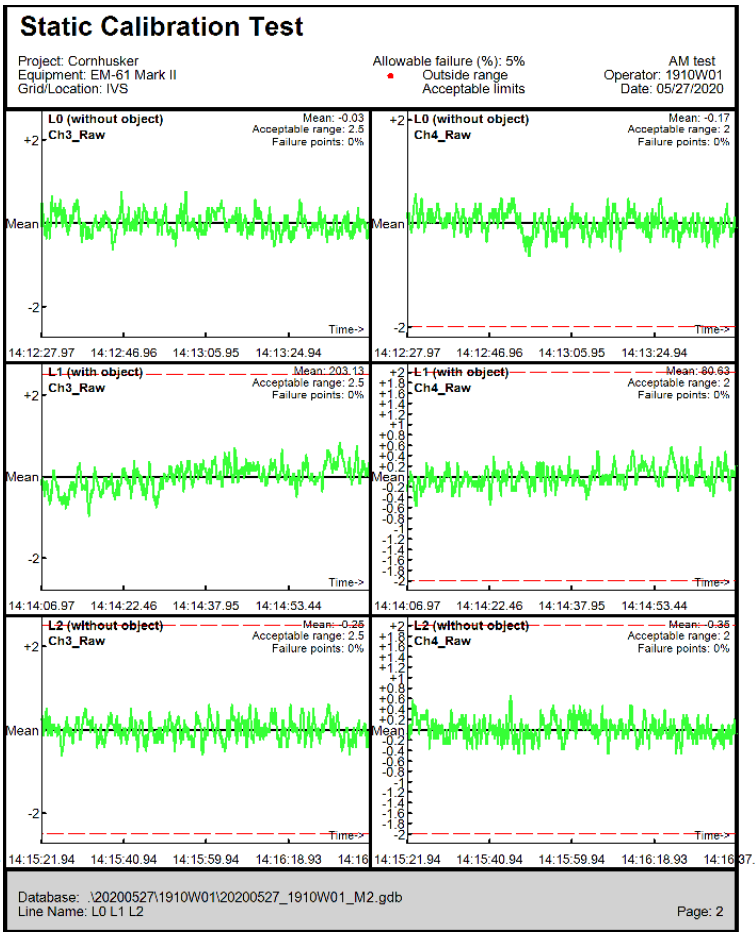


20200527_1910W01_M2

Ch1 and Ch2 Raw

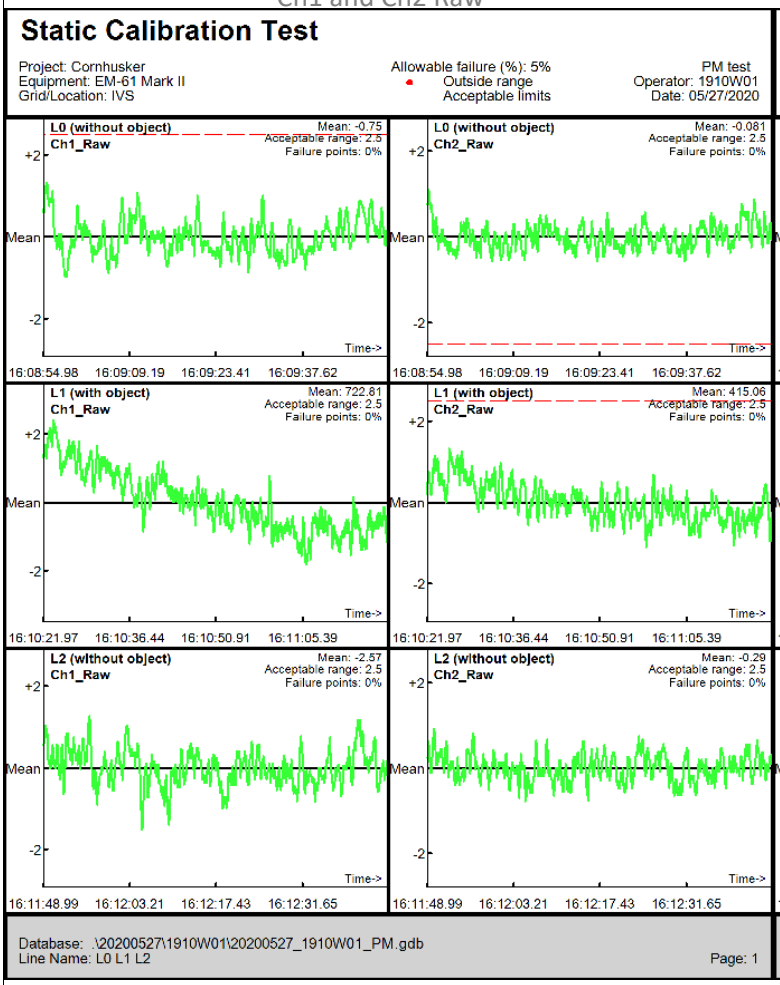


Ch3 and Ch4 Raw

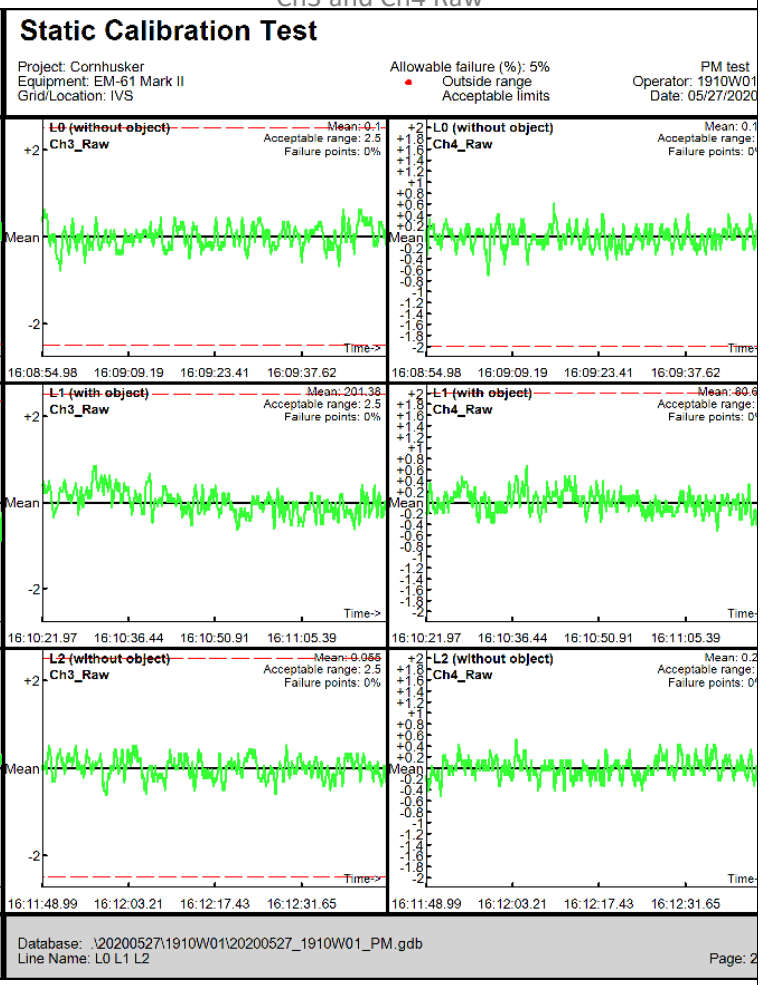


20200527_1910W01_PM

Ch1 and Ch2 Raw



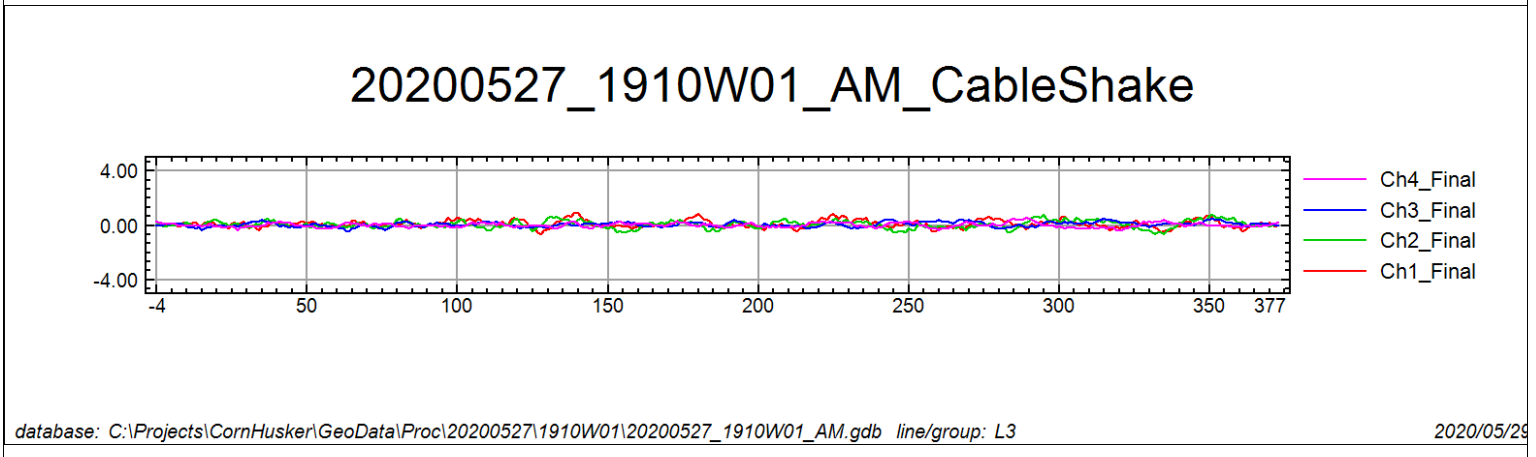
Ch3 and Ch4 Raw



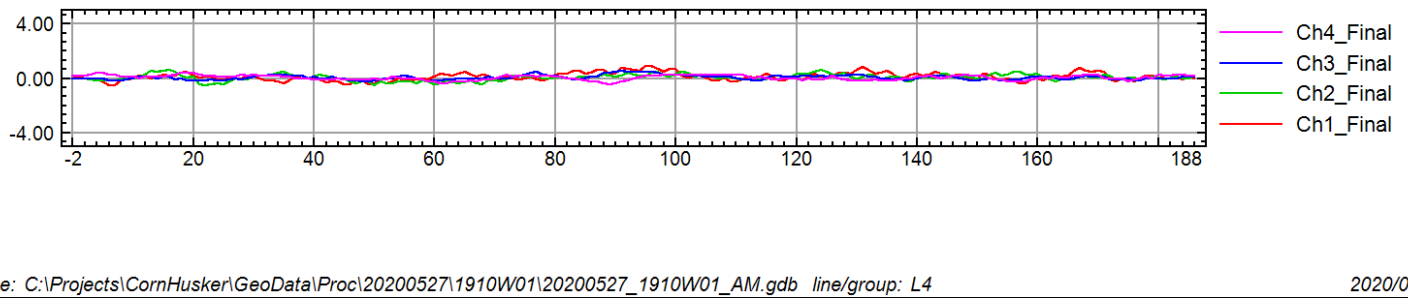
Cable Shake and Personnel Test Images

20200527_1910W01_AM

Cable Shake



Personnel



database: C:\Projects\CornHusker\GeoData\Proc\20200527\1910W01\20200527_1910W01_AM.gdb line/group: L4 *2020/05/29*

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APPENDIX C

DEPTH-RESPONSE CURVES

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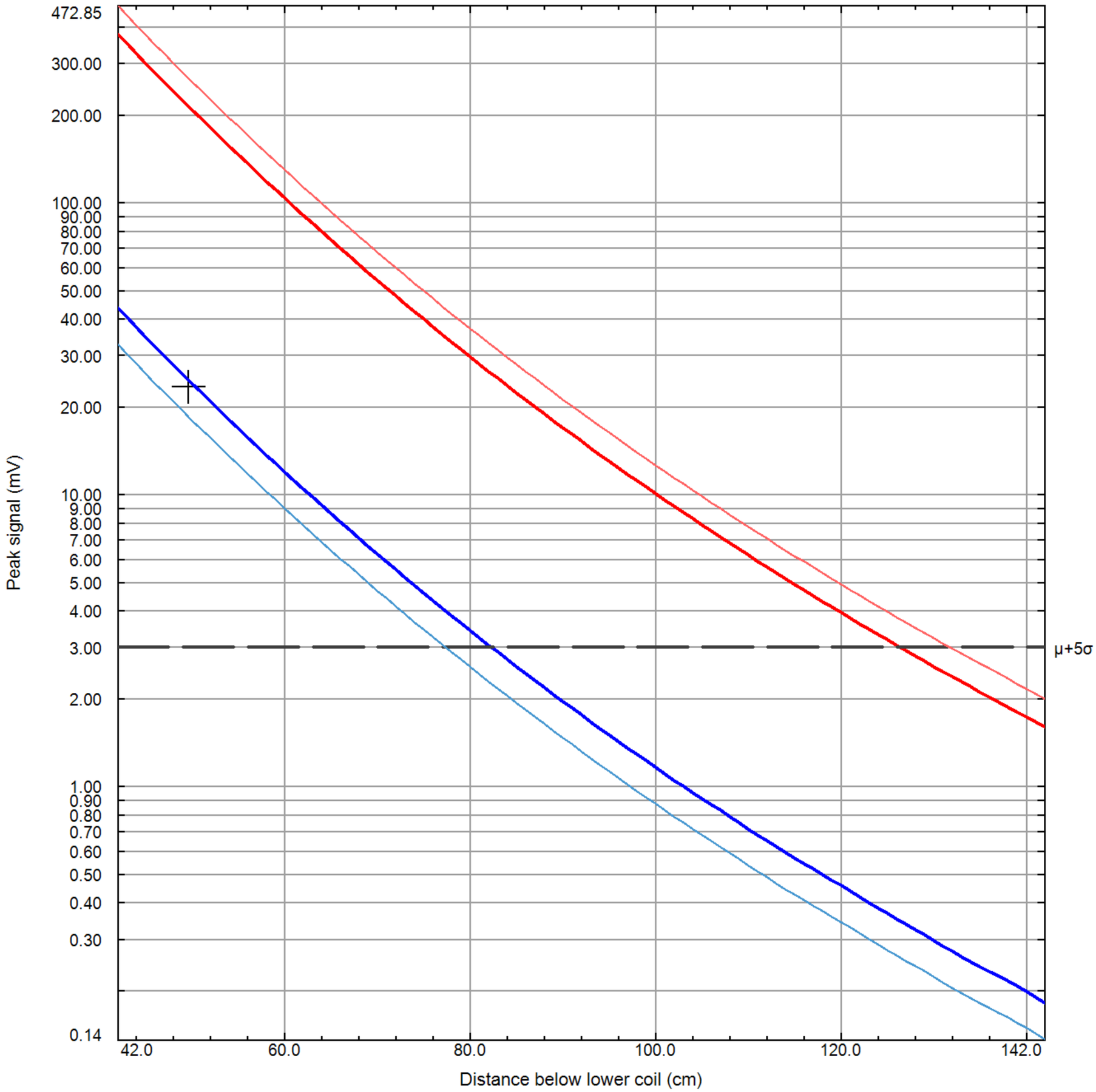
EM61-MK2[4] Gate 1 - Small Surrogate



MAP

Depth/Response Curve

IVS1_ISO1

LEGEND

- Noise Level
- Most favorable orientation
- Least favorable orientation

μ: 0.00

σ: 0.60

No of targets inside the original band: 0

No of targets inside the extended band: 1

No of targets outside the bands: 0

Minor bands are 25% of expected

Map Scale: Scale 1:7 (0 – 10 centimetre)

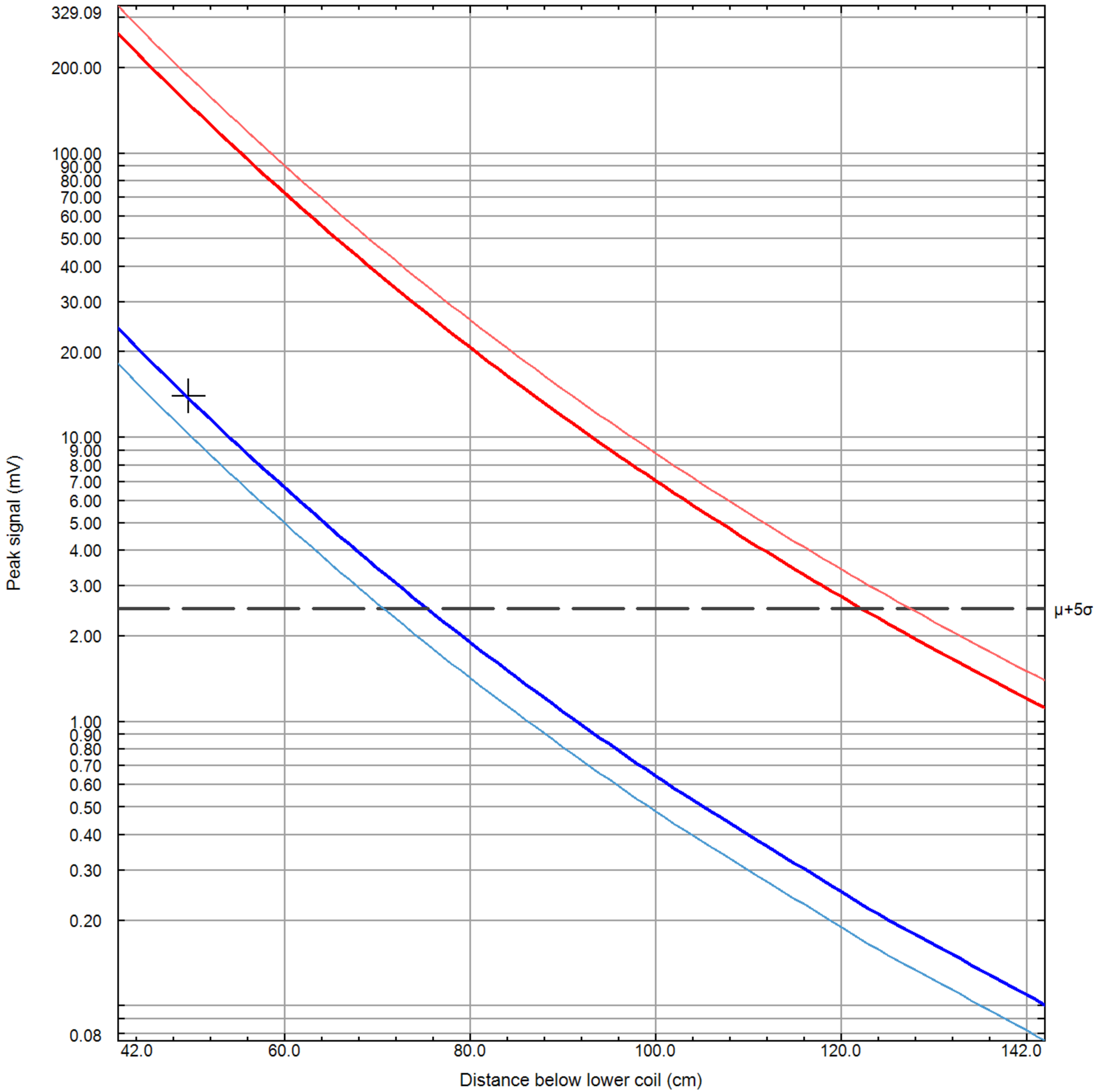
Client: USACE-Omaha

Project: CHAAP

Contractor: ATI/HGL

Created by: Josh DeF.	**Verified by:**
Date: 2020/05/15	**File: IVS1_ISO1_Small Surroga...**
Page number:	**Approved:**

EM61-MK2[4] Gate 2 - Small Surrogate



MAP

Depth/Response Curve

IVS1_ISO1

LEGEND

- Noise Level
- Most favorable orientation
- Least favorable orientation

μ: 0.00

σ: 0.50

No of targets inside the original band: 1

No of targets inside the extended band: 0

No of targets outside the bands: 0

Minor bands are 25% of expected

Map Scale: Scale 1:7 (0 – 10 centimetre)

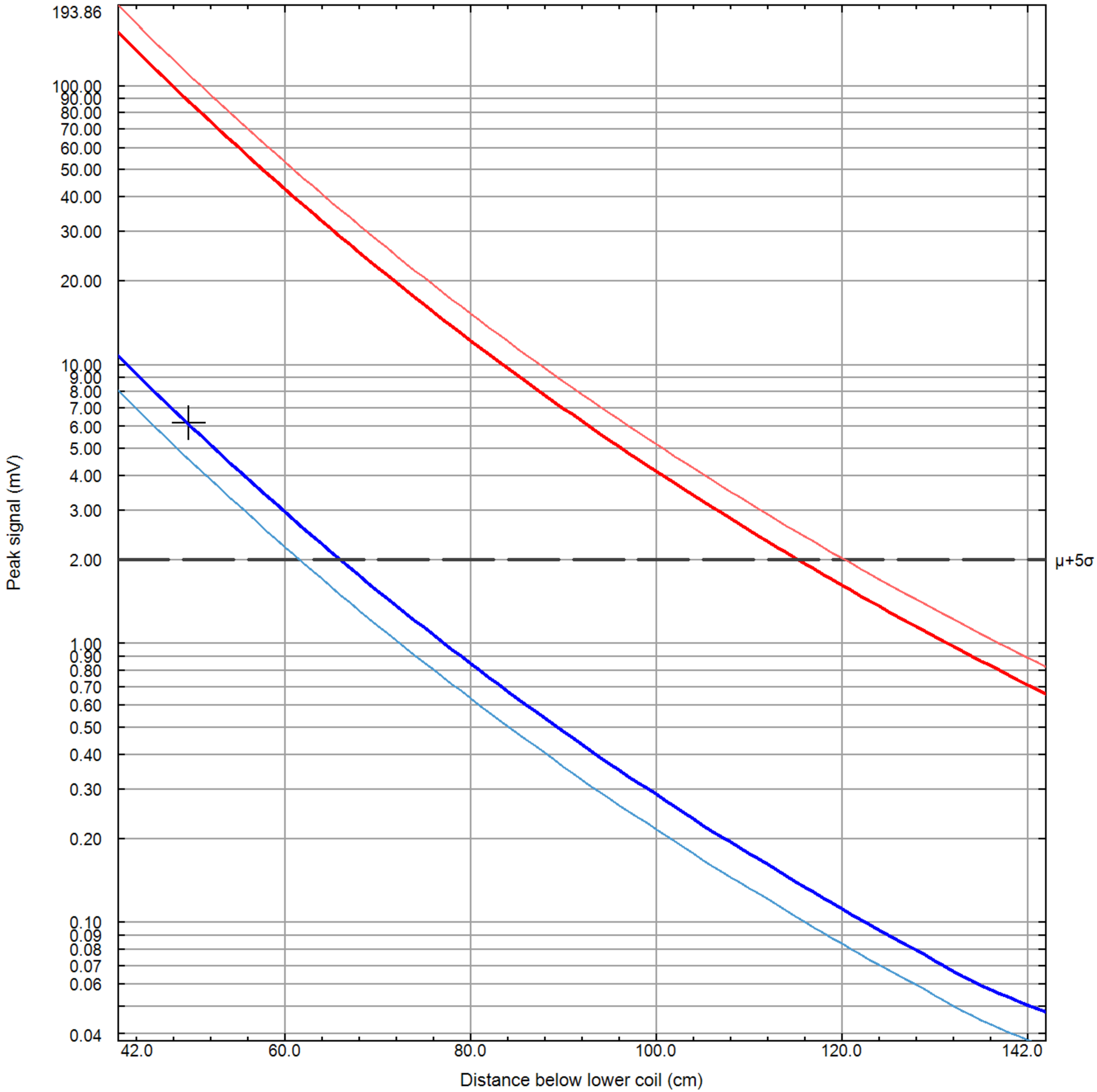
Client: USACE-Omaha

Project: CHAAP

Contractor: ATI/HGL

Created by: Josh DeF.	**Verified by:**
Date: 2020/05/15	**File: IVS1_ISO1_Small Surroga...**
Page number:	**Approved:**

EM61-MK2[4] Gate 3 - Small Surrogate



MAP

Depth/Response Curve

IVS1_ISO1

LEGEND

Noise Level

Most favorable orientation

Least favorable orientation

μ: 0.00

σ: 0.40

No of targets inside the original band: 1

No of targets inside the extended band: 0

No of targets outside the bands: 0

Minor bands are 25% of expected

Map Scale: Scale 1:7

0 10

centimetre

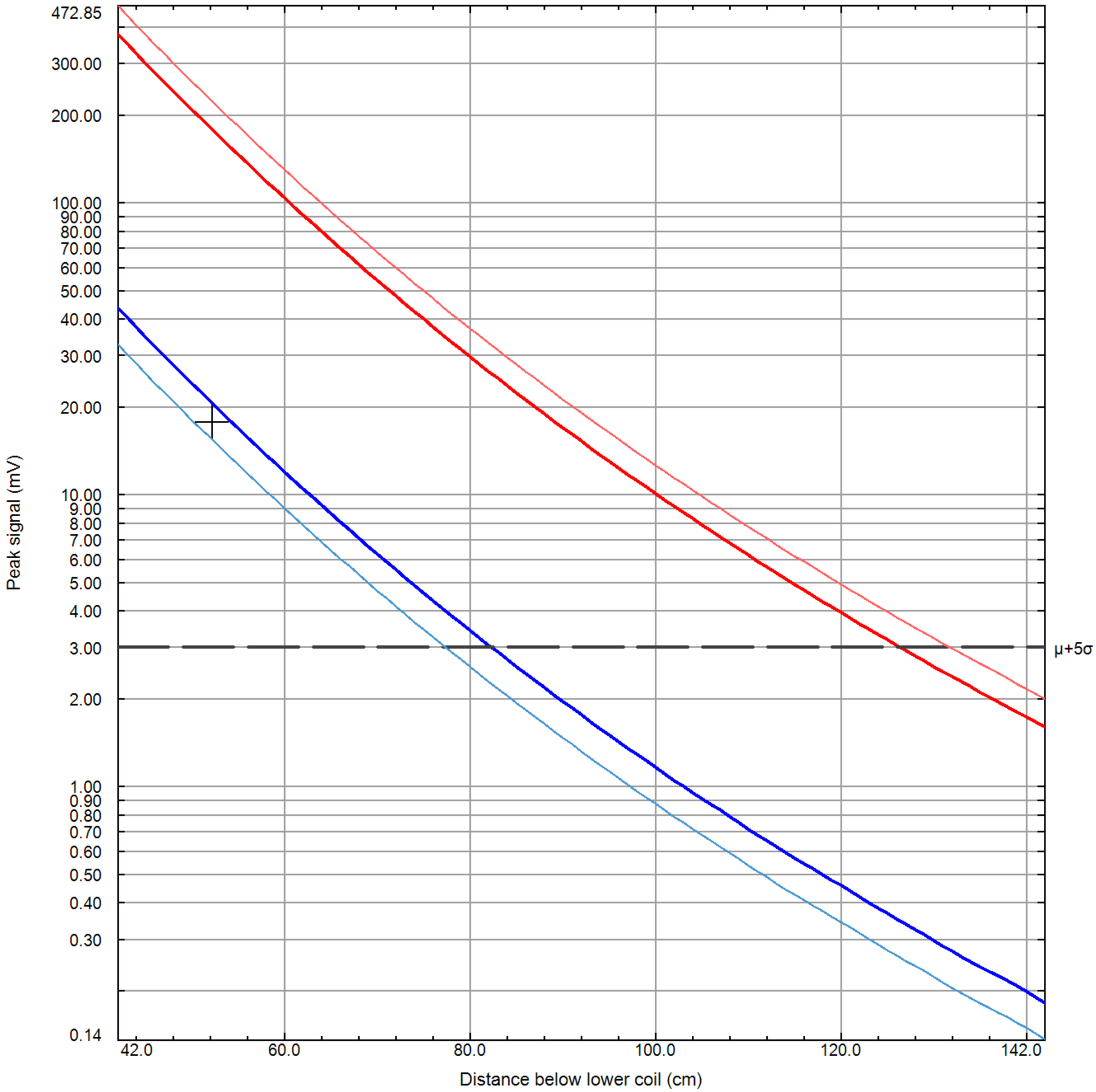
Client: USACE-Omaha

Project: CHAAP

Contractor: ATI/HGL

Created by: Josh DeF.	Verified by:
Date: 2020/05/15	File: IVS1_ISO1_Small Surroga...
Page number:	Approved:

EM61-MK2[4] Gate 1 - Small Surrogate



MAP

Depth/Response Curve

IVS1_ISO2

LEGEND

- Noise Level
- Most favorable orientation
- Least favorable orientation

μ: 0.00

σ: 0.60

No of targets inside the original band: 0

No of targets inside the extended band: 1

No of targets outside the bands: 0

Minor bands are 25% of expected

Map Scale: Scale 1:7 (0 – 10 centimetre)

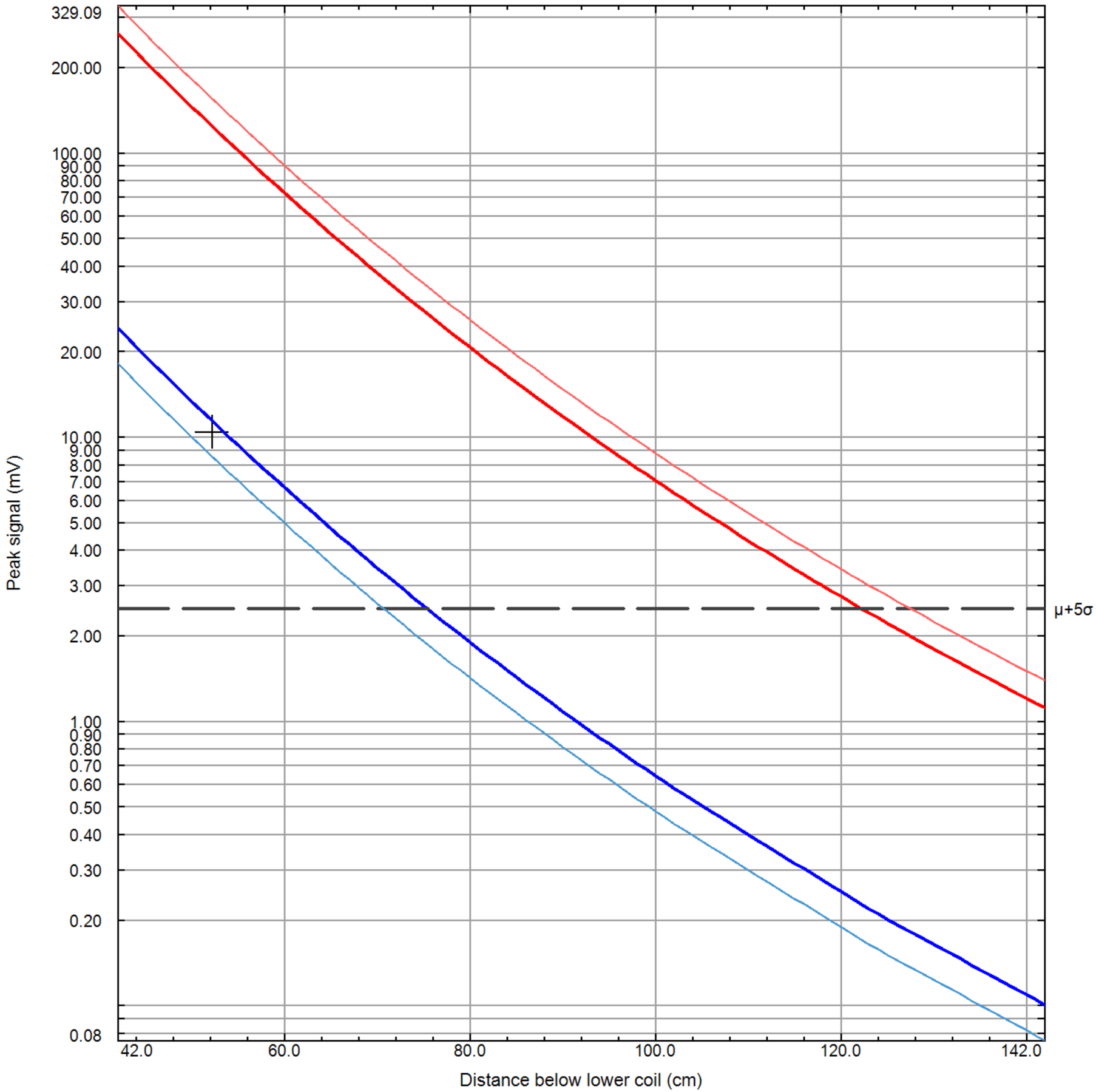
Client: USACE-Omaha

Project: CHAAP

Contractor: ATI/HGL

Created by: Josh DeF.	**Verified by:**
Date: 2020/05/15	**File: IVS1_ISO2_Small Surroga...**
Page number:	**Approved:**

EM61-MK2[4] Gate 2 - Small Surrogate



MAP

Depth/Response Curve

IVS1_ISO2

LEGEND

Noise Level

Most favorable orientation

Least favorable orientation

μ: 0.00

σ: 0.50

No of targets inside the original band: 0

No of targets inside the extended band: 1

No of targets outside the bands: 0

Minor bands are 25% of expected

Map Scale: Scale 1:7

0 10

centimetre

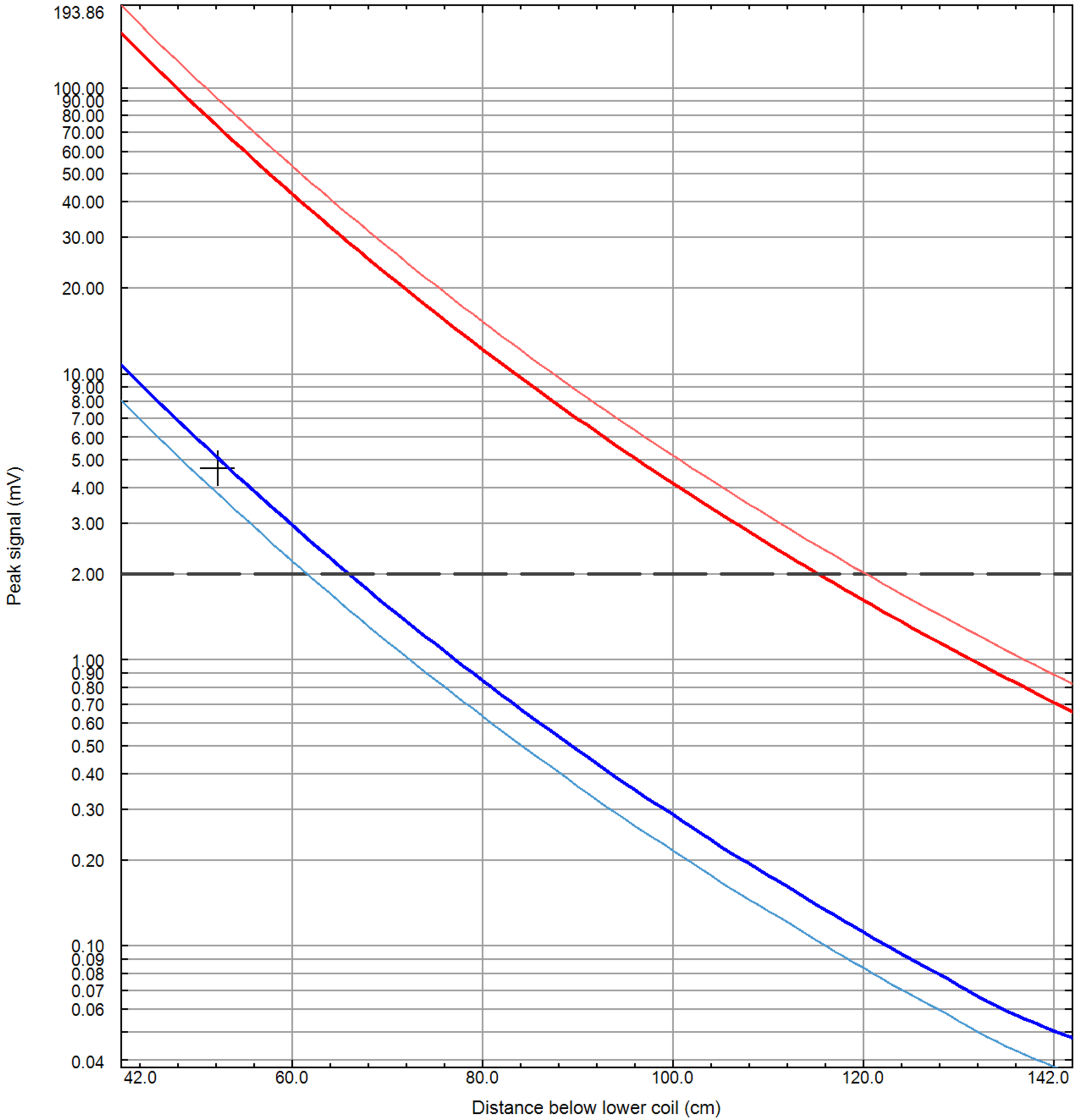
Client: USACE-Omaha

Project: CHAAP

Contractor: ATI/HGL

Created by: Josh DeF.	Verified by:
Date: 2020/05/15	File: IVS1_ISO2_Small Surroga...
Page number:	Approved:

EM61-MK2[4] Gate 3 - Small Surrogate



MAP

Depth/Response Curve

IVS1_ISO2

LEGEND

- Noise Level
- Most favorable orientation
- Least favorable orientation

μ: 0.00

σ: 0.40

No of targets inside the original band: 0

No of targets inside the extended band: 1

No of targets outside the bands: 0

Minor bands are 25% of expected

Map Scale: Scale 1:7

0 10

centimetre

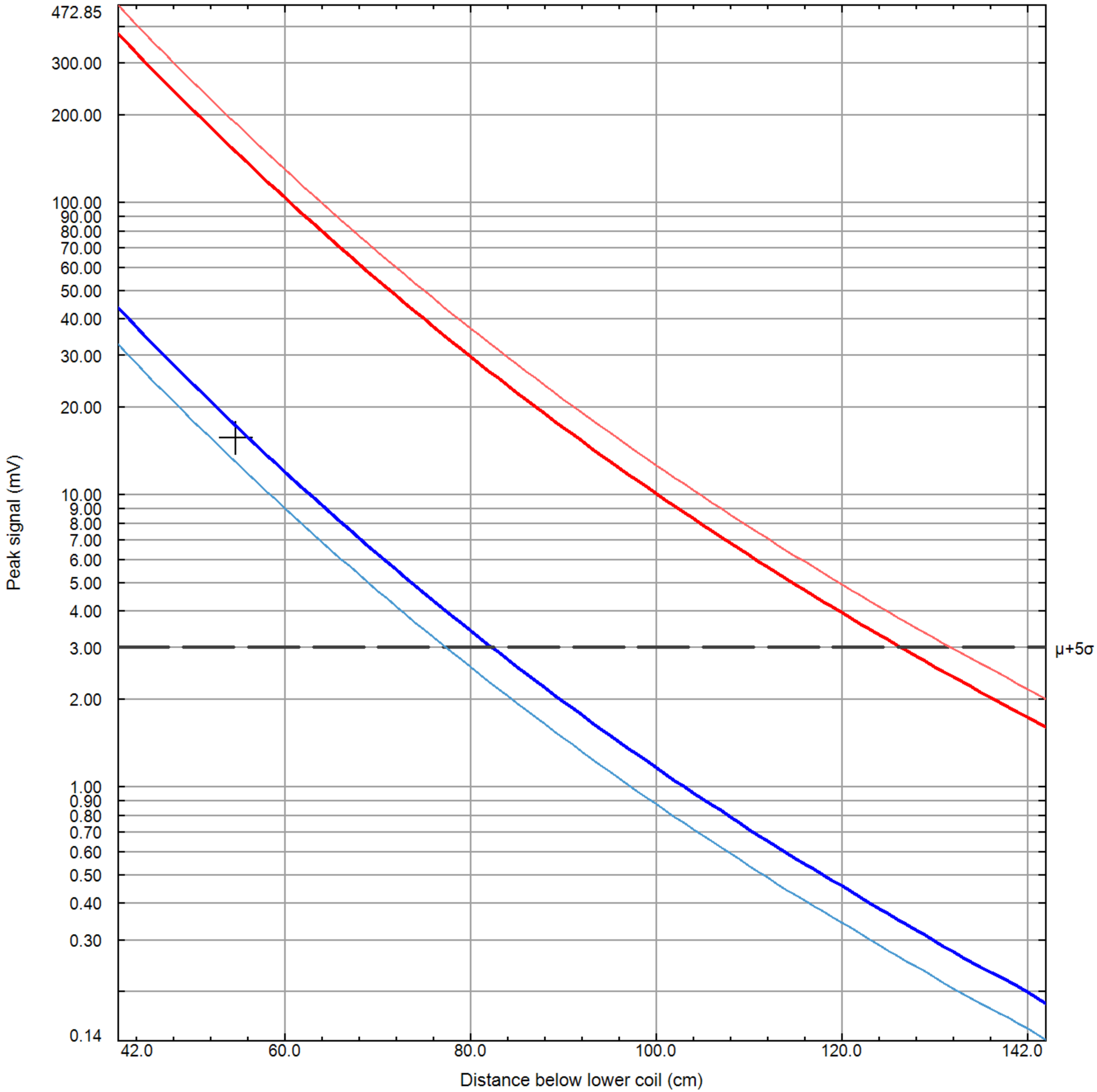
Client: USACE-Omaha

Project: CHAAP

Contractor: ATI/HGL

Created by: Josh DeF.	Verified by:
Date: 2020/05/15	File: IVS1_ISO2_Small Surroga...
Page number:	Approved:

EM61-MK2[4] Gate 1 - Small Surrogate



MAP

Depth/Response Curve

IVS1_ISO3

LEGEND

- Noise Level
- Most favorable orientation
- Least favorable orientation

μ: 0.00

σ: 0.60

No of targets inside the original band: 0

No of targets inside the extended band: 1

No of targets outside the bands: 0

Minor bands are 25% of expected

Map Scale: Scale 1:7

0 10 centimetre

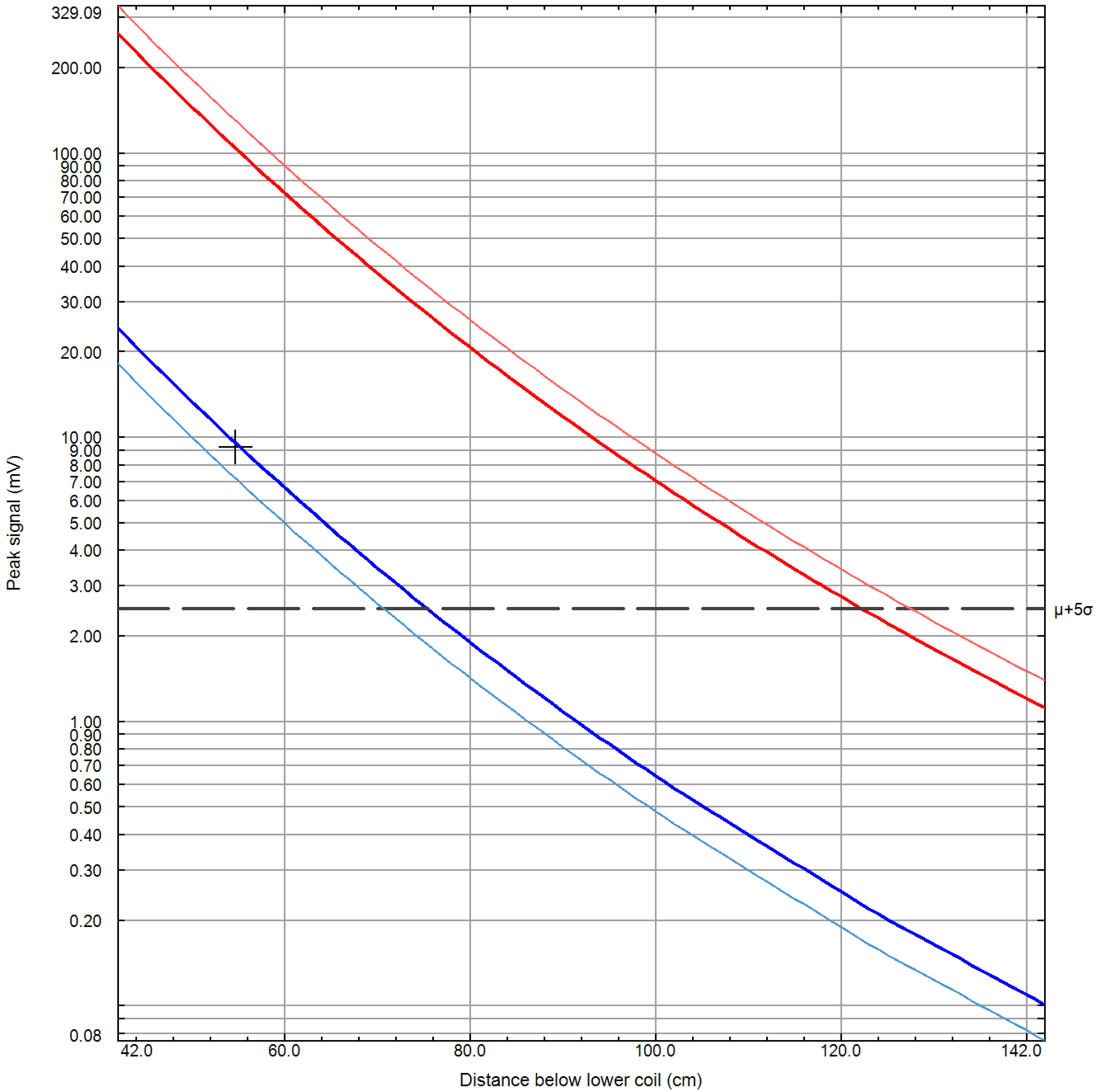
Client: USACE-Omaha

Project: CHAAP

Contractor: ATI/HGL

Created by: Josh DeF.	Verified by:
Date: 2020/05/15	File: IVS1_ISO3_Small Surroga...
Page number:	Approved:

EM61-MK2[4] Gate 2 - Small Surrogate



MAP

Depth/Response Curve

IVS1_ISO3

LEGEND

- Noise Level
- Most favorable orientation
- Least favorable orientation

μ: 0.00

σ: 0.50

No of targets inside the original band: 0

No of targets inside the extended band: 1

No of targets outside the bands: 0

Minor bands are 25% of expected

Map Scale: Scale 1:7 (0 – 10 centimetre)

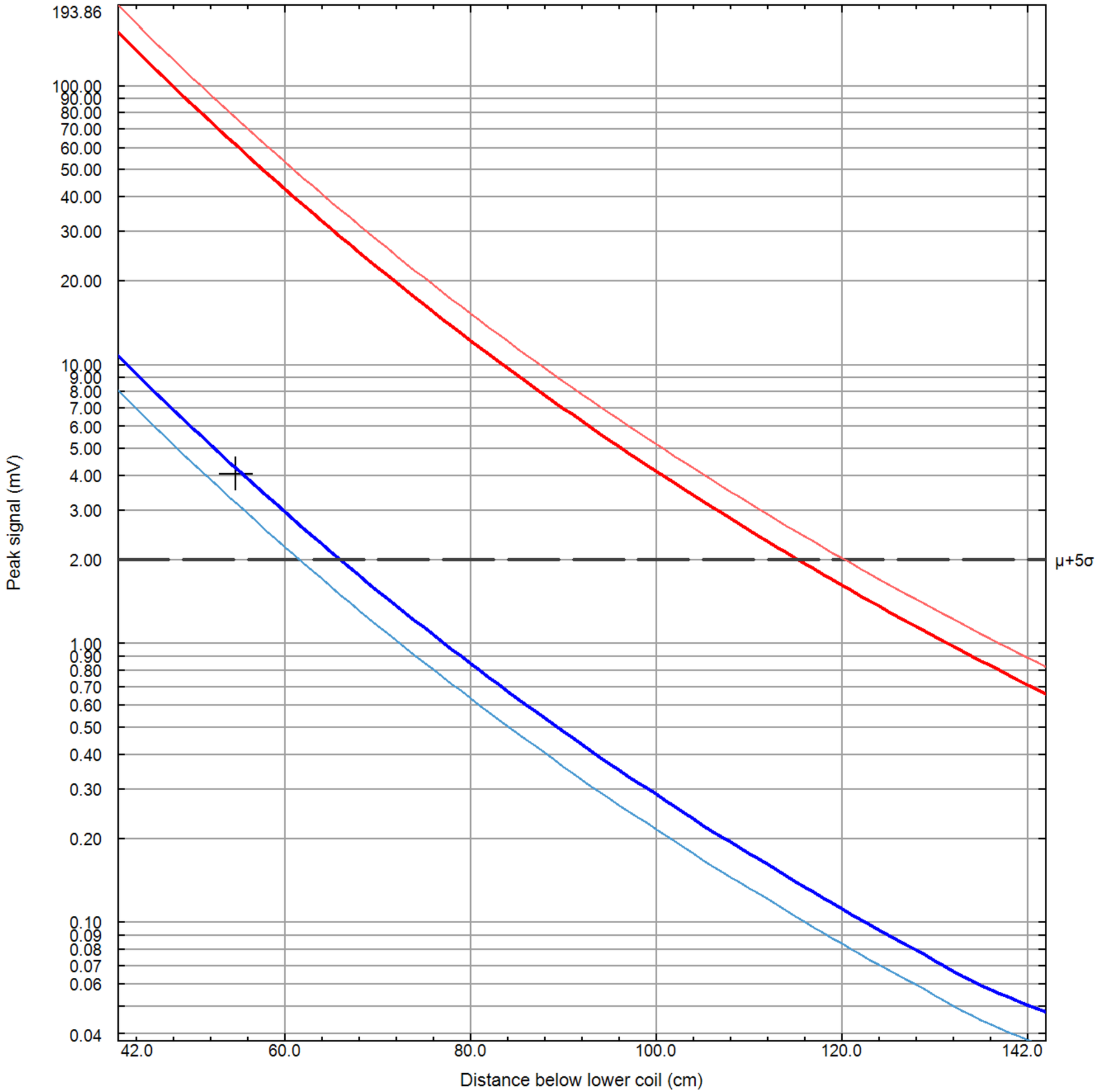
Client: USACE-Omaha

Project: CHAAP

Contractor: ATI/HGL

Created by: Josh DeF.	**Verified by:**
Date: 2020/05/15	**File: IVS1_ISO3_Small Surroga...**
Page number:	**Approved:**

EM61-MK2[4] Gate 3 - Small Surrogate



MAP

Depth/Response Curve

IVS1_ISO3

LEGEND

Noise Level

Most favorable orientation

Least favorable orientation

μ: 0.00

σ: 0.40

No of targets inside the original band: 0

No of targets inside the extended band: 1

No of targets outside the bands: 0

Minor bands are 25% of expected

Map Scale: Scale 1:7

0 10

centimetre

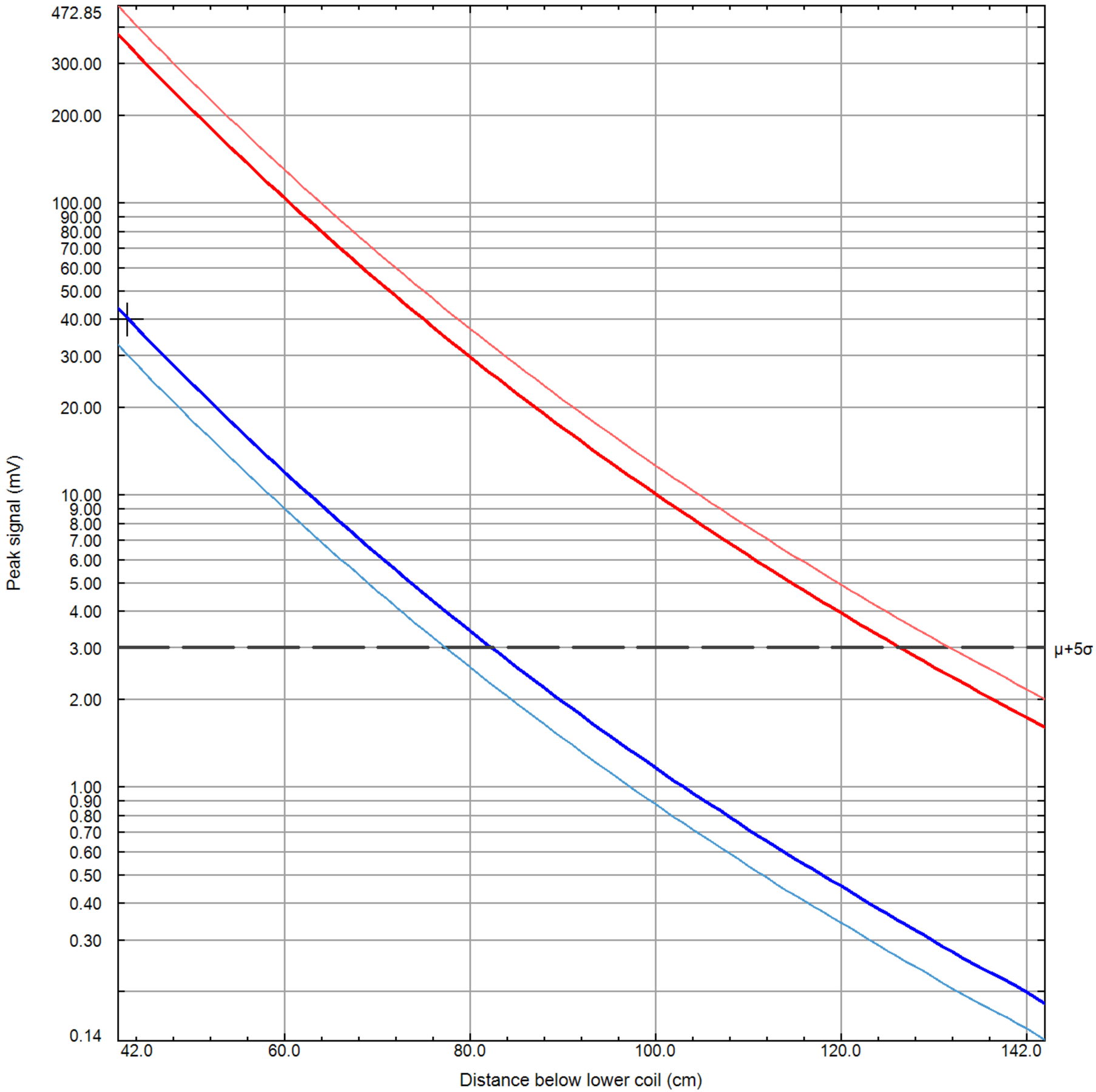
Client: USACE-Omaha

Project: CHAAP

Contractor: ATI/HGL

Created by: Josh DeF.	Verified by:
Date: 2020/05/15	File: IVS1_ISO3_Small Surroga...
Page number:	Approved:

EM61-MK2[4] Gate 1 - Small Surrogate



MAP

Depth/Response Curve

Schedule 40 Small ISO

LEGEND

Noise Level

Most favorable orientation

Least favorable orientation

μ: 0.00

σ: 0.60

No of targets inside the original band: 0

No of targets inside the extended band: 1

No of targets outside the bands: 0

Minor bands are 25% of expected

Map Scale: Scale 1:7 (0 – 10 centimetre)

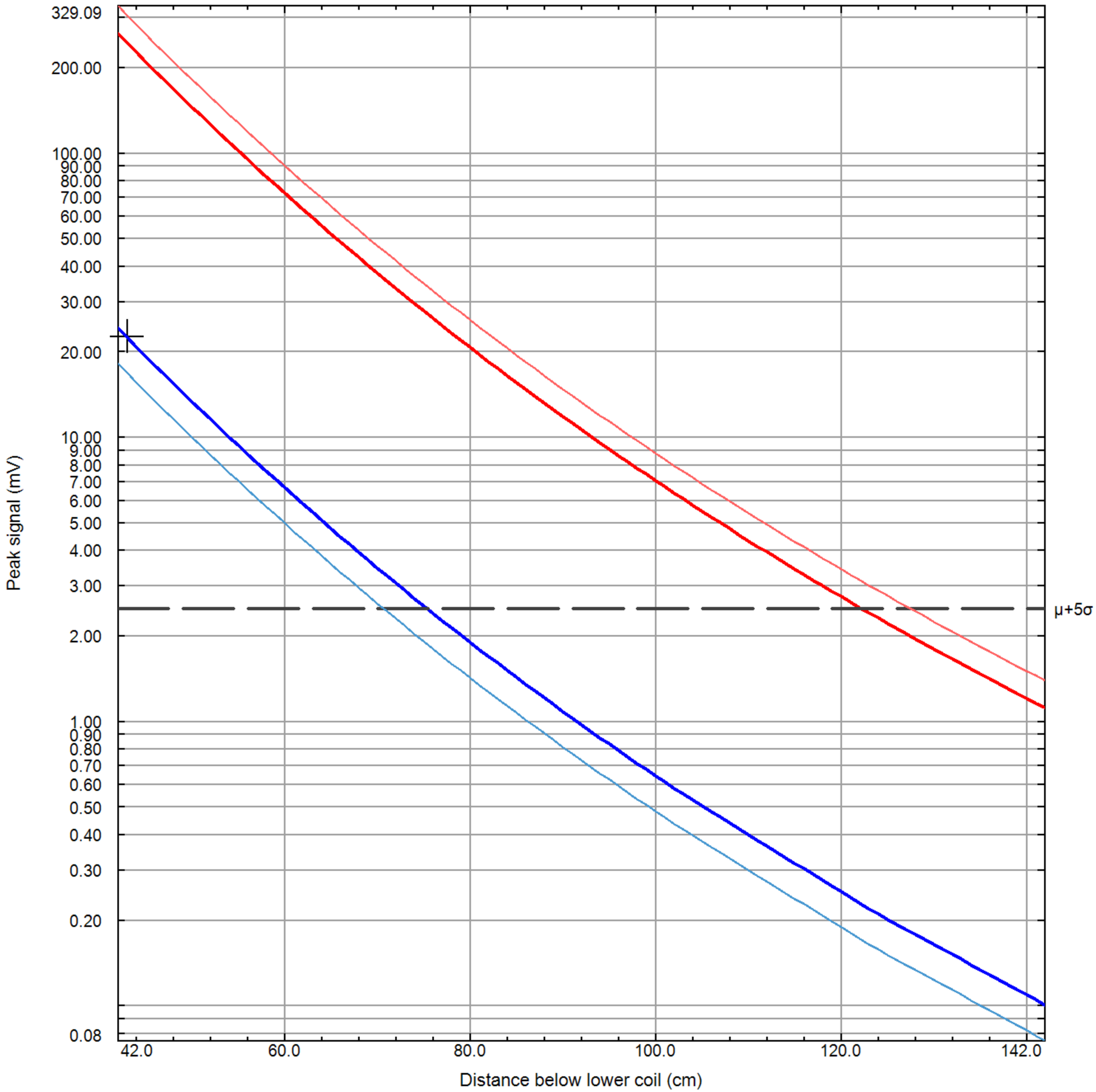
Client: USACE-Omaha

Project: CHAAP

Contractor: ATI/HGL

Created by: Josh DeF.	Verified by:
Date: 2020/05/15	File: Sch40_SISO_Small Surrog...
Page number:	Approved:

EM61-MK2[4] Gate 2 - Small Surrogate



MAP

Depth/Response Curve

Schedule 40 Small ISO

LEGEND

Noise Level

Most favorable orientation

Least favorable orientation

μ: 0.00

σ: 0.50

No of targets inside the original band: 1

No of targets inside the extended band: 0

No of targets outside the bands: 0

Minor bands are 25% of expected

Map Scale: Scale 1:7

0 10

centimetre

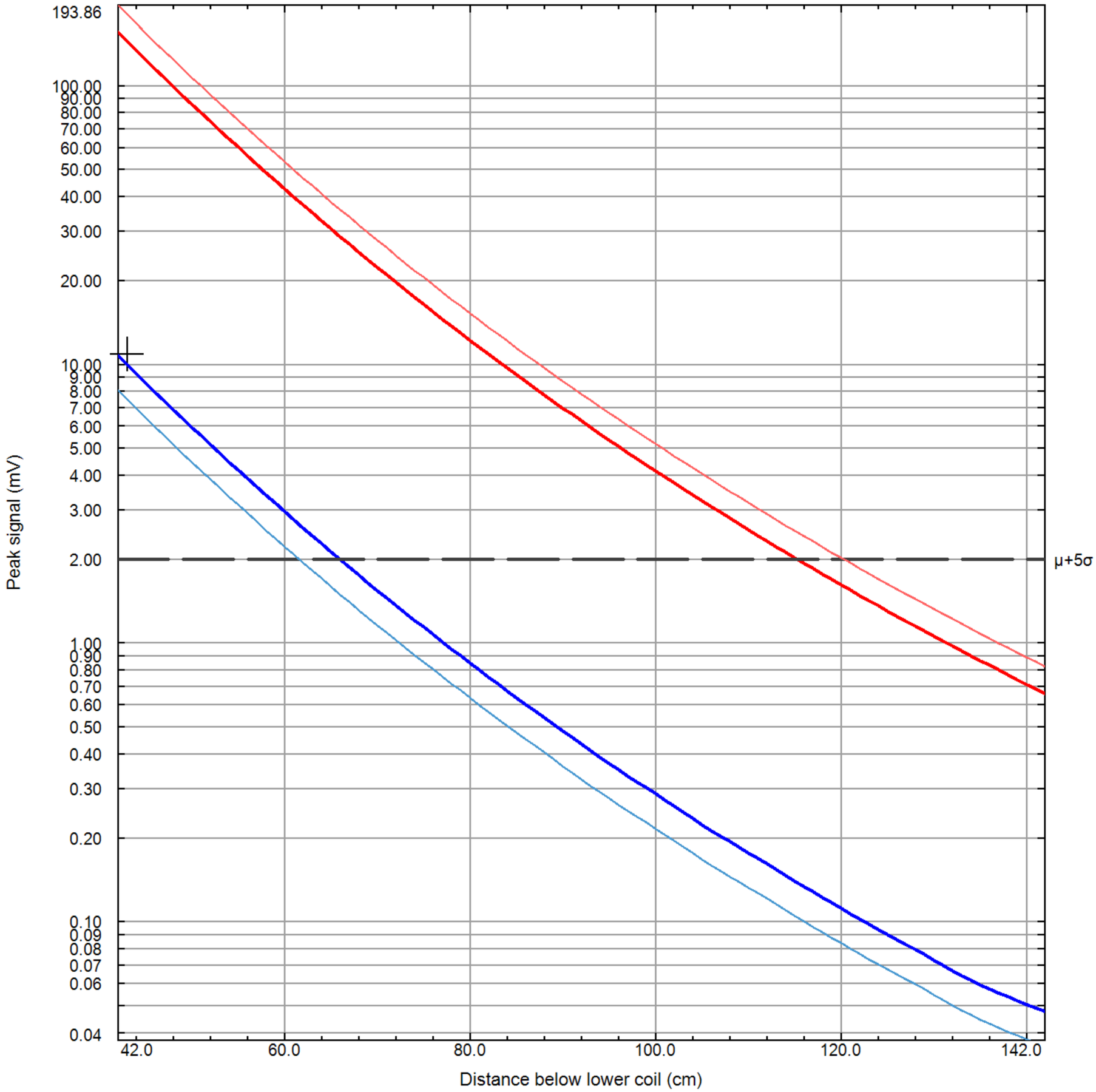
Client: USACE-Omaha

Project: CHAAP

Contractor: ATI/HGL

Created by: Josh DeF.	Verified by:
Date: 2020/05/15	File: Sch40_SISO_Small Surrog...
Page number:	Approved:

EM61-MK2[4] Gate 3 - Small Surrogate



MAP

Depth/Response Curve

Schedule 40 Small ISO

LEGEND

Noise Level

Most favorable orientation

Least favorable orientation

μ: 0.00

σ: 0.40

No of targets inside the original band: 1

No of targets inside the extended band: 0

No of targets outside the bands: 0

Minor bands are 25% of expected

Map Scale: Scale 1:7

0 10

centimetre

Client: USACE-Omaha

Project: CHAAP

Contractor: ATI/HGL

Created by: Josh DeF.	Verified by:
Date: 2020/05/15	File: Sch40_SISO_Small Surrog...
Page number:	Approved:

APPENDIX G.2

MICROSOFT ACCESS DATABASE

(Provided on CD)

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APPENDIX G.3

RAW AND PROCESSED GEOPHYSICAL DATA

(Provided on CD)

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APPENDIX G.4

MEC INVESTIGATION
FIELD DOCUMENTATION

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Daily Reports and Summary Table

DAILY STATUS REPORT

Cornhusker Army Ammunition Plant Remedial Investigation

Project Name:	**CHAPP RI**	**Project Number:**	AT3001		
Contract No.:	**W9128F-16-D-0014**	**Project Location:**	**Grand Island, Nebraska**		
Task Order:	**0002**	**Daily Report Date:**	**5/26/2020**	**No.:**	**001**

KEY PROJECT PERSONNEL	
Project Management Personnel	
USACE PM/COR	Jeffery Gill
USACE Project Geophysicist	Daryl Donatelli
ATI Project Manager	David Nelson
HGL Program Manager	Janardan Patel
HGL Corporate Quality Management	Neil Feist
HGL Project Manager	Joe Skibinski
HGL Sr. Geophysicist	Tim Deignan
Field Personnel	
Ordnance & Explosives Safety Specialist	John Kochefko
HGL Senior UXO Supervisor (SUXOS)	Sonny Richardson
HGL Site Safety and Health Officer (SSHO)	Anthony Indelicato
HGL UXO Quality Control Specialist	Anthony Indelicato
HGL Site Geophysicist	Joshua DeFrates

1.0 General Information

1.1 Weather

Temperature:	62/68					
Clear □	Fog □	Cloudy X	Rain	Snow □	Windy X	12-15 mph

1.2 Summary of Activities

-Conducted site orientation, QAPP, APP, AHA and SOP reviews
-Replaced lock on Access Gate to site
-Established GPS Control Points
-Assembled and tested analog metal detectors
-Flagged site boundaries for the Abandoned Burning Area and South Fuze Destruction Area
-Conducted surface clearance in the Abandoned Burning Area
-Located and mapped site for IVS installation
-No intrusive operations this date

1.3 Daily Health and Safety Briefing Conducted? (file in site office) **Yes X** **No (supply reason in notes)**

1.4 Any safety incidents or near misses? **Yes (explain in notes) No X**

Notes: Ticks were removed from some personnel

1.5 Work Planned for Next Workday

-Establish IVS
-Brush cut the Abandoned Burning Area MRS for DGM
-DGM Abandoned Burning Area
-Surface sweep South Fuze Destruction Area transect locations and cut brush

2.0 Personnel Record

2.1 Field Personnel (*excluding Site Visitors*)

Name	Organization	Position	Comments	On-site (Y/N)	Hours
Sonny Richardson	HGL	SUXOS	N/A	Y	10
Anthony Indelicato	HGL	UXOQCS/UXOSO	N/A	Y	10
Donnie Koetje	HGL	UXO Tech III	N/A	Y	10
Josh Bair	HGL	UXO Tech II	N/A	Y	10
Josh DeFrates	HGL	Geophysicist	N/A	Y	10
Anthony Cota	ATI	UXO Tech II	N/A	Y	10
Randal Cota	ATI	UXO Tech II	N/A	Y	10

2.0 Personnel Record

2.1 Field Personnel (*excluding Site Visitors*)

Name	Organization	Position	Comments	On-site (Y/N)	Hours

2.2 Site Visitors

Name	Organization	Purpose of Visit	Safety Brief (Y/N)
John Kochefko	USACE, Omaha District	Safety oversight	Y

3.0 Equipment Onsite

3.1 Vehicles

Vehicle	Source	VIN# last six	Assigned to:	On Site:	Off Site:
Dodge Ram	Enterprise	RFDT8L	Donnie Koetje	5/26/2020	
Hyundai Tucson	National	898836	S. Richardson	5/26/2020	

3.2 HGL Rental Equipment On Site

Equipment Type	SS#	Vendor	On Site:	Off Site:
Bobcat Skid steer with brush cutting head	1091816X	Sunbelt	5/26/2020	5/28/2020

3.3 Subcontractor Equipment On Site

Equipment Type	SS#	Vendor	On Site:	Off Site:
N/A				

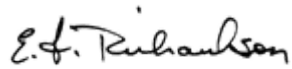
4.0 List of MEC Recovered to date				
Date	**Type (mod/mark required)**	**QTY**	**Location**	**Date of Demo**
N/A				

5.0 Demolition Materials Accounting			
Delivered Item	**QTY**	**QTY Used**	**QTY Stored**
N/A			

6.0 Completion Status of Site Activities					
Activity	**Estimated/Total**	**Completed Today**	**Cumulative**	**Percent Complete**	**Comments**
Surface Sweep ABA	1.84 Acres	1.84 Acres	1.84 Acres	100%	Completed
Brush cutting	1.5 miles	0 miles	1.5 miles	100%	Completed
RTK Points	2	2	2	100%	Completed

7.0 Exposure Data			
Company	**Daily Total for Week Ending – 5/30/2020**		**Cumulative**
	Hours		**Hours (total)**
HGL	50		565
ATI	20		20

8.0 Instructions from Government Personnel
N/A

9.0 Signatures		
Signed by:		
	Sonny Richardson (SUXOS, HGL)	**Date: 5/27/2020**
		
	Joe Skibinski (Project Manager, HGL)	**Date: 5/27/2020**

Photos

Conducting Surface Clearance in ABA

Conducting background checks for IVS Placement

DAILY STATUS REPORT

Cornhusker Army Ammunition Plant Remedial Investigation

Project Name:	**CHAPP RI**	**Project Number:**	**AT3001**		
Contract No.:	**W9128F-16-D-0014**	**Project Location:**	**Grand Island, Nebraska**		
Task Order:	**0002**	**Daily Report Date:**	**5/27/2020**	**No.:**	**002**

KEY PROJECT PERSONNEL	
Project Management Personnel	
USACE PM/COR	Jeffery Gill
USACE Project Geophysicist	Daryl Donatelli
ATI Project Manager	David Nelson
HGL Program Manager	Janardan Patel
HGL Corporate Quality Management	Neil Feist
HGL Project Manager	Joe Skibinski
HGL Sr. Geophysicist	Tim Deignan
Field Personnel	
Ordnance & Explosives Safety Specialist	John Kochefko
HGL Senior UXO Supervisor (SUXOS)	Sonny Richardson
HGL Site Safety and Health Officer (SSHO)	Anthony Indelicato
HGL UXO Quality Control Specialist	Anthony Indelicato
HGL Site Geophysicist	Joshua DeFrates

1.0 General Information

1.1 Weather

Temperature:	54/76	

Clear X Fog □ Cloudy □ Rain □ Snow □ Windy □ 12-15 mph

1.2 Summary of Activities

-Constructed IVS and mapped with EM-61
-Tested analog metal detectors at IVS
-Performed brush clearing at the Abandoned Burning Area and South Fuze Destruction Area
-Conducted surface clearance in South Fuze Destruction Area ahead of DGM mapping
-Conducted EM-61 mapping in the South Fuze Destruction Area
-No intrusive operations this date

1.3 Daily Health and Safety Briefing Conducted? (file in site office) **Yes X** **No (supply reason in notes)**

1.4 Any safety incidents or near misses? **Yes (explain in notes) No X**

Notes:

1.5 Work Planned for Next Workday

-Conduct EM-61 mapping in Abandoned Burning Area
-Conduct anomaly reacquisition and investigation in the South Fuze Destruction Area

2.0 Personnel Record

2.1 Field Personnel (*excluding Site Visitors*)

Name	Organization	Position	Comments	On-site (Y/N)	Hours
Sonny Richardson	HGL	SUXOS	N/A	Y	10
Anthony Indelicato	HGL	UXOQCS/UXOSO	N/A	Y	10
Donnie Koetje	HGL	UXO Tech III	N/A	Y	10
Josh Bair	HGL	UXO Tech II	N/A	Y	10
Josh DeFrates	HGL	Geophysicist	N/A	Y	10
Anthony Cota	ATI	UXO Tech II	N/A	Y	10
Randal Cota	ATI	UXO Tech II	N/A	Y	10

2.2 Site Visitors

2.0 Personnel Record

2.1 Field Personnel (*excluding Site Visitors*)

Name	Organization	Position	Comments	On-site (Y/N)	Hours

Name	Organization	Purpose of Visit	Safety Brief (Y/N)
John Kochefko	USACE, Omaha District	Safety oversight	Y

3.0 Equipment Onsite

3.1 Vehicles

Vehicle	Source	VIN# last six	Assigned to:	On Site:	Off Site:
Dodge Ram	Enterprise	RFDT8L	Donnie Koetje	5/26/2020	
Hyundai Tucson	National	898836	S. Richardson	5/26/2020	

3.2 HGL Rental Equipment On Site

Equipment Type	SS#	Vendor	On Site:	Off Site:
Bobcat Skid steer with brush cutting head	1091816X	Sunbelt	5/26/2020	5/27/2020

3.3 Subcontractor Equipment On Site

Equipment Type	SS#	Vendor	On Site:	Off Site:
N/A				

4.0 List of MEC Recovered to date

Date	Type (mod/mark required)	QTY	Location	Date of Demo
N/A				

5.0 Demolition Materials Accounting

Delivered Item	QTY	QTY Used	QTY Stored
N/A			

6.0 Completion Status of Site Activities

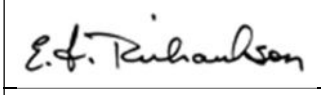
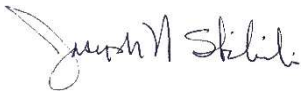
Activity	Estimated/ Total	Completed Today	Cumulative	Percent Complete	Comments
Surface Sweep ABA	1.84 acres	1.84 acres	1.84 acres	100%	Completed
Surface Sweep SFDA	3,000 feet	3,000 feet	3,000 feet	100%	Completed
RTK Points	2	2	2	100%	Completed
Install IVS	2	1	1	50%	Completed
Install blind seeds	3	3	3	100%	Completed
DGM ABA	3,000 feet	3,000 feet	3,000 feet	100%	Completed
DGM SFDA	1.84 acres	0 Acres	0 acres	0%	
Intrusive investigation ABA	25 targets	0 targets	0 targets	0%	
Intrusive Investigation SFDA	50 targets	0 targets	0 targets	0%	

7.0 Exposure Data

Company	Daily Total for Week Ending – 5/30/2020		Cumulative
	Hours		Hours (total)
HGL	50		615
ATI	20		40

8.0 Instructions from Government Personnel

N/A

9.0 Signatures		
Signed by:		
	Sonny Richardson (SUXOS, HGL)	**Date: 5/28/2020**
		
	Joe Skibinski (Project Manager, HGL)	**Date: 5/28/2020**

Photos

Conducting Brush Clearance in ABA

Conducting IVS QC Checks

UXOQC and USACE OESS Planting Blind Seeds

Geophysicist Processing IVS Data

DAILY STATUS REPORT

Cornhusker Army Ammunition Plant Remedial Investigation

Project Name:	**CHAPP RI**	**Project Number:**	**AT3001**		
Contract No.:	**W9128F-16-D-0014**	**Project Location:**	**Grand Island, Nebraska**		
Task Order:	**0002**	**Daily Report Date:**	**5/28/2020**	**No.:**	**003**

KEY PROJECT PERSONNEL	
Project Management Personnel	
USACE PM/COR	Jeffery Gill
USACE Project Geophysicist	Jason Blair
ATI Project Manager	David Nelson
HGL Program Manager	Janardan Patel
HGL Corporate Quality Management	Neil Feist
HGL Project Manager	Kevin Wierengo
HGL Deputy Project Manager	Joe Skibinski
HGL Sr. Geophysicist	Tim Deignan
Field Personnel	
Ordnance & Explosives Safety Specialist	John Kochefko
HGL Senior UXO Supervisor (SUXOS)	Sonny Richardson
HGL Site Safety and Health Officer (SSHO)	Anthony Indelicato
HGL UXO Quality Control Specialist	Anthony Indelicato
HGL Site Geophysicist	Joshua DeFrates

1.0 General Information

1.1 Weather

Temperature:	55/81	

Clear X Fog □ Cloudy □ Rain □ Snow □ Windy □ 15-20 mph

1.2 Summary of Activities

-Conducted AM/PM QC Checks at IVS
-Tested analog metal detectors at IVS
-Conducted surface clearance in South Fuze Destruction Area ahead of DGM mapping (additional transects)
-Conducted EM-61 mapping in the Abandoned Burning Area
-No intrusive operations this date
-Held teleconference with USACE, ATI, and HGL managers and geophysicists to discuss step-out/additional DGM transects at SFDA, received preliminary approval to proceed, and developed Field Work Variance (FWV) that described the methodology requested by USACE regarding the step-out DGM and subsequent intrusive operations

1.3 Daily Health and Safety Briefing Conducted? (file in site office) **Yes X** **No (supply reason in notes)**

1.4 Any safety incidents or near misses? **Yes (explain in notes) No X**

Notes:

1.5 Work Planned for Next Workday

-Conduct additional EM-61 transect mapping in South Fuze Destruction Area
-Conduct anomaly reacquisition and investigation in the Abandoned Burning Area

2.0 Personnel Record

2.1 Field Personnel (*excluding Site Visitors*)

Name	Organization	Position	Comments	On-site (Y/N)	Hours
Sonny Richardson	HGL	SUXOS	N/A	Y	10
Anthony Indelicato	HGL	UXOQCS/UXOSO	N/A	Y	10
Donnie Koetje	HGL	UXO Tech III	N/A	Y	10
Josh Bair	HGL	UXO Tech II	N/A	Y	10
Josh DeFrates	HGL	Geophysicist	N/A	Y	10
Anthony Cota	ATI	UXO Tech II	N/A	Y	10
Randal Cota	ATI	UXO Tech II	N/A	Y	10

2.0 Personnel Record

2.2 Field Personnel (*excluding Site Visitors*)

Name	Organization	Position	Comments	On-site (Y/N)	Hours

2.3 Site Visitors

Name	Organization	Purpose of Visit	Safety Brief (Y/N)
John Kochefko	USACE, Omaha District	Safety oversight	Y

3.0 Equipment Onsite

3.1 Vehicles

Vehicle	Source	VIN# last six	Assigned to:	On Site:	Off Site:
Dodge Ram	**Enterprise**	**RFDT8L**	**Donnie Koetje**	**5/26/2020**	
Hyundai Tucson	**National**	**898836**	**S. Richardson**	**5/26/2020**	

3.2 HGL Rental Equipment On Site

Equipment Type	SS#	Vendor	On Site:	Off Site:
Bobcat Skid steer with brush cutting head	**1091816X**	**Sunbelt**	**5/26/2020**	**5/28/2020**

3.3 Subcontractor Equipment On Site

Equipment Type	SS#	Vendor	On Site:	Off Site:
N/A				

4.0 List of MEC Recovered to date

Date	Type (mod/mark required)	QTY	Location	Date of Demo
N/A				

5.0 Demolition Materials Accounting

Delivered Item	QTY	QTY Used	QTY Stored
N/A			

6.0 Completion Status of Site Activities

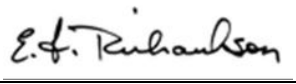
Activity	Estimated/ Total	Completed Today	Cumulative	Percent Complete	Comments
Surface Sweep ABA	1.84 acres	1.84 acres	1.84 acres	100%	Completed
Surface Sweep SFDA	3,000 feet	3,000 feet	3,000 feet	100%	Completed
RTK Points	2	2	2	100%	Completed
Install IVS	1	1	1	100%	Completed
Install blind seeds	3	3	3	100%	Completed
DGM SFDA	3,000 feet	3,000 feet	3,000 feet	100%	Completed
DGM ABA	1.84 acres	1.84 acres	1.84 acres	100%	Completed
Intrusive investigation ABA	25 targets	0 targets	0 targets	0%	
Intrusive Investigation SFDA	50 targets	0 targets	0 targets	0%	

7.0 Exposure Data

Company	Daily Total for Week Ending – 5/30/2020		Cumulative
	Hours		Hours (total)
HGL	50		665
ATI	20		60

8.0 Instructions from Government Personnel

N/A

9.0 Signatures		
Signed by:		
	Sonny Richardson (SUXOS, HGL)	**Date: 5/29/2020**
		
	Joe Skibinski (Project Manager, HGL)	**Date: 5/29/2020**

Photos

Collecting DGM in the Abandoned Burning Area

DAILY STATUS REPORT

Cornhusker Army Ammunition Plant Remedial Investigation

Project Name:	**CHAPP RI**	**Project Number:**	**AT3001**		
Contract No.:	**W9128F-16-D-0014**	**Project Location:**	**Grand Island, Nebraska**		
Task Order:	**0002**	**Daily Report Date:**	**6/1/2020**	**No.:**	**005**

KEY PROJECT PERSONNEL	
Project Management Personnel	
USACE PM/COR	Jeffery Gill
USACE Project Geophysicist	Jason Blair
ATI Project Manager	David Nelson
HGL Program Manager	Janardan Patel
HGL Corporate Quality Management	Neil Feist
HGL Project Manager	Kevin Wierengo
HGL Deputy Project Manager	Joe Skibinski
HGL Sr. Geophysicist	Tim Deignan
Field Personnel	
Ordnance & Explosives Safety Specialist	John Kochefko
HGL Senior UXO Supervisor (SUXOS)	Sonny Richardson
HGL Site Safety and Health Officer (SSHO)	Anthony Indelicato
HGL UXO Quality Control Specialist	Anthony Indelicato
HGL Site Geophysicist	Joshua DeFrates

1.0 General Information

1.1 Weather

Temperature:	71/95	

Clear X Fog □ Cloudy □ Rain □ Snow □ Windy X 15-20 mph

1.2 Summary of Activities

-Set-up and tested RTK
-Tested analog metal detectors at IVS
-Conducted AM and PM EM-61 QC checks at the IVS
-Conducted DGM in additional transect areas at the South Fuze Destruction Area
-Completed anomaly investigation in the ABA
-Commenced anomaly investigation in the SFDA

1.3 Daily Health and Safety Briefing Conducted? (file in site office)	**Yes X No (supply reason in notes)**
1.4 Any safety incidents or near misses?	**Yes (explain in notes) No X**

Notes:

1.5 Work Planned for Next Workday

-Continue anomaly reacquisition and investigation in the ABA

2.0 Personnel Record

2.1 Field Personnel (*excluding Site Visitors*)

Name	Organization	Position	Comments	On-site (Y/N)	Hours
Sonny Richardson	HGL	SUXOS	N/A	Y	10
Anthony Indelicato	HGL	UXOQCS/UXOSO	N/A	Y	10
Donnie Koetje	HGL	UXO Tech III	N/A	Y	10
Josh Bair	HGL	UXO Tech II	N/A	Y	10
Josh DeFrates	HGL	Geophysicist	N/A	Y	10
Anthony Cota	ATI	UXO Tech II	N/A	Y	10
Randal Cota	ATI	UXO Tech II	N/A	Y	10

2.2 Site Visitors			
Name	**Organization**	**Purpose of Visit**	**Safety Brief (Y/N)**
John Kochefko	USACE, Omaha District	Safety oversight	Y

3.0 Equipment Onsite

3.1 Vehicles

Vehicle	Source	VIN# last six	Assigned to:	On Site:	Off Site:
Dodge Ram	Enterprise	RFDT8L	Donnie Koetje	5/26/2020	
Hyundai Tucson	National	898836	S. Richardson	5/26/2020	

3.2 HGL Rental Equipment On Site

Equipment Type	SS#	Vendor	On Site:	Off Site:
Bobcat Skid steer with brush cutting head	1091816X	Sunbelt	5/26/2020	5/27/2020

3.3 Subcontractor Equipment On Site

Equipment Type	SS#	Vendor	On Site:	Off Site:
N/A				

4.0 List of MEC Recovered to date

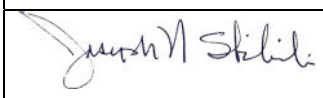
Date	Type (mod/mark required)	QTY	Location	Date of Demo
N/A				

5.0 Demolition Materials Accounting			
Delivered Item	**QTY**	**QTY Used**	**QTY Stored**
N/A			

6.0 Completion Status of Site Activities					
Activity	**Estimated/Total**	**Completed Today**	**Cumulative**	**Percent Complete**	**Comments**
RTK Points	2	2	2	100%	Completed
Install IVS	1	1	1	100%	Completed
Install blind seeds	3	1	4	100%	Completed
Surface Sweep ABA	1.84 Acres	0	1.84 Acres	100%	Completed
DGM of ABA	1.84 Acres	1.84 Acres	1.84 Acres	100%	Completed
Surface Sweep SFDA	3,000ft	3,280.8ft	6,036.75ft	>100%	Completed
DGM of SFDA	3,000ft	3,280.8ft	6,036.75ft	>100%	Completed
Intrusive investigation ABA	25 targets	41 targets	61 targets	>100%	Completed
Intrusive Investigation SFDA	50 targets	10 targets	10 targets	20%	Ongoing

7.0 Exposure Data			
Company	**Daily Total for Week Ending – 5/30/2020**		**Cumulative**
	Hours		**Hours (total)**
HGL	50		715
ATI	20		100

8.0 Instructions from Government Personnel
N/A

9.0 Signatures		
Signed by:		
	Sonny Richardson (SUXOS, HGL)	**Date: 6/1/2020**
		
	Joe Skibinski (Project Manager, HGL)	**Date: 6/3/2020**

Photos

Reacquiring Anomaly Locations in ABA

Investigating Anomalies in ABA

Munitions Debris excavated in the ABA

Backfilling anomaly excavations after removed

DAILY STATUS REPORT

Cornhusker Army Ammunition Plant Remedial Investigation

Project Name:	**CHAPP RI**	**Project Number:**	**AT3001**		
Contract No.:	**W9128F-16-D-0014**	**Project Location:**	**Grand Island, Nebraska**		
Task Order:	**0002**	**Daily Report Date:**	**6/2/2020**	**No.:**	**006**

KEY PROJECT PERSONNEL	
Project Management Personnel	
USACE PM/COR	Jeffery Gill
USACE Project Geophysicist	Jason Blair
ATI Project Manager	David Nelson
HGL Program Manager	Janardan Patel
HGL Corporate Quality Management	Neil Feist
HGL Project Manager	Kevin Wierengo
HGL Deputy Project Manager	Joe Skibinski
HGL Sr. Geophysicist	Tim Deignan
Field Personnel	
Ordnance & Explosives Safety Specialist	John Kochefko
HGL Senior UXO Supervisor (SUXOS)	Sonny Richardson
HGL Site Safety and Health Officer (SSHO)	Anthony Indelicato
HGL UXO Quality Control Specialist	Anthony Indelicato
HGL Site Geophysicist	Joshua DeFrates

1.0 General Information

1.1 Weather

Temperature:	70/93	

Clear X Fog □ Cloudy □ Rain □ Snow □ Windy X 10-15 mph

1.2 Summary of Activities

-Set-up and tested RTK
-Tested analog metal detectors at IVS
-Conducted AM and PM EM-61 QC checks at the IVS
-Conducted DGM in additional Transect areas at the South Fuze Destruction Area
-Continued anomaly investigation in the SFDA

1.3 Daily Health and Safety Briefing Conducted? (file in site office) **Yes X** **No (supply reason in notes)**

1.4 Any safety incidents or near misses? **Yes (explain in notes) No X**

Notes:

1.5 Work Planned for Next Workday

-Continued anomaly reacquisition and investigation in the ABA
-Installed step-out transects at the ABA

2.0 Personnel Record

2.1 Field Personnel (*excluding Site Visitors*)

Name	Organization	Position	Comments	On-site (Y/N)	Hours
Sonny Richardson	HGL	SUXOS	N/A	Y	10
Anthony Indelicato	HGL	UXOQCS/UXOSO	N/A	Y	10
Donnie Koetje	HGL	UXO Tech III	N/A	Y	10
Josh Bair	HGL	UXO Tech II	N/A	Y	10
Josh DeFrates	HGL	Geophysicist	N/A	Y	10
Anthony Cota	ATI	UXO Tech II	N/A	Y	10
Randal Cota	ATI	UXO Tech II	N/A	Y	10

2.2 Site Visitors

Name	Organization	Purpose of Visit	Safety Brief (Y/N)
John Kochefko	USACE, Omaha District	Safety oversight	Y

3.0 Equipment Onsite

3.1 Vehicles

Vehicle	Source	VIN# last six	Assigned to:	On Site:	Off Site:
Dodge Ram	Enterprise	RFDT8L	Donnie Koetje	5/26/2020	
Hyundai Tucson	National	898836	S. Richardson	5/26/2020	

3.2 HGL Rental Equipment On Site

Equipment Type	SS#	Vendor	On Site:	Off Site:
Bobcat Skid steer with brush cutting head	1091816X	Sunbelt	5/26/2020	5/27/2020

3.3 Subcontractor Equipment On Site

Equipment Type	SS#	Vendor	On Site:	Off Site:
N/A				

4.0 List of MEC Recovered to date

Date	Type (mod/mark required)	QTY	Location	Date of Demo
N/A				

5.0 Demolition Materials Accounting

Delivered Item	QTY	QTY Used	QTY Stored
N/A			

6.0 Completion Status of Site Activities

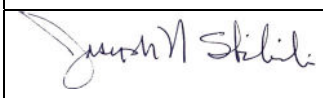
Activity	Estimated/Total	Completed Today	Cumulative	Percent Complete	Comments
RTK Points	2	2	2	100%	Completed
Install IVS	1	1	1	100%	Completed
Install blind seeds	3	1	4	100%	Completed
Surface Sweep ABA	1.84 Acres	0	1.84 Acres	100%	Completed
DGM of ABA	1.84 Acres	1.84 Acres	1.84 Acres	100%	Completed
Surface Sweep SFDA	3,000 feet	3,280.8ft	6,036.75ft	>100%	Completed
DGM of SFDA	3,000ft	3,280.8ft	6,036.75ft	>100%	Completed
Intrusive investigation ABA	25 targets	41 targets	61 targets	>100%	Completed
Intrusive Investigation SFDA	50 targets	35 targets	45 targets	90%	Ongoing

7.0 Exposure Data

Company	Daily Total for Week Ending – 5/30/2020		Cumulative
	Hours		Hours (total)
HGL	50		765
ATI	20		120

8.0 Instructions from Government Personnel

N/A

9.0 Signatures		
Signed by:		
	Sonny Richardson (SUXOS, HGL)	**Date: 6/2/2020**
		
	Joe Skibinski (Project Manager, HGL)	**Date: 6/3/2020**

Photos

Setting up and conducting daily QC Checks for the EM-61

Wet Anomaly locations in the SFDA

Anomaly investigation on East side of SFDA

DAILY STATUS REPORT

Cornhusker Army Ammunition Plant Remedial Investigation

Project Name:	**CHAPP RI**	**Project Number:**	**AT3001**		
Contract No.:	**W9128F-16-D-0014**	**Project Location:**	**Grand Island, Nebraska**		
Task Order:	**0002**	**Daily Report Date:**	**6/3/2020**	**No.:**	**007**

KEY PROJECT PERSONNEL	
Project Management Personnel	
USACE PM/COR	Jeffery Gill
USACE Project Geophysicist	Jason Blair
ATI Project Manager	David Nelson
HGL Program Manager	Janardan Patel
HGL Corporate Quality Management	Neil Feist
HGL Project Manager	Kevin Wierengo
HGL Deputy Project Manager	Joe Skibinski
HGL Sr. Geophysicist	Tim Deignan
Field Personnel	
Ordnance & Explosives Safety Specialist	John Kochefko
HGL Senior UXO Supervisor (SUXOS)	Sonny Richardson
HGL Site Safety and Health Officer (SSHO)	Anthony Indelicato
HGL UXO Quality Control Specialist	Anthony Indelicato
HGL Site Geophysicist	Joshua DeFrates

1.0 General Information

1.1 Weather

Temperature:	71/90						
Clear X	Fog □	Cloudy □	Rain □	Snow □	Windy X	10-15 mph	

1.2 Summary of Activities

-Set-up and tested RTK
-Tested analog metal detectors at IVS
-Conducted AM and PM EM-61 QC checks at the IVS
-Conducted DGM on additional transect areas at the ABA Area
-Continued anomaly investigation in the SFDA
-Conducted anomaly investigation on additional transect area at the ABA
-Inspected MDAS and prepared for shipment

1.3 Daily Health and Safety Briefing Conducted? (file in site office)	**Yes X No (supply reason in notes)**
1.4 Any safety incidents or near misses?	**Yes (explain in notes) No X**

Notes:

1.5 Work Planned for Next Workday

Demobilization of personnel and equipment

2.0 Personnel Record

2.1 Field Personnel (*excluding Site Visitors*)

Name	Organization	Position	Comments	On-site (Y/N)	Hours
Sonny Richardson	HGL	SUXOS	N/A	Y	10
Anthony Indelicato	HGL	UXOQCS/UXOSO	N/A	Y	10
Donnie Koetje	HGL	UXO Tech III	N/A	Y	10
Josh Bair	HGL	UXO Tech II	N/A	Y	10
Josh DeFrates	HGL	Geophysicist	N/A	Y	10
Anthony Cota	ATI	UXO Tech II	N/A	Y	10
Randal Cota	ATI	UXO Tech II	N/A	Y	10

2.2 Site Visitors

Name	Organization	Purpose of Visit	Safety Brief (Y/N)
John Kochefko	USACE, Omaha District	Safety oversight	Y

3.0 Equipment Onsite

3.1 Vehicles

Vehicle	Source	VIN# last six	Assigned to:	On Site:	Off Site:
Dodge Ram	Enterprise	RFDT8L	Donnie Koetje	5/26/2020	6/3/2020
Hyundai Tucson	National	898836	S. Richardson	5/26/2020	6/3/2020

3.2 HGL Rental Equipment On Site

Equipment Type	SS#	Vendor	On Site:	Off Site:
Bobcat Skid steer with brush cutting head	1091816X	Sunbelt	5/26/2020	5/27/2020

3.3 Subcontractor Equipment On Site

Equipment Type	SS#	Vendor	On Site:	Off Site:
N/A				

4.0 List of MEC Recovered to date

Date	Type (mod/mark required)	QTY	Location	Date of Demo
N/A				

5.0 Demolition Materials Accounting

Delivered Item	QTY	QTY Used	QTY Stored
N/A			

6.0 Completion Status of Site Activities

Activity	Estimated/Total	Completed Today	Cumulative	Percent Complete	Comments
RTK Points	2	2	2	100%	Completed
Install IVS	1	1	1	100%	Completed
Install blind seeds	3	1	4	100%	Completed
Surface Sweep ABA	1.84 Acres	0	1.84 Acres	100%	Completed
DGM of ABA	1.84 Acres	1.84 Acres	1.84 Acres	100%	Completed
Surface Sweep SFDA	3,000 feet	3,280.8ft	6,036.75ft	>100%	Completed
DGM of SFDA	3,000ft	3,280.8ft	6,036.75ft	>100%	Completed
Intrusive investigation ABA	25 targets	20 targets	61 targets	>100%	Completed
Intrusive Investigation SFDA	50 targets	8 targets	60 targets	>100%	Completed

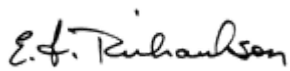
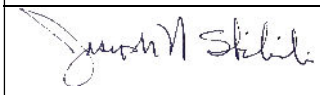
7.0 Exposure Data

Company	Daily Total for Week Ending – 5/30/2020		Cumulative
	Hours		Hours (total)
HGL	50		815
ATI	20		140

8.0 Instructions from Government Personnel

N/A

9.0 Signatures

Signed by:		
	Sonny Richardson (SUXOS, HGL)	**Date: 6/4/2020**
		
	Joe Skibinski (Project Manager, HGL)	**Date: 6/5/2020**

Photos

Anomaly investigation in the SFDA. Scrap metal from land fill activities

Anomaly investigation in step out transects at ABA. Utility located approximately 2’ below surface.

Final MDAS Inspection.

Table G.1
Tract 20B Intrusive Investigation Results
Cornhusker Army Ammunition Plant
Grand Island, Nebraska

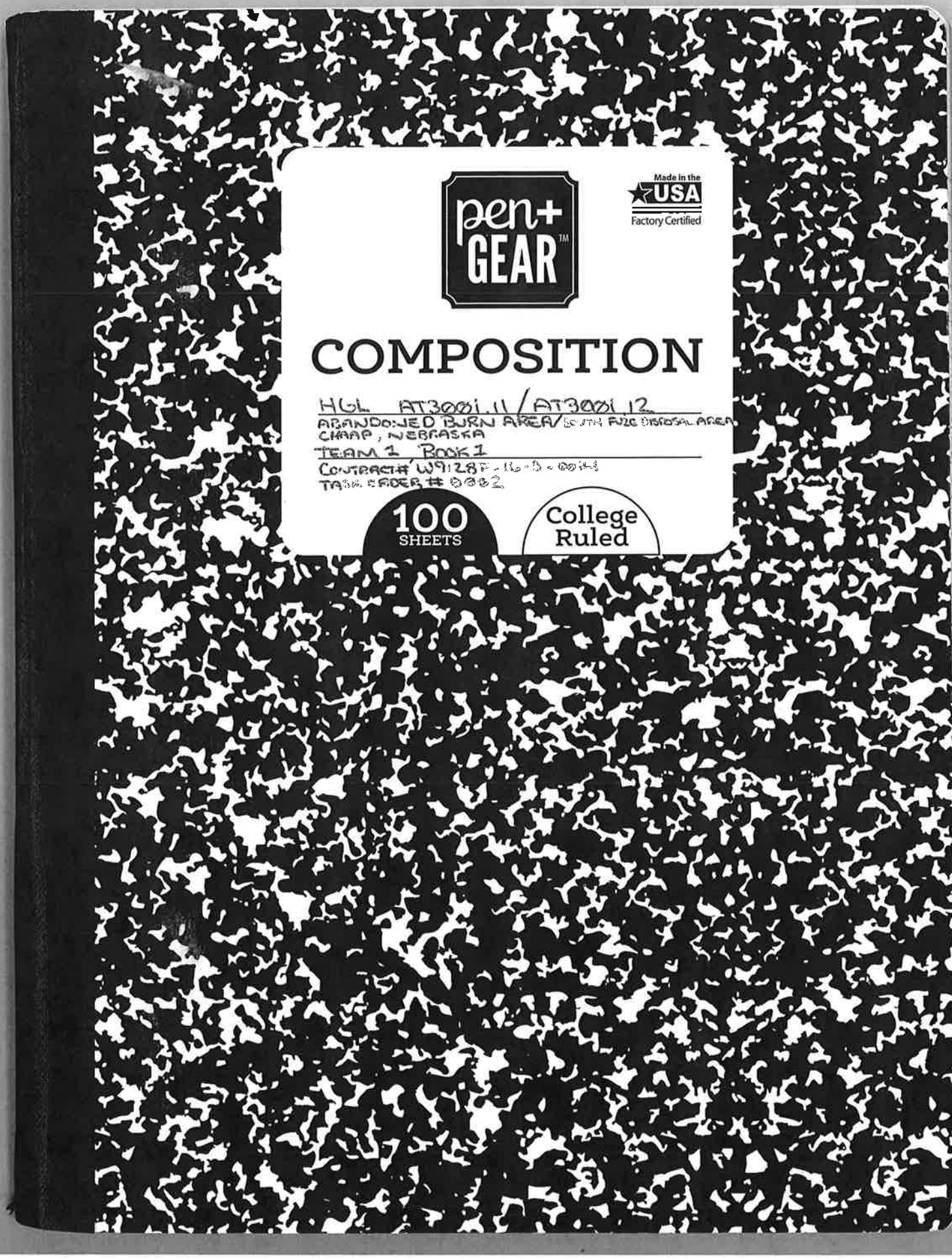
Site	Target ID	Easting	Northing	DGM Ch2 mV	Dig Date	Anomaly Type	Description	Depth (in)	Length (in)	Weight (lbs)	Comments	Pre-Dig Ch2 mV	Post-Dig Ch2 mV	Unresolved	Acceptance Sampling QC Status
ABA	ABA_010	540250.30	4532813.60	80.3	6/1/2020	NMRD	metal plate	3	5	1.0		127.0	0.0		
ABA	ABA_013	540235.20	4532774.00	56.7	6/1/2020	NMRD	wrench	4	10	1.0		61.0	0.0		
ABA	ABA_015	540294.70	4532785.60	51.5	6/1/2020	NMRD	metal plate, slag pieces	3	4	0.2		57.0	1.0		
ABA	ABA_020	540291.00	4532846.60	39.3	6/1/2020	NMRD	metal plate	3	5	1.0		65.0	0.0		
ABA	ABA_024	540300.20	4532779.50	36.5	6/1/2020	NMRD	metal plate	3	4	0.2		50.0	1.5		
ABA	ABA_040	540332.60	4532811.00	25.7	6/1/2020	NMRD	nails, washer	4	6	0.1	post-dig affected by adjacent anomalies	32.0	2.0		
ABA	ABA_044	540309.90	4532803.10	23.5	6/1/2020	MD	Fuze pieces (M404) x2, bolt	4	3	0.3	post dig affected by anomaly to S.	34.0	4.0		
ABA	ABA_051	540291.70	4532795.50	22.2	6/1/2020	NMRD	metal plate	3	3	0.2		27.0	0.0		Pass
ABA	ABA_060	540268.60	4532770.30	20.3	5/29/2020	NMRD	nails, scrap metal, small pieces of slag, (hole still hot)	18	3	0.2	OESS observed dig and agreed it was characterized	21.2	10.0	Yes	
ABA	ABA_064	540269.00	4532785.10	19.4	5/29/2020	NMRD	slag, hinge	2	4	0.5		26.4	0.0		Pass
ABA	ABA_074	540308.40	4532836.60	17.8	6/1/2020	NMRD	nail	3	4	0.2		27.0	0.0		Pass
ABA	ABA_080	540317.80	4532806.10	17.2	6/1/2020	NMRD	nails	1	6	0.1		40.0	0.0		Pass
ABA	ABA_082	540269.40	4532772.10	17.0	5/29/2020	NMRD	nails, small pieces of slag	4	3	0.5	OESS observed dig and agreed it was characterized	16.0	10.0	Yes	Pass
ABA	ABA_083	540324.30	4532817.90	16.9	6/1/2020	MD	Heat Slug, nail	4	6	0.2	post-dig affected by anomaly to N.	33.0	3.0		Pass
ABA	ABA_102	540318.10	4532818.20	14.4	6/1/2020	MD	Fuze pieces	4	2	0.2	post-dig affected by adjacent anomalies	15.0	6.0		
ABA	ABA_110	540319.70	4532801.80	13.8	6/1/2020	MD	Fuze piece, bolt, scrap metal	5	2	0.2		22.0	0.0		Pass
ABA	ABA_116	540309.90	4532819.10	13.0	6/1/2020	NMRD	nails, scrap metal	3	6	0.2		27.0	2.0		
ABA	ABA_127	540284.90	4532772.90	12.5	5/29/2020	NMRD	small wheel, slag, nail	3	2	0.5	adjacent anomaly affecting post-dig mV, 1 mV over flag	14.0	10.0		Pass
ABA	ABA_133	540295.80	4532811.60	12.0	6/1/2020	NMRD	nails, slag	2	5	0.2		17.0	0.0		
ABA	ABA_159	540309.60	4532822.80	10.2	6/1/2020	NMRD	nails	2	6	0.2		21.5	0.0		Pass
ABA	ABA_163	540297.50	4532793.70	9.9	6/1/2020	NMRD	square bolt, slag	2	3	0.3		15.0	0.0		Pass
ABA	ABA_165	540311.20	4532787.30	9.8	6/1/2020	NMRD	scrap metal, nails	3	3	0.1	post-dig affected by anomaly to NW	12.0	2.0		
ABA	ABA_169	540321.90	4532820.90	9.6	6/1/2020	NMRD	nail	4	6	0.2		27.0	0.0		Pass
ABA	ABA_171	540302.90	4532808.90	9.5	6/1/2020	NMRD	nail, scrap metal	6	6	0.2		18.0	0.0		Pass
ABA	ABA_175	540325.80	4532805.60	9.3	6/1/2020	NMRD	nail, slag	4	6	0.1		12.0	0.0		Pass
ABA	ABA_176	540280.50	4532801.10	9.2	6/1/2020	NMRD	nut and bolt, nail	3	2	0.2		12.0	0.0		Pass
ABA	ABA_178	540280.40	4532771.10	9.1	5/29/2020	NMRD	nail, scrap metal	3	3	0.1		9.2	0.0		Pass
ABA	ABA_179	540267.10	4532775.00	9.0	5/29/2020	NMRD	nail, rust flakes (hole still hot)	7	3	0.1	OESS observed dig and agreed it was characterized	10.4	3.0	Yes	Pass
ABA	ABA_187	540285.90	4532806.40	8.6	6/1/2020	NMRD	scrap metal	4	2	0.1		9.0	0.0		Pass
ABA	ABA_198	540312.70	4532822.90	8.0	6/1/2020	NMRD	nail, scrap metal	1	6	0.2		15.0	0.0		
ABA	ABA_201	540293.50	4532839.30	7.9	6/1/2020	NMRD	bolt, scrap metal	2	2	0.3		8.0	0.0		
ABA	ABA_204	540307.50	4532789.20	7.9	6/1/2020	NMRD	nails	2	4	0.1		13.0	0.0		
ABA	ABA_212	540282.20	4532784.80	7.4	5/29/2020	NMRD	scrap metal	4	12	2.0		14.0	1.0		Pass
ABA	ABA_234	540291.70	4532838.70	6.7	6/1/2020	NMRD	nail, metal coil	4	3	0.2		19.0	0.0		
ABA	ABA_244	540328.30	4532803.90	6.6	6/1/2020	NMRD	nails	4	6	0.1		15.0	0.0		
ABA	ABA_271	540318.80	4532810.70	5.9	6/1/2020	NMRD	bolt, metal scrap	5	4	0.3		12.0	0.0		Pass
ABA	ABA_272	540280.20	4532792.40	5.9	5/29/2020	NMRD	washer, scrap metal	4	2	0.1		12.1	0.0		Pass
ABA	ABA_276	540305.30	4532847.60	5.8	6/1/2020	MD	Fuze pieces (M404)	4	2	0.5		7.7	0.0		Pass
ABA	ABA_282	540322.30	4532813.30	5.7	6/1/2020	MD	Fuze piece	3	2	0.1		12.0	0.0		Pass
ABA	ABA_287	540303.80	4532809.90	5.7	6/1/2020	NMRD	scrap metal	2	2	0.1		7.0	0.0		Pass
ABA	ABA_289	540271.60	4532772.70	5.6	5/29/2020	NMRD	aluminum scrap, slag	2	3	0.2		7.2	0.0		Pass
ABA	ABA_296	540243.00	4532774.90	5.4	5/29/2020	NMRD	nail	4	3	0.1		8.2	1.0		Pass
ABA	ABA_317	540273.50	4532792.90	5.0	5/29/2020	NMRD	slag	6	3	0.2		8.0	0.0		Pass
ABA	ABA_320	540253.30	4532751.40	5.0	5/29/2020	NMRD	slag	4	2	0.1		6.7	0.0		
ABA	ABA_326	540254.80	4532789.30	4.8	5/29/2020	NMRD	slag	1	2	0.1		8.0	0.0		Pass
ABA	ABA_329	540316.80	4532801.20	4.7	6/1/2020	MD	Fuze pieces x2, nail, scrap metal, bolt head	4	6	0.1		13.0	0.0		
ABA	ABA_338	540251.70	4532797.90	4.5	5/29/2020	NMRD	scrap metal, chain piece	6	3	0.5		7.3	0.0		Pass
ABA	ABA_342	540324.30	4532821.20	4.4	6/1/2020	NMRD	nail	8	6	0.2		10.0	0.0		Pass
ABA	ABA_354	540310.20	4532801.20	4.0	6/1/2020	MD	Fuze piece, nail	4	4	0.1		12.0	0.0		
ABA	ABA_361	540321.90	4532809.30	3.9	6/1/2020	MD	Fuze piece	5	2	0.2		6.0	1.0		Pass
ABA	ABA_362	540299.10	4532800.90	3.9	6/1/2020	MD	Fuze piece, nail	2	2	0.2		12.0	0.0		Pass
ABA	ABA_373	540289.10	4532777.50	3.8	5/29/2020	NMRD	scrap metal, slag	4	3	0.5		10.0	0.0		Pass

Table G.1
Tract 20B Intrusive Investigation Results
Cornhusker Army Ammunition Plant
Grand Island, Nebraska

Site	Target ID	Easting	Northing	DGM Ch2 mV	Dig Date	Anomaly Type	Description	Depth (in)	Length (in)	Weight (lbs)	Comments	Pre-Dig Ch2 mV	Post-Dig Ch2 mV	Unresolved	Acceptance Sampling QC Status
ABA	ABA_374	540217.90	4532791.80	3.8	6/1/2020	NMRD	nail, slag	3	3	0.2		7.0	0.0		
ABA	ABA_399	540270.30	4532783.70	3.4	5/29/2020	NMRD	small wheel	2	2	0.5		4.0	1.0		Pass
ABA	ABA_403	540236.70	4532800.60	3.3	5/29/2020	NMRD	scrap metal	3	3	0.1		7.1	0.0		Pass
ABA	ABA_405	540304.10	4532825.10	3.3	6/1/2020	NMRD	scrap metal	2	2	0.2		4.0	0.0		Pass
ABA	ABA_413	540271.20	4532779.10	3.2	5/29/2020	NMRD	slag, nails, rust flakes (hole still hot)	8	2	0.2	OESS observed dig and agreed it was characterized	7.4	4.0	Yes	Pass
ABA	ABA_427	540268.80	4532790.90	3.0	5/29/2020	NMRD	slag	4	2	0.5		5.4	0.0		Pass
ABA	ABA_431	540305.20	4532813.90	2.9	6/1/2020	MD	Fuze piece	2	2	0.1		3.1	1.5		Pass
ABA	ABA_432	540266.10	4532760.30	2.9	5/29/2020	NMRD	nail	5	3	0.1		5.3	1.0		Pass
ABA	ABA_452	540267.00	4532801.10	2.7	5/29/2020	MD	Fuze piece (M404)	2	2	0.2		4.3	0.0		Pass
ABA	ABA_702	540321.64	4532852.73	27.5	6/3/2020	Other	utility pipe, left in place	25				28.0	28.0		Pass
ABA	ABA_704	540277.50	4532737.68	10.1	6/3/2020	NMRD	nails, scrap metal	3	4	0.2		14.0	0.0		Pass
ABA	ABA_706	540274.92	4532735.71	9.1	6/3/2020	NMRD	scrap metal, slag, nails	4	2	0.2		14.0	0.0		Pass
ABA	ABA_709	540314.57	4532766.62	6.6	6/3/2020	NMRD	nails	3	3	0.1		7.0	0.0		Pass
ABA	ABA_710	540273.86	4532734.94	4.7	6/3/2020	NMRD	slag	4	2	0.3		7.2	1.0		Pass
ABA	ABA_712	540317.73	4532769.01	4.5	6/3/2020	NMRD	nails	4	3	0.1		6.0	1.0		Pass
ABA	ABA_713	540311.91	4532764.58	3.8	6/3/2020	NC	No Contact					1.5	1.5		Pass
ABA	ABA_715	540302.84	4532757.07	2.7	6/3/2020	NMRD	nail	4	3	0.1		6.0	0.0		Pass
SFDA	SFDA_001	540747.22	4532755.41	1318.2	6/3/2020	NMRD	trash pit, scrap metal	18	10	40.0	target characterized, in a high density area	1420.0	1210.0	Yes	Pass
SFDA	SFDA_003	540730.36	4532788.36	1109.8	6/3/2020	NMRD	trash pit, scrap metal	4	24	25.0	target characterized, in a high density area	2210.0	1750.0	Yes	Pass
SFDA	SFDA_004	540746.85	4532768.05	536.7	6/3/2020	NMRD	trash pit, scrap metal, aluminum		24	20.0	target characterized, in a high density area	715.0	560.0	Yes	Pass
SFDA	SFDA_014	540697.74	4532727.09	123.9	6/3/2020	NMRD	scrap metal, brackets, nails		4	5.0	target characterized, in a high density area	204.0	26.0	Yes	Pass
SFDA	SFDA_016	540692.61	4532726.89	113.1	6/3/2020	NMRD	pipe, can top, nails	5	24	2.0	target characterized, in a high density area	207.0	31.0	Yes	Pass
SFDA	SFDA_028	540760.77	4532813.14	31.2	6/2/2020	NMRD	metal spacer, scrap metal, nails	4	13	1.2		45.0	2.0		
SFDA	SFDA_034	540683.14	4532727.02	28.9	6/3/2020	MD	Fuze piece, nail, scrap metal, wire	4	6	0.3	target characterized, in a high density area	29.0	8.0	Yes	Pass
SFDA	SFDA_036	540653.52	4532726.94	23.2	6/1/2020	NMRD	large spike, nails, scrap metal	2	8	0.8		32.0	0.0		Pass
SFDA	SFDA_039	540762.13	4532809.91	21.0	6/2/2020	NMRD	angle iron	1	6	3.0		200.0	2.0		
SFDA	SFDA_040	540644.97	4532727.03	20.9	6/1/2020	MD	Fuze pieces (M404)	3	1	0.3		34.0	0.0		Pass
SFDA	SFDA_043	540760.25	4532790.76	19.6	6/2/2020	NMRD	scrap metal, nail	2	8	1.0		30.0			
SFDA	SFDA_052	540761.73	4532803.86	13.9	6/2/2020	NMRD	pit of nails (hole still hot)	10	6	0.3	trash pit, characterized	40.0	10.0	Yes	
SFDA	SFDA_054	540591.32	4532817.83	13.4	6/2/2020	ND	in standing water				could not reacquire or resolve due to standing water			Yes	
SFDA	SFDA_067	540758.25	4532725.62	9.6	6/1/2020	NMRD	pipe, wire, small pieces of wire	16	6	1.0	trash pit, bits of wire that would break up when attempting to remove, OESS agreed dig had been characterized	16.0	5.5	Yes	
SFDA	SFDA_071	540647.10	4532727.04	8.7	6/1/2020	MD	2.36-inch rocket pieces, fuze piece (M404)	5	3	1.0		27.0	2.0		Pass
SFDA	SFDA_076	540670.05	4532726.98	8.1	6/3/2020	MD	Fuze pieces, scrap metal	5	2	0.2	influenced by adjacent anomalies	11.0	6.8		Pass
SFDA	SFDA_079	540760.55	4532735.30	7.5	6/2/2020	MD	Fuze piece (M404), nails	4	4	0.2		19.0	0.0		
SFDA	SFDA_081	540638.31	4532727.05	7.5	6/1/2020	SEED	Seed 3048549	3	4	0.8		30.0	0.0		
SFDA	SFDA_082	540713.15	4532726.14	7.4	6/3/2020	NMRD	nails	5	4	0.2	nail pit, characterized	9.0	3.0	Yes	Pass
SFDA	SFDA_083	540607.57	4532742.58	7.0	6/2/2020	MD	2.36-inch rocket pieces	4	2	0.2		11.0	0.5		
SFDA	SFDA_086	540760.77	4532752.62	6.2	6/2/2020	NMRD	square bolt	6	4	0.2		7.0	0.0		
SFDA	SFDA_092	540731.39	4532725.79	5.6	6/2/2020	NMRD	scrap metal	5	2	0.1		5.0	0.0		
SFDA	SFDA_106	540649.45	4532741.92	4.2	6/1/2020	NMRD	nail	2	4	0.1		8.5	2.2		Pass
SFDA	SFDA_109	540760.38	4532727.61	3.9	6/2/2020	NMRD	scrap metal	7	2	0.2	2mV over flag, influence from adjacent anomalies, area saturated	5.0	2.0		
SFDA	SFDA_110	540630.61	4532742.11	3.8	6/2/2020	MD	Fuze pieces (M404)	1	3	0.5		57.0	0.0		
SFDA	SFDA_114	540761.01	4532765.23	3.5	6/3/2020	NMRD	pipe, nail	4	5	1.0	characterized, large reduction in pre-dig mV	75.0	4.0	Yes	Pass
SFDA	SFDA_118	540760.09	4532725.67	3.4	6/1/2020	NMRD	nail, scrap metal	4	4	0.1		6.0	1.5		
SFDA	SFDA_121	540584.20	4532746.23	3.3	6/2/2020	MD	Fuze pieces (M404)	3	2	0.2		13.0	0.0		
SFDA	SFDA_130	540593.89	4532817.74	2.7	6/2/2020	ND	in standing water				could not reacquire or resolve due to standing water			Yes	
SFDA	SFDA_131	540600.30	4532817.90	2.7	6/2/2020	MD	Fuze piece	3	2	0.2		7.0	0.0		
SFDA	SFDA_133	540755.71	4532725.70	0.5	6/2/2020	NMRD	scrap metal	10	10	0.3		5.0	2.0		
SFDA	SFDA_203	540757.64	4532715.87	3.6	6/2/2020	NMRD	scrap metal, nails, gear	4	4	0.2		8.0	2.0		Pass
SFDA	SFDA_204	540758.66	4532713.19	1.9	6/2/2020	NMRD	scrap metal	6	3	0.2		3.0	1.0		Pass

Table G.1
Tract 20B Intrusive Investigation Results
Cornhusker Army Ammunition Plant
Grand Island, Nebraska

Site	Target ID	Easting	Northing	DGM Ch2 mV	Dig Date	Anomaly Type	Description	Depth (in)	Length (in)	Weight (lbs)	Comments	Pre-Dig Ch2 mV	Post-Dig Ch2 mV	Unresolved	Acceptance Sampling QC Status
SFDA	SFDA_205	540761.59	4532711.19	1.9	6/2/2020	NMRD	scrap metal	2	4	0.2		5.0	0.0		Pass
SFDA	SFDA_206	540776.34	4532730.48	3.5	6/2/2020	NMRD	nail	6	4	0.1		5.0	0.0		
SFDA	SFDA_220	540677.34	4532694.87	6.2	6/1/2020	NMRD	nails	4	6	0.1		20.0	2.0		
SFDA	SFDA_221	540646.82	4532710.85	2.8	6/2/2020	NMRD	scrap metal, bolt	3	1	0.1		4.0	0.0		Pass
SFDA	SFDA_222	540657.29	4532709.99	14.6	6/1/2020	MD	fuze piece, scrap metal	6	2	0.3		20.0	1.0		
SFDA	SFDA_228	540700.41	4532708.42	9.5	6/3/2020	NMRD	bolt, scrap metal	3	4	0.2		12.0	0.0		Pass
SFDA	SFDA_229	540703.17	4532709.02	74.9	6/3/2020	NMRD	bolt, scrap metal, nails	4	4	0.3	trash pit, characterized	75.0	12.0	Yes	Pass
SFDA	SFDA_231	540704.30	4532711.29	30.5	6/3/2020	NMRD	wire, bolt, nails	5	4	0.2	trash pit, characterized	31.0	7.0	Yes	Pass
SFDA	SFDA_233	540709.07	4532711.20	15.7	6/3/2020	NMRD	bolt, nail	4	4	0.2	influenced by multiple adjacent anomalies	18.0	10.0		Pass
SFDA	SFDA_234	540711.96	4532711.47	610.5	6/3/2020	NMRD	car pieces, wire, scrap metal, trash pit	15	36	25.0	trash pit, characterized	783.0	172.0	Yes	Pass
SFDA	SFDA_235	540718.28	4532712.45	5.1	6/2/2020	ND	in 2 feet of standing water				could not reacquire or resolve due to standing water			Yes	
SFDA	SFDA_236	540726.70	4532712.75	9.7	6/2/2020	Other	encountered ground water and what is likely a concrete slab at depth, could not investigate further	18			could not dig in groundwater	53.0	53.0	Yes	
SFDA	SFDA_237	540729.95	4532712.87	8.3	6/2/2020	NMRD	barb wire	6	3	0.1		11.0	1.0		
SFDA	SFDA_238	540733.78	4532712.91	12.0	6/2/2020	NMRD	scrap metal, encountered ground water	18	3	0.2	could not dig in groundwater	26.0	17.0	Yes	
SFDA	SFDA_239	540738.23	4532712.97	12.1	6/2/2020	NMRD	bolt and washer	4	4	0.2		12.8	0.0		
SFDA	SFDA_240	540768.79	4532710.56	439.3	6/2/2020	NMRD	large can lid	1	12	0.5		850.0	1.5		Pass
SFDA	SFDA_241	540772.31	4532711.94	5.2	6/2/2020	NMRD	nail	2	4	0.1		8.0	2.0		Pass
SFDA	SFDA_242	540777.44	4532718.09	6.1	6/2/2020	NMRD	scrap metal	5	4	0.2		14.0	0.0		Pass
SFDA	SFDA_243	540776.14	4532735.77	4.1	6/2/2020	NMRD	scrap metal, eyelet	4	2	0.2		5.0	0.0		Pass
SFDA	SFDA_244	540776.07	4532737.53	8.5	6/2/2020	NMRD	scrap metal, nails	6	4	0.4	post dig influenced by adjacent anomalies (likely trash pit)	11.0	4.0		Pass
SFDA	SFDA_245	540776.11	4532742.22	96.8	6/2/2020	NMRD	metal rod, nails	1	96	2.0	edge of large anomaly (likely trash pit), affecting post-dig mV	140.0	30.0		Pass
SFDA	SFDA_375	540696.12	4532691.71	2.8	6/2/2020	NC	No Contact				deadfall near target, likely false positive when cart bumped limb	1.0	1.0		Pass
SFDA	SFDA_376	540697.69	4532692.09	3.4	6/2/2020	NC	No Contact				deadfall near target, likely false positive when cart bumped limb	0.0	0.0		
SFDA	SFDA_377	540702.21	4532694.22	27.2	6/1/2020	NMRD	tractor pin	2	6	0.5		72.0	0.0		Pass
SFDA	SFDA_378	540728.83	4532695.87	3.7	6/2/2020	NC	No Contact				deadfall near target, likely false positive when cart bumped limb	0.0	0.0		
SFDA	SFDA_444	540734.03	4532698.15	4.2	6/2/2020	NC	No Contact				deadfall near target, likely false positive when cart bumped limb	0.0	0.0		
SFDA	SFDA_502	540568.86	4532733.41	6.4	6/2/2020	MD	Fuze piece (M404)	4	3	0.3		27.0	0.0		Pass


pen+ GEAR™
Made in the USA
Factory Certified
COMPOSITION
HGL AT3001.11 / AT3001.12
ABANDONED BURN AREA / SOUTH FUZE DISPOSAL AREA
CHARP, NEBRASKA
TEAM 1 BOOK 1
CONTRACT# W912BP-16-D-0004
TASK ORDER # 0002
100 SHEETS
College Ruled

26MAY2020
DMK
PG1

ABA/SFDA, CHAAP, NE
AT3001.11 / AT3001.12
PPE: LEVEL D TL: DONNIE KOETJE

PARTLY CLOUDY
H: 71° F
L: 52° F

0800	ARRIVE ONSITE FOR INITIAL PROJECT SAFETY BRIEF CONDUCTED BY SONNY RICHARDSON (SUXO'S) AND TONY INDELICATO (UXOSO/QCS)
0915	TEAM 1 CONSISTING OF DONNIE KOETJE T3/TL, JOSH BAIR T2, ANTHONY COTA T2, RANDAL COTA T2, AND JOSH DUFRATES GEO. TAILGATE GIVEN.
0935	ASSEMBLE AND CHECK OUT 2 GARRETT METAL DETECTORS S/N: 58391631 AND 58391609, AND 1 SCHONSTEDT S/N: 266424. EM61 COIL 1423.
1000	SET UP BASE STATION AND ESTABLISH CONTROL.
1015	TRANSIT TO ABANDONED BURN AREA (ABA) AND STAKEOUT BOUNDARY.
1055	COMPLETE STAKEOUT OF ABA BOUNDARY AND TRANSIT TO SOUTH FUZE DISPOSAL AREA (SFDA) AND BEGIN STAKE OUT OF SFDA TRANSECT.
1230	COMPLETE STAKEOUT OF SFDA TRANSECT.
1235	LUNCH.
1305	TRANSIT TO ABA AND BEGIN SURFACE SWEEP.
1600	COMPLETE ABA SURFACE SWEEP AND TRANSIT TO PROPOSED IVS LOCATION AND BEGIN DGM COLLECTION OF LOCATION.
1710	COMPLETE DGM COLLECTION OF PROPOSED IVS LOCATION AND TRANSIT TO SITE ENTRANCE TO PREPARE FOR END OF DAY.
1800	END OF DAY.

26MAY2020

D. KOETJE

27MAY2020
DMK
PG2

ABA/SFDA, CHAAP, NE
AT3001.11/AT3001.12
PPE: LEVEL D TL: DONNIE KOETJE

MOSTLY SUNNY
H: 77°F
L: 53° F

28MAY
DMK
PG 3

DMK
0700 ~~0800~~ ARRIVE ONSITE FOR MORNING MEETING

0720 TEAM CONSISTING OF DONNIE KOETJE T3/TL, JOSH BAIR T2, ANTHONY COTA T2, AND RANDAL COTA T2, AND JOSH DUFRATES GEO, TAILGATE GIVEN.

0739 SET UP BASE STATION AND EM61 COIL 1910.

0750 TRANSIT DOWNRANGE FOR BRUSH CUTTING AND SETUP OF IVS LOCATION AND BRUSH CUTTING OF ABA.

0845 COMPLETE BRUSH CUTTING OF IVS, BEGIN SETUP AND BEGIN BRUSH CUTTING OF ABA.

1100 COMPLETE BRUSH CUTTING OF ABA AND TRANSIT TO SFDA TRANSECT TO BEGIN BRUSH CUTTING. IVS SETUP CONTINUES.

1105 IVS SETUP COMPLETE. BEGIN DGM COLLECTION OF IVS TO DETERMINE IVS NOISE AND BACKGROUND VALUES.

1200 COMPLETE BRUSH CUTTING OF SFDA.

1215 COMPLETE DGM COLLECTION OF IVS.

1220 LUNCH

1250 STANDBY AS TONY INDELICATO (QC) PLACES SEEDS IN ABA AND SFDA. CONDUCT EM61 AND RTK TRAINING.

1455 TRANSIT TO SFDA TRANSECT AND BEGIN DGM COLLECTION.

1600 COMPLETE DGM OF SFDA TRANSECT.

1605 TROUBLESHOOT RTK/EM61 CONNECTIVITY ISSUE.

1640 CONDUCT EM61 IVS PM TEST.

1655 PREPARE SITE FOR END OF DAY.

1730 END OF DAY.

D. KOETJE 27MAY2020

28MAY2020
DMK
PG 3

ABA/SFDA, CHAAP, NE
AT3001.11/AT3001.12
PPE: LEVEL D TL: DONNIE KOETJE

SUNNY/WINDY
H: 77° F
L: 51° F

0700	ARRIVE ON SITE FOR MORNING MEETING.
0740	TEAM CONSISTING OF DONNIE KOETJE T3/TL, JOSH BAIR T2, ANTHONY COTA T2, AND RANDAL COTA T2. TAILGATE GIVEN.
0758	SET UP BASE STATION AND EM61 COIL 1910.
0800	TRANSIT TO IVS TO CONDUCT EM61 A.M. IVS CHECK.
0810	EM61 A.M. IVS CHECK CONDUCTED BY JOSH BAIR.
0815	EM61 CHECK COMPLETE. TRANSIT TO ABA FOR DGM COLLECTION.
0830	BEGIN DGM COLLECTION OF ABA.
1215	LUNCH.
1245	RESUME DGM COLLECTION OF ABA.
1500	COMPLETE DGM COLLECTION OF ABA AND RECEIVE RE-COLLECT POLYGONS FROM JOSH DEFRATES FOR ABA DUE TO EXCESSIVE NOISE.
1510	BEGIN RE-COLLECT POLYGONS IN ABA.
1610	COMPLETE RE-COLLECT POLYGONS AND TRANSIT TO SFDA FOR STAKEOUT OF STEP OUT TRANSECTS.
1705	COMPLETE STAKEOUT OF STEP OUT TRANSECTS IN SFDA AND PREPARE SITE FOR END OF DAY.
1730	END OF DAY.

D. KOETJE 28MAY2020

29MAY2020
DMK
PG4

ABA / SFDA, CHAAP, NE
AT3001.11 / AT3001.12
PPE: LEVEL D TL: DONNIE KOETJE

PARTLY CLOUDY
H: 74° F
L: 51° F

01JUN20
DMK
PG5

0700 ARRIVE ONSITE FOR MORNING MEETING.
0740 TEAM CONSISTING OF DONNIE KOETJE T3/TL, JOSH BAIRT2, ANTHONY COTA, RANDAL COTA, AND JOSH DEFRATES GEO, TAILGATE GIVEN.
0750 SET UP BASE STATION AND EM61 COIL 1910.
0800 TRAVEL DOWNRANGE TO IVS AND CONDUCT EM61 A.M. IVS CHECK.
0810 EM61 AM IVS CHECK CONDUCTED BY JOSH BAIR.
0810 TRAVEL TO SFDA STEP OUT TRANSECTS AND BEGIN DGM COLLECTION.
1030 COMPLETE DGM COLLECTION OF SFDA STEP OUT TRANSECTS AND TRAVEL TO ABA FOR RTK OF MONITORING WELL, AND PUK POLYGON FLAGS.
1100 STANDBY TO RECIEVE TARGET DIG LIST.
1130 LUNCH
1200 BEGIN RTK, REACQUIRE AND DIGGING OF TARGETS IN ABA.
1645 STOP DIGGING OPERATIONS AND PREPARE SITE FOR END OF DAY.
1730 END OF DAY.

D. KOETJE 29MAY2020

01JUN2020
DMK
PG 5

ABA/SFDA, CHAAP, NE
AT3001.11 / AT3001.12
PPE: LEVEL D TL: DONNIE KOETJE

SUNNY/HOT
H: 94°F
L: 70°F

0700	ARRIVE ONSITE FOR MORNING MEETING.
0730	TEAM CONSISTING OF DONNIE KOETJE T3/TL, JOSH BAIR T2, ANTHONY COTA T2, RANDAL COTA T2, AND JOSH DEFRATES GEO, TAILGATE GIVEN.
0745	SET UP BASE STATION AND EM61 COIL 1910.
0800	TRAVEL DOWNRANGE TO IVS TO CONDUCT EM61 A.M. STATIC TEST.
0810	EM61 AM STATIC TEST CONDUCTED BY JOSH BAIR.
0815	TRAVEL TO ABA AND BEGIN INTRUSIVE OPERATIONS.
1200	LUNCH
1230	RESUME ABA INTRUSIVE OPERATIONS.
1415	COMPLETE INTRUSIVE OPERATIONS IN ABA AND TRAVEL TO SFDA FOR INTRUSIVE OPERATIONS.
1430	BEGIN INTRUSIVE OPERATIONS IN SFDA.
1645	STOP INTRUSIVE OPERATIONS AND PREPARE SITE FOR END OF DAY.
1730	END OF DAY.

D. KOETJE 01JUN2020

02JUN2020
DMK
PG6

ABA/SFDA, CHAAP, NE
AT3001.11 / AT3001.12
PPE: LEVEL D TL: DONNIE KOETJE

PARTLY CLOUDY
HOT
H: 94°F
L: 67°F

0700	ARRIVE ONSITE FOR MORNING MEETING.
0750	TEAM CONSISTING OF DONNIE KOETJE TL/T3, JOSH BAIR T2, ANTHONY COTA T2, RANDAL COTA T2, AND JOSH DEFRATES GEO, TAILGATE GIVEN.
0800	SET UP BASE STATION AND EM61 COIL 198.
0810	TRAVEL TO IVS FOR AM EM61 IVS TEST.
0815	AM EM61 IVS TEST CONDUCTED BY JOSH BAIR.
0825	TRAVEL TO SFDA AND BEGIN INTRUSIVE OPS.
1235	COMPLETE INTRUSIVE OPS IN SFDA.
1240	LUNCH.
1310	BEGIN DGM COLLECTION OF ADDITIONAL STEP OUT TRANSECTS IN SFDA
1345	COMPLETE DGM COLLECTION OF SFDA STEP OUT TRANSECTS AND BEGIN INTRUSIVE OPS OF ADDITIONAL TARGETS IN SFDA.
1430	COMPLETE INTRUSIVE OPS IN SFDA AND BEGIN DGM COLLECTION OF FINAL STEP OUT TRANSECT IN SFDA.
1450	COMPLETE DGM COLLECTION OF SFDA AND BEGIN INTRUSIVE OPS OF ADDITIONAL TARGETS IN SFDA.
1645	COMPLETE INTRUSIVE OPS IN SFDA AND PREPARE SITE FOR END OF DAY.
1730	END OF DAY.

D. KOETJE 02JUN2020

03JUNZ0
DMK
PG7

07
07
07
08
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08
09
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12
12
12
15
17

03JUN2020
DMK
PG7

ABA/SFDA, CHAAP
AT3001.11/AT3001.12
PPE: LEVEL D TL: DONNIE KOETJE

MOSTLY SUNNY
H: 88°F
L: 64°F

0700 ARRIVE ONSITE FOR MORNING MEETING.
0740 TEAM CONSISTING OF DONNIE KOETJE TL/T3, JOSH BAIR T2, ANTHONY COTA T2, RAQUAL COTA T2, AND JOSH DEFRATES GEO. TAILGATE GIVEN.
0750 SET UP BASE STATION AND EM61 COIL 1910.
0800 TRAVEL TO IVS FOR AM EM61 IVS TEST.
0810 AM EM61 IVS TEST CONDUCTED BY JOSH BAIR.
0820 BEGIN STAKE OUT AND SURFACE SWEEP OF ABA EXPANSION TRANSECTS.
0915 BEGIN DGM COLLECTION OF ABA EXANSION TRANSECTS.
1000 COMPLETE DGM COLLECTION OF ABA EXPANSION TRANSECTS AND TRAVEL TO SFDA FOR INTRUSIVE OPS ON ADDITIONAL SFDA TARGETS
1200 COMPLETE INTRUSIVE OPS IN SFDA AND TRAVEL TO ABA.
1215 LUNCH
1245 BEGIN INTRUSIVE OPS ON ABA ~~EXPANSION~~ DMG EXPANSION TRANSECTS.
1545 COMPLETE INTRUSIVE OPS ON ABA EPANSION TRANSECTS AND PREPARE SITE FOR DEMOBILIZATION AND END OF DAY.
1730 END OF DAY.

D. KOETJE 03JUN2020

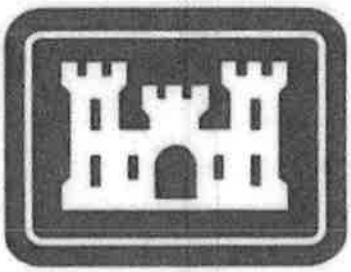
Logbooks

uxo so/uxo QCS Logbook
Anthony Indelicato

REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) BURNING GROUNDS, SANITARY LANDFILL, AND PISTOL RANGE AREAS (REMAINING PROPERTY OF THE U.S. GOVERNMENT)

CORNHUSKER ARMY AMMUNITION PLANT GRAND ISLAND, NEBRASKA

Prepared for:



U.S. Army Corps of Engineers
Omaha District

Contract: W9128F-16-D-0014
Task Order No. 0002

PPE: Level D

Burning Grounds RI CHAAP

AT 3091.11-12

MT (1)

26 May 20

UXO SV / UXO QCS Indelicato

0800 Initial Safety Brief. SSHP / APP complete
All personnel signed Acknowledgement.
Weather: 62-68 mostly cloudy. 10 mph wind
All personnel arrived & Total on site:
Richardson, Indelicato, Kochefko, Koetje,
Bair, DeFrates, A Cota and R Cota

1100 Primary activities: set up Base, set up
EM-61, setup IVS

1400 Observed team conduct surface sweep

1600 skid steer applied on site.

1630 QC check initial surface sweep.
Team completes DGM survey at IVS site.

1730 Out Brief and planning for tomorrow.
No injuries reported. End

1800 End of Day

26 May 20

PPE: Level D Burning Grounds RI CHAAP AR (2)

27 May 20 AT 3301.11-12, UXOSO/UXO Acs Indelicato
0700 Safety Brief: Slips, Trips, Falls, Water obstacles, Ticks, First Aid, Hospital Covid.
0730 Radio checks. All good.
Weather: 54-76, mostly sunny, light breeze
All personnel on site. Randall Cota had a tick imbedded in his neck last night saved the Tick in a zip lock.
Radios and Eye wash arrived on site
0900 Brush cutting complete for RVS proceed to Abandoned Burn Area. QC check, Surface Clearing at ABA
1300 RVS Complete. Ready for ABA.
1400 QC check SFDA Surface Clearance.
1500 Team begins DGM at SFDP
1645 RVS Returning Check.
1715 Out Brief. No injuries.
1730 End of Day

27 May 20

PPE: Level

28 May 2

0700

0730

0800

0830

1630

1715

1730

PPE: Level D Burning Grounds RI CHAAP AF (3)

28 May 20 AT 3001.11-12 uxoso/uxoacs Indicate
0700 Safety Brief: COVID 19 and wind
Weather: 59, 77 Windy 13-17
All 8 personnel on site. No injuries
0730 Safety Inspection
0800 observed RVS and analog instrument checks
0830 Team begins collecting DGM data at ABA
1630 ABA collection complete. RVS check.
1715 Out Brief. No injuries reported.
1730 End of Day

28 May 20

PPE: Level D

ABA/SFDA CHAAP RT

AT 3001-11-12 UXOs/UXO QCs Indicator (4)

29 may 20

0700 Safety Brief: Review Intrusive procedures, Ordnance & D
Weather: 52-74 Sunny
All S personnel on site. NO injuries reported

0730 Safety Inspection

0800 Check Analog instruments and EM61 at EVS. Standby for step outs

0880 Team Moves to SFDA to collect data for step outs.

1130 DGM at SFDA complete.

1300 Begin Recap and Intrude at ABA. QC Check 19/21 Flags.

1630 EVS check for EM61

1715 Outbrief

1730 End of Day

29 may 20

PPE: L
Volume
0700
0730
0800
0820
1400
1430
1630
1715
1730

PPE: Level D

ABA/SFDA CHAAP RI

AT3001.11-12 UXWSO/UXWQCS Indelicato

1 June 20

0700 Safety Brief: Hot windy weather. Slips Trips, falls. Hydration, food, breaks, Weather: 69-41. Wind 18, Humidity 35% All 8 personnel on site. No injuries or near misses reported.

0730 Safety Inspection

0800 Team checks Analog instruments and EMGI at BVS

0820 Begin Intrusive and recap at ABA

1400 ABA complete. QC checked 21/31 Flags

1430 Team begins intrusive and recap at SFDA.

1630 Team Moves To BVS for End of Day check. QC checked 4/4 Flag's

1715 Out brief. No injuries.

1730 End of Day

1 June 20

PPE: Level D ABA/SFDA CHAAP RI AB (6)

2 June 20 AT3001-11, 12 UX050/UX060CS Embedded

0700 Safety Brief: Injury Response/Accident reporting
Weather: 70-95 wind 8-12, sunny
All 8 personnel on site. No injuries reported.

0730 Safety Inspection

0815 Team conducts checks at IVS for Encl and Analyzers transmitters.

0830 Intrusive ops at SFDA

1200 Seeding at SFDA stepout.

1245 Intrusive complete at SFDA. Additional Data Collection at SFDA

1645 IVS check. 1382 flags checked

1730 Outbrief. No injuries

1740 End of Day

2 June 20

PPE: Level D ABA/SFDA CHAAP RI AI (7)

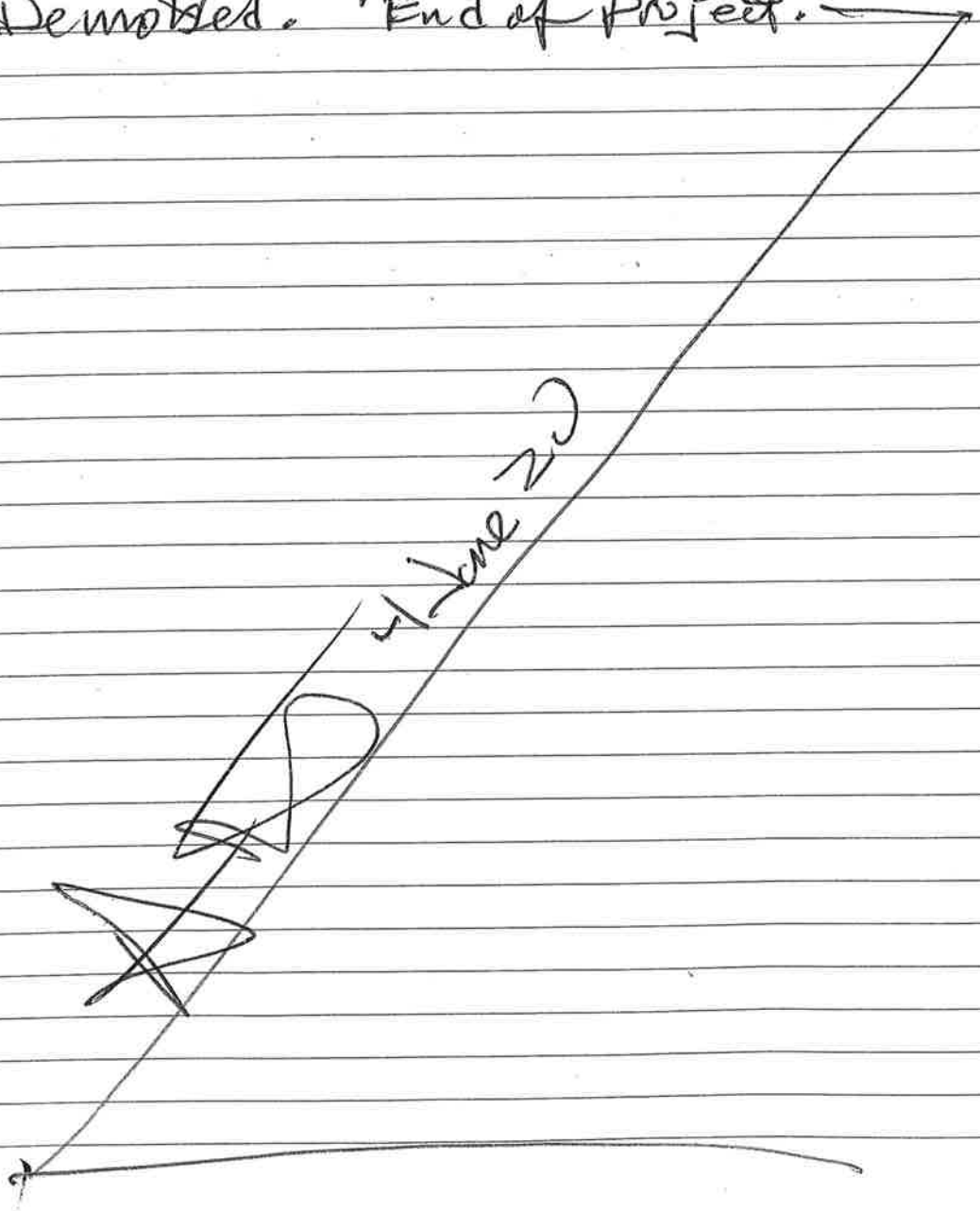
3 June 20 AT3001-11,13 UXOSO/UXO QCS Individual
0700 Safety Brief: Mosquito hazards and mitigation.
Weather: 72-87, Wind 5, Sunny
All personnel on Site. No injuries.
0730 Safety Inspection.
0815 Fire check EMCol and Analog.
0830 Team preps new ABA stepouts.
0900 QC check, surface clearance.
0915 Team collects DGM data. New transect
0930 Seeding at ABA transect.
1000 QC checked 8/8 Flags. Moved to SFDA. QC checked 14/14 Flags
1600 Intrusive complete. Prep for Demob.
1715 Everything packed and secure.
Final out brief. No injuries reported.
1730 End of Day

3 June 20

PPE: Level D ABA/SADA CHAAP RI (8)

4 June 20 AT3001-11,12 UXO50/UXO QCS Indicate
0800 Arrived at Far Field Inn. Sunny's hotel. met with Sunny and Donnie. Checked and received Donnies field documents. Checked and verified MPDAS seal and signed 1348-A. Donnie took MPDAS and RFD to FedEx.

0900 Meeting complete. All personnel Demobed. End of Project.



Quality Control

Daily Quality Control Report

Contract No:	Delivery/Task Order:
W9128F-16-D-0014	**0002**

Site/Installation Name:	City:	State:	Date:
CHAAP	Grand Island	NE	26 May 2020

Site Management

Employer:	Position:	Name:	Activity:
HGL	Project Manager	Joe Skibinski	Management
HGL	Senior UXO Supervisor	Sonny Richardson	Management
HGL	Senior Geophysicist	Josh DeFrates	Geo Supervisor
HGL	UXO Quality Control Specialist	Tony Indelicato	Quality Control
HGL	UXO Safety Officer	Tony Indelicato	Safety

Team ONE

HGL	TIII	Donnie Koetje	UXO
HGL	TII	Josh Bair	UXO
ATI	TII	Anthony Cota	UXO
ATI	TII	Randal Cota	UXO

Team TWO

Team THREE

Team FOUR

Daily Quality Control Report

1. Work performed today:

Arrive at site. Initial site familiarization and training. Locate GPS Points. Organize and set up equipment. Surface sweep ABA. Brush Cutting.

2. Worked performed today by subcontractors:

NONE

3. Inspections performed (include name of team present, specifications, plans and submittals required for definable feature of work [DFOW]). Indicate 3-Phase inspection level with by inserting: Preparatory = P; Initial = I; Follow-up = F.

Phase	Team name:	DFOW (Insert project specific DFOWs)	Comments
Initial	**HGL/ ATI**	**Mobilization**	**Complete**
Initial	**HGL/ ATI**	**Site Preparation**	**Ongoing**
Preparatory	**HGL/ ATI**	**IVS Construction and Blind Seeding**	**Ongoing**
Preparatory	**HGL/ ATI**	**Assemble and Verify EM61-Mk2**	**Ongoing**
Preparatory	**HGL/ ATI**	**Conduct Detection Survey**	**Ongoing**
Preparatory	**HGL/ ATI**	**Data Processing and Target Selection**	**Ongoing**
Preparatory	**HGL/ ATI**	**Anomaly Reacquisition**	**Ongoing**
Preparatory	**HGL/ ATI**	**Intrusive Investigation**	**Ongoing**
Preparatory	**HGL/ ATI**	**MPPEH/MEC Handling, Certification and Disposal**	**Ongoing**
Preparatory	**HGL/ ATI**	**MC Sampling**	**Ongoing**
Preparatory	**HGL/ ATI**	**Demobilization**	**Ongoing**

Daily Quality Control Report

Grid #	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**

GRID INSPECTIONS PERFORMED:						
QC inspections completed to date:			**QA inspections completed to date:**			
Pass	**Fail**	**Total**	**Pass**	**Fail**	**Total**	
	0	0	0	0	0	

General Site Inspection	**Team (indicate by: UXO = U; or Geo = G; and No:**					**Pass**	**Fail**	**NA**
Proper work attire (PPE)	1					X		
Equipment calibration check	1							X
Vehicle condition	1					X		
Equipment condition	1					X		
Emergency equipment	1					X		
Proper grid layout	1							X
Proper search techniques	1							X
Team leader daily log	1					X		
SUXOS daily log	1							X
GIS and map data	1							X
Exclusion zone	1							X
Field office interior	1							X
Field office exterior	1							X
Proper demolition operations	1							X
Safety violations						None		

4. Soil samples taken:

Post-Detonation: ☐ No ☐ Yes ☒ None required

5. Verbal instructions received by the Government representative or client and actions taken:

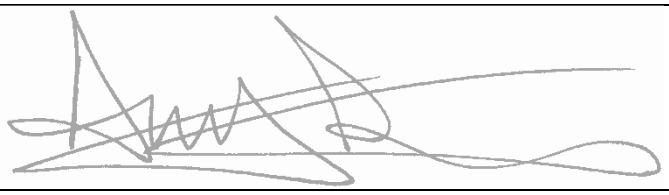
None

6. Non-conformances/deficiencies reported:

None

CERTIFICATION: *I certify the above information is complete and correct and that I, or my representative, have inspected all work identified on this report performed by HGL and our subcontractor(s) and have determined to the best of my knowledge and belief that noted work activities are in compliance with the plans and specifications, except as may be noted above.*

Daily Quality Control Report

Anthony Indelicato	
UXO Quality Control Specialist	Signature

Daily Quality Control Report

Contract No:	Delivery/Task Order:
W9128F-16-D-0014	**0002**

Site/Installation Name:	City:	State:	Date:
CHAAP	Grand Island	NE	27 May 2020

Site Management

Employer:	Position:	Name:	Activity:
HGL	Project Manager	Joe Skibinski	Management
HGL	Senior UXO Supervisor	Sonny Richardson	Management
HGL	Senior Geophysicist	Josh DeFrates	Geo Supervisor
HGL	UXO Quality Control Specialist	Tony Indelicato	Quality Control
HGL	UXO Safety Officer	Tony Indelicato	Safety

Team ONE

HGL	TIII	Donnie Koetje	UXO
HGL	TII	Josh Bair	UXO
ATI	TII	Anthony Cota	UXO
ATI	TII	Randal Cota	UXO

Team TWO

Team THREE

Team FOUR

Daily Quality Control Report

1. Work performed today:

IVS Construction, Brush cutting at ABA, Check Analog instruments at IVS, Surface sweep at South Fuze Destruction Area. Data collection at SFDA. QC check Surface Sweep. Before and after IVS Checks. Installed qc seeds at ABA and SFDA

2. Worked performed today by subcontractors:

NONE

3. Inspections performed (include name of team present, specifications, plans and submittals required for definable feature of work [DFOW]). Indicate 3-Phase inspection level with by inserting: Preparatory = P; Initial = I; Follow-up = F.

Phase	Team name:	DFOW (Insert project specific DFOWs)	Comments
Initial	**HGL/ ATI**	**Mobilization**	**Complete**
Initial	**HGL/ ATI**	**Site Preparation**	**Ongoing**
Preparatory	**HGL/ ATI**	**IVS Construction and Blind Seeding**	**Ongoing**
Preparatory	**HGL/ ATI**	**Assemble and Verify EM61-Mk2**	**Ongoing**
Preparatory	**HGL/ ATI**	**Conduct Detection Survey**	**Ongoing**
Preparatory	**HGL/ ATI**	**Data Processing and Target Selection**	**Ongoing**
Preparatory	**HGL/ ATI**	**Anomaly Reacquisition**	**Ongoing**
Preparatory	**HGL/ ATI**	**Intrusive Investigation**	**Ongoing**
Preparatory	**HGL/ ATI**	**MPPEH/MEC Handling, Certification and Disposal**	**Ongoing**
Preparatory	**HGL/ ATI**	**MC Sampling**	**Ongoing**
Preparatory	**HGL/ ATI**	**Demobilization**	**Ongoing**

Daily Quality Control Report

Grid #	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**

GRID INSPECTIONS PERFORMED:						
QC inspections completed to date:			**QA inspections completed to date:**			
Pass	**Fail**	**Total**	**Pass**	**Fail**	**Total**	
	0	0	0	0	0	

General Site Inspection	**Team (indicate by: UXO = U; or Geo = G; and No:**					**Pass**	**Fail**	**NA**
Proper work attire (PPE)	1					X		
Equipment calibration check	1							X
Vehicle condition	1					X		
Equipment condition	1					X		
Emergency equipment	1					X		
Proper grid layout	1							X
Proper search techniques	1							X
Team leader daily log	1					X		
SUXOS daily log	1							X
GIS and map data	1							X
Exclusion zone	1							X
Field office interior	1							X
Field office exterior	1							X
Proper demolition operations	1							X
Safety violations						None		

4. Soil samples taken:

Post-Detonation: ☐ No ☐ Yes ☒ None required

5. Verbal instructions received by the Government representative or client and actions taken:

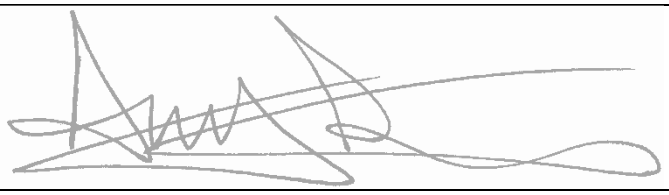
None

6. Non-conformances/deficiencies reported:

None

CERTIFICATION: *I certify the above information is complete and correct and that I, or my representative, have inspected all work identified on this report performed by HGL and our subcontractor(s) and have determined to the best of my knowledge and belief that noted work activities are in compliance with the plans and specifications, except as may be noted above.*

Daily Quality Control Report

Anthony Indelicato	
UXO Quality Control Specialist	Signature

Daily Quality Control Report

Contract No:	Delivery/Task Order:
W9128F-16-D-0014	**0002**

Site/Installation Name:	City:	State:	Date:
CHAAP	Grand Island	NE	28 May 2020

Site Management

Employer:	Position:	Name:	Activity:
HGL	Project Manager	Joe Skibinski	Management
HGL	Senior UXO Supervisor	Sonny Richardson	Management
HGL	Senior Geophysicist	Josh DeFrates	Geo Supervisor
HGL	UXO Quality Control Specialist	Tony Indelicato	Quality Control
HGL	UXO Safety Officer	Tony Indelicato	Safety

Team ONE

HGL	TIII	Donnie Koetje	UXO
HGL	TII	Josh Bair	UXO
ATI	TII	Anthony Cota	UXO
ATI	TII	Randal Cota	UXO

Team TWO

Team THREE

Team FOUR

Daily Quality Control Report

1. Work performed today:

Completed data collection for ABA. Before and after IVS Checks. Analog instruments checked at IVS prior to use. Marked out and surface swept for step out transects.

2. Worked performed today by subcontractors:

NONE

3. Inspections performed (include name of team present, specifications, plans and submittals required for definable feature of work [DFOW]). Indicate 3-Phase inspection level with by inserting: Preparatory = P; Initial = I; Follow-up = F.

Phase	Team name:	DFOW (Insert project specific DFOWs)	Comments
Final	**HGL/ ATI**	**Mobilization**	**Complete**
Initial	**HGL/ ATI**	**Site Preparation**	**Ongoing**
Initial	**HGL/ ATI**	**IVS Construction and Blind Seeding**	**Ongoing**
Initial	**HGL/ ATI**	**Assemble and Verify EM61-Mk2**	**Ongoing**
Initial	**HGL/ ATI**	**Conduct Detection Survey**	**Ongoing**
Preparatory	**HGL/ ATI**	**Data Processing and Target Selection**	**Ongoing**
Preparatory	**HGL/ ATI**	**Anomaly Reacquisition**	**Ongoing**
Preparatory	**HGL/ ATI**	**Intrusive Investigation**	**Ongoing**
Preparatory	**HGL/ ATI**	**MPPEH/MEC Handling, Certification and Disposal**	**Ongoing**
Preparatory	**HGL/ ATI**	**MC Sampling**	**Ongoing**
Preparatory	**HGL/ ATI**	**Demobilization**	**Ongoing**

Daily Quality Control Report

Grid #	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**

GRID INSPECTIONS PERFORMED:						
QC inspections completed to date:			**QA inspections completed to date:**			
Pass	**Fail**	**Total**	**Pass**	**Fail**	**Total**	
	0	0	0	0	0	

General Site Inspection	**Team (indicate by: UXO = U; or Geo = G; and No:**					**Pass**	**Fail**	**NA**
Proper work attire (PPE)	1					X		
Equipment calibration check	1					X		
Vehicle condition	1					X		
Equipment condition	1					X		
Emergency equipment	1					X		
Proper grid layout	1							X
Proper search techniques	1					X		
Team leader daily log	1					X		
SUXOS daily log	1							X
GIS and map data	1							X
Exclusion zone	1							X
Field office interior	1							X
Field office exterior	1							X
Proper demolition operations	1							X
Safety violations						None		

4. Soil samples taken:

Post-Detonation: ☐ No ☐ Yes ☒ None required

5. Verbal instructions received by the Government representative or client and actions taken:

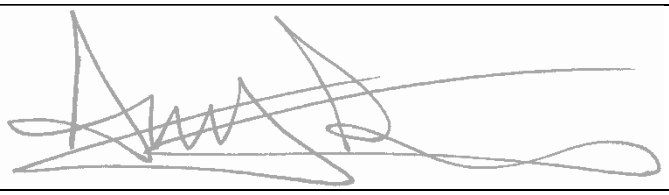
None

6. Non-conformances/deficiencies reported:

None

CERTIFICATION: *I certify the above information is complete and correct and that I, or my representative, have inspected all work identified on this report performed by HGL and our subcontractor(s) and have determined to the best of my knowledge and belief that noted work activities are in compliance with the plans and specifications, except as may be noted above.*

Daily Quality Control Report

Anthony Indelicato	
UXO Quality Control Specialist	Signature

Daily Quality Control Report

Contract No:	Delivery/Task Order:
W9128F-16-D-0014	**0002**

Site/Installation Name:	City:	State:	Date:
CHAAP	Grand Island	NE	29 May 2020

Site Management

Employer:	Position:	Name:	Activity:
HGL	Project Manager	Joe Skibinski	Management
HGL	Senior UXO Supervisor	Sonny Richardson	Management
HGL	Senior Geophysicist	Josh DeFrates	Geo Supervisor
HGL	UXO Quality Control Specialist	Tony Indelicato	Quality Control
HGL	UXO Safety Officer	Tony Indelicato	Safety

Team ONE

HGL	TIII	Donnie Koetje	UXO
HGL	TII	Josh Bair	UXO
ATI	TII	Anthony Cota	UXO
ATI	TII	Randal Cota	UXO

Team TWO

Team THREE

Team FOUR

Daily Quality Control Report

1. Work performed today:

Additional seeding in step out. Data collection at SFDA additional transects preceded by surface sweep. QC check Surface Sweep. Before and after IVS Checks. Analog instruments checked at IVS prior to use. Data processed and Targets selected for ABA. Initial Reaq and intrusive investigation. QC checked 19 out of 21 targets in Lot 1.

2. Worked performed today by subcontractors:

NONE

3. Inspections performed (include name of team present, specifications, plans and submittals required for definable feature of work [DFOW]). Indicate 3-Phase inspection level with by inserting: Preparatory = P; Initial = I; Follow-up = F.

Phase	Team name:	DFOW (Insert project specific DFOWs)	Comments
Final	**HGL/ ATI**	**Mobilization**	**Complete**
Initial	**HGL/ ATI**	**Site Preparation**	**Ongoing**
Initial	**HGL/ ATI**	**IVS Construction and Blind Seeding**	**Ongoing**
Initial	**HGL/ ATI**	**Assemble and Verify EM61-Mk2**	**Ongoing**
Initial	**HGL/ ATI**	**Conduct Detection Survey**	**Ongoing**
Initial	**HGL/ ATI**	**Data Processing and Target Selection**	**Ongoing**
Initial	**HGL/ ATI**	**Anomaly Reacquisition**	**Ongoing**
Initial	**HGL/ ATI**	**Intrusive Investigation**	**Ongoing**
Preparatory	**HGL/ ATI**	**MPPEH/MEC Handling, Certification and Disposal**	**Ongoing**
Preparatory	**HGL/ ATI**	**MC Sampling**	**Ongoing**
Preparatory	**HGL/ ATI**	**Demobilization**	**Ongoing**

Daily Quality Control Report

Grid #	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**

GRID INSPECTIONS PERFORMED:						
QC inspections completed to date:			**QA inspections completed to date:**			
Pass	**Fail**	**Total**	**Pass**	**Fail**	**Total**	
	0	0	0	0	0	

General Site Inspection	**Team (indicate by: UXO = U; or Geo = G; and No:**					**Pass**	**Fail**	**NA**
Proper work attire (PPE)	1					X		
Equipment calibration check	1					X		
Vehicle condition	1					X		
Equipment condition	1					X		
Emergency equipment	1					X		
Proper grid layout	1							X
Proper search techniques	1					X		
Team leader daily log	1					X		
SUXOS daily log	1							X
GIS and map data	1					X		
Exclusion zone	1					X		
Field office interior	1							X
Field office exterior	1							X
Proper demolition operations	1							X
Safety violations						None		

4. Soil samples taken:

Post-Detonation: ☐ No ☐ Yes ☒ None required

5. Verbal instructions received by the Government representative or client and actions taken:

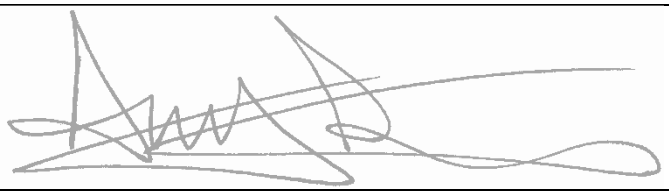
None

6. Non-conformances/deficiencies reported:

None

CERTIFICATION: *I certify the above information is complete and correct and that I, or my representative, have inspected all work identified on this report performed by HGL and our subcontractor(s) and have determined to the best of my knowledge and belief that noted work activities are in compliance with the plans and specifications, except as may be noted above.*

Daily Quality Control Report

Anthony Indelicato	
UXO Quality Control Specialist	Signature

Daily Quality Control Report

Contract No:	Delivery/Task Order:
W9128F-16-D-0014	**0002**

Site/Installation Name:	City:	State:	Date:
CHAAP	Grand Island	NE	01 June 2020

Site Management

Employer:	Position:	Name:	Activity:
HGL	Project Manager	Joe Skibinski	Management
HGL	Senior UXO Supervisor	Sonny Richardson	Management
HGL	Senior Geophysicist	Josh DeFrates	Geo Supervisor
HGL	UXO Quality Control Specialist	Tony Indelicato	Quality Control
HGL	UXO Safety Officer	Tony Indelicato	Safety

Team ONE

HGL	TIII	Donnie Koetje	UXO
HGL	TII	Josh Bair	UXO
ATI	TII	Anthony Cota	UXO
ATI	TII	Randal Cota	UXO

Team TWO

Team THREE

Team FOUR

Daily Quality Control Report

1. Work performed today:

Data collection at ABA additional transects preceded by surface sweep. QC check Surface Sweep. Before and after IVS Checks. Analog instruments checked at IVS prior to use. Data processed and Targets selected for ABA. Initial Reaq and intrusive investigation. QC checked 21 of 31 targets in Lot 1 and 4 out of 9 targets in Lot 2.

2. Worked performed today by subcontractors:

NONE

3. Inspections performed (include name of team present, specifications, plans and submittals required for definable feature of work [DFOW]). Indicate 3-Phase inspection level with by inserting: Preparatory = P; Initial = I; Follow-up = F.

Phase	Team name:	DFOW (Insert project specific DFOWs)	Comments
Final	**HGL/ ATI**	**Mobilization**	**Complete**
Initial	**HGL/ ATI**	**Site Preparation**	**Ongoing**
Initial	**HGL/ ATI**	**IVS Construction and Blind Seeding**	**Ongoing**
Initial	**HGL/ ATI**	**Assemble and Verify EM61-Mk2**	**Complete**
Initial	**HGL/ ATI**	**Conduct Detection Survey**	**Ongoing**
Initial	**HGL/ ATI**	**Data Processing and Target Selection**	**Ongoing**
Initial	**HGL/ ATI**	**Anomaly Reacquisition**	**Ongoing**
Initial	**HGL/ ATI**	**Intrusive Investigation**	**Ongoing**
Preparatory	**HGL/ ATI**	**MPPEH/MEC Handling, Certification and Disposal**	**Ongoing**
Preparatory	**HGL/ ATI**	**MC Sampling**	**Ongoing**
Preparatory	**HGL/ ATI**	**Demobilization**	**Ongoing**

Daily Quality Control Report

Grid #	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**

GRID INSPECTIONS PERFORMED:						
QC inspections completed to date:			**QA inspections completed to date:**			
Pass	**Fail**	**Total**	**Pass**	**Fail**	**Total**	
	0	0	0	0	0	

General Site Inspection	**Team (indicate by: UXO = U; or Geo = G; and No:**					**Pass**	**Fail**	**NA**
Proper work attire (PPE)	1					X		
Equipment calibration check	1					X		
Vehicle condition	1					X		
Equipment condition	1					X		
Emergency equipment	1					X		
Proper grid layout	1							X
Proper search techniques	1					X		
Team leader daily log	1					X		
SUXOS daily log	1							X
GIS and map data	1					X		
Exclusion zone	1					X		
Field office interior	1							X
Field office exterior	1							X
Proper demolition operations	1							X
Safety violations						None		

4. Soil samples taken:

Post-Detonation: ☐ No ☐ Yes ☒ None required

5. Verbal instructions received by the Government representative or client and actions taken:

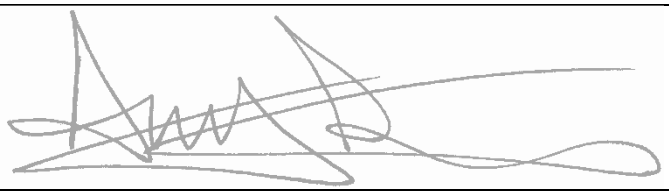
None

6. Non-conformances/deficiencies reported:

None

CERTIFICATION: *I certify the above information is complete and correct and that I, or my representative, have inspected all work identified on this report performed by HGL and our subcontractor(s) and have determined to the best of my knowledge and belief that noted work activities are in compliance with the plans and specifications, except as may be noted above.*

Daily Quality Control Report

Anthony Indelicato	
UXO Quality Control Specialist	Signature

Daily Quality Control Report

Contract No:	Delivery/Task Order:
W9128F-16-D-0014	**0002**

Site/Installation Name:	City:	State:	Date:
CHAAP	Grand Island	NE	02 June 2020

Site Management

Employer:	Position:	Name:	Activity:
HGL	Project Manager	Joe Skibinski	Management
HGL	Senior UXO Supervisor	Sonny Richardson	Management
HGL	Senior Geophysicist	Josh DeFrates	Geo Supervisor
HGL	UXO Quality Control Specialist	Tony Indelicato	Quality Control
HGL	UXO Safety Officer	Tony Indelicato	Safety

Team ONE

HGL	TIII	Donnie Koetje	UXO
HGL	TII	Josh Bair	UXO
ATI	TII	Anthony Cota	UXO
ATI	TII	Randal Cota	UXO

Team TWO

Team THREE

Team FOUR

Daily Quality Control Report

1. Work performed today:

Additional seeding. Data collection at ABA additional transects preceded by surface sweep. QC check Surface Sweep. Before and after IVS Checks. Analog instruments checked at IVS prior to use. Data processed and Targets selected for ABA. Initial Reaq and intrusive investigation. QC checked 13 out of 32 targets in Lot 2.

2. Worked performed today by subcontractors:

NONE

3. Inspections performed (include name of team present, specifications, plans and submittals required for definable feature of work [DFOW]). Indicate 3-Phase inspection level with by inserting: Preparatory = P; Initial = I; Follow-up = F.

Phase	Team name:	DFOW (Insert project specific DFOWs)	Comments
Final	**HGL/ ATI**	**Mobilization**	**Complete**
Initial	**HGL/ ATI**	**Site Preparation**	**Ongoing**
Initial	**HGL/ ATI**	**IVS Construction and Blind Seeding**	**Ongoing**
Initial	**HGL/ ATI**	**Assemble and Verify EM61-Mk2**	**Complete**
Initial	**HGL/ ATI**	**Conduct Detection Survey**	**Ongoing**
Initial	**HGL/ ATI**	**Data Processing and Target Selection**	**Ongoing**
Initial	**HGL/ ATI**	**Anomaly Reacquisition**	**Ongoing**
Initial	**HGL/ ATI**	**Intrusive Investigation**	**Ongoing**
Preparatory	**HGL/ ATI**	**MPPEH/MEC Handling, Certification and Disposal**	**Ongoing**
Preparatory	**HGL/ ATI**	**MC Sampling**	**Ongoing**
Preparatory	**HGL/ ATI**	**Demobilization**	**Ongoing**

Daily Quality Control Report

Grid #	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**

GRID INSPECTIONS PERFORMED:							
	QC inspections completed to date:				**QA inspections completed to date:**		
	Pass	**Fail**	**Total**		**Pass**	**Fail**	**Total**
	57	0	0		0	0	0

General Site Inspection	**Team (indicate by: UXO = U; or Geo = G; and No:**					**Pass**	**Fail**	**NA**
Proper work attire (PPE)	1					X		
Equipment calibration check	1					X		
Vehicle condition	1					X		
Equipment condition	1					X		
Emergency equipment	1					X		
Proper grid layout	1							X
Proper search techniques	1					X		
Team leader daily log	1					X		
SUXOS daily log	1							X
GIS and map data	1					X		
Exclusion zone	1					X		
Field office interior	1							X
Field office exterior	1							X
Proper demolition operations	1							X
Safety violations						None		

4. Soil samples taken:

Post-Detonation: ☐ No ☐ Yes ☒ None required

5. Verbal instructions received by the Government representative or client and actions taken:

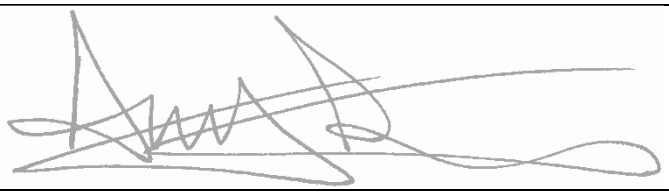
None

6. Non-conformances/deficiencies reported:

None

CERTIFICATION: *I certify the above information is complete and correct and that I, or my representative, have inspected all work identified on this report performed by HGL and our subcontractor(s) and have determined to the best of my knowledge and belief that noted work activities are in compliance with the plans and specifications, except as may be noted above.*

Daily Quality Control Report

Anthony Indelicato	
UXO Quality Control Specialist	Signature

Daily Quality Control Report

Contract No:	Delivery/Task Order:
W9128F-16-D-0014	**0002**

Site/Installation Name:	City:	State:	Date:
CHAAP	Grand Island	NE	03 June 2020

Site Management

Employer:	Position:	Name:	Activity:
HGL	Project Manager	Joe Skibinski	Management
HGL	Senior UXO Supervisor	Sonny Richardson	Management
HGL	Senior Geophysicist	Josh DeFrates	Geo Supervisor
HGL	UXO Quality Control Specialist	Tony Indelicato	Quality Control
HGL	UXO Safety Officer	Tony Indelicato	Safety

Team ONE

HGL	TIII	Donnie Koetje	UXO
HGL	TII	Josh Bair	UXO
ATI	TII	Anthony Cota	UXO
ATI	TII	Randal Cota	UXO

Team TWO

Team THREE

Team FOUR

Daily Quality Control Report

1. Work performed today:

Additional seeding. Data collection at ABA additional transects preceded by surface sweep. QC check Surface Sweep. Before and after IVS Checks. Analog instruments checked at IVS prior to use. Data processed and Targets selected for ABA. Initial Reaq and intrusive investigation. QC checked 22 out of 22 targets in Lot 2.

2. Worked performed today by subcontractors:

NONE

3. Inspections performed (include name of team present, specifications, plans and submittals required for definable feature of work [DFOW]). Indicate 3-Phase inspection level with by inserting: Preparatory = P; Initial = I; Follow-up = F.

Phase	Team name:	DFOW (Insert project specific DFOWs)	Comments
Final	**HGL/ ATI**	**Mobilization**	**Complete**
Initial	**HGL/ ATI**	**Site Preparation**	**Ongoing**
Initial	**HGL/ ATI**	**IVS Construction and Blind Seeding**	**Ongoing**
Initial	**HGL/ ATI**	**Assemble and Verify EM61-Mk2**	**Complete**
Initial	**HGL/ ATI**	**Conduct Detection Survey**	**Ongoing**
Initial	**HGL/ ATI**	**Data Processing and Target Selection**	**Ongoing**
Initial	**HGL/ ATI**	**Anomaly Reacquisition**	**Ongoing**
Initial	**HGL/ ATI**	**Intrusive Investigation**	**Ongoing**
Preparatory	**HGL/ ATI**	**MPPEH/MEC Handling, Certification and Disposal**	**Ongoing**
Preparatory	**HGL/ ATI**	**MC Sampling**	**Ongoing**
Preparatory	**HGL/ ATI**	**Demobilization**	**Ongoing**

Daily Quality Control Report

Grid #	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**	**Grid #**

GRID INSPECTIONS PERFORMED:						
QC inspections completed to date:			**QA inspections completed to date:**			
Pass	**Fail**	**Total**	**Pass**	**Fail**	**Total**	
86	0	0	0	0	0	

General Site Inspection	**Team (indicate by: UXO = U; or Geo = G; and No:**					**Pass**	**Fail**	**NA**
Proper work attire (PPE)	1					X		
Equipment calibration check	1					X		
Vehicle condition	1					X		
Equipment condition	1					X		
Emergency equipment	1					X		
Proper grid layout	1							X
Proper search techniques	1					X		
Team leader daily log	1					X		
SUXOS daily log	1							X
GIS and map data	1					X		
Exclusion zone	1					X		
Field office interior	1							X
Field office exterior	1							X
Proper demolition operations	1							X
Safety violations						None		

4. Soil samples taken:

Post-Detonation: ☐ No ☐ Yes ☒ None required

5. Verbal instructions received by the Government representative or client and actions taken:

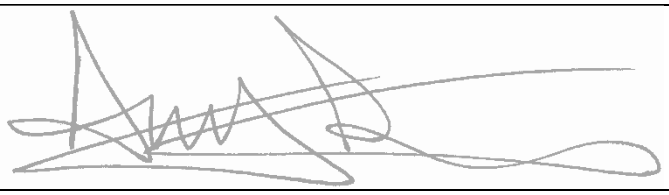
None

6. Non-conformances/deficiencies reported:

None

CERTIFICATION: *I certify the above information is complete and correct and that I, or my representative, have inspected all work identified on this report performed by HGL and our subcontractor(s) and have determined to the best of my knowledge and belief that noted work activities are in compliance with the plans and specifications, except as may be noted above.*

Daily Quality Control Report

Anthony Indelicato	
UXO Quality Control Specialist	Signature

Weekly Geophysical QC and Status Report

Remedial Investigation/Feasibility Study (RI/FS) - Cornhusker Army Ammunition Plant -Grand Island, Nebraska

Contract No. W9128F-16-D-0014, Task Order No. 0002

Week_01

5/26/2020 through 5/29/2020

Project Geophysicist:	QC Geophysicist:	Corporate Quality Manager
Tim Deignan, RGp	Charles Nycum, RGp	Jeff Dick, PE

Dataset Summary

Date	Sensor ID	Activities	SFT QC Status		IVS QC Status		GPS QC Status	Data Sep. QC Status	Seed QC Status	Comments	Draft Data Submission Date	Daily / Cumulative Acreage
			AM	PM	AM	PM						
5/26/2020	1423W01	established GPS control points and verified network established by PLS, searched for IVS area, preliminary background survey	Pass	Pass	N/A	N/A	Pass	N/A	N/A		6/1/2020	0 / 0
5/27/2020	1910W01	established IVS and performed data collection along transects in the SFDA	Pass	Pass	Pass	Pass	Pass	Pass	Pass		6/1/2020	0.24 / 0
5/28/2020	1910W01	Full coverage survey in the ABA	Pass	Pass	Pass	Pass	Pass	Pass	Pass		6/1/2020	1.84 / 2.08
5/29/2020	1910W01	DGM along SFDA expansion transects, reacquire and resolved targets in the ABA	Pass	Pass	Pass	Pass	Pass	Pass	Pending		6/1/2020	0.22 / 2.3

Project Document Status

Memo

Memo ID	Title	Submission Date	Description	Current Status
Memo_01	IVS Technical Memorandum	6/1/2020	Demonstrates sensor(s) achieve initial MQOs, establishes target selection criteria	Submitted

Root Cause Analysis (RCA)

Field Work Variance (FWV)

FWV ID	Title	Submission Date	Description	Current Status
FWV_001	Target Selection Methodology for Intrusive Investigation	5/29/2020	Proposes target selection methodology for investigation due to the higher than expected anomaly density at both sites	responding to comments

Equipment Maintenance Log

Deficiency Tracking Log

Weekly Geophysical QC and Status Report

Remedial Investigation/Feasibility Study (RI/FS) - Cornhusker Army Ammunition Plant -Grand Island, Nebraska

Contract No. W9128F-16-D-0014, Task Order No. 0002

Week_02

6/1/2020 through 6/3/2020

Project Geophysicist:	QC Geophysicist:	Corporate Quality Manager
Tim Deignan, RGp	Charles Nycum, RGp	Jeff Dick, PE

Dataset Summary

Date	Sensor ID	Activities	SFT QC Status		IVS QC Status		GPS QC Status	Data Sep. QC Status	Seed QC Status	Comments	Draft Data Submission Date	Daily / Cumulative Acreage
			AM	PM	AM	PM						
6/1/2020	1910W01	Anomaly Reacquire and Resolution	Pass	Pass	N/A	N/A	Pass	N/A	N/A		6/5/2020	0 / 0
6/2/2020	1910W01	DGM along SFDA delineation transects, reacquire and resolved targets in the SFDA	Pass	Pass	Pass	Pass	Pass	Pass	Pass		6/5/2020	0.1 / 2.4
6/3/2020	1910W01	DGM along ABA delineation transects, reacquire and resolved targets in the SFDA	Pass	Pass	Pass	Pass	Pass	Pass	Pass	cable shake test was due to operator shaking cables too hard, inconsistent with field conditions, noise levels at IVS after test were normal	6/5/2020	0.14 / 2.54

Project Document Status

Memo

Memo ID	Title	Submission Date	Description	Current Status
Memo_01	IVS Technical Memorandum	6/1/2020	Demonstrates sensor(s) achieve initial MQOs, establishes target selection criteria	Submitted

Root Cause Analysis (RCA)

Field Work Variance (FWV)

FWV ID	Title	Submission Date	Description	Current Status
FWV_001	Target Selection Methodology for Intrusive Investigation	5/29/2020	Proposes target selection methodology for investigation due to the higher than expected anomaly density at both sites	responding to comments

Equipment Maintenance Log

Deficiency Tracking Log

US ARMY CORPS OF ENGINEERS (USACE)
MUNITIONS RESPONSE
QUALITY ASSURANCE REPORT (QAR) FORM
The proponent agency is CESO. *See instructions on page 2.*

1. REPORT NO. *(1,2,3, etc., for the Task Order (T.O.))*: 1

2. USACE REPRESENTATIVE'S NAME: John Kochefko

3. DATE ACTIVITY COMPLETED: 2020-06-01

4. PROJECT NAME: RI/FS Burning Grounds and Fuze Destruct

5. PROJECT LOCATION: Corn Husker Army Ammunition Plant

6. WEATHER CONDITIONS:

7. CONTRACTOR: ATI/HGL Team

8. CONTRACT NUMBER: W9128F-16-D-0014

9. T.O. NUMBER: 0002

10. DISTRIBUTED TO (*check boxes and insert individual's name*)

- [x] a. District Program/Project Manager
- [x] b. Design Center
- [ ] c. Remedial Action District TM
- [x] d. Contractor

11. RESPONSE DUE DATE (*Based on type of nonconformance, IF REQUIRED)*

12. TYPE OF ACTIVITY CONDUCTED (*Include types of inspections/audits conducted, operations observed, etc.)*
Conducted a Quality Assurance (QA) inspection of Intrusive Investigation and Anomaly Resolution of randomly selected anomalies for the Abandoned Burning Ground IAW Corn Husker AAP UFP-QAPP WS 12A, WS 17 and 22A.2 to achieve a 90% confidence, <5% unresolved anomalies. Lot size is 78

13. RESULTS AND OBSERVATIONS
100% of the anomalies within the lot were investigated and verified as resolved with EM61 by the UXO Team, the UXOQCS then conducted a random inspection of 42 anomalies to QC verify they were resolved, and 42 anomalies within the lot were QA verified to have been investigated and the remaining response on a properly nulled EM61 and is less than the target selection threshold of 2.7 mV on channel 2. Recommend Lot #1for acceptance.

14. DEFICIENCY TYPE (*select one*) [x] a. Not Applicable [ ] b. Critical [ ] c. Major [ ] d. Minor

[ ] e. Other, *Specify*

15. DATE: 2020-06-01

16. USACE REPRESENTATIVE'S SIGNATURE: KOCHEFKO.JOHN.A.1006881897 Digitally signed by KOCHEFKO.JOHN.A.1006881897 Date: 2020.06.01 18:52:34 -05'00'

17. CONTRACTOR REPRESENTATIVE'S NAME: Anthony Indelicato, UXOQCS

18. DATE: 2020-06-02

19. CONTRACTOR REPRESENTATIVE'S SIGNATURE (*indicating receipt of the QAR*)
ANTHONY INDELICATO Digitally signed by ANTHONY INDELICATO Date: 2020.06.02 13:50:28 -05'00'

20. **The Contractor will provide the following information to the Contract Specialist by the "Response Due" date above. Please contact the Contracting Officer's Representative (COR) or Project Manager if you have any questions.**

a. Contractor Response as to Cause and Actions Taken to Correct Current Condition and to Prevent Recurrence (*cite applicable quality control procedures or changes in plans, procedures, or practices*).

b. Contractor Representative's Authentication (*form must be signed before returning*)

(1) Printed Name	(2) Title	(3) Date Signed	(4) Signature

c. Government Evaluation (*acceptance, partial acceptance, etc.*)

d. Government Actions (*reduced payment, cure notice, show cause, other*)

e. Close Out	Name	Title	Date (*YYYY-MM-DD*)	Signature
(1) Contractor Notified				
(2) USACE PDT Representative				
(3) Contracting Officer or COR				

INSTRUCTIONS FOR ENG FORM 6048

Block 1. Report number.

Block 2. Name of USACE representative conducting the quality assurance (QA) activity.

Block 3. Date QA Activity completed.

Block 4. Project Name, i.e., “Camp Swampy (MRS-02).

Block 5. Project Location, i.e., “Smithville, Alaska”.

Block 6. Weather conditions, if applicable.

Block 7. Contractor and/or subcontractor executing the work.

Block 8. Contract number.

Block 9. Task Order number.

Block 10. List by name all official recipients of the QAR. At a minimum, the District Program/Project Manager must be selected.

Block 11. Enter the date that the contractor is to respond, if applicable.

Block 12. List all QA-related activities, inspections, audits conducted, operations observed, etc. Include specific references to applicable government quality requirements, i.e., Quality Assurance Surveillance Plans, Department of Defense, Army, and/or USACE requirements, policy, guidance, etc., requiring the inspection/audit being conducted. For example: “Spot-checked inventory of demolition explosives as required by the project QASP and approved Explosives Safety Submission (ESS).”

Block 13. Describe results and observations of each QA activity conducted. Attach discipline-specific checklists/documentation used. All deficiencies noted must include reference to the specific regulation or requirement that was violated. For example: “Demolition explosives stored on site were not inventoried weekly in accordance with ESS paragraph 4.2 and Work Plan paragraph 5.4. Last inventory was conducted 3 weeks ago on xx Feb 2013.”

Block 14. Select the type of deficiency, if any, observed. Use contract-specific definitions if available, or use the following general definitions:

a. Check the appropriate box.

b. Critical: A deficiency that is likely to result in hazardous or unsafe conditions for individuals using, maintaining, or depending upon the supplies or services; or is likely to prevent performance of a vital agency mission.

c. Major: A deficiency, other than critical, that is likely to result in failure of the supplies or services, or to materially reduce the usability of the supplies or services for their intended purpose.

d. Minor: A deficiency that is not likely to materially reduce the usability of the supplies or services for their intended purpose or is a departure from established standards having little bearing on the effective use or operation of the supplies or services.

Block 15. Date the USACE Representative signs.

Block 16. QA representative’s signature.

Block 17. Contractor Representative’s printed name.

Block 18. Date Contractor Representative signs.

Block 19. Contractor representative signature. Signature does not indicate concurrence with stated findings, only that contractor has received the report.

Block 20a. Contractor indicates action(s) taken to determine cause of the deficiency, action taken to correct immediate deficiency, and action taken to prevent a recurrence of the deficiency. Include dates of actions taken and a schedule for completion of planned actions.

Block 20b. Contractor representative’s printed name, title, date signed, and signature.

Block 20c. Indicate government acceptance of contractor’s actions to correct identified deficiencies.

Block 20d. Indicate negative government actions taken as a result of the deficiency.

Block 20e. Signature of contractor, PDT representative and contracting officer or COR indicating close out for all deficiencies indicated.

US ARMY CORPS OF ENGINEERS (USACE)
MUNITIONS RESPONSE
QUALITY ASSURANCE REPORT (QAR) FORM
The proponent agency is CESO. *See instructions on page 2.*

1. REPORT NO. *(1,2,3, etc., for the Task Order (T.O.))*: 2

2. USACE REPRESENTATIVE'S NAME: John Kochefko

3. DATE ACTIVITY COMPLETED: 2020-06-03

4. PROJECT NAME: RI/FS Burning Grounds and Fuze Destruct

5. PROJECT LOCATION: Corn Husker Army Ammunition Plant

6. WEATHER CONDITIONS: Sunny

7. CONTRACTOR: ATI/HGL Team

8. CONTRACT NUMBER: W9128F-16-D-0014

9. T.O. NUMBER: 0002

10. DISTRIBUTED TO (*check boxes and insert individual's name*)

- ☒ a. District Program/Project Manager
- ☒ b. Design Center
- ☐ c. Remedial Action District TM
- ☒ d. Contractor

11. RESPONSE DUE DATE (*Based on type of nonconformance, IF REQUIRED)*

12. TYPE OF ACTIVITY CONDUCTED (*Include types of inspections/audits conducted, operations observed, etc.)*
Conducted a Quality Assurance (QA) inspection of Intrusive Investigation and Anomaly Resolution of randomly selected anomalies for the South Fuze Destruct Area and Abandon Burning Ground IAW Corn Husker AAP UFP-QAPP WS 12A, WS 17 and 22A.2 to achieve a 90% confidence, <5% unresolved anomalies. Lot size is 65.

13. RESULTS AND OBSERVATIONS
100% of the anomalies within the lot consisting of 57 anomalies from the SFDA and 8 anomalies from the ABA Transects were investigated and verified as resolved with EM61 by the UXO Team, the UXOQCS then conducted a random inspection of 44 anomalies to QC verify they were resolved, and 44 anomalies from each lot were QA verified to have been investigated and the remaining response on a properly nulled EM61 and is less than the target selection threshold of 2.7 mV on channel 2. Recommend Lot #2 for acceptance.

14. DEFICIENCY TYPE (*select one*) ☒ a. Not Applicable ☐ b. Critical ☐ c. Major ☐ d. Minor

☐ e. Other, *Specify*

15. DATE: 2020-06-03

16. USACE REPRESENTATIVE'S SIGNATURE: KOCHEFKO.JOHN.A.1006881897 Digitally signed by KOCHEFKO.JOHN.A.1006881897 Date: 2020.06.03 18:58:24 -05'00'

17. CONTRACTOR REPRESENTATIVE'S NAME: Anthony Indelicato, UXOQCS

18. DATE: 2020-06-04

19. CONTRACTOR REPRESENTATIVE'S SIGNATURE (*indicating receipt of the QAR*)
Anthony Indelicato Digitally signed by Anthony Indelicato Date: 2020.06.04 13:12:07 -05'00'

20. **The Contractor will provide the following information to the Contract Specialist by the "Response Due" date above. Please contact the Contracting Officer's Representative (COR) or Project Manager if you have any questions.**

a. Contractor Response as to Cause and Actions Taken to Correct Current Condition and to Prevent Recurrence (*cite applicable quality control procedures or changes in plans, procedures, or practices*).

b. Contractor Representative's Authentication (*form must be signed before returning*)

(1) Printed Name	(2) Title	(3) Date Signed	(4) Signature

c. Government Evaluation (*acceptance, partial acceptance, etc.*)

d. Government Actions (*reduced payment, cure notice, show cause, other*)

e. Close Out	Name	Title	Date (*YYYY-MM-DD*)	Signature
(1) Contractor Notified				
(2) USACE PDT Representative				
(3) Contracting Officer or COR				

INSTRUCTIONS FOR ENG FORM 6048

Block 1. Report number.

Block 2. Name of USACE representative conducting the quality assurance (QA) activity.

Block 3. Date QA Activity completed.

Block 4. Project Name, i.e., “Camp Swampy (MRS-02).

Block 5. Project Location, i.e., “Smithville, Alaska”.

Block 6. Weather conditions, if applicable.

Block 7. Contractor and/or subcontractor executing the work.

Block 8. Contract number.

Block 9. Task Order number.

Block 10. List by name all official recipients of the QAR. At a minimum, the District Program/Project Manager must be selected.

Block 11. Enter the date that the contractor is to respond, if applicable.

Block 12. List all QA-related activities, inspections, audits conducted, operations observed, etc. Include specific references to applicable government quality requirements, i.e., Quality Assurance Surveillance Plans, Department of Defense, Army, and/or USACE requirements, policy, guidance, etc., requiring the inspection/audit being conducted. For example: “Spot-checked inventory of demolition explosives as required by the project QASP and approved Explosives Safety Submission (ESS).”

Block 13. Describe results and observations of each QA activity conducted. Attach discipline-specific checklists/documentation used. All deficiencies noted must include reference to the specific regulation or requirement that was violated. For example: “Demolition explosives stored on site were not inventoried weekly in accordance with ESS paragraph 4.2 and Work Plan paragraph 5.4. Last inventory was conducted 3 weeks ago on xx Feb 2013.”

Block 14. Select the type of deficiency, if any, observed. Use contract-specific definitions if available, or use the following general definitions:

a. Check the appropriate box.

b. Critical: A deficiency that is likely to result in hazardous or unsafe conditions for individuals using, maintaining, or depending upon the supplies or services; or is likely to prevent performance of a vital agency mission.

c. Major: A deficiency, other than critical, that is likely to result in failure of the supplies or services, or to materially reduce the usability of the supplies or services for their intended purpose.

d. Minor: A deficiency that is not likely to materially reduce the usability of the supplies or services for their intended purpose or is a departure from established standards having little bearing on the effective use or operation of the supplies or services.

Block 15. Date the USACE Representative signs.

Block 16. QA representative’s signature.

Block 17. Contractor Representative’s printed name.

Block 18. Date Contractor Representative signs.

Block 19. Contractor representative signature. Signature does not indicate concurrence with stated findings, only that contractor has received the report.

Block 20a. Contractor indicates action(s) taken to determine cause of the deficiency, action taken to correct immediate deficiency, and action taken to prevent a recurrence of the deficiency. Include dates of actions taken and a schedule for completion of planned actions.

Block 20b. Contractor representative’s printed name, title, date signed, and signature.

Block 20c. Indicate government acceptance of contractor’s actions to correct identified deficiencies.

Block 20d. Indicate negative government actions taken as a result of the deficiency.

Block 20e. Signature of contractor, PDT representative and contracting officer or COR indicating close out for all deficiencies indicated.

FORM 9
Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 26 May 2020

Title and No. of Technical Section: DFW 1, Mobilization

A. Planned Attendees:

	Name	*Position*	Company
1)	Joe Skibinski	PM	HGL
2)	Scott Wunschel	UXO Safety and QC Manager	HGL
3)	Nancy McMillian	Project Administrator	HGL
4)	Josh DeFrates	Senior Geophysicist	HGL
5)	Charles Nycum	QC Geophysicist	HGL
6)	Eugene Richardson	SUXOS	HGL
7)	Anthony Indelicato	UXOSO/UXOQCS	HGL
8)	Kevin Wierengo	Site QC Officer	HGL
9)	Tim Deignam	Deputy BLM	HGL
10)	David Nelson	Program Manager	ATI
11)	John Kochefko	OESS	USACE

B. Submittals required to begin work:

	Item	Submittal No.	*Action Code*
1)	UFP-QAPP, Contract:W9128F-16-D-0014		
2)			
3)			
4)			
5)			
6)			
7)			
8)			

I hereby certify, that to the best of my knowledge and belief, that the above required materials delivered to the job site are the same as those submitted and approved.

_____

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 26 May 2020

C. Equipment to be used in executing work:

1) EM61-Mk2 and RTK
2) Skid Steer with Brushcutter Attachment
3) Hand Tools
4) 1 Rental Team Truck
5) Non Ferrous Pin Flags

D. Work areas examined to ascertain that all preliminary work has been completed:

N/A

E. Methods and procedures for performing Quality Control, including specific testing requirements:

SOP 506.01 Analog and Digital MEC Operations

The above methods and procedures have been identified from the project plans and will be performed as specified for the Definable Feature of Work.

_____

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist
(Part II)

A. Persons in attendance: See Meeting Attendance Sheet (attached)

B. Because of mutual understanding developed during review of preparatory outline and Contract Requirements: (Contract items not specifically covered during the preparatory inspection conference are assumed to be in strict conformance with the contract requirements.)

Joe Skibinski
Scott Wunschel
Nancy NcMillian
Josh DeFrates
Charles Nycum
Eugene Richardson
Anthony Indelicato
Kevin Wierengo
Tim Deignam
David Nelson
John Kochefko
Josh Bair
Donald Koetje

The items noted above constitute a memorandum of mutual understanding and will be performed as planned and specified.

Type text here

MEC QCS ***Technical Representative***

FORM 9
Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 27 May 2020

Title and No. of Technical Section: Site Preparation DFW 2

A. Planned Attendees:

	Name	***Position***	Company
1)	Joe Skibinski	PM	HGL
2)	Scott Wunschel	UXO Safety and QC Manager	HGL
3)	Nancy McMillian	Project Administrator	HGL
4)	Josh DeFrates	Senior Geophysicist	HGL
5)	Charles Nycum	QC Geophysicist	HGL
6)	Eugene Richardson	SUXOS	HGL
7)	Anthony Indelicato	UXOSO/UXOQCS	HGL
8)	Kevin Wierengo	Site QC Officer	HGL
9)	Tim Deignam	Deputy BLM	HGL
10)	David Nelson	Program Manager	ATI
11)	John Kochefko	OESS	USACE

B. Submittals required to begin work:

	Item	Submittal No.	***Action Code***
1)	SOP 506.01		
2)	SOP 509.01		
3)	SOP 502.01		
4)	SOP 504.01		
5)	ESP		
6)			
7)			
8)			

I hereby certify, that to the best of my knowledge and belief, that the above required materials delivered to the job site are the same as those submitted and approved.

_____

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: _____

C. Equipment to be used in executing work:

1) Skid Steer with Brushcutter Attachment
2) Hand Tools
3) Analog Instruments
4)
5)

D. Work areas examined to ascertain that all preliminary work has been completed:

Abandoned Burning Area
South Fuze Destruction Area

E. Methods and procedures for performing Quality Control, including specific testing requirements:

QC Check Surface Clearance

SOP 506.01 Analog and Digital MEC Operations

The above methods and procedures have been identified from the project plans and will be performed as specified for the Definable Feature of Work.

_____

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist
(Part II)

A. Persons in attendance: See Meeting Attendance Sheet (attached)

B. Because of mutual understanding developed during review of preparatory outline and Contract Requirements: (Contract items not specifically covered during the preparatory inspection conference are assumed to be in strict conformance with the contract requirements.)

Joe Skibinski
Scott Wunschel
Nancy McMillian
Josh DeFrates
Charles Nycum
Eugene Richardson
Anthony Indelicato
Kevin Wierengo
Tim Deignam
David Nelson
John Kochefko
Josh Bair
Donald Koetje

The items noted above constitute a memorandum of mutual understanding and will be performed as planned and specified.

MEC QCS ***Technical Representative***

FORM 9
Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 27 May 2020

Title and No. of Technical Section: Blind Seeding and IVS Construction, DFW 3

A. Planned Attendees:

	Name	***Position***	Company
1)	Joe Skibinski	PM	HGL
2)	Scott Wunschel	UXO Safety and QC Manager	HGL
3)	Nancy McMillian	Project Administrator	HGL
4)	Josh DeFrates	Senior Geophysicist	HGL
5)	Charles Nycum	QC Geophysicist	HGL
6)	Eugene Richardson	SUXOS	HGL
7)	Anthony Indelicato	UXOSO/UXOQCS	HGL
8)	Kevin Wierengo	Site QC Officer	HGL
9)	Tim Deignam	Deputy BLM	HGL
10)	David Nelson	Program Manager	ATI
11)	John Kochefko	OESS	USACE

B. Submittals required to begin work:

	Item	Submittal No.	***Action Code***
1)	SOP 551.01.4		
2)	SOP 500.03		
3)			
4)			
5)			
6)			
7)			
8)			

I hereby certify, that to the best of my knowledge and belief, that the above required materials delivered to the job site are the same as those submitted and approved.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: _____

C. Equipment to be used in executing work:

1) RTK
2) Hand Tools
3) Analog Instruments
4) Yard Stick
5) Level, Compass

D. Work areas examined to ascertain that all preliminary work has been completed:

Abandoned Burning Area
South Fuze Destruction Area

E. Methods and procedures for performing Quality Control, including specific testing requirements:

QC Seed Results, IVS TM. Production Area QC Seed Information

SOP 506.01 Analog and Digital MEC Operations

The above methods and procedures have been identified from the project plans and will be performed as specified for the Definable Feature of Work.

_____

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist (Part II)

A. Persons in attendance: See Meeting Attendance Sheet (attached)

B. Because of mutual understanding developed during review of preparatory outline and Contract Requirements: (Contract items not specifically covered during the preparatory inspection conference are assumed to be in strict conformance with the contract requirements.)

Joe Skibinski
Scott Wunschel
Nancy McMillian
Josh DeFrates
Charles Nycum
Eugene Richardson
Anthony Indelicato
Kevin Wierengo
Tim Deignam
David Nelson
John Kochefko
Josh Bair
Donald Koetje

The items noted above constitute a memorandum of mutual understanding and will be performed as planned and specified.

MEC QCS ***Technical Representative***

FORM 9
Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 27 May 2020

Title and No. of Technical Section: Assemble EM61-Mk2 DFW 4

A. Planned Attendees:

	Name	***Position***	Company
1)	Joe Skibinski	PM	HGL
2)	Scott Wunschel	UXO Safety and QC Manager	HGL
3)	Nancy McMillian	Project Administrator	HGL
4)	Josh DeFrates	Senior Geophysicist	HGL
5)	Charles Nycum	QC Geophysicist	HGL
6)	Eugene Richardson	SUXOS	HGL
7)	Anthony Indelicato	UXOSO/UXOQCS	HGL
8)	Kevin Wierengo	Site QC Officer	HGL
9)	Tim Deignam	Deputy BLM	HGL
10)	David Nelson	Program Manager	ATI
11)	John Kochefko	OESS	USACE

B. Submittals required to begin work:

	Item	Submittal No.	***Action Code***
1)	SOP 551.01.4		
2)	Work Sheet 22		
3)			
4)			
5)			
6)			
7)			
8)			

I hereby certify, that to the best of my knowledge and belief, that the above required materials delivered to the job site are the same as those submitted and approved.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 27 May 2020

C. Equipment to be used in executing work:

1) EM61-Mk2
2)
3)
4)
5)

D. Work areas examined to ascertain that all preliminary work has been completed:

IVS

E. Methods and procedures for performing Quality Control, including specific testing requirements:

IVS Technical Memorandum

The above methods and procedures have been identified from the project plans and will be performed as specified for the Definable Feature of Work.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist (Part II)

A. Persons in attendance: See Meeting Attendance Sheet (attached)

B. Because of mutual understanding developed during review of preparatory outline and Contract Requirements: (Contract items not specifically covered during the preparatory inspection conference are assumed to be in strict conformance with the contract requirements.)

Joe Skibinski
Scott Wunschel
Nancy McMillian
Josh DeFrates
Charles Nycum
Eugene Richardson
Anthony Indelicato
Kevin Wierengo
Tim Deignam
David Nelson
John Kochefko
Josh Bair
Donald Koetje

The items noted above constitute a memorandum of mutual understanding and will be performed as planned and specified.

MEC QCS ***Technical Representative***

FORM 9
Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 28 May 2020

Title and No. of Technical Section: Conduct DGM Surveys DFW 5

A. Planned Attendees:

	Name	***Position***	Company
1)	Joe Skibinski	PM	HGL
2)	Scott Wunschel	UXO Safety and QC Manager	HGL
3)	Nancy McMillian	Project Administrator	HGL
4)	Josh DeFrates	Senior Geophysicist	HGL
5)	Charles Nycum	QC Geophysicist	HGL
6)	Eugene Richardson	SUXOS	HGL
7)	Anthony Indelicato	UXOSO/UXOQCS	HGL
8)	Kevin Wierengo	Site QC Officer	HGL
9)	Tim Deignam	Deputy BLM	HGL
10)	David Nelson	Program Manager	ATI
11)	John Kochefko	OESS	USACE

B. Submittals required to begin work:

	Item	Submittal No.	***Action Code***
1)	SOP 551.01.4		
2)	Work Sheet 22		
3)			
4)			
5)			
6)			
7)			
8)			

I hereby certify, that to the best of my knowledge and belief, that the above required materials delivered to the job site are the same as those submitted and approved.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 28 May 2020

C. Equipment to be used in executing work:

1) EM61-Mk2
2)
3)
4)
5)

D. Work areas examined to ascertain that all preliminary work has been completed:

Abandoned Burning Area and South Fuze Destruction Area

E. Methods and procedures for performing Quality Control, including specific testing requirements:

Raw Data, Daily QC Reports, Project QC Database

The above methods and procedures have been identified from the project plans and will be performed as specified for the Definable Feature of Work.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist (Part II)

A. Persons in attendance: See Meeting Attendance Sheet (attached)

B. Because of mutual understanding developed during review of preparatory outline and Contract Requirements: (Contract items not specifically covered during the preparatory inspection conference are assumed to be in strict conformance with the contract requirements.)

Joe Skibinski
Scott Wunschel
Nancy McMillian
Josh DeFrates
Charles Nycum
Eugene Richardson
Anthony Indelicato
Kevin Wierengo
Tim Deignam
David Nelson
John Kochefko
Josh Bair
Donald Koetje

The items noted above constitute a memorandum of mutual understanding and will be performed as planned and specified.

MEC QCS ***Technical Representative***

FORM 9
Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 28 May 2020

Title and No. of Technical Section: Conduct Detection Survey Processing and Target Selection, DFW 6

A. Planned Attendees:

	Name	***Position***	Company
1)	Joe Skibinski	PM	HGL
2)	Scott Wunschel	UXO Safety and QC Manager	HGL
3)	Nancy McMillian	Project Administrator	HGL
4)	Josh DeFrates	Senior Geophysicist	HGL
5)	Charles Nycum	QC Geophysicist	HGL
6)	Eugene Richardson	SUXOS	HGL
7)	Anthony Indelicato	UXOSO/UXOQCS	HGL
8)	Kevin Wierengo	Site QC Officer	HGL
9)	Tim Deignam	Deputy BLM	HGL
10)	David Nelson	Program Manager	ATI
11)	John Kochefko	OESS	USACE

B. Submittals required to begin work:

	Item	Submittal No.	***Action Code***
1)	SOP 551.01.4		
2)			
3)			
4)			
5)			
6)			
7)			
8)			

I hereby certify, that to the best of my knowledge and belief, that the above required materials delivered to the job site are the same as those submitted and approved.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 28 May 2020

C. Equipment to be used in executing work:

1) EM61-Mk2
2)
3)
4)
5)

D. Work areas examined to ascertain that all preliminary work has been completed:

Abandoned Burning Area and South Fuze Destruction Area

E. Methods and procedures for performing Quality Control, including specific testing requirements:

Processed data files and maps, target lists, processing notes Weekly DGM Deliverable

The above methods and procedures have been identified from the project plans and will be performed as specified for the Definable Feature of Work.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist (Part II)

A. Persons in attendance: See Meeting Attendance Sheet (attached)

B. Because of mutual understanding developed during review of preparatory outline and Contract Requirements: (Contract items not specifically covered during the preparatory inspection conference are assumed to be in strict conformance with the contract requirements.)

Joe Skibinski
Scott Wunschel
Nancy McMillian
Josh DeFrates
Charles Nycum
Eugene Richardson
Anthony Indelicato
Kevin Wierengo
Tim Deignam
David Nelson
John Kochefko
Josh Bair
Donald Koetje

The items noted above constitute a memorandum of mutual understanding and will be performed as planned and specified.

MEC QCS ***Technical Representative***

FORM 9
Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 29 May 2020

Title and No. of Technical Section: Anomaly Reacquisition, DFW 7

A. Planned Attendees:

	Name	***Position***	Company
1)	Joe Skibinski	PM	HGL
2)	Scott Wunschel	UXO Safety and QC Manager	HGL
3)	Nancy McMillian	Project Administrator	HGL
4)	Josh DeFrates	Senior Geophysicist	HGL
5)	Charles Nycum	QC Geophysicist	HGL
6)	Eugene Richardson	SUXOS	HGL
7)	Anthony Indelicato	UXOSO/UXOQCS	HGL
8)	Kevin Wierengo	Site QC Officer	HGL
9)	Tim Deignam	Deputy BLM	HGL
10)	David Nelson	Program Manager	ATI
11)	John Kochefko	OESS	USACE

B. Submittals required to begin work:

	Item	Submittal No.	***Action Code***
1)	SOP 551.01.4		
2)			
3)			
4)			
5)			
6)			
7)			
8)			

I hereby certify, that to the best of my knowledge and belief, that the above required materials delivered to the job site are the same as those submitted and approved.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 29 May 2020

C. Equipment to be used in executing work:

1) RTK
2) Non Ferrous Pin Flags
3)
4)
5)

D. Work areas examined to ascertain that all preliminary work has been completed:

Abandoned Burning Area and South Fuze Destruction Area

E. Methods and procedures for performing Quality Control, including specific testing requirements:

Reacquisition notes, Weekly DGM Deliverable

The above methods and procedures have been identified from the project plans and will be performed as specified for the Definable Feature of Work.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist (Part II)

A. Persons in attendance: See Meeting Attendance Sheet (attached)

B. Because of mutual understanding developed during review of preparatory outline and Contract Requirements: (Contract items not specifically covered during the preparatory inspection conference are assumed to be in strict conformance with the contract requirements.)

Joe Skibinski
Scott Wunschel
Nancy McMillian
Josh DeFrates
Charles Nycum
Eugene Richardson
Anthony Indelicato
Kevin Wierengo
Tim Deignam
David Nelson
John Kochefko
Josh Bair
Donald Koetje

The items noted above constitute a memorandum of mutual understanding and will be performed as planned and specified.

MEC QCS ***Technical Representative***

FORM 9
Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 29 May 2020

Title and No. of Technical Section: Intrusive Investigation, DFW 8

A. Planned Attendees:

	Name	***Position***	Company
1)	Joe Skibinski	PM	HGL
2)	Scott Wunschel	UXO Safety and QC Manager	HGL
3)	Nancy McMillian	Project Administrator	HGL
4)	Josh DeFrates	Senior Geophysicist	HGL
5)	Charles Nycum	QC Geophysicist	HGL
6)	Eugene Richardson	SUXOS	HGL
7)	Anthony Indelicato	UXOSO/UXOQCS	HGL
8)	Kevin Wierengo	Site QC Officer	HGL
9)	Tim Deignam	Deputy BLM	HGL
10)	David Nelson	Program Manager	ATI
11)	John Kochefko	OESS	USACE

B. Submittals required to begin work:

	Item	Submittal No.	***Action Code***
1)	SOP 551.01.4		
2)	SOP 506.01		
3)			
4)			
5)			
6)			
7)			
8)			

I hereby certify, that to the best of my knowledge and belief, that the above required materials delivered to the job site are the same as those submitted and approved.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 29 May 2020

C. Equipment to be used in executing work:

1) RTK
2) Analog Instruments
3) Hand Tools
4) EM61-Mk2
5)

D. Work areas examined to ascertain that all preliminary work has been completed:

Abandoned Burning Area and South Fuze Destruction Area

E. Methods and procedures for performing Quality Control, including specific testing requirements:

Database, Weekly DGM Deliverable, Daily QC Report

The above methods and procedures have been identified from the project plans and will be performed as specified for the Definable Feature of Work.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist (Part II)

A. Persons in attendance: See Meeting Attendance Sheet (attached)

B. Because of mutual understanding developed during review of preparatory outline and Contract Requirements: (Contract items not specifically covered during the preparatory inspection conference are assumed to be in strict conformance with the contract requirements.)

Joe Skibinski
Scott Wunschel
Nancy McMillian
Josh DeFrates
Charles Nycum
Eugene Richardson
Anthony Indelicato
Kevin Wierengo
Tim Deignam
David Nelson
John Kochefko
Josh Bair
Donald Koetje

The items noted above constitute a memorandum of mutual understanding and will be performed as planned and specified.

MEC QCS ***Technical Representative***

FORM 9
Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 29 May 2020

Title and No. of Technical Section: MPPEH/MEC Handling, Certification and Disposal, DFW 9

A. Planned Attendees:

	Name	***Position***	Company
1)	Joe Skibinski	PM	HGL
2)	Scott Wunschel	UXO Safety and QC Manager	HGL
3)	Nancy McMillian	Project Administrator	HGL
4)	Josh DeFrates	Senior Geophysicist	HGL
5)	Charles Nycum	QC Geophysicist	HGL
6)	Eugene Richardson	SUXOS	HGL
7)	Anthony Indelicato	UXOSO/UXOQCS	HGL
8)	Kevin Wierengo	Site QC Officer	HGL
9)	Tim Deignam	Deputy BLM	HGL
10)	David Nelson	Program Manager	ATI
11)	John Kochefko	OESS	USACE

B. Submittals required to begin work:

	Item	Submittal No.	***Action Code***
1)	SOP 502.01		
2)	EM 385-1-97		
3)	Worksheet 12A		
4)			
5)			
6)			
7)			
8)			

I hereby certify, that to the best of my knowledge and belief, that the above required materials delivered to the job site are the same as those submitted and approved.

_____

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 29 May 2020

C. Equipment to be used in executing work:

1) RFD
2) Demolition Equipment
3) Demolition Materials
4) EM61-Mk2Safety Equipment
5) Storage Containers

D. Work areas examined to ascertain that all preliminary work has been completed:

Designated Demolition Site, Designated Holding Area

E. Methods and procedures for performing Quality Control, including specific testing requirements:

SOP 504.01 MPPEH Inspection and Management

The above methods and procedures have been identified from the project plans and will be performed as specified for the Definable Feature of Work.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist (Part II)

A. Persons in attendance: See Meeting Attendance Sheet (attached)

B. Because of mutual understanding developed during review of preparatory outline and Contract Requirements: (Contract items not specifically covered during the preparatory inspection conference are assumed to be in strict conformance with the contract requirements.)

Joe Skibinski
Scott Wunschel
Nancy McMillian
Josh DeFrates
Charles Nycum
Eugene Richardson
Anthony Indelicato
Kevin Wierengo
Tim Deignam
David Nelson
John Kochefko
Josh Bair
Donald Koetje

The items noted above constitute a memorandum of mutual understanding and will be performed as planned and specified.

MEC QCS ***Technical Representative***

FORM 9
Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 29 May 2020

Title and No. of Technical Section: MC Sampling, DFW 10

A. Planned Attendees:

	Name	***Position***	Company
1)	Joe Skibinski	PM	HGL
2)	Scott Wunschel	UXO Safety and QC Manager	HGL
3)	Nancy McMillian	Project Administrator	HGL
4)	Josh DeFrates	Senior Geophysicist	HGL
5)	Charles Nycum	QC Geophysicist	HGL
6)	Eugene Richardson	SUXOS	HGL
7)	Anthony Indelicato	UXOSO/UXOQCS	HGL
8)	Kevin Wierengo	Site QC Officer	HGL
9)	Tim Deignam	Deputy BLM	HGL
10)	David Nelson	Program Manager	ATI
11)	John Kochefko	OESS	USACE

B. Submittals required to begin work:

	Item	Submittal No.	***Action Code***
1)	Worksheet 15.6		
2)	Worksheet 15.9		
3)			
4)			
5)			
6)			
7)			
8)			

I hereby certify, that to the best of my knowledge and belief, that the above required materials delivered to the job site are the same as those submitted and approved.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 29 May 2020

C. Equipment to be used in executing work:

1) Sampling Materials
2)
3)
4)

D. Work areas examined to ascertain that all preliminary work has been completed:

As yet unspecified Demolition/Sampling sites

E. Methods and procedures for performing Quality Control, including specific testing requirements:

Worksheets 15.6 and 15.9

The above methods and procedures have been identified from the project plans and will be performed as specified for the Definable Feature of Work.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist
(Part II)

A. Persons in attendance: See Meeting Attendance Sheet (attached)

B. Because of mutual understanding developed during review of preparatory outline and Contract Requirements: (Contract items not specifically covered during the preparatory inspection conference are assumed to be in strict conformance with the contract requirements.)

Joe Skibinski
Scott Wunschel
Nancy McMillian
Josh DeFrates
Charles Nycum
Eugene Richardson
Anthony Indelicato
Kevin Wierengo
Tim Deignam
David Nelson
John Kochefko
Josh Bair
Donald Koetje

The items noted above constitute a memorandum of mutual understanding and will be performed as planned and specified.

MEC QCS ***Technical Representative***

FORM 9
Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 29 May 2020

Title and No. of Technical Section: Site Breakdown and Demobilization, DFW 11

A. Planned Attendees:

	Name	***Position***	Company
1)	Joe Skibinski	PM	HGL
2)	Scott Wunschel	UXO Safety and QC Manager	HGL
3)	Nancy McMillian	Project Administrator	HGL
4)	Josh DeFrates	Senior Geophysicist	HGL
5)	Charles Nycum	QC Geophysicist	HGL
6)	Eugene Richardson	SUXOS	HGL
7)	Anthony Indelicato	UXOSO/UXOQCS	HGL
8)	Kevin Wierengo	Site QC Officer	HGL
9)	Tim Deignam	Deputy BLM	HGL
10)	David Nelson	Program Manager	ATI
11)	John Kochefko	OESS	USACE

B. Submittals required to begin work:

	Item	Submittal No.	***Action Code***
1)			
2)			
3)			
4)			
5)			
6)			
7)			
8)			

I hereby certify, that to the best of my knowledge and belief, that the above required materials delivered to the job site are the same as those submitted and approved.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist
(Part I)

Contract No.:

Date: 29 May 2020

C. Equipment to be used in executing work:

1) All Site Equipment
2)
3)
4)
5)

D. Work areas examined to ascertain that all preliminary work has been completed:

E. Methods and procedures for performing Quality Control, including specific testing requirements:

1348, Items in Table 29 deposited in Sharepoint or delivered to PM

The above methods and procedures have been identified from the project plans and will be performed as specified for the Definable Feature of Work.

Contractor Quality Control Systems Manager

FORM 9 (continued)

Preparatory Inspection Checklist
(Part II)

A. Persons in attendance: See Meeting Attendance Sheet (attached)

B. Because of mutual understanding developed during review of preparatory outline and Contract Requirements: (Contract items not specifically covered during the preparatory inspection conference are assumed to be in strict conformance with the contract requirements.)

Joe Skibinski
Scott Wunschel
Nancy McMillian
Josh DeFrates
Charles Nycum
Eugene Richardson
Anthony Indelicato
Kevin Wierengo
Tim Deignam
David Nelson
John Kochefko
Josh Bair
Donald Koetje

The items noted above constitute a memorandum of mutual understanding and will be performed as planned and specified.

MEC QCS ***Technical Representative***

FORM 10

Initial Phase Checklist

Contract No.:

Date: 26 May 2020

Title and No. of Technical Section: Mobilization, DFW 1

Description and Location of Work Inspected: CHAAP, Grand Island NE

A. ***Key Personnel Present:***

Name	***Position***	***Company***
Eugene Richardson	***SUXOS***	***HGL***
Anthony Indelicato	***UXOSO/QCS***	***HGL***
Josh DeFrates	***Senior Geophysicist***	***HGL***

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X No ___

If not, explain:

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: YesX No __

If not, explain:

D. Workmanship is acceptable: Yes X No ____

State where improvement is needed:

E. Workmanship is free of safety violations: Yes X No ____

If no, corrective action taken:

MEC QCS

FORM 10

Initial Phase Checklist

Contract No.:

Date: 27 May 2020

Title and No. of Technical Section: Site Preparation, DFW 2

Description and Location of Work Inspected: CHAAP, Grand Island NE

A. ***Key Personnel Present:***

Name	***Position***	***Company***
Eugene Richardson	***SUXOS***	***HGL***
Anthony Indelicato	***UXOSO/QCS***	***HGL***
Josh DeFrates	***Senior Geophysicist***	***HGL***

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X No ___

If not, explain: _____

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: YesX No __

If not, explain: _____

D. Workmanship is acceptable: Yes X No _____

State where improvement is needed: _____

E. Workmanship is free of safety violations: Yes X No _____

If no, corrective action taken: _____

MEC QCS

FORM 10

Initial Phase Checklist

Contract No.:

Date: 28 May 2020

Title and No. of Technical Section: Blind Seeding and IVS Construction, DFW 3

Description and Location of Work Inspected: CHAAP, Grand Island NE

A. ***Key Personnel Present:***

Name	***Position***	***Company***
Eugene Richardson	***SUXOS***	***HGL***
Anthony Indelicato	***UXOSO/QCS***	***HGL***
Josh DeFrates	***Senior Geophysicist***	***HGL***

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X No ___

If not, explain: _____

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: YesX No __

If not, explain: _____

D. Workmanship is acceptable: Yes X No _____

State where improvement is needed: _____

E. Workmanship is free of safety violations: Yes X No _____

If no, corrective action taken: _____

MEC QCS

FORM 10

Initial Phase Checklist

Contract No.:

Date: 28 May 2020

Title and No. of Technical Section: Assemble EM61-Mk2 and IVS Data Collection, DFW 4

Description and Location of Work Inspected: CHAAP, Grand Island NE

A. ***Key Personnel Present:***

Name	***Position***	***Company***
Eugene Richardson	***SUXOS***	***HGL***
Anthony Indelicato	***UXOSO/QCS***	***HGL***
Josh DeFrates	***Senior Geophysicist***	***HGL***

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X No ___

If not, explain: _____

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes X No _

If not, explain: _____

D. Workmanship is acceptable: Yes X No _____

State where improvement is needed: _____

E. Workmanship is free of safety violations: Yes X No _____

If no, corrective action taken: _____

MEC QCS

FORM 10

Initial Phase Checklist

Contract No.:

Date: 28 May 2020

Title and No. of Technical Section: Conduct Detection Surveys, DFW 5

Description and Location of Work Inspected: CHAAP, Grand Island NE

A. ***Key Personnel Present:***

Name	***Position***	***Company***
Eugene Richardson	***SUXOS***	***HGL***
Anthony Indelicato	***UXOSO/QCS***	***HGL***
Josh DeFrates	***Senior Geophysicist***	***HGL***

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X No ___

If not, explain:

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes X No _

If not, explain:

D. Workmanship is acceptable: Yes X No ____

State where improvement is needed:

E. Workmanship is free of safety violations: Yes X No

If no, corrective action taken:

MEC QCS

FORM 10

Initial Phase Checklist

Contract No.:

Date: 29 May 2020

Title and No. of Technical Section: Processing and Target Selection, DFW 6

Description and Location of Work Inspected: CHAAP, Grand Island NE

A. ***Key Personnel Present:***

Name	***Position***	***Company***
Eugene Richardson	***SUXOS***	***HGL***
Anthony Indelicato	***UXOSO/QCS***	***HGL***
Josh DeFrates	***Senior Geophysicist***	***HGL***

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X No ___

If not, explain: _____

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes X No _

If not, explain: _____

D. Workmanship is acceptable: Yes X No _____

State where improvement is needed: _____

E. Workmanship is free of safety violations: Yes X No _____

If no, corrective action taken: _____

MEC QCS

FORM 10

Initial Phase Checklist

Contract No.:

Date: 29 May 2020

Title and No. of Technical Section: Anomaly Reacquisition, DFW 7

Description and Location of Work Inspected: CHAAP, Grand Island NE

A. ***Key Personnel Present:***

Name	***Position***	***Company***
Eugene Richardson	***SUXOS***	***HGL***
Anthony Indelicato	***UXOSO/QCS***	***HGL***
Josh DeFrates	***Senior Geophysicist***	***HGL***

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X No ___

If not, explain:

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes X No _

If not, explain:

D. Workmanship is acceptable: Yes X No ___

State where improvement is needed:

E. Workmanship is free of safety violations: Yes X No ___

If no, corrective action taken:

MEC QCS

FORM 10

Initial Phase Checklist

Contract No.:

Date: 29 May 2020

Title and No. of Technical Section: Intrusive Investigation, DFW 8

Description and Location of Work Inspected: CHAAP, Grand Island NE

A. ***Key Personnel Present:***

Name	***Position***	***Company***
Eugene Richardson	***SUXOS***	***HGL***
Anthony Indelicato	***UXOSO/QCS***	***HGL***
Josh DeFrates	***Senior Geophysicist***	***HGL***

B. Materials being used are in strict compliance with the contract plans and specifications: Yes X No ___

If not, explain:

C. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes X No _

If not, explain:

D. Workmanship is acceptable: Yes X No ____

State where improvement is needed:

E. Workmanship is free of safety violations: Yes X No

If no, corrective action taken:

MEC QCS

FORM 10

Initial Phase Checklist

Contract No.:

Date: 29 May 2020

Title and No. of Technical Section: MPPEH/MEC Handling Certification and Disposal, DFW 9

Description and Location of Work Inspected: CHAAP, Grand Island NE

A. ***Key Personnel Present:***

Name	***Position***	***Company***
Eugene Richardson	***SUXOS***	***HGL***
Anthony Indelicato	***UXOSO/QCS***	***HGL***
Donald Koetje	***UXO III***	***HGL***

Materials being used are in strict compliance with the contract plans and specifications: Yes X No ___

If not, explain:

B. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes X No __

If not, explain:

C. Workmanship is acceptable: Yes X No _____

State where improvement is needed:

D. Workmanship is free of safety violations: Yes X No _____

If no, corrective action taken:

MEC QCS

FORM 10

Initial Phase Checklist

Contract No.:

Date: 4 June 2020

Title and No. of Technical Section: Site Breakdown and Demobilization, DFW 11

Description and Location of Work Inspected: CHAAP, Grand Island NE

A. ***Key Personnel Present:***

Name	***Position***	***Company***
Eugene Richardson	***SUXOS***	***HGL***
Anthony Indelicato	***UXOSO/QCS***	***HGL***
Donald Koetje	***UXO III***	***HGL***

Materials being used are in strict compliance with the contract plans and specifications: Yes X No ___

If not, explain: ___

B. Procedures and/or work methods witnessed are in strict compliance with the contract specifications: Yes X No __

If not, explain: ___

C. Workmanship is acceptable: Yes X No _____

State where improvement is needed: ___

D. Workmanship is free of safety violations: Yes X No _____

If no, corrective action taken: ___

MEC QCS

FORM 12

Final Inspection Checklist (Part I)

Date 4June 2020

Contract No.: W9128F-16-D-0014

Project / Area of Inspection: Mobilization

A. Definable Features of Work: Status of Inspection:

DFW 1, Mobilization is complete.
All nessary equipment has been delivered to site or been or procured by site team.
Munitions Debris Storage area was established during the first day of intrusive operations, 29 June 20
Equipment Staging Area was established during Initial arrival at the site. It is located just outside the gate.
Portable Toilet was delivered on 26 May 20, maintained every Thursday
All radios delivered to site were functional. Radio checks conducted every work day morning.
A group text was established during initial inbrief.
Initial inbrief was conducted on 26 May 20 as we all arrived. All personnel signed acknowledgement.
Daily briefings were conducted every work day morning in accordance with APP.

I hereby certify, that to the best of my knowledge and belief, that the work inspected is complete and all materials and equipment used and work performed were completed in accordance with plans submitted and approved.

Contractor Quality Control Systems Manager

B. FINAL ACCEPTANCE IS APPROVED, SUBJECT TO THE CORRECTION OF THE PUNCHLIST ITEMS BELOW:

FORM 12 (Continued)

Final Inspection Checklist
(Part I, cont'd)

Date: 4June 2020

Contract No.: W9128F-16-D-0014

A. Persons in Attendance: See Meeting Attendance Sheet (attached)

B. Resolution of Punchlist Items:

All requirements for site mobilization are complete at this time.

The items noted above constitute a memorandum of mutual understanding and work has been performed as planned and specified.

MEC QCS

Technical Representative

Final Inspection Checklist
(Part II)
MEETING ATTENDANCE LIST

Meeting: Final		**Date:** 4June 2020
Name	**Organization**	**Phone Number**
Sonny Richardson, UXOSO	HGL	
Anthony Indelicato	HGL	
Donnie Koetje	HGL	

FORM 12

Final Inspection Checklist (Part I)

Date 4June 2020

Contract No.: W9128F-16-D-0014

Project / Area of Inspection: Site Preparation

A. Definable Features of Work: Status of Inspection:

DFW 2, Site Preparation is complete.
All Vegetation removal is complete.
All transect and boundary marking is complete.
Seeding is complete.
Surface clearance in all aeres to be geophysicaly mapped is complete.

I hereby certify, that to the best of my knowledge and belief, that the work inspected is complete and all materials and equipment used and work performed were completed in accordance with plans submitted and approved.

Contractor Quality Control Systems Manager

B. FINAL ACCEPTANCE IS APPROVED, SUBJECT TO THE CORRECTION OF THE PUNCHLIST ITEMS BELOW:

FORM 12 (Continued)

Final Inspection Checklist
(Part I, cont'd)

Date: 4June 2020

Contract No.: W9128F-16-D-0014

A. Persons in Attendance: See Meeting Attendance Sheet (attached)

B. Resolution of Punchlist Items:

All requirements for site preparation are complete at this time.

The items noted above constitute a memorandum of mutual understanding and work has been performed as planned and specified.

MEC QCS

Technical Representative

Final Inspection Checklist
(Part II)
MEETING ATTENDANCE LIST

Meeting: Final		**Date:** 4June 2020
Name	**Organization**	**Phone Number**
Sonny Richardson, UXOSO	HGL	
Anthony Indelicato	HGL	
Donnie Koetje	HGL	

FORM 12

Final Inspection Checklist (Part I)

Date 4June 2020

Contract No.: W9128F-16-D-0014

Project / Area of Inspection: IVS Construction and Blind Seeding, DFW 3

A. Definable Features of Work: Status of Inspection:

DFW 3, IVS Construction and Blind Seeding is complete.

Lanes were sufficiently marked with non-ferrous pin flags to ensure DGM coverage.

Seed locations were recorded with RTK.

IVS was constructed in accordance with SOP 551.01.4

I hereby certify, that to the best of my knowledge and belief, that the work inspected is complete and all materials and equipment used and work performed were completed in accordance with plans submitted and approved.

Contractor Quality Control Systems Manager

B. FINAL ACCEPTANCE IS APPROVED, SUBJECT TO THE CORRECTION OF THE PUNCHLIST ITEMS BELOW:

FORM 12 (Continued)

Final Inspection Checklist
(Part I, cont'd)

Date: 4June 2020

Contract No.: W9128F-16-D-0014

A. Persons in Attendance: See Meeting Attendance Sheet (attached)

B. Resolution of Punchlist Items:

All requirements for Blind Seeding are complete at this time.

The items noted above constitute a memorandum of mutual understanding and work has been performed as planned and specified.

MEC QCS

Technical Representative

Final Inspection Checklist
(Part II)
MEETING ATTENDANCE LIST

Meeting: Final		**Date:** 4June 2020
Name	**Organization**	**Phone Number**
Josh DeFrates, Senior Geophysicist	HGL	
Anthony Indelicato, UXOQCS	HGL	
Charles Nycum, QC Geophysicist	HGL	

FORM 12

Final Inspection Checklist (Part I)

Date 4June 2020

Contract No.: W9128F-16-D-0014

Project / Area of Inspection: Assemble and Verify EM^!-Mk2, DFW 4

A. Definable Features of Work: Status of Inspection:

DFW 4, Assemble and verify EM61-Mk2 is complete.
IVS Survey was completed.
IVS Technical Memorandum was completed.

I hereby certify, that to the best of my knowledge and belief, that the work inspected is complete and all materials and equipment used and work performed were completed in accordance with plans submitted and approved.

Contractor Quality Control Systems Manager

B. FINAL ACCEPTANCE IS APPROVED, SUBJECT TO THE CORRECTION OF THE PUNCHLIST ITEMS BELOW:

FORM 12 (Continued)

Final Inspection Checklist
(Part I, cont'd)

Date: 4June 2020

Contract No.: W9128F-16-D-0014

A. Persons in Attendance: See Meeting Attendance Sheet (attached)

B. Resolution of Punchlist Items:

All requirements for EM61-Mk2 assembly and verification are complete at this time.

The items noted above constitute a memorandum of mutual understanding and work has been performed as planned and specified.

MEC QCS

Technical Representative

Final Inspection Checklist
(Part II)
MEETING ATTENDANCE LIST

Meeting: Final		**Date:** 4June 2020
Name	**Organization**	**Phone Number**
Josh DeFrates, Senior Geophysicist	HGL	
Anthony Indelicato, UXOQCS	HGL	
Charles Nycum, QC Geophysicist	HGL	
Sonny Richardson, SUXOS	HGL	
Donnie Koetje, UXO III		