

**FINAL
REMEDIAL INVESTIGATION REPORT
FOR MUNITIONS RESPONSE SITE:
GAS INSTRUCTIONAL AREA
AT FORMER SCHILLING AIR FORCE BASE
SALINE COUNTY, KANSAS**

Prepared for



**U.S. Army Corps of Engineers
U.S. Army Engineering and Support Center, Huntsville
and
Kansas City District**

**Contract No. W912DY-10-D-0023
Delivery Order No. 0006
FUDS Property No. B07KS0256
FUDS Project No. B07KS025607**

Prepared by:

**HydroGeoLogic, Inc.
11107 Sunset Hills Road
Suite 400
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December 2012

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Signed: _____

Tim Hiles
Director of MMRP
(Quality Management Representative)

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LIST OF ACRONYMS/ABBREVIATIONS

ABP	agent breakdown product
AC	hydrogen cyanide
AFB	Air Force Base
ARAR	applicable or relevant and appropriate requirement
ASR	Archives Search Report
bgs	below ground surface
BRAC	Base Realignment and Closure
CA	chemical agent
CAIS	chemical agent identification set
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CG	phosgene
CHE	chemical warfare materiel hazard evaluation
CK	cyanogen chloride
CSM	conceptual site model
CTT	closed, transferring, and transferred
CVAA	2-chlorovinyl arsenious acid
CVAO	2-chlorovinyl arsenious oxide
CWM	chemical warfare materiel
DERP	Defense Environmental Restoration Program
DGM	digital geophysical mapping
DMM	discarded military munitions
DoD	Department of Defense
DQO	data quality objective
EHE	explosive hazard evaluation
EM	Engineering Manual
ER	Engineer Regulation
ESV	ecological screening value
°F	degrees Fahrenheit
FUDS	Formerly Used Defense Site
GIS	geographic information system
GPS	global positioning system
H/HS	mustard
HA	hazard assessment
HD	distilled mustard

LIST OF ACRONYMS/ABBREVIATIONS (continued)

HGL	HydroGeoLogic, Inc.
HHE	health hazard evaluation
HTRW	hazardous, toxic, or radioactive wastes
INPR	Inventory Project Report
KDWP	Kansas Department of Wildlife and Parks
km	kilometer
L	lewisite
µg/kg	micrograms per kilogram
MC	munitions constituents
MD	munitions debris
MEC	munitions and explosives of concern
mi ²	square miles
MMRP	Military Munitions Response Program
MPPEH	material potentially presenting an explosive hazard
MRS	munitions response site
MRSPP	Munitions Response Site Prioritization Protocol
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NDAI	no Department of Defense action indicated
nT	nanotesla
OE	ordnance and explosives
ORNL	Oak Ridge National Laboratory
PIP	public involvement plan
PS	chloropicrin
QA	quality assurance
QC	quality control
RAC	Risk Assessment Code
RAO	remedial action objective
RI	Remedial Investigation
RSL	regional screening levels
SARA	Superfund Amendments and Reauthorization Act
SI	Site Inspection
SLERA	screening-level ecological risk assessment
SOP	standard operating procedure

LIST OF ACRONYMS/ABBREVIATIONS (continued)

T&E	threatened and endangered
TBC	to-be-considered
TPP	technical project planning
USACE	U.S. Army Corps of Engineers
USACHPPM	U.S. Army Center for Health Promotion and Preventive Medicine
USAESCH	U.S. Army Engineering and Support Center, Huntsville
USC	U.S. Code
USDA	U.S. Department of Agriculture
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
UTM	Universal Transverse Mercator
UXO	unexploded ordnance
WP	work plan

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1.0 EXECUTIVE SUMMARY

1.0.1 This Remedial Investigation (RI) report for the former Schilling Air Force Base (AFB), Gas Instructional Area munitions response site (MRS) was prepared by HydroGeoLogic, Inc. (HGL) for the U.S. Army Engineering and Support Center, Huntsville (USAESCH) under Contract No. W912DY-10-D-0023, Delivery Order No. 0006. The U.S. Army Corps of Engineers (USACE), Kansas City District, is the Program Manager for this site. The scope of this RI includes one MRS where chemical agent (CA) deployment is documented: Formerly Used Defense Site (FUDS) Property No. B07KS0256, FUDS Project No. B07KS025607 (Gas Instructional Area). The purpose of this RI report is to present and evaluate current site conditions to define the nature and extent of any munitions and explosives of concern (MEC) or munitions constituents (MC)/CA contamination and to assess the potential risks to human health and the environment.

1.0.2 Schilling AFB was deactivated in 1949 and reactivated in 1951 to support the Korean War. At that time, Schilling AFB was the second largest base in the Strategic Air Command and carried the mission to fly nuclear strike attacks with the capability of rapid deployment. During its operational existence, Schilling AFB housed numerous special weapons and conventional ordnance igloos, a gas instruction building, skeet ranges, an aircraft target butt, an aircraft burning/training area, and a missile maintenance building. The base was permanently closed in 1967, and the U.S. General Services Administration conveyed the majority of the base to the City of Salina, Kansas, for use as a municipal airport.

1.0.3 The Gas Instructional Area MRS is an 8.8-acre site in the southwestern portion of the former Schilling AFB and lies within the fence line of the Salina Municipal Airport. The Gas Instructional Area MRS incorporates the former locations of a gas instruction building and a decontamination area. Records indicate that an approximately 100-square-yard area was used for decontamination exercises involving mustard gas in liquid form on both the ground and in a building. The land immediately surrounding the MRS is a farmer's field with restricted access, and the land surrounding the FUDS property consists of commercial, residential, and agricultural areas.

1.0.4 A Site Inspection (SI) report was completed for the Gas Instructional Area MRS in 2010 (USACE, 2010a). This SI included digital geophysical mapping (DGM) of the MRS and sampling of subsurface soil for mustard and lewisite agents and agent breakdown products (ABPs). No CA or ABPs were detected in the soil; however, 19 discrete magnetic anomalies and an area of magnetic clutter were identified in the DGM data collected. The SI noted the

possibility that chemical agent identification sets (CAIS) were buried in the area of where subsurface anomalies were located.

1.0.5 The field effort for this RI included the investigation of 19 anomalies previously identified during the 2010 SI. During the RI, review of the original 2010 SI DGM data showed a falsely identified anomaly. Anomaly #7 was found to be an artifact of data interpretation and was not further investigated. The 18 remaining anomalies were intrusively investigated during the 2012 RI field effort to determine whether these locations had been used for CAIS disposal. The 2010 SI identified two types of CAIS test kits potentially present at the site: (1) a K941 CAIS and (2) a K951/K952 CAIS.

- K941 CAIS – contains 24 glass bottles, each containing 3.5 ounces of mustard (H/HS) or distilled mustard (HD). The mustard agent is undiluted (neat) and is therefore considered to be chemical warfare materiel (CWM).
- K951/K952 CAIS – contains 48 Pyrex® flame-sealed ampoules, each containing mustard (H, 5 percent in chloroform); lewisite (L, 5 percent in chloroform); chloropicrin (PS, 50 percent in chloroform); and, phosgene (CG, neat-undiluted). As these chemical agents, with the exception of CG, are diluted with chloroform, they are considered hazardous waste and not CWM. The CG, although undiluted (neat), is an industrial chemical and is also considered a hazardous waste.

1.0.6 Based on the Gas Instructional Area MRS history and the results of the SI performed in June 2010, the CWM probability analysis (HGL, 2010) concluded that the probability of encountering CWM is “unlikely,” symbol “E.”

1.1 GAS INSTRUCTIONAL AREA MRS: MEC AND MC INVESTIGATION

1.1.1 During the 2012 RI field investigation, 18 anomalies identified during the SI were investigated to resolve their source. Three test trenches in areas with high magnetic clutter also were investigated, and large amounts of ferrous metal flakes were identified throughout the trenches. These flakes were likely responsible for the high intensity magnetic responses observed during the 2010 SI. The metal flakes are a result of other debris (rust) and do not pose a threat to human health or the environment. Only other debris was encountered during the investigations of the 18 anomalies and the three trenches, with no evidence of MEC, munitions debris (MD), or CAIS being located.

1.1.2 MEC, MD, or CAIS were not discovered during the 2010 SI or the 2012 RI. No further characterization activities (MC sampling) was required since the MC sampling results in the SI found no CWM or breakdown products in the MRS and all anomalies investigated in the RI turned out to be other debris not munitions related. Therefore, the Gas Instructional Area MRS does not pose a risk to human health or the environment.

1.2 MEC HAZARD ASSESSMENT SCORING

1.2.1 Fieldwork conducted during this RI, as in previous investigations, did not find evidence of MEC, MC, CA, or CWM. Subsurface anomalies identified during the 2010 SI were intrusively

investigated during the RI and were shown to be other debris. For this reason, there is no current evidence of MEC at this site, and a MEC hazard assessment (HA) score of zero (0) was assigned.

1.3 MRS PRIORITIZATION PROTOCOL SCORING UPDATE

1.3.1 Munitions Response Site Prioritization Protocol (MRSPP) scores were originally developed for the Gas Instructional Area MRS in October 2010. The MRS priority for the site was developed based on the CWM hazard evaluation (CHE) module. The results of this MRSPP site scoring, including the explosive hazard evaluation (EHE) and health hazard evaluation (HHE), are presented in the following table:

2010 SI Report MRSPP Scores

MRS	Recommendation	Primary MEC	MRSPP Scores			
			EHE	CHE	HHE	Priority
Gas Instructional Area (B07KS025607)	Further Characterization	Historical documentation of CWM (mustard) use.	NK	6	NK	6

NK – no known or suspected hazards

1.3.2 During the 2012 RI, additional information on the potential for MEC in the MRS was collected through the intrusive investigation of anomalies identified in the 2010 SI. The initial selection of anomalies was based on the 2010 DGM data, which were consistent with potential buried CAIS shipping containers. Only other debris was found in the anomaly areas and in three trenches intrusively investigated in the area of magnetic clutter. The MRSPP scores for this MRS were updated based on these findings and are presented in the following table:

2012 RI Report MRSPP Scores

MRS	Recommendation	Primary MEC	MRSPP Scores			
			EHE	CHE	HHE	Priority
Gas Instructional Area (B07KS025607)	No Further Characterization	No evidence of MEC at site.	NK	NK	NK	NK

NK – no known or suspected hazards

1.3.3 The overall priority for the MRSs was downgraded from “6” to no known or suspected hazard. The downgrade in priority is a result of CHE module scoring. No evidence for release of MEC, MC, CA, or CWM is present.

1.4 SUMMARY

1.4.1 The results from the 2012 RI indicate no release of MEC, MC, CA, or CWM at the site and that the potential for munitions-related health risks is zero (0).

1.4.2 Based on these findings, there is no known or suspected hazard at the MRS. Recommendations include no Department of Defense (DoD) action indicated (NDAI) for the site.

2.0 INTRODUCTION

2.0.1 HGL prepared this RI report for the USAESCH under Contract No. W912DY-10-D-0023, Delivery Order No. 0006. Pursuant to Engineer Regulation (ER) 200-3-1 (USACE, May 10, 2004) and the Management Guidance for the Defense Environmental Restoration Program (DERP) (Office of the Deputy Under Secretary of Defense [Installations and Environment], October 2001). USACE is conducting FUDS response activities in accordance with the DERP statute (10 U.S. Code [USC] § 2701 et seq.), the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) (42 USC § 9620 et seq.), Executive Orders 12580 and 13016, and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) (40 Code of Federal Regulations [CFR] Part 300).

2.0.2 This RI was also performed under the U.S. Army Military Munitions Response Program (MMRP). The MMRP was established in 2001 under the DERP to address closed, transferring, and transferred (CTT) ranges, and the potential presence of MEC and MC contamination. Unexploded ordnance (UXO), discarded military munitions (DMM), and explosive concentrations of MC are included under the MEC designation. The MMRP also includes assessments of CWM and CA at sites.

2.0.3 The Gas Instructional Area MRS is a FUDS site (Property No. B07KS0256, FUDS Project No. B07KS025607). Under the MMRP, the USACE is conducting environmental response activities at FUDS for the Army, the DoD executive agent for the FUDS program.

2.0.4 The scope of the RI includes evaluation of buried metallic material at the Gas Instructional Area.

2.1 REPORT ORGANIZATION

2.1.1 The RI report for the Gas Instructional Area MRS is organized as follows:

- **Section 1:** Executive Summary – This section provides a summary of the purpose, scope, and objectives of the RI; site background information; RI data and interpretation; risk assessment information; and conclusions.
- **Section 2:** Introduction – The introduction to the RI report describes the purpose of the report, provides a description of and historical information about the property, and summarizes previous investigations.
- **Section 3:** Project Remedial Response Objectives – This section discusses the results of the technical project planning (TPP) process, which covers both UXO/DMM and MC. It includes the overall project remedial response objectives developed based on the planned or reasonably anticipated future use of the site property.
- **Section 4:** Characterization of MEC and MC – This section summarizes the approaches used for the RI field activities.
- **Section 5:** Revised Conceptual Site Model (CSM) and RI Results – This section presents information on the nature and extent of MEC at the project site, MC

contamination of environmental media, and physical characteristics of the project site determined from the field activities conducted as part of the RI.

- **Section 6:** Contaminant Fate and Transport – This section provides a discussion of fate and transport of contaminants detected at the project site.
- **Section 7:** Baseline Risk Assessment – This section discusses site-specific evaluations conducted for the hazards assessment for UXO/DMM.
- **Section 8:** Summary of Results – This section summarizes the results of the RI including the following:
 - Nature and extent of UXO/DMM and MCs at the project site;
 - Whether the findings are consistent with known sources;
 - The magnitude, direction, and rate of contaminant migration,
 - Summary of site risks, and
 - Conclusions.
- **Section 9:** References
- **Appendices:**
 - Appendix A – Documentation of Disposition of Material Potentially Presenting an Explosive Hazard (MPPEH)
 - Appendix B – Analytical Results Tables and Quality Assurance (QA)/Quality Control (QC) Evaluations
 - Appendix C – Institutional Analysis Report
 - Appendix D – Demolition Activity Summary Tables
 - Appendix E – Geophysical Data
 - Appendix F – Daily Reports, Logs, and Memoranda
 - Appendix G – Project Photographs
 - Appendix H – MRSPP Scoring Sheets
 - Appendix I – TPP Memoranda
 - Appendix J – Geographic Information System (GIS) Deliverable
 - Appendix K – Salina Journal Publisher’s Affidavit – Work Plan (WP) Notice of Availability

2.2 PURPOSE

2.2.1 The purpose of this RI report is to (1) characterize the nature and extent of buried metallic items (including potential CAIS) and (2) conduct a baseline risk assessment to quantify risk and CWM-related safety concerns to human health and the environment. The approach for the RI was determined during TPP sessions with the project delivery team. Documentation of TPP meetings is provided in Appendix I. Results of those discussions dictated the approach and rationale used to evaluate whether CWM and/or CAIS exists at the site. The scope of this RI included reacquisition of 19 magnetic anomalies reported in the 2010 SI, intrusive investigation

of those anomalies to determine whether CAIS were present, and performance of three test trenches in an area of magnetic anomaly clutter identified during the 2010 SI. The performance objective of this Delivery Order is to perform the RI at the Gas Instructional Area MRS and to complete all tasks required to achieve acceptance of a Decision Document in compliance with CERCLA and other applicable guidance.

2.2.2 The RI data quality objectives (DQOs) for the Gas Instructional Area MRS as defined during the TPP were to evaluate the presence/lack thereof of subsurface CAIS. Furthermore, the data was to be used to support this RI report, which includes

- Collecting data needed to support the explosive HA, and evaluate remedial response actions; and
- Building on the SI data and findings to reduce the data gaps and uncertainties.

2.3 PROPERTY DESCRIPTION AND PROBLEM IDENTIFICATION

2.3.1 Site Description

2.3.1.1 The Gas Instructional Area is an 8.8-acre site in the southwestern portion of the former Schilling AFB and lies within Salina Municipal Airport (Figure 2.1). The Gas Instructional Area MRS incorporates the former locations of the gas instruction building and the decontamination area (Figure 2.2). Historical records indicate that an approximately 100-square-yard area was used for decontamination exercises involving liquid mustard agent on both the ground and in a building. The exact location of the possible liquid mustard ground decontamination training area is unknown. The only other building in the area was a radio transmitter building (Figure 2.2). The gas instruction building no longer exists (USACE, 2003). The radio transmission building was demolished in April 2010.

2.3.1.2 When closed in 1967, the former Schilling AFB was conveyed to the City of Salina for use as a municipal airport. The airport remains in operation. Properties in the southern portions of the site were adapted to agricultural uses, while those areas in the eastern portion of the former site transitioned to residential or industrial uses. The boundaries of the former Schilling AFB are presented on Figure 2.1. The land immediately surrounding the Gas Instructional Area MRS is used for agriculture.

2.3.2 Current and Projected Land Use

2.3.2.1 The Gas Instructional Area MRS property is part of the Salina Municipal Airport and lies within the fenced buffer area surrounding the airport. The site is leased by the airport for farming, alternating sorghum and wheat crops. The projected land use of the Gas Instructional Area MRS is not anticipated to change and will likely remain as farmland. No visible remnants (for example structures) of the two historical skeet ranges, gas instruction building, or radio transmission building or towers remain.

2.3.3 Base Environmental Setting

2.3.3.0 This section summarizes the environmental setting at the former Schilling AFB.

2.3.3.1 Physical Setting

2.3.3.1.1 The Gas Instructional Area is within the City of Salina, Kansas. Salina is approximately 81 miles (130 kilometers [km]) north of Wichita and 164 miles (264 km) west of Kansas City.

2.3.3.2 Climate

2.3.3.2.1 Warm periods during the summer months and cold winters are common in the former Schilling AFB area. The normal daily minimum temperature ranges from 19 degrees Fahrenheit (°F) in January to 69°F in July. The normal daily maximum temperature ranges from 39°F in January to 93°F in July (www.weather.com). Rainfall is heaviest in late spring, with average monthly rainfalls of approximately 4 inches during the season. Approximately 32 inches of rain falls annually.

2.3.3.3 Geology

2.3.3.3.1 The former Schilling AFB is located in the Smoky Hills physiographic province. The Permian Wellington Formation bedrock underlies the alluvium at an approximate depth of 40 to 50 feet below ground surface (bgs). The Wellington Formation consists of shale with minor amounts of limestone, dolomite, siltstone, gypsum, and anhydrite.

2.3.3.4 Topography

2.3.3.4.1 The majority of the former Schilling AFB area is largely flat to gently rolling. The elevation at the site ranges from approximately 1,200 to 1,320 feet above mean sea level (USACE, 2010a). The ground surfaces at the former Schilling AFB are covered by a combination of pavement (runways, parking areas, and streets), buildings, and landscaping, or are used for farming purposes (cultivated). The landscaped areas around the runways and between buildings and paved areas are covered in grass that is maintained (USACE, 2010a).

2.3.3.4.2 The topography across the approximately 8.8-acre Gas Instructional Area MRS is generally flat and clear of trees. The area used for farming alternates between sorghum and wheat crops. Figure 2.3 details the topographical features of the MRS.

2.3.3.5 Soils

2.3.3.5.1 Surface soil within the former Schilling AFB consists of a silty loam, a moderately well-drained soil resulting in slow surface runoff and a very low to moderately high capacity to transmit water (U.S. Department of Agriculture [USDA], 2012).

2.3.3.6 Hydrogeology

2.3.3.6.1 The Schilling AFB site is underlain by the Western Interior Plains aquifer system. The aquifer system consists of water-yielding dolomite, limestone, and sandstone. Regional groundwater movement in the Western Interior Plains aquifer system is southeastward to eastward and is thought to be very slow. Little water is withdrawn from the aquifer system because the system is deeply buried and contains highly mineralized water (USACE, 2010a).

2.3.3.7 Hydrology

2.3.3.7.1 The former Schilling AFB site drains into the Smoky Hill River and its tributaries, which flow north and east across the county. Many upland areas do not have an adequate supply of water for domestic and livestock uses. Rural water districts help to distribute water to these areas. A system of interconnected drainage ditches has been constructed for flood control within the former Schilling AFB. These drainage ditches divert surface water away from the area and into Dry Creek, located along the eastern edge of the area (Figure 2.1). Dry Creek flows north, where it eventually merges with the Saline River, a tributary to the Smoky Hill River.

2.3.3.8 Vegetation

2.3.3.8.1 The site is leased for farming by the airport, alternating sorghum and wheat crops.

2.3.4 Ecological Setting

2.3.4.1 No ecologically important places exist within this MRS (USACE, 2010a). The ecological risk assessment, Section 6.3 of the 2010 SI report, provides more details regarding the ecological setting. It is not likely that sensitive habitat exists in the MRS because it is located in the middle of an actively farmed field within airport boundaries. The degree of disturbance at the site is confined to the top 0 to 12 inches of soil.

2.3.5 Cultural Setting

2.3.5.1 Demographics

2.3.5.1.1 The former Schilling AFB is within Saline County, Kansas. According to the U.S. Census Bureau, the county has a total area of 719.61 square miles (mi²). The population for Saline County in 2000 was 53,597 persons, with 21,436 occupied housing units, for an average of 2.5 people per household. The population density in 2000 was 74.5 persons/mi². The U.S. Census Bureau's 2009 population estimate for the county was 54,364, representing a population increase of approximately 1.4 percent since April 1, 2000 (U.S. Census Bureau, 2009).

2.3.5.2 Land Use Activities

2.3.5.2.1 When closed in 1967, the former Schilling AFB was conveyed to the City of Salina for use as a municipal airport. The airport has continued operation as a municipal airport to the present. Property in the southern portions of the former Schilling AFB were adapted to agricultural uses, while those areas in the eastern portion of the site transitioned to residential or industrial uses.

2.4 HISTORICAL INFORMATION

2.4.1 The U.S. Government constructed the Smoky Hill Army Air Base in 1942; it was renamed Smoky Hill AFB in 1946 and Schilling AFB in 1957. The former Schilling AFB consisted of 4,138.8 acres located approximately 2 miles southwest of Salina, Kansas. During World War II, Schilling AFB supported the training of pilots for bombing missions.

2.4.2 The base was deactivated in 1949 and reactivated in 1951 to support the Korean War. At that time, Schilling AFB was the second largest base in the Strategic Air Command and carried the mission of flying nuclear strike attacks with the capability of rapid deployment. While operational, Schilling AFB housed numerous special weapons and conventional ordnance igloos, a gas instruction building, skeet ranges, an aircraft target butt, an aircraft burning/training area, and a missile maintenance building. The base was permanently closed in 1967, and the U.S. General Services Administration conveyed the majority of the base to the City of Salina for use as a municipal airport. Additional details about the history of the site are presented in the Archives Search Report (ASR) (USACE, 2003). The Gas Instructional Area MRS lies within the perimeter security fence of the airport and serves as buffer area for the airport runway and facilities. The site is within an area leased to a local farmer for agriculture purposes. Wheat and sorghum are the two primary crops grown on the site.

2.4.3 Historical use of CWM has been documented at the site. The CAIS kits used at the site were likely K941 CAIS kits. It is also possible that K951/K952 CAIS kits were used on site.

- K941 CAIS – contains 24 glass bottles, each containing 3.5 ounces of mustard or distilled mustard for a total of 84 ounces (2.48 liters) per set. The mustard agent is undiluted (neat) mustard agent and is therefore considered CWM.
- K951/K952 CAIS – contains 48 Pyrex® flame-sealed ampoules, 12 each containing a 1.4-ounce solution of mustard (5 percent in chloroform); lewisite, a blister agent (5 percent in chloroform); chloropicrin, a tear gas agent (50 percent in chloroform); and phosgene, a choking agent (neat-undiluted), for a total of 26 ounces (0.768 liters) of agent, less the chloroform, per set. As these chemical agents, with the exception of phosgene, are diluted with chloroform, they are considered hazardous waste and not CWM. The phosgene, although undiluted (neat), is an industrial chemical and is also considered a hazardous waste.

2.4.4 The CAIS K951/952 kits were used for chemical identification training and contained dilute chemical agents and industrial solvents; therefore, they are categorized as hazardous, toxic, or radioactive waste (HTRW). Although shipping documents suggest that CAIS K951/K952 kits were shipped to the site, their disposition was not recorded. It was also noted in the training records contained in the ASR Supplement that decontamination exercises did take place, which implies that at least some of the components of the CAIS kits were expended during these training exercises and that perhaps the empty steel shipping containers could still be present. Current guidelines suggest that, given the lack of recorded disposal, the assumption has to be made that the CAIS kits were expended during training.

2.5 PREVIOUS INVESTIGATIONS

2.5.0 This section provides information on previous investigations conducted by USACE concerning MEC and CWM associated with the former Schilling AFB FUDS property.

2.5.1 1991 INPR

2.5.1.1 An Inventory Project Report (INPR) was prepared by USACE in July 1991 (USACE, 1991). In preparing the report, USACE reviewed the history of the site and determined that it was formerly used by the DoD. For this reason, Schilling AFB was designated a FUDS property. The INPR only addressed the historical use and/or storage of small arms, flares, signals, simulators, and screening smoke (other than white phosphorous) at the site by DoD components.

2.5.2 2003 ASR

2.5.2.1 An ASR was completed by USACE in May 2003 (USACE, 2003). USACE conducted a site visit to the former Schilling AFB on October 23 and 24, 2002, to evaluate site conditions as part of the ASR preparation. Documentation located through the ASR process showed that CAIS kits were historically present on site, but documents addressing the disposition of the kits were not found. The ASR also indicated that live liquid mustard agent may have been spread over an approximately 100-square-yard section of land for the purpose of decontamination training. The exact location of the possible mustard ground decontamination training area has not been determined, but an estimated location is indicated on Figure 2.2 (USACE, 2010a). Presumably, the gas instruction building was also used for decontamination practice. The site visit team noted that only the former radio transmitter building remained standing, while the gas instruction building, which once stood 100 yards to the north, no longer existed.

2.5.2.2 The ASR separated the former training areas at Schilling AFB into different areas: “Area C,” the area that had contained the “Gas Instruction Building,” “West Skeet Range,” and “South Skeet Range.” The ASR designated a Risk Assessment Code (RAC) of “1,” which recommends that further action would be appropriate, for Area C based on the historical documentation of the presence of CAIS and decontamination exercises.

2.5.2.3 The ASR described the Gas Instructional Area as having three skeet ranges. The first, the most southerly, was a single skeet and trap range apparently built as part of the original base in 1942. To the west of this area were two skeet and trap ranges separated by the north to south road that ran in front of the former gas instruction building, which is still visible in 1954 aerial photographs (Figure 2.2). These two ranges only appear on a single map from 1955. Nothing remains of these three ranges, and both areas are currently used for farming.

2.5.2.4 Based on the review of historical documents, interviews with persons familiar with the site and the visual inspection of the area, the ASR concluded that there was potential presence of buried CWM.

2.5.3 2004 ASR Supplement

2.5.3.1 An ASR Supplement was prepared in November 2004. The ASR Supplement renamed “Area C” as “Range Complex No.1” and included sub-ranges: “Gas Instructional Area,” “Skeet Range No.3,” and “Skeet Range No.1” (USACE, 2004).

2.5.4 2010 CWM SI

2.5.4.1 The primary goal of the 2010 SI (USACE, 2010a) was to determine whether a response action (for example, an RI or a time-critical removal action) or NDAI was appropriate regarding the potential presence of CAIS and CA and/or ABP.

2.5.4.2 The scope of the 2010 SI included a DGM survey across the site to map subsurface anomalies and soil sampling for CA/ABP. The geophysical data from the 2010 SI is presented on Figure 2.4. The DGM survey identified 19 anomalies that had magnetic signatures similar to those of CAIS shipping containers (either a single or multiple containers, Figure 2.4). One of these anomalies (Anomaly #7) was identified as a data interpretation error during the 2012 RI fieldwork. The SI identified, on the southern end of the survey area, a high subsurface anomaly density area (area of magnetic clutter) that extended to the former location of the radio transmitter building.

2.5.4.3 The soil sampling effort included collecting 20 samples from biased locations (that is, locations where contamination was most likely to be found) to assess the presence of CA and ABPs. Ten soil samples were collected within a grid-based pattern positioned over the location of the former gas instruction building, as shown on Figure 2.5. Ten additional samples were collected within the vicinity of the Gas Instructional Area MRS (Figure 2.5). Samples were collected from 12 to 16 inches bgs. All samples collected were analyzed for mustard, mustard breakdown products (1,4-dithiane and 1,4-thioxane), and lewisite (inclusive of 2-chlorovinyl arsenious acid [CVAA] and 2-chlorovinyl arsenious oxide [CVAO]).

2.5.4.4 The analytical results from the 2010 SI indicated that there had been no releases of CA/ABP to the Gas Instructional Area MRS; hence, no potential for unacceptable risks to human health and the environment resulting from exposure to CA/ABP were identified. The method used to analyze for CA/ABP was Geomet Chemical Defense Laboratory Division Standard Operating Procedure (SOP) 44. The 2010 SI recommended an RI for the site because of the presence of subsurface anomalies within the site having magnetic signatures similar to one or more CAIS shipping containers.

2.5.5 CWM Probability Analysis (2011)

2.5.5.1 A CWM probability analysis was conducted (USACE, 2011) based on the history of the Gas Instructional Area MRS and the results of the SI performed in June 2010 (USACE, 2010a). The analysis concluded that the probability of encountering CWM was “unlikely,” symbol “E.”

2.5.5.2 Historical documents suggest that the Gas Instructional Area MRS was used for CA training only. However, no evidence indicating that munitions were disposed of or used in the area has been found. Munitions or military-related debris were not observed during previous inspections.

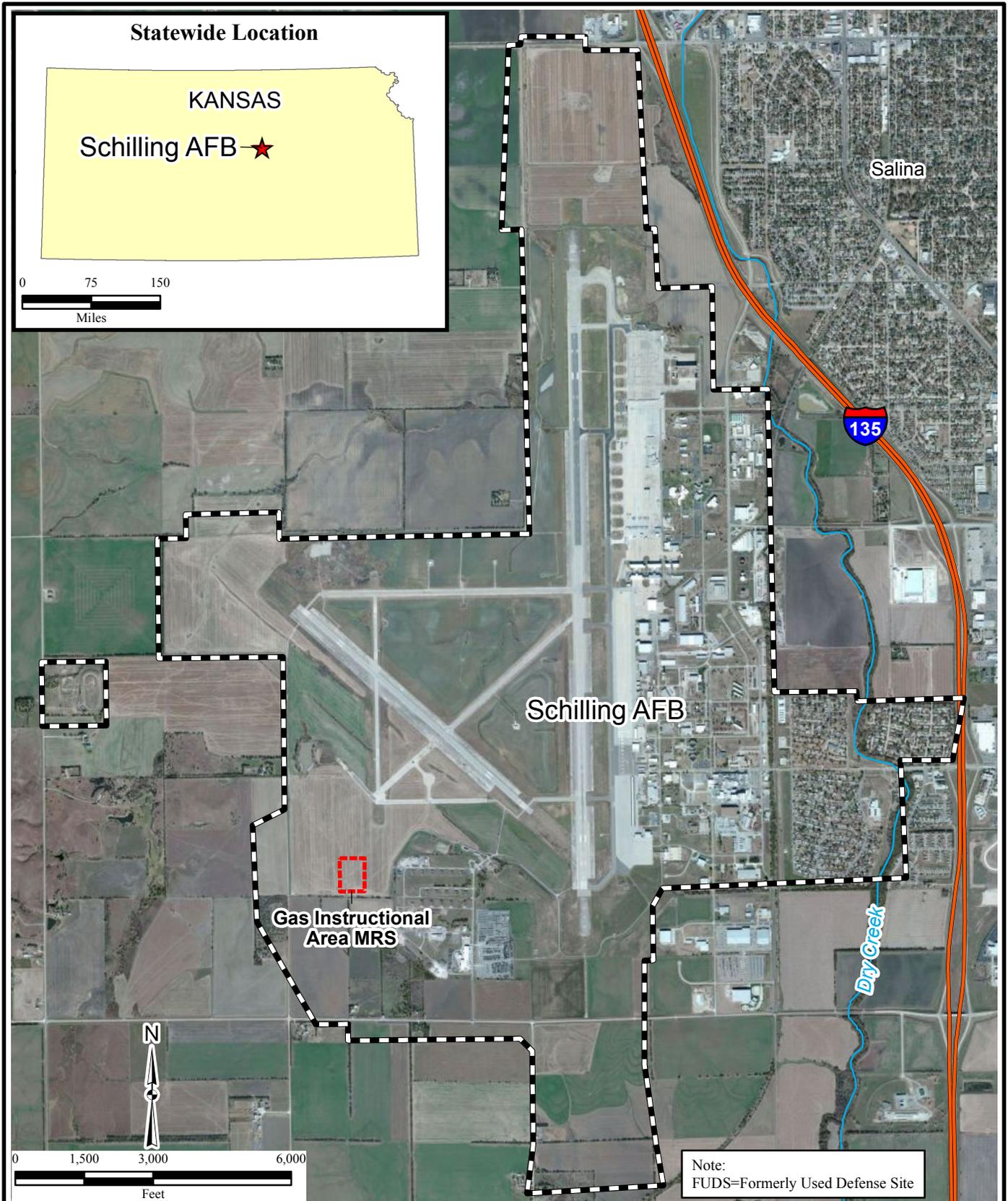
2.5.5.3 Based on the known history of the site and the results of the June 2010 SI, a CWM probability analysis concluded that the probability of encountering CWM at the MRS to be “unlikely,” symbol “E.” This assessment also recommended that an RI be completed for the site.

2.5.5.4 The finding that it was unlikely to encounter CWM at the site allowed for lowering of overall requirements for safety planning and execution. For instance, an explosives safety submission was not needed and chemical protective suits were not required to be worn during the site investigation.

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FIGURES

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 8/1/2012 CNL, QC: 7/25/2012
 Source: HGL
 ESRI Online Bing Maps Aerial



Legend

-  Interstate
-  Creek
-  Munitions Response Site (MRS)
-  Schilling AFB FUDS

**Figure 2.1
 Site Location**



Figure 2.2
Historical Site Features

Legend

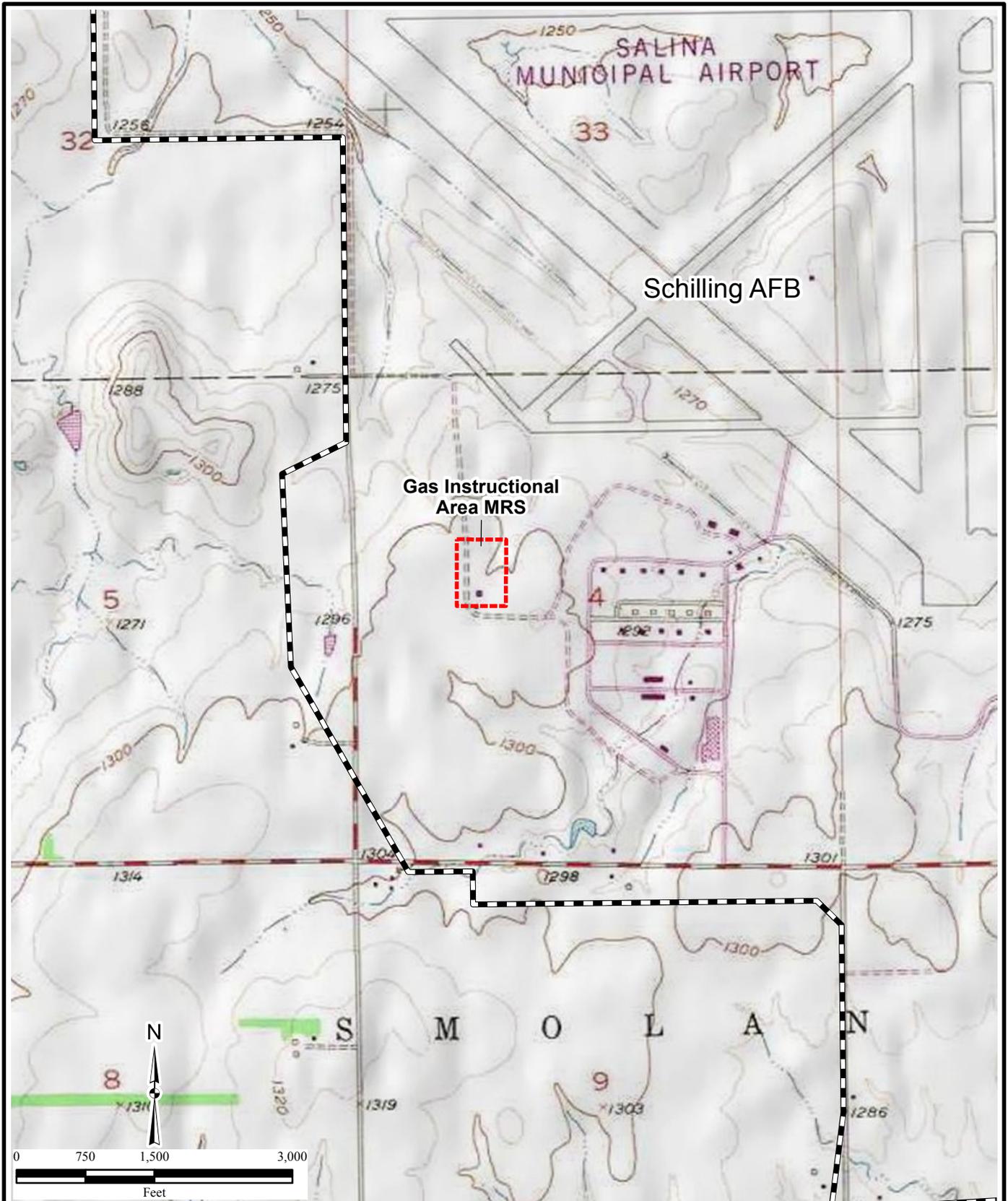
 Munitions Response Site (MRS)

Note:
Aerial photograph dated 1954.

HGL—Remedial Investigation—Former Schilling Air Force Base, KS

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(2-02)Historical_Features.mxd
8/1/2012 CNL
Source: HGL, U.S. Army Engineering & Support Center





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 (2-03)Topo.mxd
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 Source: HGL
 ESRI Online USA Topo Maps



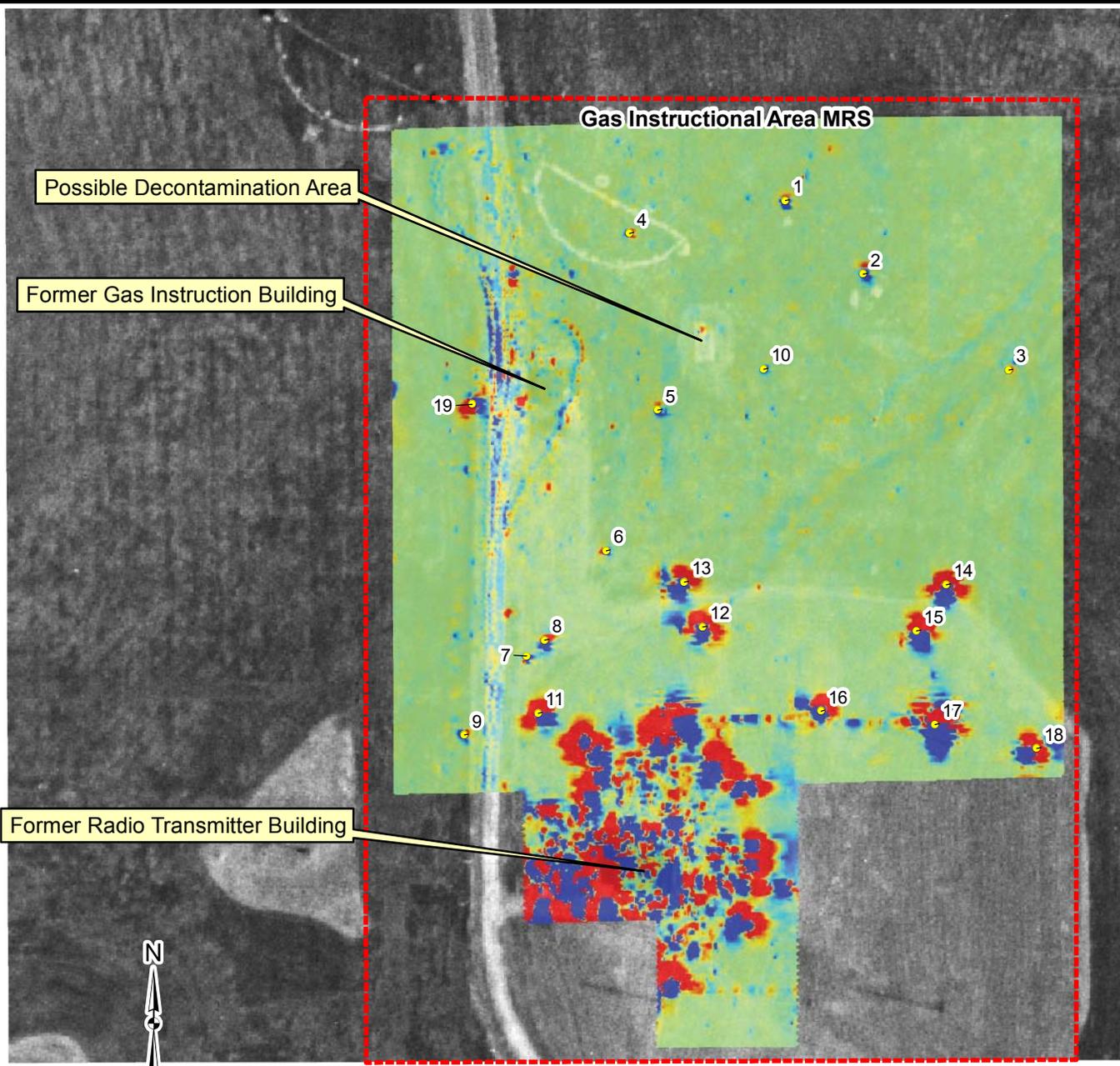
Legend

- Schilling AFB FUDS Boundary
- Munitions Response Site (MRS)

Note:
 FUDS=Formerly Used Defense Site

**Figure 2.3
 Topographic Features**

**Figure 2.4
2010 SI
Geophysical Data**



Legend

- Anomaly
- ▭ Munitions Response Site (MRS)

Response (nT):

High : 20
Low : -20

Notes:
nT=nanoteslas
SI=site investigation

HGL—Remedial Investigation—Former Schilling Air Force Base, KS

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(2-04)Geophysical.mxd
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Source: HGL, U.S. Army Engineering & Support Center



Figure 2.5
2010 Site Investigation
Sample Locations



Legend

- Predetermined Sample Location

Discretionary Locations:

- ▲ Potential CAIS-burial Location
- ▲ Random
- Geophysical Investigation Area

Notes:
 Aerial photograph dated 1954.
 CAIS=chemical agent identification set

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 (2-05)2010_SI.mxd
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 Source: HGL, U.S. Army Engineering & Support Center



HGL—Remedial Investigation—Former Schilling Air Force Base, KS

3.0 PROJECT REMEDIAL RESPONSE OBJECTIVES

3.1 CONCEPTUAL SITE MODEL AND PROJECT APPROACH

3.1.1 Preliminary CSM for Gas Instructional Area

3.1.1.0 A CSM was revised during the preparation of the 2010 SI and the 2012 WP for the Gas Instructional Area MRS. That preliminary CSM, which was prepared assuming a potential for the presence of chemical agents but no known complete pathways, is presented as Figure 3.1. The history of the site indicated potential MEC, MC, CA, and CWM use at the site; however, no specific evidence of the use of these materials has been encountered.

3.1.1.0.1 Historical documents suggest that the Gas Instructional Area MRS was used only for CA training and that no munitions were disposed of or used in the area. No munitions or military-related debris were observed on the surface during the DGM and sampling conducted at the site. The MRS is within the restricted area of the Salina Municipal Airport, and access is limited to airport employees and contractors.

3.1.1.1 Human Exposure Profile

3.1.1.1.1 A majority of the area immediately within and surrounding the Gas Instructional Area MRS is currently used as agricultural land. Also within the MRS resides the foundation of a former radio transmitter building, which was removed in April 2010. Very little direct human exposure to the soils in the MRS occurs. A low potential risk exists for human receptors at this MRS.

3.1.1.2 Ecological Profile

3.1.1.2.1 The ecological profile for the Gas Instructional Area MRS is analogous to the rest of the areas located within Schilling AFB, as described in Section 2.3.4. It is not likely that sensitive habitats exist in the MRS because it is located in the middle of an actively farmed field. The degree of disturbance at the site is confined to the top 0 to 12 inches of soil from the use of mechanized farm equipment.

3.1.1.3 MEC Release Profile

3.1.1.3.1 Site activities did not identify any MEC concerns, and historical documents suggest that MEC was not used or disposed of at this site; therefore, an evaluation for explosive hazards due to MEC is not warranted.

3.1.1.3.2 The 2003 ASR noted that live liquid mustard agent may have been spread over an approximately 100-square-yard section of land for the purpose of decontamination training. The location of the possible mustard ground decontamination training area is unknown. According to the ASR, the gas instruction building was presumably also used for decontamination practice. Exercises such as this typically included the use of K941 CAIS kits.

3.1.1.3.3 The other type of CAIS kits used at the site was the K951/K952 kit, which contained mustard, chloropicrin, and lewisite in a diluted solution with chloroform, and phosgene. CAIS kits in this form do not fit the definition of CWM, but rather are considered to be HTRW.

3.1.1.3.4 Both CAIS varieties were packaged in steel shipping containers commonly known as “pigs.” Due to the limitations of available technologies, investigations to locate buried CAIS kits typically rely on the presence of the steel shipping container, as the glass ampoules in the K951/K952 kits and the small bottles of the K941 kit do not typically contain enough associated metal to obtain an accurate geophysical signature.

3.1.1.3.5 During the 2010 SI, DGM was conducted at the site to determine whether there were geophysical signatures consistent with that of a buried CAIS shipping container. After collecting DGM data over 6.42 acres and processing the data, the project geophysicist identified 18 anomalies potentially representative of either a single buried CAIS shipping container or larger burial pits possibly containing multiple containers or containers buried with other debris. These anomalies were not intrusively investigated as part of this SI, and there was nothing immediately evident on the ground surface to suggest a possible source. Other potential sources of the anomalies included building foundations, supports for the former radio towers, and structures or debris related to current agricultural activities at the site.

3.1.1.4 MC Release Profile

3.1.1.4.1 As described in the WP, the land surrounding the FUDS property consists of commercial, residential, and agricultural areas. The land surrounding the Gas Instructional Area MRS is used for agricultural purposes—rotating crops from winter wheat to sorghum. Future land use is expected to remain the same. The MRS is located within the restricted area of the Salina Municipal Airport property, access to which is limited to airport employees and contractors. Potential exposure routes for possible MC contaminants in the surface and subsurface soil would include incidental ingestion, dermal contact, and inhalation of re-suspended particulates.

3.1.1.4.2 Direct release of MC from chemical agent training activities within the MRS would have been to surface soil (0 to 24 inches). Since deactivation of Schilling AFB, the upper 12 inches of soil have been grossly disturbed by crop farming (till depth of soil within the site is a maximum of 12 inches). Sampling for CA/ABP, as described in Section 2.5.4, was completed during the SI (USACE, 2010a) for soil at depths below the disturbed level (12 to 16 inches bgs). No CA/ABP were detected in this soil.

3.1.1.4.3 Surface water and sediment are not present at this MRS. If there were releases of MC to surface/subsurface soil as a result of the training activities, MC could have leached to groundwater, but because of the distance it is unlikely to have migrated to surface water and sediment through runoff and erosion. MC in the surface soil can also become airborne in fugitive dust.

3.1.1.5 Human Health Screening Levels

3.1.1.5.1 The risk-based soil screening values selected by the TPP team for the 2010 SI were the Health-Based Environmental Screening Levels for Chemical Warfare Agents (U.S. Army Center for Health Promotion and Preventive Medicine [USACHPPM]/Oak Ridge National Laboratory [ORNL] Technical Report, March 1999) for mustard and lewisite, including CVAA and CVAO, and U.S. Environmental Protection Agency (USEPA) regional screening levels (RSLs) for the ABPs (1,4-dithiane and 1,4-thioxane). These screening levels are listed below.

Chemical	Screening Level (µg/kg)
Mustard	10 ^A
1,4-dithiane	610,000 ^B
1,4-thioxane	610,000 ^B
Lewisite	300 ^A

A=Health-Based Environmental Screening Levels for Chemical Warfare Agents, USACHPPM/ORNL Technical Report, March 1999

B=USEPA RSLs, Residential Soil, May 2010

µg/kg=micrograms per kilogram,

3.1.1.6 Risk Characterization for Soil

3.1.1.6.1 Laboratory results from the soil samples collected during the 2010 SI show no detectable concentrations of chemical agents or ABPs. Since the targeted analytes were not detected, there are no health concerns related to MC at the site.

3.1.1.7 Discussion

3.1.1.7.1 Soil samples collected during the 2010 SI were analyzed for mustard, mustard breakdown products (1,4-dithiane and 1,4-thioxane), and lewisite (inclusive of CVAA and CVAO). Laboratory analyses of the samples resulted in no detectable concentrations of analytes. According to the SI, a source of contamination is not present at the Gas Instructional Area MRS. Given the lack of source, there cannot be an exposure medium or receptors. Given no complete pathways exist, no unacceptable risk to human receptors resulting from MC was found to exist at the Gas Instructional Area MRS.

3.2 PROJECT APPROACH AND RI OBJECTIVES

3.2.1 RI Project Approach

3.2.1.1 The RI approach was designed to satisfy the TPP DQOs to evaluate the potential presence of buried CAIS kits. Reacquisition of 19 anomalies was planned followed by intrusive investigation of those anomalies to determine the nature of the causative magnetic material. In addition, three trenches were planned near areas of magnetic clutter to assess the origin of those geophysical responses.

3.2.2 Community Relations

3.2.2.1 As part of the RI process, USACE developed a public involvement plan (PIP) (USACE, 2012) to ensure that stakeholders are provided with information essential to their understanding

of USACE activities, and are given the opportunity to provide input during the decision-making process regarding future USACE activities at the former Gas Instructional Area. USACE has completed the following activities as part of its public outreach effort:

- Conducted TPP meetings in October 2011 and May 2012 with stakeholders, including the Salina Airport Authority and Kansas Department of Health and Environment;
- Interviewed local, state, and federal officials and community representatives from January 5 through 12, 2012;
- Provided project materials, including a site history, site location maps, and fact sheets, on the USACE website in March, April, and May 2012;
- Established the administrative record repository at the Salina Public Library and updated the repository with the RI WP; and
- Facilitated public awareness of USACE activities through the February 2012 newsletter of the Salina Airport Authority.

3.2.2.2 In addition to the activities listed above, USACE published a notice of availability of the RI WP in the *Salina Journal* on July 15, 2012. The publisher's affidavit is included in Appendix K.

3.3 PRELIMINARY REMEDIAL ACTION OBJECTIVES

3.3.1 No preliminary remedial action objectives (RAOs) were developed for the project site as no contaminant releases were confirmed for either MEC or MC at the outset of the project and no exposure pathways were known to be complete for either human or ecological receptors.

3.4 PRELIMINARY IDENTIFICATION OF APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS AND TO-BE-CONSIDERED REQUIREMENTS

3.4.0 CERCLA response actions are exempted by law from the requirement to obtain federal, state, or local permits related to any activities conducted completely on site. It is the policy of USEPA and the Department of the Army to ensure that all activities conducted on site are protective of human health and the environment; thus, response actions under CERCLA must identify and attain or formally waive what are determined to be applicable or relevant and appropriate requirements (ARARs) under federal and state laws. Although the RI is not considered a response action, preliminary identification of chemical-specific and location-specific ARARs is begun during RI site characterization. ARARs are used as a starting point for determining the protectiveness of a potential remedy. The ability to comply with other ARARs also affects the acceptability of the potential remedy to state regulators and community stakeholders. When ARARs do not exist for a particular chemical or remedial activity, other criteria, advisories, and guidance referred to as to-be-considered (TBC) requirements are useful in designing and selecting a remedial alternative.

3.4.1 Chemical-Specific ARARs

3.4.1.1 Because evidence of chemical releases was not found during the SI or RI, preliminary chemical-specific ARARs were not developed.

3.4.2 Location-Specific ARARs

3.4.2.1 Location-specific ARARs govern activities in certain environmentally sensitive areas. Because no CWM or CA/ABPs were detected during the SI, no release was determined and preliminary location-specific ARARs were not developed.

3.4.3 Action-Specific ARARs

3.4.3.1 Action-specific ARARs are restrictions that define acceptable treatment and disposal procedures for hazardous substances. Because investigations prior to the RI had not identified any releases, preliminary action-specific ARARs were not developed.

3.4.4 TBC Requirements

3.4.4.1 The following were identified in the SI as chemical-specific TBCs for MC relative to human health and ecological receptor protection at the Schilling AFB MRS:

- USEPA RSLs for residential soil (November 2010).
- USEPA Region 4 ecological screening values (ESVs) for soils.

3.4.4.2 CA/ABPs were not detected during the SI.

3.5 SUMMARY OF INSTITUTIONAL ANALYSIS

3.5.1 From 1942 to 1960, the United States acquired 3,378.48 acres fee, 750.28 acres easement, 5.94 acres lease, and 0.02 acre license, as well as six permits (no area), by purchase and condemnation to establish the Schilling AFB. In 1961, Schilling AFB also became a strategic missile support base for the Atlas “F” intercontinental ballistic missile, supporting 12 remote launch facilities. As stated in Section 2.5.1, the 1991 INPR determined that the property had formerly been used by the DoD. The 2003 ASR identified the Gas Instruction Building as a possible site with CWM.

3.5.2 The base was permanently closed in 1967, and the U.S. General Services Administration conveyed the majority of the base to the City of Salina for use as a municipal airport. The Gas Instructional Area MRS lies within the perimeter security fence of the airport and serves as buffer area for the airport runway and facilities. The site is within an area leased to a local farmer for agriculture purposes.

3.5.3 A detailed institutional analysis was not completed for this MRS for the following reasons:

- 1) As described in Section 4.0 of this RI report, there is no evidence for a release at this site.

- 2) Without a release there are no complete exposure pathways and there is no release-related risk.
- 3) With no release-related risk, there is no need for institutional controls at this site.

3.6 DATA NEEDS AND DATA QUALITY OBJECTIVES

3.6.0 Draft DQOs were identified prior to the first TPP meeting. These DQOs were reviewed and discussed by the TPP team in a working session at the meeting. Adjustments to the draft DQOs were made in response to TPP team input. The resulting DQOs identified for the performance of the RI relate to characterizing the nature and extent of potential MEC contamination through reacquisition and intrusive investigation of anomalies identified by the SI.

3.6.0.1 The following subsections outline the DQOs identified for the 2012 RI report.

3.6.1 Anomaly Investigation DQO

3.6.1.1 The purpose of the anomaly investigation performed for the 2012 RI was to characterize any CAIS material present on site. The anomaly investigation DQOs are provided in Table 3.1.

Table 3.1
2012 Anomaly Investigation DQOs

DQO Element Number	DQO Element Description	Site-Specific DQO Statement
Intended Data Use(s):		
1	Project Objective(s) Satisfied	Evaluate presence/lack thereof of subsurface CAIS.
Intended Need Requirements:		
2	Data User Perspective(s)	Risk, remedy
3	Contaminant or Characteristic of Interest	CAIS - K951/952 and K941 varieties. Small amounts of mustard (H) and lewisite (L) are associated with the CAIS types suspected at the site.
4	Media of Interest	N/A
5	Required Locations or Areas	Subsurface magnetic targets identified during the SI DGM survey (i.e., 19 targets) and the high concentration anomaly area in the southern sector of the site.
6	Number of Samples Required	19 targets + 3 test trenches.
7	Reference Concentration of Interest or Other Performance Criteria	Intrusive investigation in areas cited above.
Appropriate Sampling and Analysis Methods:		
8	Sampling Method	Intrusive investigation.
9	Analytical Method	N/A

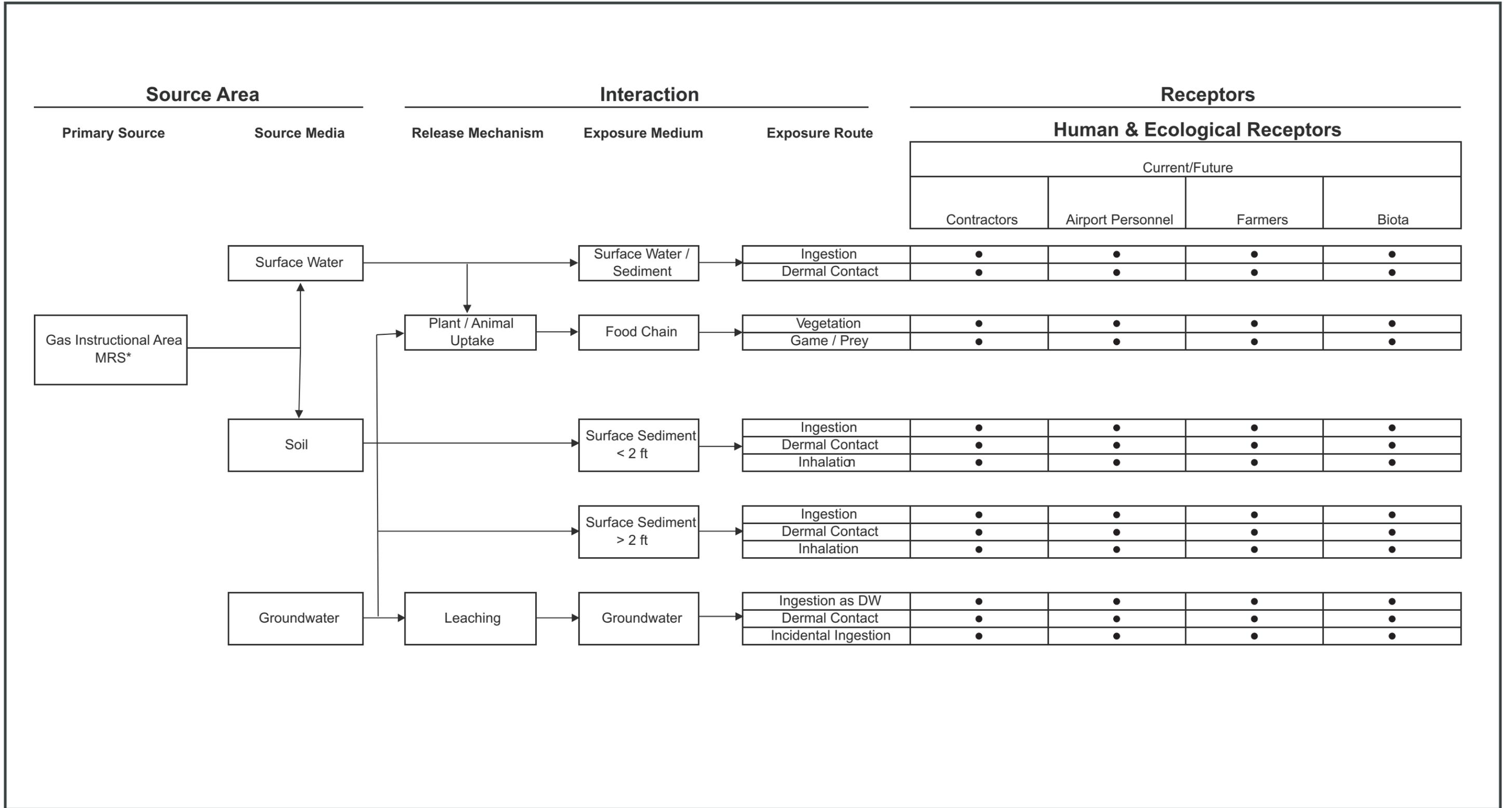
3.6.2 MRSPP DQO

3.6.2.1 The DQO for the MRSPP was to obtain site-specific data of adequate quality as input for the EHE, CHE, and HHE scoring modules. The MRSPP is provided as Appendix H.

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FIGURE

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9/5/2012 CNL
Source: HGL



Legend

● The exposure pathway is incomplete

Notes:
* The preliminary conceptual site model considered potential presence of chemical agent but identified no known complete pathways.

DW=drinking water
MRS=Munitions Response Site

**Figure 3.1
Preliminary
Conceptual Site Model**

4.0 CHARACTERIZATION OF MEC AND MC

4.0.1 This section provides details of the approach, methods, and operational procedures used for the MEC (including CWM) and MC (including CA) characterization tasks performed at the Gas Instructional Area MRS.

4.1 MEC AND MC CHARACTERIZATION RESULTS

4.1.1 Contamination was not identified in any of the prior investigations of the Gas Instructional Area MRS. Results from the 2010 SI and this RI confirm that no MEC (including CWM) or MC (including CA or ABPs) is present at the site. For this reason, there are no MEC/MC results to report for this MRS.

4.2 2010 FIELD INVESTIGATIONS

4.2.1 2010 SI Anomaly Results

4.2.1.1 A DGM survey was conducted by Parsons in 2010 as part of an SI. The processed magnetic data are depicted on Figure 2.4. The results from the 2010 SI were used to determine the targets intrusively investigated during the RI. Table 4.1 lists the target anomalies and their coordinates. The locations of the targets are depicted on Figure 2.4.

Table 4.1
2010 Anomaly Information

Anomaly Identification	Easting (UTM) (meters) ¹	Northing (UTM) (meters) ¹	Peak Response (nT) ²	Trough Response (nT) ²	Analytic Signal Response (nT) ²	Length (meters)
1	616108.3	4293045.6	325	-20	423	4.0
2	616126.2	4293028.7	91	-25	205	5.2
3	616159.7	4293006.7	22	-61	127	3.9
4	616072.5	4293038.1	82	-57	304	2.6
5	616079.0	4292997.5	59	-17	96	3.8
6	616067.1	4292965.2	292	-90	178	3.1
7	616048.8	4292941.0	173	-59	207	2.4
8	616053.0	4292944.7	299	-111	309	4.4
9	616034.5	4292922.9	100	-104	435	3.4
10	616103.4	4293006.9	61	0	208	2.0
11	616051.5	4292927.9	2471	-98	741	10.0
12	616089.3	4292947.7	1703	-296	1487	15
13	616085.1	4292958.0	955	-92	444	9.5
14	616145.3	4292957.4	2056	-205	1343	9.7
15	616138.5	4292946.8	1338	-270	2159	10.5
16	616116.5	4292928.4	3042	-228	930	11
17	616142.7	4292925.3	10000	-16441	43170	17
18	616166.1	4292919.8	2090	-212	1225	12
19	616036.3	4292998.8	1293	-276	1769	9.3

¹ Universal Transverse Mercator

² nanotesla

4.2.1.2 The 2010 SI field data was collected along west-to-east transects spaced at 5-foot intervals.

4.3 ANOMALY REACQUISITION

4.3.0 The purpose of the reacquisition process was to mark the locations of the 19 subsurface geophysical anomalies identified in the 2010 SI and to mark the boundaries of the 3 test trenches to be investigated. During reacquisition, no anomaly was identified at the location of Anomaly #7. Further evaluation showed that Anomaly #7 was created as the result of a data interpretation error. To document the “no find,” a G858 magnetometer survey was conducted at the location of Anomaly #7. An in-depth review of the original DGM data found that a false anomaly had been created by leveling error over time gap/jump. Also, a 50-foot perimeter around Anomaly #7 was surveyed with the G858 magnetometer in accordance with the WP. The additional data acquisition included the following transects:

- One transect was completed running from south to north and directly over the reported anomaly. This transect included data acquisition at 10 feet south, 5 feet south, 0 feet, 5 feet north, and 10 feet north of the reported anomaly.
- Completion of approximately five north to south running transects over the reported anomaly area with the magnetometer in search mode. Each transect was approximately 50 feet in length and ran from approximately 25 feet south to 25 feet north of the reported Anomaly #7 location.

The coordinates of the three trench corners identified in the 2012 WP are presented in Table 4.2, and the coordinates of the remaining 18 targets identified in the 2010 SI are shown in Table 4.1, above.

Table 4.2
Trench Corners Identified in 2012 WP

Trench Number	Easting (UTM) (meters¹)	Northing (UTM) (meters¹)
Trench 1	616062.0	4292923
Trench 1	616077.2	4292923
Trench 1	616077.2	4292921
Trench 1	616062.0	4292921
Trench 2	616088.7	4292889
Trench 2	616103.8	4292889
Trench 2	616103.8	4292888
Trench 2	616088.7	4292888
Trench 3	616066.6	4292898
Trench 3	616068.3	4292898
Trench 3	616068.3	4292883
Trench 3	616066.6	4292883

¹ Universal Transverse Mercator, North American Datum 1983

4.3.0.1 The anomaly locations were marked with pin flagging by a reacquisition team consisting of a geophysical equipment operator and a UXO technician on July 12, 2012. The team surveyed a 3- to 5-foot radius around the reacquired coordinate locations to identify anomaly sources proximal to the marked location. If necessary, the flags were moved to mark the central position of the anomaly location. The flags were marked with the anomaly number. There were no unrecovered anomalies. However, as discussed above, Anomaly #7 was a “no find,” a conclusion confirmed by USACE. To further confirm that Anomaly #7 was a “no find,” a digital recording with the G858 magnetometer was acquired at the purported location of the anomaly. The raw data collected is included in Appendix E.

4.3.0.2 The locations of the 18 anomalies were marked using a post-processed kinematic global positioning system (GPS) device (Trimble GeoXH) capable of sub-meter accuracy. In addition, the peak and trough amplitudes of the target anomalies were listed in the data sheet used in the field (Table 4.1). The technician operating the G858 first verified that the location had an anomaly approximating the magnitude (difference between peak and trough values) reported on the anomaly table, and then located the mid-point between the peak and trough of the anomaly using the G858 magnetometer in a search mode. The true location of the anomaly (midpoint) was marked on the ground with a labeled pin flag. The G858 responses are shown in Table 4.3. Because the relative position of anomaly sources may be as much as 2.5 feet from one of the survey transects recorded in 2010, the reacquisition response may be different than the initial recorded anomaly magnitude presented in Table 4.1.

Table 4.3
2012 Reacquisition Response Information

Anomaly Identification ¹	Peak Response (nT) ²	Trough Response (nT) ²	Difference (nT) ²
1	52,957	52,591	366
2	52,715	52,540	175
3	52,750	52,670	80
4	52,580	52,460	120
5	52,520	52,460	60
6	35,930	35,580	350
8	52,920	52,510	410
9	52,604	52,445	159
10	52,680	52,610	70
11	56,004	53,280	2,724
12	56,890	52,890	4,000
13	54,006	52,653	1,353
14	55,380	52,390	2,990
15	55,780	52,175	3,605
16	54,681	52,280	2,401
17	60,000	35,000	25,000
18	57,004	54,125	2,879
19	53,320	51,915	1,405

¹ Anomaly #7 not shown because it was a “no find.”

² nanotesla

4.3.1 Data Collection

4.3.1.1 The geophysical data collected during the RI was for the QC test plot for the G858 magnetometer. The raw data is included on a CD-ROM provided as Appendix E.

4.3.1.2 To obtain a measure of the possible reacquisition response using the operational check target, a line of data points spaced at 2.5-foot intervals along a line running from 12.5 feet south of the staked target location to 10 feet north of the target location was recorded on July 11, 2012. This process yielded maximum and minimum magnetic responses, and the difference between the extremes was considered to be the magnitude of the anomaly. A similar magnitude was calculated for each anomaly that was reacquired. Because the magnetic field varies daily and yearly, the measured magnitude will be slightly different than the mapped responses. For each anomaly, the following was performed:

- At each flagged location, the difference between the peak and trough response was calculated and compared to the difference of peak and trough response from the 2010 Anomaly Information (Table 4.1).
- Measurements were repeated over the anomaly to establish the maximum and minimum response to the anomaly source (Table 4.3).
- Using the new data, the ground was marked with paint to indicate anomaly source.

4.3.1.3 The G858 was used in search mode along the length of the three planned trench locations to verify the presence of multiple anomalies, as were reported in the 2010 SI (USACE, 2010a). While traversing the planned trench locations multiple anomalies were observed. Individual anomaly results were not recorded.

4.3.2 Daily QC Tests

4.3.2.1 Daily QC testing was performed. The data for the QC testing are provided in Appendix F.

4.3.2.2 The G858 magnetometer was checked twice daily, pre- and post-field operations, using a QC test plot containing a 6-inch-diameter by 24-inch-long steel pipe. The pipe was buried such that its principal axis was horizontal and aligned to magnetic north-south, with a depth to top of target of 6 inches bgs. The center of the target was marked with a plastic stake (tent stake), leaving a 1-inch stickup. To check instrument function, a static magnetometer reading with a 12-inch stand-off height, 12.5 feet south of the target center, and a second reading with the same stand-off, 2.5 feet south of the staked location of the target, were recorded. Figure 4.1 presents the results of the G858 response over the QC test plot and presents a good example of the anomaly magnitude discussed in Section 4.3.1.

4.3.2.3 The peak responses were recorded in the daily log, and the difference was calculated and also recorded in the log. If the instrument was functioning properly, the difference between the readings did not vary by more than 20 percent. Table 4.4 presents the results of the daily QC testing. Table 4.5 presents the location of the QC target. The daily QC test results met the project requirements of 20 percent of the initial QC test plot survey responses.

Table 4.4
G858 Response Table for QC Test Plot

Distance from QC Target	G858 Peak Response (nT)
12.5 feet south	52,471
10 feet south	52,455
7.5 feet south	52,957
5 feet south	49,630
2.5 feet south	41,953
0 feet	62,336
2.5 feet north	56,518
5 feet north	53,714
7.5 feet north	52,547
10 feet north	52,560

Table 4.5
QC Target Location

Easting (UTM) (meters ¹)	Northing (UTM) (meters ¹)
616032.30	4292845.78

¹ Universal Transverse Mercator, North American Datum 1983

Note: The coordinates were centered on the QC target

4.3.2.4 During the 2012 RI field investigations, a deviation from the WP occurred regarding the QC of GPS equipment used in the reacquisition of subsurface anomalies. The GPS precision was not confirmed using a benchmark to ensure that the position was within the appropriate offset (submeter accuracy). However, the surveyed anomaly coordinates were used as a check on precision, not a benchmark. During the field investigation, the Trimble GeoXH coordinates were found to be approximately 2 meters east of the actual coordinates of the anomaly locations. These coordinates and apparent offset were verified using a Garmin Etrex GPS as well as a GPS program utilizing cellular phone technology. From this point forward, the field team used an offset of 2 meters to the west and was able to identify magnetic responses in the predicted anomaly locations. In all cases the anomalies were confirmed at this offset distance (on both July 11 and 12, 2012). For the trenches, each trench was located using the GPS, and its location was marked using this offset. In addition, the G858 magnetometer confirmed the presence of numerous magnetic anomalies in the trench areas. The deviation in the GPS procedure did not compromise the DQOs for this project. However, a noncompliance and corrective action report was submitted and accepted by USACE for this deviation. This report is included in Appendix F.

4.4 INTRUSIVE INVESTIGATIONS

4.4.1 Intrusive investigations were performed at each reacquired anomaly. The following procedures were used:

- A 3- to 5-foot radius around the midpoint of each anomaly was searched using a Schonstedt® fluxgate magnetometer to identify the center location of the anomaly source.
- Utilizing the initial excavation point, investigations proceeded using the Schonstedt® to locate the anomaly source.

4.4.2 Prior to and during intrusive investigations, the anomaly and trench areas were monitored with an 11.7-electron-volt photoionization detector. No detections were observed. The field teams excavated the test trenches using a backhoe. The soil was deposited on plastic sheeting spread on the ground. Two observers watched for signs of CAIS components and/or CWM shipping containers within the excavation and removed spoils. The observers were positioned to halt excavation activities using hand signals in case those items were found. The three test trenches were dug until no magnetic signature was found along the bottom of the trench. Each trench was 50 feet long and approximately 2 feet wide. Two technicians spread the soils on the plastic sheeting to identify materials recovered. Only other debris was identified (see Table 4.6). Photos of the other debris are provided in Appendix G.

4.4.3 MEC and/or MD, including CAIS shipping containers, were not identified through the intrusive investigations. Table 4.6 lists the items recovered and their depths.

Table 4.6
2012 Intrusive Investigation Results

Anomaly ID	Anomaly Description	Anomaly Depth (inches)
Anom_1	Concrete filled pipe	24
Anom_2	Gear housing	36
Anom_3	Pliers	1
Anom_4	Railroad spike	6
Anom_5	Metal stake	6
Anom_6	Rebar	12
Anom_8	Metal strap	12
Anom_9	Metal cable	8
Anom_10	Metal wire	6
Anom_11	Rebar	6
Anom_12	Rebar	2
Anom_13	Rebar	10
Anom_14	Rebar	18
Anom_15	Rebar	18
Anom_16	Rebar	10

Table 4.6 (continued)
2012 Intrusive Investigation Results

Anomaly ID	Anomaly Description	Anomaly Depth (inches)
Anom_17	Concrete footer	10
Anom_18	Rebar	6
Anom_19	Rebar	12
Anom_20, Trench 2, Segment 4	Strap metal	12
Anom_21, Trench 3	Motor part, tube, and wire	24
Anom_23, Trench 3	Bolt and nail	12
Anom_24, Trench 3	Bolt and nail	12
Trench 3, Segment 1, From North	Nothing found	12
Trench 1	Rusted metal flakes were found in the spoils in all of the 10-foot sections.	NA
Trench 2	Rusted metal flakes were observed throughout the trench.	NA
Trench 3	Small rusty metal flakes were observed in areas of trench where other debris was not recovered.	NA

NA = not applicable

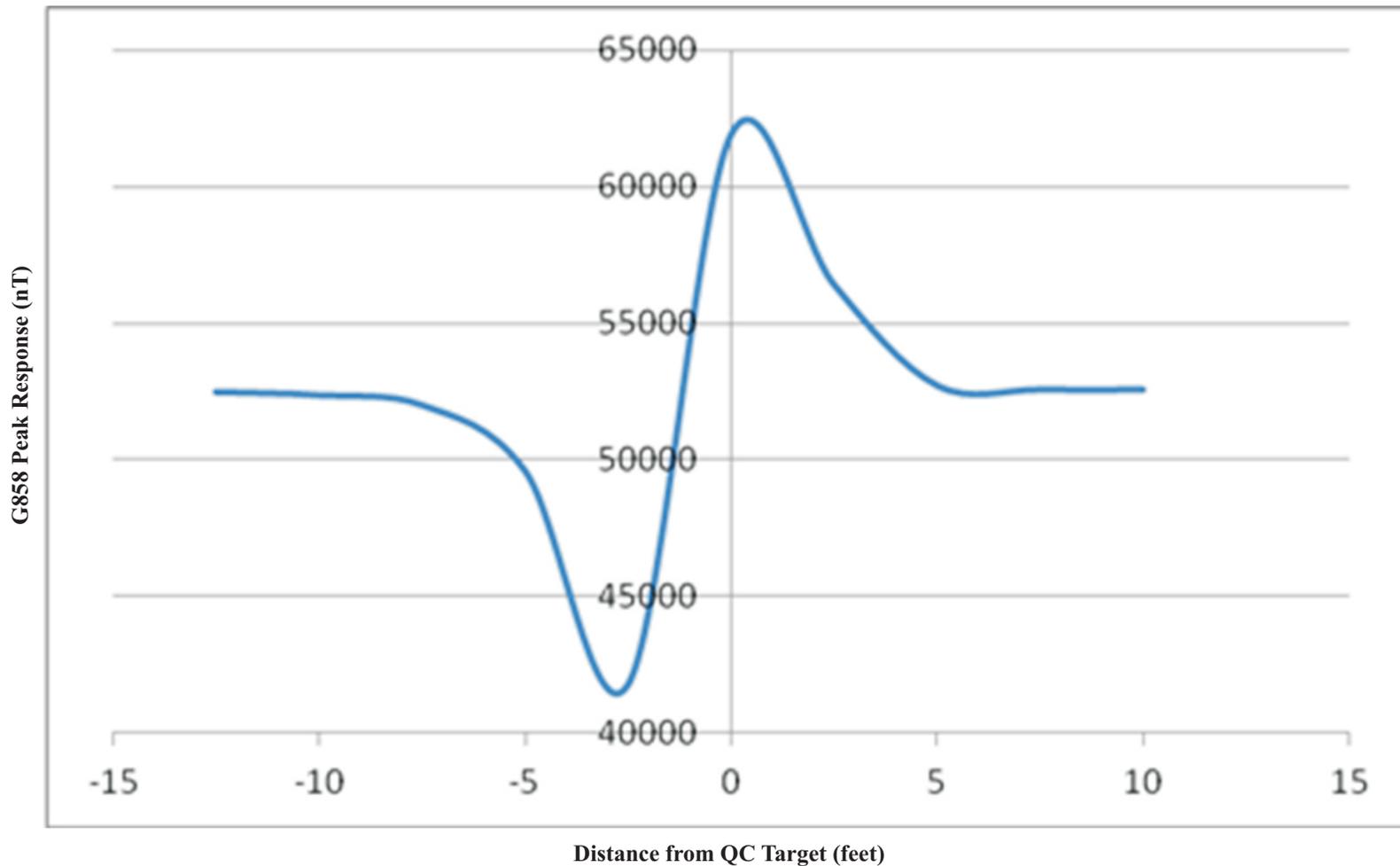
4.4.4 Figure 4.2 presents the trenches and anomaly locations where intrusive investigations occurred during the 2012 RI fieldwork. Photographs are presented in Appendix G. Items identified in the subsurface are marked and detailed on the figure to show what was found and where it was found. As described earlier, all target items encountered during this investigation were other debris. Upon investigation, the anomalies consisted of bolts, nails, rebar, and motor parts. In some instances, rebar and metal cable were found and noted in the anomaly descriptions, but they were not recovered because these materials did not represent an environmental hazard.

4.4.5 As discussed in Section 4.2.1, the trenches at the MRS were dug in areas of high magnetic response, which indicated the potential for large subsurface targets. Inside the trenches, only other debris was identified. Miscellaneous bits of unrecoverable metal were mixed with the soil in the trenches (rust flakes) and were responsible for the high magnetic response in the area. Additionally, upon further review of the data in conjunction with single point intrusive results, the large anomalies in the trench area could have been due to similar point sources, such as vertical rebar, which would not necessarily be recovered through narrow trenching.

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FIGURES

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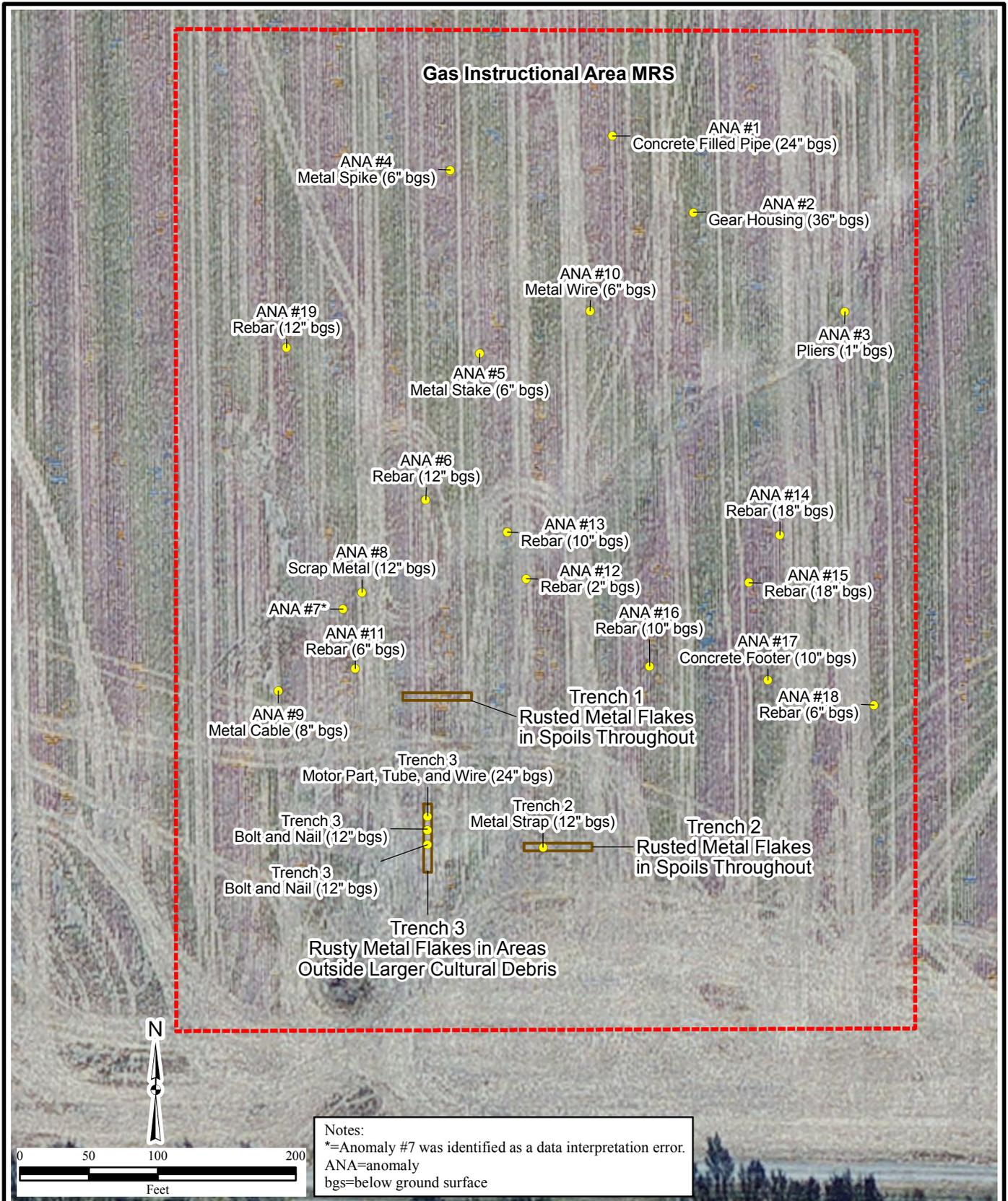


Note:
nT=nanoteslas

\\gst-srv-01\hglgis\Schilling_AFB\MSIW\RI\
(3-01)G858_Response.cdr
7/30/2012 CNL
Source: HGL

Figure 4.1
G858 Response of QC Test Plot





\\gst-srv-01\hg\gis\Schilling_AFB_MSIW\RI
 (4-02)RI_Results.mxd
 8/1/2012 CNL
 Source: HGL
 ArcGIS Online Bing Maps Aerial

Legend

- Anomaly
- Trench
- Munitions Response Site (MRS)

Figure 4.2
2012 RI Intrusive
Investigation Results

5.0 REVISED CONCEPTUAL SITE MODEL AND RI RESULTS

5.0.1 Surface reconnaissance surveys, a DGM survey, soil sampling, and intrusive magnetic anomaly investigations have been performed as part of the SI and RI to characterize the nature and extent of potential MEC, MD, and MC contamination within the MRS. The sections that follow summarize these investigations.

5.1 MPPEH/MEC CHARACTERIZATION RESULTS

5.1.1 MEC and MD were not discovered during the 2010 SI and 2012 RI field activities. Fieldwork performed during the 2010 SI identified discrete subsurface anomalies and an area of magnetic clutter in the Gas Instructional Area MRS. These anomalies and clutter were intrusively investigated during the 2012 RI fieldwork, and the 18 anomalies investigated were identified as other debris. In addition, the magnetic clutter area was examined through trenching in three areas. The trenching also revealed only other debris. As described in Section 4.4, large amounts of ferrous metal flakes were found spread throughout the trenches. These flakes were likely responsible for the high intensity magnetic responses observed during the 2010 SI. The metal flakes are a result of other debris affected by rust and do not pose a threat to human health or the environment.

5.2 MC SAMPLING RESULTS

5.2.1 MC sampling was conducted during the 2010 SI. The locations of the SI samples are presented on Figure 2.5. The results of that sampling are presented in the SI report (USACE, 2010a) and in Appendix B. The MC samples collected in 2010 were analyzed for mustard, 1,4-dithiane, 1,4-thioxane, and lewisite. These analytes were not detected at levels above laboratory practical quantitation limits during the 2010 SI. The data were validated as described in Appendix G of the SI report (USACE, 2010a) and determined to be useable for decision-making purposes. These results provide no evidence that a release of MC occurred at the site.

5.2.2 Table 4.6 lists the items located during the intrusive investigation. Photographs of items recovered or left in place are provided in Appendix G. All items were other debris. In addition, Anomaly #17 was coincident with a footer of a former transmission tower, and Anomalies #11 through #15, #16, and #18 were rebar that possibly were anchors for former transmission tower guy wires. MC sampling was not conducted during the 2012 RI fieldwork because there was no evidence that MEC (including CWM) or MD that could have resulted in a release of MC or CA were present on site.

5.3 REVISED CSM

5.3.0 Land use at the Gas Instructional Area MRS has not changed since the SI was completed in 2010. As described earlier, the site is used for farming. Access to the Gas Instructional Area MRS is restricted to site workers, and fencing encloses the site. The potential future land use at the MRS is not expected to change from the current land use.

5.3.0.1 The CSM, described in Section 3.1 and presented as Figure 3.1, has been revised based on the intrusive investigation data acquired in July 2012. The revised 2012 CSM is presented as

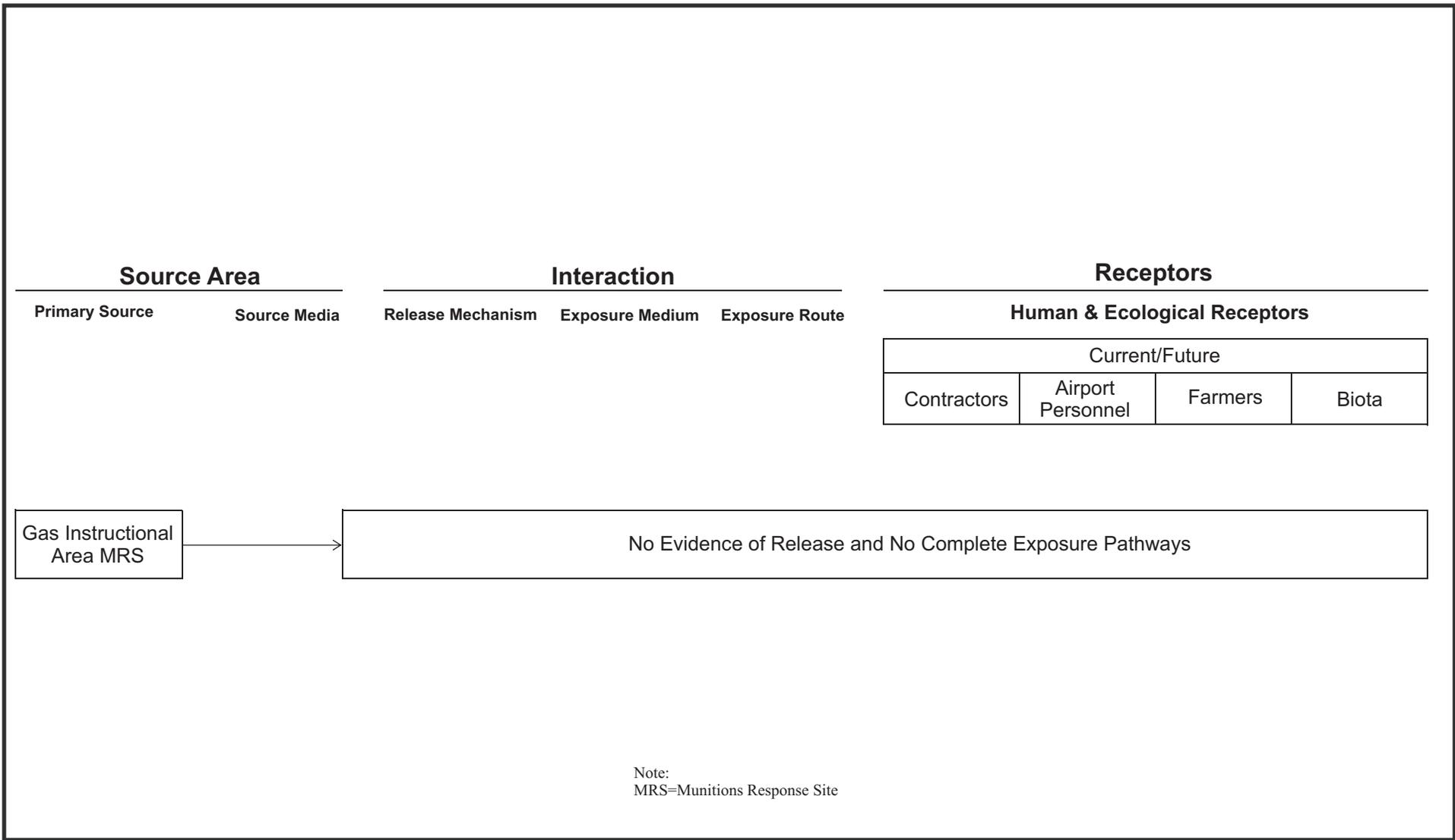
Figure 5.1. Because no evidence of a release at the site has been found, no sources are present in any media, and no interactions or receptors are indicated for MEC, MD, or CA at the site. Therefore, there are no complete exposure pathways.

5.3.1 MEC and MC Exposure

5.3.1.1 There is no historical or physical evidence to indicate a release of MEC (including CWM), MC, or CA on site. MEC, MC, or CA/ABP were not found during geophysical or intrusive investigations conducted as part of the 2010 SI or the 2012 RI. Therefore, no complete exposure pathways exist.

FIGURE

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\\gst-srv-01\hgl\gis\Schilling_AFB\MSIW\RI\
 (4)CSM.cdr
 7/24/2012 CNL
 Source: HGL



Figure 5.1
Revised Conceptual Site Model

6.0 CONTAMINANT FATE AND TRANSPORT

6.1 Contamination has not been identified in any investigation at the Gas Instructional Area MRS. Results from the 2010 SI and this RI confirm that there is no MEC, MC, CA, or CWM present at the site. For this reason, the fate and transport section does not apply to this MRS.

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7.0 BASELINE RISK ASSESSMENT

7.0.1 To characterize the risk associated with the Gas Instructional Area MRS, a baseline risk assessment was conducted. The risk assessment considers MEC and MC contamination and includes a MEC HA and a screening level assessment of potential MC contamination. The following sections detail the implications of the 2012 RI field investigation and the state of the MRS.

7.1 MEC HA SCORES

7.1.1 Contamination has not been identified in any investigation at the Gas Instructional Area MRS. Results from the 2010 SI and this RI confirm that there is no MEC, MC, CA, or CWM present at the site. The baseline hazard assessment section does not apply to this MRS because there is no risk to human health or to the environment. Subsurface anomalies identified during the 2010 SI were investigated during this RI and were shown to have been caused by other debris. For this reason, there is no current or historical evidence of MEC at this site, and a MEC HA score of zero (0) was assigned. MEC HA scoring sheets are not provided because there is no history or physical evidence identifying potential MPPEH at the site.

7.2 MRSPP SCORES

7.2.0 DoD developed the MRSP in response to a request from Congress in 2002 to establish a method for assigning a relative priority for response actions at DoD sites containing military munitions. This protocol was to be applied in a consistent manner within each facility, state, and region across the United States so that the indicated urgency to address these sites could be assessed on a common basis. The protocol is applicable to sites known or suspected to contain MEC (including UXO and DMM or MC). The sites may be located at active installations, at Base Realignment and Closure (BRAC) installations, or at FUDS. The final rule containing the MRSP was promulgated in the Federal Register on October 5, 2005, and was codified in 32 CFR § 179.

7.2.0.1 Sequencing MRSs for action is based primarily on the priorities determined using the MRSP. In general, an MRS that presents a greater relative risk to human health, safety, or the environment will be addressed before a site that presents a lesser relative risk. However, in accordance with the request from Congress, DoD was also required to consider other factors such as local land reuse needs, community interests, funding, and the availability of technologies to address specific risks.

7.2.0.2 A preliminary MRSP was developed for the Gas Instructional Area MRS during the 2010 SI. Subsequently, an evaluation of the MRSP scoring using MEC and MC data collected during the RI was completed for this report also. The MRSP rankings are used by DoD to prioritize sites for further actions. Priority rankings ranging from 1 to 8 are developed for each MRS. An MRS assigned a Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. In general, the lower the numerical ranking, the higher the priority given to the site. In compliance with 32 CFR § 179.5, the MRSP scores for the MRS will be finalized after stakeholders have been provided an opportunity to provide input. All MRSP worksheets are included as Appendix H.

7.2.1 Protocol Overview

7.2.1.1 The MRSPP was developed in three modules to evaluate the unique hazards posed by MEC and MC:

- The EHE module provides a single approach to evaluate explosive hazards. This module is used when there is a known or suspected presence of an explosive hazard. The module considers data elements relative to three factors—explosive hazard, accessibility, and potential effects on people.
- The CHE module evaluates the chemical hazards associated with the physiological effects of CWM. The CHE module is used only when CWM is known or suspected to be present at an MRS. This module considers data elements related to three factors—CWM hazard, accessibility, and potential effects on people.
- The HHE module evaluates relative risk to human health and the environment posed by MC and other non-munitions-related incidental contaminants. The module considers three factors—contamination hazard factor; potential effects on people, other living things and the environment; and migration pathway.

7.2.1.2 Each of the modules is scored from 38 to 100 and is assigned a rating from “G” (lowest) to “A” (highest). Besides the ratings, there are three other possible outcomes of scoring for each module: evaluation pending (insufficient data are available to conduct the scoring); no longer required (a response has already been conducted and completed); or no known or suspected hazard. Based on the results of the scoring for the three modules, each MRS is assigned one of eight priorities, where Priority 1 indicates the highest potential hazard and Priority 8 indicates the lowest potential hazard. The priorities do not have specific assigned actions. In other words, a Priority 1 does not indicate the need for an immediate removal action, and a Priority 8 does not indicate that no action is required.

7.2.2 Requirements to Review and Rescore Sites

7.2.2.1 MRSPPs were originally developed for the Gas Instructional Area MRS in October 2010. The MRSPP for the site was developed based on the EHE, CHE and HHE modules. The results of this MRSPP site scoring from the 2010 SI are presented in Table 7.1.

Table 7.1
2010 SI Report MRSPP Scores

MRS	Recommendation	Primary MEC	MRSPP Scores			
			EHE	CHE	HHE	Priority
Gas Instructional Area (B07KS025607)	Further Characterization	Historical documentation of CWM (mustard) use.	NK	6	NK	6

NK - no known or suspected hazards

7.2.2.2 During the 2012 RI, additional information on the potential for MEC in the MRS was collected through the intrusive investigation of anomalies identified in the 2010 SI. The initial selection of anomalies was based on readings from the 2010 geophysical data analysis that

suggested the presence of magnetic anomalies that were consistent with potential buried CAIS shipping containers. The MRSPP scores for this MRS were updated based on these findings.

7.2.3 Updated MRSPP Scores

7.2.3.1 DoD must review the priorities at all sites annually, and a site must be re-scored and its MRSPP updated if site conditions have changed or if new information becomes available. Using the information collected during the RI, the MRSPP scores that had originally been prepared for the MRS were updated. The updated MRSPP scoring sheets are presented in Appendix H. The updated priorities were based on the CHE module because of historical use of mustard agent. The EHE and HHE modules were not scored because there was no known or suspected MEC or MC at the MRS. The results of the updated MRSPP site scoring are presented in Table 7.2.

**Table 7.2
2012 RI Report MRSPP Scores**

MRS	Recommendation	Primary MEC	MRSPP Scores			
			EHE	CHE	HHE	Priority
Gas Instructional Area (B07KS025607)	No Further Characterization	No evidence of MEC at site.	NK	NK	NK	NK

NK - no known or suspected hazards

7.2.3.2 As indicated above, the overall priority for the MRSs was downgraded from a 6 to “no known or suspected hazard.” The downgrade in priority is a result of the CHE module scoring. The 2012 RI found no evidence of a release of MEC, MC, CA, or CWM at this MRS.

7.3 ECOLOGICAL RISK ASSESSMENT

7.3.1 The purpose of a screening-level ecological risk assessment (SLERA) is to evaluate the potential effects to ecological receptors caused by the releases of MC from the site. SLERAs are developed within the framework of an RI consistent with *Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments* (USEPA, 1997) and Engineering Manual (EM) 200-1-4, Volume II Environmental Evaluation (USACE, 2010b). However, since no releases of MEC, MD, MC, or CWM have been found at the former Gas Instructional Area MRS, a SLERA was not required.

7.3.2 The State of Kansas supports 16 federally listed threatened and endangered (T&E) species consisting of 13 animals and 3 plants (U.S. Fish and Wildlife Service [USFWS], 2009). According to the Kansas Department of Wildlife and Parks (KDWP) state database, five federally listed species are known to occur within Saline County. These species include three birds, one fish, and one insect. No T&E species were observed during the field activities. Based on a review of the Army Checklist for Important Ecological Places (USACE, 2006), the Gas Instructional Area MRS does not contain areas that could be defined as “important ecological places.” Given that “important ecological places” do not exist within this MRS, a SLERA was not required.

7.3.3 During the 2010 SI, a source of contamination related to past decontamination activities was not detected at the Gas Instructional Area MRS. As noted in the CSM, ecological receptors are not anticipated to be present in subsurface soil; therefore, although geophysical data identified potential CAIS burial locations, no risks to ecological receptors are known to be associated with this MRS.

7.3.4 For the Gas Instructional Area MRS there is no evidence of MEC, MD, MC, or CWM contamination, therefore, no ecological risk due to these materials is present. Also, the land in and surrounding the MRS is primarily used for agricultural purposes with little ecological habitat. For these reasons, there are no quantifiable risks associated with the surrounding ecology.

8.0 SUMMARY OF RESULTS

8.0.1 The scope of this RI includes one MRS where CA deployment is documented: FUDS Property No. B07KS0256, Project No. B07KS025607 (Gas Instructional Area). The RI report evaluated current site conditions to define the nature and extent of any MEC or CA contamination and to assess the potential risks to human health and the environment.

8.0.2 The Gas Instructional Area MRS is an 8.8-acre site in the southwestern portion of the former Schilling AFB within the fence line of the Salina Municipal Airport. The Gas Instructional Area MRS incorporates the former locations of a gas instruction building and decontamination area. Records indicate that an approximately 100-square-yard area was used for decontamination exercises involving liquid mustard agent on both the ground and in a building. The land surrounding the FUDS property consists of commercial, residential, and agricultural areas, and the land immediately surrounding the MRS is cultivated land with restricted access.

8.0.3 The field effort for this RI included the investigation of anomalies previously identified by DGM conducted during the 2010 SI. For this RI, the anomalies were intrusively investigated to determine whether these locations were used for CAIS disposal. Two types of CAIS test kits were of concern (1) K941 CAIS kits and (2) K951/K952 CAIS kits. CAIS kits were delivered to the site, but there is no evidence that they were disposed of on site.

8.0.4 The 2010 SI found no evidence of CA/ABP in soil; however, the geophysical investigation conducted as part of the SI suggested potential buried CAIS shipping containers in the subsurface soil. The anomalies identified during the 2010 SI were intrusively investigated as part of the 2012 RI investigation. Eighteen anomalies were investigated, and all were shown to be the result of other debris. Three trenches were dug to characterize the subsurface in areas where high magnetic responses were identified during the SI. Only other debris was found in the trenches, and each trench contained rusted metal flakes throughout the subsurface soil, which likely caused in the high magnetic responses during the 2010 SI. No evidence of MEC, MC, CA, or CWM was found at the Gas Instructional Area MRS.

8.1 MEC HA SCORING

8.1.1 As was the case with previous investigations, fieldwork conducted during this RI did not find evidence of MEC, MC, CA, or CWM contamination. Also, no documentation of MEC use at the site or in surrounding areas was found. Subsurface anomalies identified during the 2010 SI were intrusively investigated during this RI and were shown to have been caused by other debris. Based on these findings, a MEC HA score of zero (0) was assigned to the site.

8.2 MRSPP SCORING UPDATE

8.2.1 MRSPPs were originally developed for the Gas Instructional Area MRS in October 2010. The MRS priority for the site was developed based on the CHE module. The results of this MRSPP site scoring are presented in Table 7.1. The site was identified as a priority 6 because of the historical evidence linking CAIS test kits to the area and the historical use of the site for training and decontamination exercises.

8.2.2 During the RI, additional information on the potential for MEC in the MRS was collected through the intrusive investigation of anomalies identified in the 2010 SI. The initial selection of anomalies was based on DGM data collected during the 2010 SI, which suggested the potential for buried CAIS test kits. The MRSPP scores for this MRS were updated based on these 2012 RI findings and are presented in Table 7.2.

8.2.3 The overall priority for the MRSs was downgraded from 6 to “no known or suspected hazard.” The downgrade in priority is a result of CHE module scoring. The areas show no evidence for release of MEC, MC, CA, or CWM.

8.2.4 Based on these findings, there is no known or suspected hazard at the MRS. As such, there is no risk present to humans or the environment. The recommendation for this site is NDAI.

9.0 REFERENCES

- U.S. Army Corps of Engineers (USACE), 1991. DERP-FUDS Inventory Project Report (INPR), Former Schilling AFB, Kansas, Site No. B07KS025600. August.
- USACE, 2003. Archives Search Report for the Former Schilling AFB, Project No. B07KS025604, Salina, Kansas. May.
- USACE, 2004. Archives Search Report Supplement, Schilling AFB, FUDS Property No. B07KS0256. November.
- USACE, 2006. Army Checklist for Important Ecological Places.
- USACE, 2010a. Final Site Inspection Report, Schilling AFB, FUDS Property No. B07KS0256. August.
- USACE, 2010b. EM 200-1-4, Volume II, Environmental Evaluation.
- USACE, 2011. Determination of the Mishap Risk Management Probability for the Gas Instructional Area Military Munitions Response Site, Schilling AFB, FUDS Property No. B07KS0256.
- USACE, 2012. Final Public Involvement Plan for Remedial Investigation Gas Instruction Area, Former Shilling Air Force Base, Saline County, Kansas
- U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM)/Oak Ridge National Laboratory (ORNL), 1999. Technical Report. March.
- U.S. Census Bureau, 2009.
- U.S. Department of Agriculture (USDA), 2012. Custom Soil Resource Report, Saline County Kansas.
- U.S. Environmental Protection Agency (USEPA), 1997. *Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments*.
- U.S. Fish and Wildlife Service (USFWS), 2009.

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GLOSSARY OF TERMS

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Archives Search Report (ASR) – A detailed investigation report on past military munitions activities conducted on an installation. The principal purpose of the archives search is to assemble historical records and available field data, assess the potential presence of ordnance, and recommend follow-up actions at a DERP-FUDS. There are four general steps in an archives search: records search phase, site safety and health plan, site survey, and ASR including risk assessment.

Chemical Agent (CA) – A chemical compound (to include experimental compounds) that through its chemical properties produces lethal or other damaging effects on human beings and is intended for use in military operations to kill, seriously injure, or incapacitate persons through its physiological effects. Excluded are research, development, testing, and evaluation solutions; riot control agents; chemical defoliants and herbicides; smoke and other obscuration materials; flame and incendiary materials; and industrial chemicals. (32 CFR 179.3).

Chemical Warfare Materiel (CWM) – An item configured as munitions containing a chemical that is intended to kill, seriously injure, or incapacitate a person through its physiological effects. The term includes V- and G-series nerve agents or H-series (mustard) and L-series (lewisite [L]) blister agents in other-than-munitions configurations; and certain industrial chemicals (for example, hydrogen cyanide [AC], cyanogen chloride [CK], or carbonyl chloride [called phosgene or CG] configured as military munitions. Due to their hazards, prevalence, and military unique application, some CAIS kits, such as the K941/K942 CAIS kit, which contained neat agents, and the K945 CAIS kit, which contained nerve agents, are also considered CWM. CWM does not include riot control devices; chemical defoliants and herbicides; industrial chemicals (for example, AC, CK, or CG) not configured as munitions; smoke and other obscuration-producing items; flame and incendiary-producing items; or soil, water, debris, or other media contaminated with low concentrations of CAs where no CA hazards exist. (32 CFR 179.3).

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) – CERCLA authorizes federal action to respond to the release or threatened release of hazardous substances into the environment or a release or threat of release of a pollutant or contaminant into the environment that may present an imminent or substantial danger to public health or welfare. CERCLA was amended by the Superfund Amendments and Reauthorization Act (SARA) on October 17, 1986.

Defense Environmental Restoration Program (DERP) – DERP is a program that addresses hazardous substances, pollutants, contaminants, and, in some cases, military munitions remaining from past operations at military installations and FUDS. DERP was established by Section 211 of SARA (10 USC 2702-2706 and USC 2810-2811).

Discarded Military Munitions (DMM) – Military munitions that have been abandoned without proper disposal or removed from storage in a military magazine or other storage area for the purpose of disposal. The term does not include UXO, military munitions that are being held for future use or planned disposal, or military munitions that have been properly disposed of consistent with applicable environmental law and regulations. (10 USC 2710(e)(2)).

Formerly Used Defense Sites (FUDS) – A facility or site (property) that was under the jurisdiction of the Secretary of Defense and owned by, leased to, or otherwise possessed by the

United States at the time of actions leading to contamination by hazardous substances. According to DERP policy, the FUDS program is limited to those real properties that were transferred from DoD control prior to October 17, 1986. FUDS properties can be located within the 50 states, the District of Columbia, and territories, commonwealths, and possessions of the United States. (U.S. Army, ER 200-3-1, FUDS Program Policy).

Military Munitions – All ammunition products and components produced for or used by the armed forces for national defense and security, including ammunition products or components under the control of the DoD, Coast Guard, Department of Energy, and National Guard. The term includes confined gaseous, liquid, and solid propellants; explosives, pyrotechnics, chemical and riot control agents, smokes, and incendiaries, including bulk explosives and chemical warfare agents; chemical munitions, rockets, guided and ballistic missiles, bombs, warheads, mortar rounds, artillery ammunition, small-arms ammunition, grenades, mines, torpedoes, depth charges, cluster munitions and dispensers, demolition charges; and devices and components of any item thereof. The term does not include wholly inert items, improvised explosive devices, and nuclear weapons, nuclear devices, and nuclear components, other than non-nuclear components of nuclear devices that are managed under the nuclear weapons program of the Department of Energy after all required sanitization operations under the Atomic Energy Act of 1954 (42 USC 2011 et seq.) have been completed. (10 USC 101(e)(4)).

Military Munitions Response Program (MMRP) – Formerly known as the ordnance and explosives (OE) cleanup program, which was part of the DERP, the MMRP is the program under which DoD carries out environmental restoration activities. The MMRP is a category under the DERP that requires components to identify MRSs requiring action (10 USC 2710).

Munitions Constituents (MC) – Any materials originating from UXO, DMM, or other military munitions, including explosive and nonexplosive materials, and emission, degradation, or breakdown elements of such ordnance or munitions (10 U.S.C. 2710(e)(3)).

Munitions Debris (MD) – Remnants of munitions (for example, penetrators, projectiles, shell casings, links, fins) remaining after munitions use, demilitarization, or disposal.

Munitions and Explosives of Concern (MEC) – Specific categories of military munitions that may pose unique explosive safety risks, such as UXO, as defined in 10 USC 101(e)(5); DMM, as defined in 10 USC 2710(e)(2); or MCs, as defined in 10 USC 2710(e)(3), present in high enough concentrations to pose explosive hazard (32 CFR 179.3).

Munitions Response – Response actions, including investigations, removal actions, and remedial actions to address the explosive safety, human health, or environmental risks presented by UXO, DMM, or MC, or to support a determination that no removal or remedial action is required (32 CFR 179.3).

Munitions Response Site (MRS) – A discrete location within a munitions response area that is known to require a munitions response (32 CFR 179.3).

Stakeholder – Federal, state, and local officials, community organizations, property owners, and others having a personal interest or involvement, or having a monetary or commercial involvement in the real property that is to undergo a potential munitions response action.

Unexploded Ordnance (UXO) – Military munitions that (1) have been primed, fuzed, armed, or otherwise prepared for action; (2) have been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installation, personnel, or material; and (3) remain unexploded either by malfunction, design, or any other cause (10 USC 101(e)(5)).

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APPENDIX A

DOCUMENTATION OF DISPOSITION OF MATERIAL POTENTIALLY PRESENTING AN EXPLOSIVE HAZARD

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No MPPEH was recovered during RI field operations. No information is included in this Appendix.

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APPENDIX B

ANALYTICAL RESULTS TABLES AND QUALITY ASSURANCE/QUALITY CONTROL EVALUATIONS

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The following data are extracted from:

USACE, 2010a. Final Site Inspection Report, Schilling AFB, FUDS Property No. B07KS0256. August, Table 5.3. Data validation reports are also provided in the Site Inspection as Appendix G.

TABLE 5.3
SUMMARY OF ANALYTICAL RESULTS
GAS INSTRUCTION AREA MRS
FORMER SCHILLING AFB, SALINE COUNTY, KANSAS

Sample ID:	Date	Mustard	1,4-dithiane	1,4-thioxane	Lewisite*
SAFB-CWM-SS-12-18"-001	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-901**	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-002	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-003	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-004	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-005	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-006	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-007	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-008	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-009	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-010	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-011	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-911**	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-012	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-013	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-014	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-015	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-016	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-017	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-018	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-019	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
SAFB-CWM-SS-12-18"-020	6/16/2010	10 µg/kg U	100 µg/kg U	100 µg/kg U	100 µg/kg U
Laboratory PQLs =		10 µg/kg	100 µg/kg	100 µg/kg	100 µg/kg
Screening Levels =		10 µg/kg ^A	610,000 µg/kg ^B	610,000 µg/kg ^B	300 µg/kg ^A

Notes: A – Health-Based Environmental Screening Levels for Chemical Warfare Agents, USACHPPM/ORNL Technical Report, March 1999
 B – USEPA Regional Screening Levels, Residential Soil, May 2010
 U – Analyte was analyzed, but not detected above laboratory PQLs
 * Lewisite analysis suite includes CVAA and CVAO
 **Duplicate of sample above

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APPENDIX C
INSTITUTIONAL ANALYSIS REPORT

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An institutional analysis report is not required for this RI as described in Section 3.5.

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APPENDIX D

DEMOLITION ACTIVITY SUMMARY TABLES

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No demolition activity was performed for this RI.

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APPENDIX E
GEOPHYSICAL DATA

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The CD attached contains the data downloaded from the Geonics 858 magnetometer on 7/11/2012 and 7/12/2012. Field notes recorded by the geophysicist and the geophysics Access database are also included on the CD. The printed material includes all the non-binary files on the CD as well as the field notes and Access database tables. The printed Access database tables include only those columns that contain data. Blank tables were also not printed for this Appendix.

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2

Location Salina KS Date 7/11/2012

Project / Client Schilling

notes by Tianna Rasmussen (TR)

- 0700 Rob Paoletti (R.P.)
Ron Mulvey (RM)
Dave Esari (DE)
Tianna Rasmussen (TR)
Prsnl meet @ hotel
- 0710 leave hotel to meet @
airport terminal.
- 0730 meeting @ terminal for site
controls w/ (ST)
Steve Tewhill, Tim
Rogers and Kenny Becker.
-site access limited to
Water Well Rd.
- 0810 end meeting
- 0815 RP, RM, TR, DE and ST
mob. to site.
- 0825 arrive at site, gate P7
unload equip @ site bldg
(staging area)
- 0850 safety briefing w/R.P.
- 0910 RP & TR to site survey
area.
- 0920 dig and place QC seed
after cleared w/Schradst.

Location Salina KS Date 7/11/2012³
Project / Client Schilling
notes by TR Scale _____

QC seed location:
4292 834.44m N,
616035.58m E

1010 begin target locating
1130 complete prelim target
location of 19 targets
and 3 trenches.

1135 back to stage area
1140 lunch
1206 Mag 858 arrives.
Setup 858, CIN: 29730
Sensor 1: CIN: C893

1340 begin QC check of Mag 858
File 1:
@ 12.5' south of QC seed
= 50300 Line Ø
Line 1: retry static @ 12.5'S
= 52568.75 nT
Line 2: moved to 2.5'S
- no static
Line 3: @ 2.5'S ≈ 55290
- stop recording. walk around
and field check.
@ 12.5 S = 53543.80, 53545.80
@ 2.5 S = 56146 (not level)
- after running the 858
on observe, found an
anomaly buried close to
QC seed (pipeline)
- relocate QC seed item

4

Location Salina KS Date 7/11/2012

Project / Client Schilling

notes by TR

1430 clear area w/ Mag 858
bury QC seed item 6" below
ground surface

12.5' S = 53475, 53473

2.5' S = 47530, 47506

- QC seed location:

4292845.78N

616032.30 E (Mag 83)

7.5' S = 53040, 53039

- Record every 2.5' over QC
seed (S-N)

File 2:

Line 0 = 12.5' S

52471, 52470

Line 1 = 10' S

52455, 52454

Line 2 = 7.5' S

52596, 52597

Line 3 = 5.0 S

49630, 49543

Line 4 = 2.5 S

41953, 41125

Line 5 = 0

161515, 62336

Location Salina KS Date 7/11/2012⁵

Project / Client Schilling

notes by TR Scale _____

Line 6 = 2.5' N
56243, 56518

Line 7 = 5' N
53714, 52717

Line 8 = 7.5' N
52546, 52547

Line 9 = 10.0' N
52559, 52560

For daily QC tests use 12.5' S
and 5.0' S = difference of
9841 nT

1550 return to stage area
1601 leave site / end of day

TR

7/11/2012

Location Salina KS Date 7/12/12
Project / Client Schilling
notes by T.R. Geophysics

0600 morning safety briefing w/R.P.
0700 AM Mag 858 QC over

QC seed Test area
In "Search Mode" w/ 1' sensor standoff height.

@ 12.5' S:
52488
Diff = 17 nT = good

@ 5' S:
50630 nT
Diff = 12.5 - 5' = 1858 nT

redo AM QC.
@ 12.5' S = 52493

@ 5' S = 50670
Diff = 1823

reboot, reconnect.
@ 12.5' S = 52488
@ 5.0' S = 50141
Diff = 2347 nT
within 20% of 2841 nT ✓

Begin Reacq.
Target No P:
P = 5295T
T = 52591

Location Salina KS Date 7/12/12
 Project / Client Schilling
geophysics TR Scale

Diff = 340 nT ✓
 Reacg. Target No. 2:
~~P = 52750~~ 52750
 T = 52715
 T = 52540

Diff = 175 nT ✓
 Target No 3:
 P: 52750
 T: 52670
 Diff = 80

Target No 10:
 P = 52680
 T = 52610
 Diff = 70 nT

Target No 5:
~~P = 52520~~ 52520
 T = 52460
 Diff = 80 nT

Target No 4:
 P = 52580
 T = 52460
 Diff = 120 nT

Target No. 19:
 P = 53320
 T = 51915
 Diff = 1465 nT

Target No 9:
 P: 52604
 T: 52445
 Diff = 159 nT

8

Location Salina KS Date 7/12/12

Project / Client Schilling RT

Geophysics notes: TR

Target No 11:

P: 56004

T: 53280

Diff = 2324 nT

Target No 8 @

P: ~~52920~~ (P)

T: ~~52710~~ ~~52410~~ P: 52920, 52510

Diff = 410

Diff = ~~210~~ nT (P) 52510 52410

Target No 8: No 7?

P: no find @ No. 7

T: _____ (TR)

Diff =

Target No 6:

P: 35930

T: 35580

Diff. = 350 nT

1100 lunch

1130 end lunch

1140 meet backhoe operator, mob.

backhoe onsite.

1200 RP & ST train on backhoe

1225 begin reacq.

Target No. 13:

~~TR~~

Location Salina KS Date 7/12/12
 Project / Client Schilling RT
geophysics notes: TR Scale

P: 54004
 T: 52653
 Diff: 1353 nT

Target No. 12:
 P: 56890 @
 T: 52890
 Diff: TR

Target No. 15 @ 16
 P: 54681
 T: 52280
 Diff = 2401 nT

Target No. 14
 P: 55380
 T: 52390
 Diff = 2990 nT

Target No. 15:
 P: 52 @ 55780
 T: 52175
 Diff = 3605

Target No. 17
 P: 35000 @ 60000
 T: 35000
 Diff: 25000

Target No. 18:
 P: 57004
 T: 54125
 Diff: 2879

Record dataset 1 over Target No. 7.
 File 1 Line 1 @ 10' S
 Line 1 @ 5' S

10

Location Salina KS Date 7/12/12

Project / Client Schilling RI

geophysics notes: TR

- Line 2: @ 0'
- Line 3: @ 5' N
- Line 4: @ 10' N

1400 end of day QC

12.5' @ ~~5'S~~ = 52438

@ 5'S = 50019

Diff = 2419 = good ✓

1420 unload equip. @ staging area

1430 offsite. End ops.

Handwritten signature

7/12/2012

GEONICS 858 OUTPUT

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HGL—Remedial Investigation—Former Schilling Air Force Base, Kansas

/	X	Y	READING_1	TIME	DATE	LINE	MARK
LINE 4							
	4.000	2.485	52559.766	13:06:53.20	07/12/12	4	0
	4.000	2.455	52559.793	13:06:53.10	07/12/12	4	0
	4.000	2.426	52559.802	13:06:53.00	07/12/12	4	0
	4.000	2.396	52559.708	13:06:52.90	07/12/12	4	0
	4.000	2.366	52559.866	13:06:52.80	07/12/12	4	0
	4.000	2.336	52560.062	13:06:52.70	07/12/12	4	0
	4.000	2.307	52560.267	13:06:52.60	07/12/12	4	0
	4.000	2.277	52560.332	13:06:52.50	07/12/12	4	0
	4.000	2.247	52560.146	13:06:52.40	07/12/12	4	0
	4.000	2.217	52559.767	13:06:52.30	07/12/12	4	0
	4.000	2.188	52559.766	13:06:52.20	07/12/12	4	0
	4.000	2.158	52560.195	13:06:52.10	07/12/12	4	0
	4.000	2.128	52560.353	13:06:52.00	07/12/12	4	0
	4.000	2.098	52560.399	13:06:51.90	07/12/12	4	0
	4.000	2.068	52560.308	13:06:51.80	07/12/12	4	0
	4.000	2.039	52560.178	13:06:51.70	07/12/12	4	0
	4.000	2.009	52560.059	13:06:51.60	07/12/12	4	0
	4.000	1.979	52560.006	13:06:51.50	07/12/12	4	0
	4.000	1.949	52559.887	13:06:51.40	07/12/12	4	0
	4.000	1.920	52559.997	13:06:51.30	07/12/12	4	0
	4.000	1.890	52559.970	13:06:51.20	07/12/12	4	0
	4.000	1.860	52559.991	13:06:51.10	07/12/12	4	0
	4.000	1.830	52559.867	13:06:51.00	07/12/12	4	0
	4.000	1.801	52559.745	13:06:50.90	07/12/12	4	0
	4.000	1.771	52559.716	13:06:50.80	07/12/12	4	0
	4.000	1.741	52559.763	13:06:50.70	07/12/12	4	0
	4.000	1.711	52559.964	13:06:50.60	07/12/12	4	0
	4.000	1.682	52560.146	13:06:50.50	07/12/12	4	0
	4.000	1.652	52560.365	13:06:50.40	07/12/12	4	0
	4.000	1.622	52560.501	13:06:50.30	07/12/12	4	0
	4.000	1.592	52560.348	13:06:50.20	07/12/12	4	0
	4.000	1.563	52559.954	13:06:50.10	07/12/12	4	0
	4.000	1.533	52559.775	13:06:50.00	07/12/12	4	0
	4.000	1.503	52560.242	13:06:49.90	07/12/12	4	0
	4.000	1.473	52560.440	13:06:49.80	07/12/12	4	0
	4.000	1.443	52560.423	13:06:49.70	07/12/12	4	0
	4.000	1.414	52560.372	13:06:49.60	07/12/12	4	0
	4.000	1.384	52560.297	13:06:49.50	07/12/12	4	0
	4.000	1.354	52560.187	13:06:49.40	07/12/12	4	0
	4.000	1.324	52560.150	13:06:49.30	07/12/12	4	0
	4.000	1.295	52560.185	13:06:49.20	07/12/12	4	0
	4.000	1.265	52560.080	13:06:49.10	07/12/12	4	0
	4.000	1.235	52560.065	13:06:49.00	07/12/12	4	0
	4.000	1.205	52560.017	13:06:48.90	07/12/12	4	0
	4.000	1.176	52559.935	13:06:48.80	07/12/12	4	0
	4.000	1.146	52559.943	13:06:48.70	07/12/12	4	0
	4.000	1.116	52559.967	13:06:48.60	07/12/12	4	0
	4.000	1.086	52560.107	13:06:48.50	07/12/12	4	0
	4.000	1.057	52560.348	13:06:48.40	07/12/12	4	0
	4.000	1.027	52560.471	13:06:48.30	07/12/12	4	0
	4.000	0.997	52560.549	13:06:48.20	07/12/12	4	0
	4.000	0.967	52560.311	13:06:48.10	07/12/12	4	0
	4.000	0.938	52559.959	13:06:48.00	07/12/12	4	0

HGL—Remedial Investigation—Former Schilling Air Force Base, Kansas

4.000	0.908	52559.847	13:06:47.90	07/12/12	4	0
4.000	0.878	52560.181	13:06:47.80	07/12/12	4	0
4.000	0.848	52560.349	13:06:47.70	07/12/12	4	0
4.000	0.818	52560.379	13:06:47.60	07/12/12	4	0
4.000	0.789	52560.301	13:06:47.50	07/12/12	4	0
4.000	0.759	52560.178	13:06:47.40	07/12/12	4	0
4.000	0.729	52560.037	13:06:47.30	07/12/12	4	0
4.000	0.699	52560.004	13:06:47.20	07/12/12	4	0
4.000	0.670	52560.124	13:06:47.10	07/12/12	4	0
4.000	0.640	52560.266	13:06:47.00	07/12/12	4	0
4.000	0.610	52560.378	13:06:46.90	07/12/12	4	0
4.000	0.580	52560.396	13:06:46.80	07/12/12	4	0
4.000	0.551	52560.399	13:06:46.70	07/12/12	4	0
4.000	0.521	52560.342	13:06:46.60	07/12/12	4	0
4.000	0.491	52560.321	13:06:46.50	07/12/12	4	0
4.000	0.461	52560.283	13:06:46.40	07/12/12	4	0
4.000	0.432	52560.034	13:06:46.30	07/12/12	4	0
4.000	0.402	52559.991	13:06:46.20	07/12/12	4	0
4.000	0.372	52559.926	13:06:46.10	07/12/12	4	0
4.000	0.342	52559.728	13:06:46.00	07/12/12	4	0
4.000	0.313	52559.728	13:06:45.90	07/12/12	4	0
4.000	0.283	52559.658	13:06:45.80	07/12/12	4	0
4.000	0.253	52559.645	13:06:45.70	07/12/12	4	0
4.000	0.223	52559.662	13:06:45.60	07/12/12	4	0
4.000	0.193	52559.631	13:06:45.50	07/12/12	4	0
4.000	0.164	52559.569	13:06:45.40	07/12/12	4	0
4.000	0.134	52559.443	13:06:45.30	07/12/12	4	0
4.000	0.104	52559.508	13:06:45.20	07/12/12	4	0
4.000	0.074	52559.498	13:06:45.10	07/12/12	4	0
4.000	0.045	52559.560	13:06:45.00	07/12/12	4	0
4.000	0.015	52559.524	13:06:44.90	07/12/12	4	0
LINE 3						
3.000	0.012	52557.719	13:06:40.90	07/12/12	3	0
3.000	0.037	52557.671	13:06:40.80	07/12/12	3	0
3.000	0.061	52557.750	13:06:40.70	07/12/12	3	0
3.000	0.086	52557.675	13:06:40.60	07/12/12	3	0
3.000	0.110	52557.764	13:06:40.50	07/12/12	3	0
3.000	0.135	52557.733	13:06:40.40	07/12/12	3	0
3.000	0.159	52557.783	13:06:40.30	07/12/12	3	0
3.000	0.184	52557.792	13:06:40.20	07/12/12	3	0
3.000	0.208	52557.704	13:06:40.10	07/12/12	3	0
3.000	0.233	52557.709	13:06:40.00	07/12/12	3	0
3.000	0.257	52557.692	13:06:39.90	07/12/12	3	0
3.000	0.282	52557.688	13:06:39.80	07/12/12	3	0
3.000	0.306	52557.665	13:06:39.70	07/12/12	3	0
3.000	0.331	52557.692	13:06:39.60	07/12/12	3	0
3.000	0.355	52557.699	13:06:39.50	07/12/12	3	0
3.000	0.380	52557.596	13:06:39.40	07/12/12	3	0
3.000	0.404	52557.520	13:06:39.30	07/12/12	3	0
3.000	0.429	52557.512	13:06:39.20	07/12/12	3	0
3.000	0.453	52557.524	13:06:39.10	07/12/12	3	0
3.000	0.478	52557.545	13:06:39.00	07/12/12	3	0
3.000	0.502	52557.644	13:06:38.90	07/12/12	3	0
3.000	0.527	52557.585	13:06:38.80	07/12/12	3	0
3.000	0.551	52557.630	13:06:38.70	07/12/12	3	0

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3.000	0.576	52557.654	13:06:38.60	07/12/12	3	0
3.000	0.600	52557.607	13:06:38.50	07/12/12	3	0
3.000	0.625	52557.641	13:06:38.40	07/12/12	3	0
3.000	0.650	52557.630	13:06:38.30	07/12/12	3	0
3.000	0.674	52557.663	13:06:38.20	07/12/12	3	0
3.000	0.699	52557.666	13:06:38.10	07/12/12	3	0
3.000	0.723	52557.640	13:06:38.00	07/12/12	3	0
3.000	0.748	52557.524	13:06:37.90	07/12/12	3	0
3.000	0.772	52557.480	13:06:37.80	07/12/12	3	0
3.000	0.797	52557.487	13:06:37.70	07/12/12	3	0
3.000	0.821	52557.603	13:06:37.60	07/12/12	3	0
3.000	0.846	52557.719	13:06:37.50	07/12/12	3	0
3.000	0.870	52557.801	13:06:37.40	07/12/12	3	0
3.000	0.895	52557.920	13:06:37.30	07/12/12	3	0
3.000	0.919	52557.978	13:06:37.20	07/12/12	3	0
3.000	0.944	52557.921	13:06:37.10	07/12/12	3	0
3.000	0.968	52557.944	13:06:37.00	07/12/12	3	0
3.000	0.993	52557.947	13:06:36.90	07/12/12	3	0
3.000	1.017	52557.920	13:06:36.80	07/12/12	3	0
3.000	1.042	52557.933	13:06:36.70	07/12/12	3	0
3.000	1.066	52557.964	13:06:36.60	07/12/12	3	0
3.000	1.091	52557.910	13:06:36.50	07/12/12	3	0
3.000	1.115	52557.917	13:06:36.40	07/12/12	3	0
3.000	1.140	52557.910	13:06:36.30	07/12/12	3	0
3.000	1.164	52557.984	13:06:36.20	07/12/12	3	0
3.000	1.189	52557.891	13:06:36.10	07/12/12	3	0
3.000	1.213	52557.968	13:06:36.00	07/12/12	3	0
3.000	1.238	52557.886	13:06:35.90	07/12/12	3	0
3.000	1.262	52557.924	13:06:35.80	07/12/12	3	0
3.000	1.287	52557.940	13:06:35.70	07/12/12	3	0
3.000	1.311	52557.950	13:06:35.60	07/12/12	3	0
3.000	1.336	52557.967	13:06:35.50	07/12/12	3	0
3.000	1.360	52557.958	13:06:35.40	07/12/12	3	0
3.000	1.385	52557.924	13:06:35.30	07/12/12	3	0
3.000	1.409	52557.926	13:06:35.20	07/12/12	3	0
3.000	1.434	52557.915	13:06:35.10	07/12/12	3	0
3.000	1.458	52557.948	13:06:35.00	07/12/12	3	0
3.000	1.483	52557.920	13:06:34.90	07/12/12	3	0
3.000	1.507	52557.873	13:06:34.80	07/12/12	3	0
3.000	1.532	52557.900	13:06:34.70	07/12/12	3	0
3.000	1.556	52557.906	13:06:34.60	07/12/12	3	0
3.000	1.581	52557.872	13:06:34.50	07/12/12	3	0
3.000	1.605	52557.886	13:06:34.40	07/12/12	3	0
3.000	1.630	52557.828	13:06:34.30	07/12/12	3	0
3.000	1.654	52557.888	13:06:34.20	07/12/12	3	0
3.000	1.679	52557.873	13:06:34.10	07/12/12	3	0
3.000	1.703	52557.815	13:06:34.00	07/12/12	3	0
3.000	1.728	52557.914	13:06:33.90	07/12/12	3	0
3.000	1.752	52557.914	13:06:33.80	07/12/12	3	0
3.000	1.777	52557.931	13:06:33.70	07/12/12	3	0
3.000	1.801	52557.876	13:06:33.60	07/12/12	3	0
3.000	1.826	52557.893	13:06:33.50	07/12/12	3	0
3.000	1.850	52557.910	13:06:33.40	07/12/12	3	0
3.000	1.875	52557.900	13:06:33.30	07/12/12	3	0
3.000	1.900	52557.854	13:06:33.20	07/12/12	3	0

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3.000	1.924	52557.793	13:06:33.10	07/12/12	3	0
3.000	1.949	52557.832	13:06:33.00	07/12/12	3	0
3.000	1.973	52557.832	13:06:32.90	07/12/12	3	0
3.000	1.998	52557.835	13:06:32.80	07/12/12	3	0
3.000	2.022	52557.831	13:06:32.70	07/12/12	3	0
3.000	2.047	52557.797	13:06:32.60	07/12/12	3	0
3.000	2.071	52557.760	13:06:32.50	07/12/12	3	0
3.000	2.096	52557.783	13:06:32.40	07/12/12	3	0
3.000	2.120	52557.749	13:06:32.30	07/12/12	3	0
3.000	2.145	52557.734	13:06:32.20	07/12/12	3	0
3.000	2.169	52557.725	13:06:32.10	07/12/12	3	0
3.000	2.194	52557.698	13:06:32.00	07/12/12	3	0
3.000	2.218	52557.620	13:06:31.90	07/12/12	3	0
3.000	2.243	52557.634	13:06:31.80	07/12/12	3	0
3.000	2.267	52557.623	13:06:31.70	07/12/12	3	0
3.000	2.292	52557.640	13:06:31.60	07/12/12	3	0
3.000	2.316	52557.698	13:06:31.50	07/12/12	3	0
3.000	2.341	52557.756	13:06:31.40	07/12/12	3	0
3.000	2.365	52557.739	13:06:31.30	07/12/12	3	0
3.000	2.390	52557.778	13:06:31.20	07/12/12	3	0
3.000	2.414	52557.816	13:06:31.10	07/12/12	3	0
3.000	2.439	52557.817	13:06:31.00	07/12/12	3	0
3.000	2.463	52557.797	13:06:30.90	07/12/12	3	0
3.000	2.488	52557.753	13:06:30.80	07/12/12	3	0
LINE 2						
2.000	2.487	52558.720	13:06:26.60	07/12/12	2	0
2.000	2.462	52558.720	13:06:26.50	07/12/12	2	0
2.000	2.438	52558.729	13:06:26.40	07/12/12	2	0
2.000	2.413	52558.688	13:06:26.30	07/12/12	2	0
2.000	2.388	52558.702	13:06:26.20	07/12/12	2	0
2.000	2.362	52558.681	13:06:26.10	07/12/12	2	0
2.000	2.337	52558.714	13:06:26.00	07/12/12	2	0
2.000	2.313	52558.723	13:06:25.90	07/12/12	2	0
2.000	2.288	52558.764	13:06:25.80	07/12/12	2	0
2.000	2.263	52558.714	13:06:25.70	07/12/12	2	0
2.000	2.237	52558.703	13:06:25.60	07/12/12	2	0
2.000	2.212	52558.724	13:06:25.50	07/12/12	2	0
2.000	2.188	52558.710	13:06:25.40	07/12/12	2	0
2.000	2.163	52558.760	13:06:25.30	07/12/12	2	0
2.000	2.138	52558.777	13:06:25.20	07/12/12	2	0
2.000	2.112	52558.803	13:06:25.10	07/12/12	2	0
2.000	2.087	52558.775	13:06:25.00	07/12/12	2	0
2.000	2.063	52558.815	13:06:24.90	07/12/12	2	0
2.000	2.038	52558.812	13:06:24.80	07/12/12	2	0
2.000	2.013	52558.853	13:06:24.70	07/12/12	2	0
2.000	1.988	52558.799	13:06:24.60	07/12/12	2	0
2.000	1.962	52558.840	13:06:24.50	07/12/12	2	0
2.000	1.938	52558.869	13:06:24.40	07/12/12	2	0
2.000	1.913	52558.811	13:06:24.30	07/12/12	2	0
2.000	1.888	52558.828	13:06:24.20	07/12/12	2	0
2.000	1.863	52558.824	13:06:24.10	07/12/12	2	0
2.000	1.837	52558.795	13:06:24.00	07/12/12	2	0
2.000	1.813	52558.788	13:06:23.90	07/12/12	2	0
2.000	1.788	52558.764	13:06:23.80	07/12/12	2	0
2.000	1.763	52558.731	13:06:23.70	07/12/12	2	0

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2.000	1.738	52558.721	13:06:23.60	07/12/12	2	0
2.000	1.712	52558.775	13:06:23.50	07/12/12	2	0
2.000	1.688	52558.770	13:06:23.40	07/12/12	2	0
2.000	1.663	52558.811	13:06:23.30	07/12/12	2	0
2.000	1.638	52558.852	13:06:23.20	07/12/12	2	0
2.000	1.613	52558.821	13:06:23.10	07/12/12	2	0
2.000	1.587	52558.887	13:06:23.00	07/12/12	2	0
2.000	1.563	52558.934	13:06:22.90	07/12/12	2	0
2.000	1.538	52558.921	13:06:22.80	07/12/12	2	0
2.000	1.513	52558.935	13:06:22.70	07/12/12	2	0
2.000	1.488	52558.932	13:06:22.60	07/12/12	2	0
2.000	1.462	52558.928	13:06:22.50	07/12/12	2	0
2.000	1.438	52558.938	13:06:22.40	07/12/12	2	0
2.000	1.413	52558.931	13:06:22.30	07/12/12	2	0
2.000	1.388	52558.890	13:06:22.20	07/12/12	2	0
2.000	1.363	52558.838	13:06:22.10	07/12/12	2	0
2.000	1.337	52558.751	13:06:22.00	07/12/12	2	0
2.000	1.313	52558.740	13:06:21.90	07/12/12	2	0
2.000	1.288	52558.703	13:06:21.80	07/12/12	2	0
2.000	1.263	52558.703	13:06:21.70	07/12/12	2	0
2.000	1.238	52558.652	13:06:21.60	07/12/12	2	0
2.000	1.212	52558.671	13:06:21.50	07/12/12	2	0
2.000	1.188	52558.648	13:06:21.40	07/12/12	2	0
2.000	1.163	52558.751	13:06:21.30	07/12/12	2	0
2.000	1.138	52558.716	13:06:21.20	07/12/12	2	0
2.000	1.113	52558.702	13:06:21.10	07/12/12	2	0
2.000	1.087	52558.727	13:06:21.00	07/12/12	2	0
2.000	1.063	52558.750	13:06:20.90	07/12/12	2	0
2.000	1.038	52558.746	13:06:20.80	07/12/12	2	0
2.000	1.013	52558.700	13:06:20.70	07/12/12	2	0
2.000	0.988	52558.656	13:06:20.60	07/12/12	2	0
2.000	0.963	52558.570	13:06:20.50	07/12/12	2	0
2.000	0.938	52558.507	13:06:20.40	07/12/12	2	0
2.000	0.912	52558.446	13:06:20.30	07/12/12	2	0
2.000	0.887	52558.350	13:06:20.20	07/12/12	2	0
2.000	0.863	52558.328	13:06:20.10	07/12/12	2	0
2.000	0.838	52558.291	13:06:20.00	07/12/12	2	0
2.000	0.813	52558.316	13:06:19.90	07/12/12	2	0
2.000	0.787	52558.388	13:06:19.80	07/12/12	2	0
2.000	0.762	52558.417	13:06:19.70	07/12/12	2	0
2.000	0.738	52558.465	13:06:19.60	07/12/12	2	0
2.000	0.713	52558.427	13:06:19.50	07/12/12	2	0
2.000	0.688	52558.405	13:06:19.40	07/12/12	2	0
2.000	0.662	52558.353	13:06:19.30	07/12/12	2	0
2.000	0.637	52558.454	13:06:19.20	07/12/12	2	0
2.000	0.613	52558.512	13:06:19.10	07/12/12	2	0
2.000	0.588	52558.649	13:06:19.00	07/12/12	2	0
2.000	0.563	52558.706	13:06:18.90	07/12/12	2	0
2.000	0.537	52558.770	13:06:18.80	07/12/12	2	0
2.000	0.512	52558.639	13:06:18.70	07/12/12	2	0
2.000	0.487	52558.441	13:06:18.60	07/12/12	2	0
2.000	0.463	52558.315	13:06:18.50	07/12/12	2	0
2.000	0.438	52558.237	13:06:18.40	07/12/12	2	0
2.000	0.412	52558.374	13:06:18.30	07/12/12	2	0
2.000	0.388	52558.421	13:06:18.20	07/12/12	2	0

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2.000	0.362	52558.406	13:06:18.10	07/12/12	2	0
2.000	0.338	52558.388	13:06:18.00	07/12/12	2	0
2.000	0.313	52558.323	13:06:17.90	07/12/12	2	0
2.000	0.287	52558.238	13:06:17.80	07/12/12	2	0
2.000	0.263	52558.204	13:06:17.70	07/12/12	2	0
2.000	0.237	52558.190	13:06:17.60	07/12/12	2	0
2.000	0.212	52558.125	13:06:17.50	07/12/12	2	0
2.000	0.188	52558.135	13:06:17.40	07/12/12	2	0
2.000	0.163	52558.084	13:06:17.30	07/12/12	2	0
2.000	0.138	52558.029	13:06:17.20	07/12/12	2	0
2.000	0.113	52558.040	13:06:17.10	07/12/12	2	0
2.000	0.087	52558.012	13:06:17.00	07/12/12	2	0
2.000	0.063	52557.975	13:06:16.90	07/12/12	2	0
2.000	0.037	52557.951	13:06:16.80	07/12/12	2	0
2.000	0.013	52558.017	13:06:16.70	07/12/12	2	0
LINE 1						
1.000	0.012	52556.834	13:06:06.90	07/12/12	1	0
1.000	0.035	52556.783	13:06:06.80	07/12/12	1	0
1.000	0.058	52556.840	13:06:06.70	07/12/12	1	0
1.000	0.081	52556.842	13:06:06.60	07/12/12	1	0
1.000	0.104	52556.822	13:06:06.50	07/12/12	1	0
1.000	0.127	52556.823	13:06:06.40	07/12/12	1	0
1.000	0.150	52556.853	13:06:06.30	07/12/12	1	0
1.000	0.174	52556.831	13:06:06.20	07/12/12	1	0
1.000	0.197	52556.817	13:06:06.10	07/12/12	1	0
1.000	0.220	52556.820	13:06:06.00	07/12/12	1	0
1.000	0.243	52556.844	13:06:05.90	07/12/12	1	0
1.000	0.266	52556.875	13:06:05.80	07/12/12	1	0
1.000	0.289	52556.803	13:06:05.70	07/12/12	1	0
1.000	0.313	52556.788	13:06:05.60	07/12/12	1	0
1.000	0.336	52556.882	13:06:05.50	07/12/12	1	0
1.000	0.359	52556.917	13:06:05.40	07/12/12	1	0
1.000	0.382	52556.890	13:06:05.30	07/12/12	1	0
1.000	0.405	52556.902	13:06:05.20	07/12/12	1	0
1.000	0.428	52556.932	13:06:05.10	07/12/12	1	0
1.000	0.451	52556.908	13:06:05.00	07/12/12	1	0
1.000	0.475	52556.906	13:06:04.90	07/12/12	1	0
1.000	0.498	52556.964	13:06:04.80	07/12/12	1	0
1.000	0.521	52556.942	13:06:04.70	07/12/12	1	0
1.000	0.544	52556.962	13:06:04.60	07/12/12	1	0
1.000	0.567	52556.937	13:06:04.50	07/12/12	1	0
1.000	0.590	52556.899	13:06:04.40	07/12/12	1	0
1.000	0.613	52556.932	13:06:04.30	07/12/12	1	0
1.000	0.637	52556.932	13:06:04.20	07/12/12	1	0
1.000	0.660	52556.891	13:06:04.10	07/12/12	1	0
1.000	0.683	52556.931	13:06:04.00	07/12/12	1	0
1.000	0.706	52556.988	13:06:03.90	07/12/12	1	0
1.000	0.729	52556.971	13:06:03.80	07/12/12	1	0
1.000	0.752	52556.963	13:06:03.70	07/12/12	1	0
1.000	0.775	52557.044	13:06:03.60	07/12/12	1	0
1.000	0.799	52557.005	13:06:03.50	07/12/12	1	0
1.000	0.822	52556.995	13:06:03.40	07/12/12	1	0
1.000	0.845	52557.018	13:06:03.30	07/12/12	1	0
1.000	0.868	52557.058	13:06:03.20	07/12/12	1	0
1.000	0.891	52557.022	13:06:03.10	07/12/12	1	0

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1.000	0.914	52557.035	13:06:03.00	07/12/12	1	0
1.000	0.938	52557.009	13:06:02.90	07/12/12	1	0
1.000	0.961	52557.004	13:06:02.80	07/12/12	1	0
1.000	0.984	52556.973	13:06:02.70	07/12/12	1	0
1.000	1.007	52556.938	13:06:02.60	07/12/12	1	0
1.000	1.030	52556.937	13:06:02.50	07/12/12	1	0
1.000	1.053	52556.916	13:06:02.40	07/12/12	1	0
1.000	1.076	52556.940	13:06:02.30	07/12/12	1	0
1.000	1.100	52556.884	13:06:02.20	07/12/12	1	0
1.000	1.123	52556.963	13:06:02.10	07/12/12	1	0
1.000	1.146	52556.915	13:06:02.00	07/12/12	1	0
1.000	1.169	52556.906	13:06:01.90	07/12/12	1	0
1.000	1.192	52556.851	13:06:01.80	07/12/12	1	0
1.000	1.215	52556.877	13:06:01.70	07/12/12	1	0
1.000	1.238	52556.836	13:06:01.60	07/12/12	1	0
1.000	1.262	52556.819	13:06:01.50	07/12/12	1	0
1.000	1.285	52556.736	13:06:01.40	07/12/12	1	0
1.000	1.308	52556.691	13:06:01.30	07/12/12	1	0
1.000	1.331	52556.649	13:06:01.20	07/12/12	1	0
1.000	1.354	52556.605	13:06:01.10	07/12/12	1	0
1.000	1.377	52556.550	13:06:01.00	07/12/12	1	0
1.000	1.400	52556.514	13:06:00.90	07/12/12	1	0
1.000	1.424	52556.258	13:06:00.80	07/12/12	1	0
1.000	1.447	52556.085	13:06:00.70	07/12/12	1	0
1.000	1.470	52555.811	13:06:00.60	07/12/12	1	0
1.000	1.493	52555.736	13:06:00.50	07/12/12	1	0
1.000	1.516	52555.735	13:06:00.40	07/12/12	1	0
1.000	1.539	52555.646	13:06:00.30	07/12/12	1	0
1.000	1.563	52555.464	13:06:00.20	07/12/12	1	0
1.000	1.586	52555.239	13:06:00.10	07/12/12	1	0
1.000	1.609	52555.062	13:06:00.00	07/12/12	1	0
1.000	1.632	52554.987	13:05:59.90	07/12/12	1	0
1.000	1.655	52554.881	13:05:59.80	07/12/12	1	0
1.000	1.678	52554.788	13:05:59.70	07/12/12	1	0
1.000	1.701	52554.765	13:05:59.60	07/12/12	1	0
1.000	1.725	52554.846	13:05:59.50	07/12/12	1	0
1.000	1.748	52554.867	13:05:59.40	07/12/12	1	0
1.000	1.771	52554.810	13:05:59.30	07/12/12	1	0
1.000	1.794	52554.779	13:05:59.20	07/12/12	1	0
1.000	1.817	52554.755	13:05:59.10	07/12/12	1	0
1.000	1.840	52554.817	13:05:59.00	07/12/12	1	0
1.000	1.863	52554.793	13:05:58.90	07/12/12	1	0
1.000	1.887	52554.769	13:05:58.80	07/12/12	1	0
1.000	1.910	52554.893	13:05:58.70	07/12/12	1	0
1.000	1.933	52554.899	13:05:58.60	07/12/12	1	0
1.000	1.956	52554.917	13:05:58.50	07/12/12	1	0
1.000	1.979	52554.905	13:05:58.40	07/12/12	1	0
1.000	2.002	52554.922	13:05:58.30	07/12/12	1	0
1.000	2.025	52554.922	13:05:58.20	07/12/12	1	0
1.000	2.049	52554.889	13:05:58.10	07/12/12	1	0
1.000	2.072	52554.898	13:05:58.00	07/12/12	1	0
1.000	2.095	52554.936	13:05:57.90	07/12/12	1	0
1.000	2.118	52554.963	13:05:57.80	07/12/12	1	0
1.000	2.141	52554.970	13:05:57.70	07/12/12	1	0
1.000	2.164	52555.069	13:05:57.60	07/12/12	1	0

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1.000	2.188	52555.162	13:05:57.50	07/12/12	1	0
1.000	2.211	52555.247	13:05:57.40	07/12/12	1	0
1.000	2.234	52555.219	13:05:57.30	07/12/12	1	0
1.000	2.257	52555.226	13:05:57.20	07/12/12	1	0
1.000	2.280	52555.219	13:05:57.10	07/12/12	1	0
1.000	2.303	52555.243	13:05:57.00	07/12/12	1	0
1.000	2.326	52555.188	13:05:56.90	07/12/12	1	0
1.000	2.350	52555.154	13:05:56.80	07/12/12	1	0
1.000	2.373	52555.144	13:05:56.70	07/12/12	1	0
1.000	2.396	52555.144	13:05:56.60	07/12/12	1	0
1.000	2.419	52555.118	13:05:56.50	07/12/12	1	0
1.000	2.442	52555.179	13:05:56.40	07/12/12	1	0
1.000	2.465	52555.118	13:05:56.30	07/12/12	1	0
1.000	2.488	52555.084	13:05:56.20	07/12/12	1	0
LINE 0						
0.000	2.492	52555.597	13:05:50.10	07/12/12	0	0
0.000	2.477	52555.647	13:05:50.00	07/12/12	0	0
0.000	2.461	52555.625	13:05:49.90	07/12/12	0	0
0.000	2.445	52555.598	13:05:49.80	07/12/12	0	0
0.000	2.430	52555.472	13:05:49.70	07/12/12	0	0
0.000	2.414	52555.507	13:05:49.60	07/12/12	0	0
0.000	2.398	52555.406	13:05:49.50	07/12/12	0	0
0.000	2.383	52555.364	13:05:49.40	07/12/12	0	0
0.000	2.367	52555.373	13:05:49.30	07/12/12	0	0
0.000	2.352	52555.422	13:05:49.20	07/12/12	0	0
0.000	2.336	52555.427	13:05:49.10	07/12/12	0	0
0.000	2.320	52555.430	13:05:49.00	07/12/12	0	0
0.000	2.305	52555.390	13:05:48.90	07/12/12	0	0
0.000	2.289	52555.147	13:05:48.80	07/12/12	0	0
0.000	2.273	52555.017	13:05:48.70	07/12/12	0	0
0.000	2.258	52554.680	13:05:48.60	07/12/12	0	0
0.000	2.242	52554.454	13:05:48.50	07/12/12	0	0
0.000	2.227	52554.211	13:05:48.40	07/12/12	0	0
0.000	2.211	52554.016	13:05:48.30	07/12/12	0	0
0.000	2.195	52553.858	13:05:48.20	07/12/12	0	0
0.000	2.180	52553.811	13:05:48.10	07/12/12	0	0
0.000	2.164	52553.844	13:05:48.00	07/12/12	0	0
0.000	2.148	52554.076	13:05:47.90	07/12/12	0	0
0.000	2.133	52554.200	13:05:47.80	07/12/12	0	0
0.000	2.117	52554.309	13:05:47.70	07/12/12	0	0
0.000	2.102	52554.449	13:05:47.60	07/12/12	0	0
0.000	2.086	52554.466	13:05:47.50	07/12/12	0	0
0.000	2.070	52554.597	13:05:47.40	07/12/12	0	0
0.000	2.055	52554.638	13:05:47.30	07/12/12	0	0
0.000	2.039	52554.716	13:05:47.20	07/12/12	0	0
0.000	2.023	52554.733	13:05:47.10	07/12/12	0	0
0.000	2.008	52554.709	13:05:47.00	07/12/12	0	0
0.000	1.992	52554.676	13:05:46.90	07/12/12	0	0
0.000	1.977	52554.614	13:05:46.80	07/12/12	0	0
0.000	1.961	52554.587	13:05:46.70	07/12/12	0	0
0.000	1.945	52554.649	13:05:46.60	07/12/12	0	0
0.000	1.930	52554.550	13:05:46.50	07/12/12	0	0
0.000	1.914	52554.556	13:05:46.40	07/12/12	0	0
0.000	1.898	52554.499	13:05:46.30	07/12/12	0	0
0.000	1.883	52554.528	13:05:46.20	07/12/12	0	0

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0.000	1.867	52554.580	13:05:46.10	07/12/12	0	0
0.000	1.852	52554.645	13:05:46.00	07/12/12	0	0
0.000	1.836	52554.637	13:05:45.90	07/12/12	0	0
0.000	1.820	52554.635	13:05:45.80	07/12/12	0	0
0.000	1.805	52554.477	13:05:45.70	07/12/12	0	0
0.000	1.789	52554.388	13:05:45.60	07/12/12	0	0
0.000	1.773	52554.350	13:05:45.50	07/12/12	0	0
0.000	1.758	52554.382	13:05:45.40	07/12/12	0	0
0.000	1.742	52554.533	13:05:45.30	07/12/12	0	0
0.000	1.727	52554.548	13:05:45.20	07/12/12	0	0
0.000	1.711	52554.717	13:05:45.10	07/12/12	0	0
0.000	1.695	52554.969	13:05:45.00	07/12/12	0	0
0.000	1.680	52555.189	13:05:44.90	07/12/12	0	0
0.000	1.664	52555.326	13:05:44.80	07/12/12	0	0
0.000	1.648	52555.380	13:05:44.70	07/12/12	0	0
0.000	1.633	52555.386	13:05:44.60	07/12/12	0	0
0.000	1.617	52555.430	13:05:44.50	07/12/12	0	0
0.000	1.602	52555.475	13:05:44.40	07/12/12	0	0
0.000	1.586	52555.447	13:05:44.30	07/12/12	0	0
0.000	1.570	52555.406	13:05:44.20	07/12/12	0	0
0.000	1.555	52555.376	13:05:44.10	07/12/12	0	0
0.000	1.539	52555.325	13:05:44.00	07/12/12	0	0
0.000	1.523	52555.258	13:05:43.90	07/12/12	0	0
0.000	1.508	52555.295	13:05:43.80	07/12/12	0	0
0.000	1.492	52555.278	13:05:43.70	07/12/12	0	0
0.000	1.477	52555.339	13:05:43.60	07/12/12	0	0
0.000	1.461	52555.464	13:05:43.50	07/12/12	0	0
0.000	1.445	52555.498	13:05:43.40	07/12/12	0	0
0.000	1.430	52555.427	13:05:43.30	07/12/12	0	0
0.000	1.414	52555.287	13:05:43.20	07/12/12	0	0
0.000	1.398	52555.020	13:05:43.10	07/12/12	0	0
0.000	1.383	52554.678	13:05:43.00	07/12/12	0	0
0.000	1.367	52554.360	13:05:42.90	07/12/12	0	0
0.000	1.352	52554.347	13:05:42.80	07/12/12	0	0
0.000	1.336	52554.345	13:05:42.70	07/12/12	0	0
0.000	1.320	52554.419	13:05:42.60	07/12/12	0	0
0.000	1.305	52554.285	13:05:42.50	07/12/12	0	0
0.000	1.289	52554.222	13:05:42.40	07/12/12	0	0
0.000	1.273	52554.365	13:05:42.30	07/12/12	0	0
0.000	1.258	52554.643	13:05:42.20	07/12/12	0	0
0.000	1.242	52555.070	13:05:42.10	07/12/12	0	0
0.000	1.227	52555.468	13:05:42.00	07/12/12	0	0
0.000	1.211	52555.725	13:05:41.90	07/12/12	0	0
0.000	1.195	52555.882	13:05:41.80	07/12/12	0	0
0.000	1.180	52555.783	13:05:41.70	07/12/12	0	0
0.000	1.164	52555.509	13:05:41.60	07/12/12	0	0
0.000	1.148	52555.475	13:05:41.50	07/12/12	0	0
0.000	1.133	52555.472	13:05:41.40	07/12/12	0	0
0.000	1.117	52555.560	13:05:41.30	07/12/12	0	0
0.000	1.102	52555.478	13:05:41.20	07/12/12	0	0
0.000	1.086	52555.475	13:05:41.10	07/12/12	0	0
0.000	1.070	52555.444	13:05:41.00	07/12/12	0	0
0.000	1.055	52555.472	13:05:40.90	07/12/12	0	0
0.000	1.039	52555.517	13:05:40.80	07/12/12	0	0
0.000	1.023	52555.520	13:05:40.70	07/12/12	0	0

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0.000	1.008	52555.518	13:05:40.60	07/12/12	0	0
0.000	0.992	52555.527	13:05:40.50	07/12/12	0	0
0.000	0.977	52555.567	13:05:40.40	07/12/12	0	0
0.000	0.961	52555.622	13:05:40.30	07/12/12	0	0
0.000	0.945	52555.597	13:05:40.20	07/12/12	0	0
0.000	0.930	52555.642	13:05:40.10	07/12/12	0	0
0.000	0.914	52555.553	13:05:40.00	07/12/12	0	0
0.000	0.898	52555.598	13:05:39.90	07/12/12	0	0
0.000	0.883	52555.476	13:05:39.80	07/12/12	0	0
0.000	0.867	52555.366	13:05:39.70	07/12/12	0	0
0.000	0.852	52555.216	13:05:39.60	07/12/12	0	0
0.000	0.836	52554.970	13:05:39.50	07/12/12	0	0
0.000	0.820	52554.819	13:05:39.40	07/12/12	0	0
0.000	0.805	52554.772	13:05:39.30	07/12/12	0	0
0.000	0.789	52554.693	13:05:39.20	07/12/12	0	0
0.000	0.773	52554.724	13:05:39.10	07/12/12	0	0
0.000	0.758	52554.970	13:05:39.00	07/12/12	0	0
0.000	0.742	52555.099	13:05:38.90	07/12/12	0	0
0.000	0.727	52555.177	13:05:38.80	07/12/12	0	0
0.000	0.711	52555.014	13:05:38.70	07/12/12	0	0
0.000	0.695	52554.778	13:05:38.60	07/12/12	0	0
0.000	0.680	52554.489	13:05:38.50	07/12/12	0	0
0.000	0.664	52554.255	13:05:38.40	07/12/12	0	0
0.000	0.648	52554.130	13:05:38.30	07/12/12	0	0
0.000	0.633	52553.830	13:05:38.20	07/12/12	0	0
0.000	0.617	52553.785	13:05:38.10	07/12/12	0	0
0.000	0.602	52553.832	13:05:38.00	07/12/12	0	0
0.000	0.586	52554.031	13:05:37.90	07/12/12	0	0
0.000	0.570	52554.160	13:05:37.80	07/12/12	0	0
0.000	0.555	52554.245	13:05:37.70	07/12/12	0	0
0.000	0.539	52554.245	13:05:37.60	07/12/12	0	0
0.000	0.523	52554.280	13:05:37.50	07/12/12	0	0
0.000	0.508	52554.298	13:05:37.40	07/12/12	0	0
0.000	0.492	52554.336	13:05:37.30	07/12/12	0	0
0.000	0.477	52554.283	13:05:37.20	07/12/12	0	0
0.000	0.461	52554.262	13:05:37.10	07/12/12	0	0
0.000	0.445	52554.262	13:05:37.00	07/12/12	0	0
0.000	0.430	52554.255	13:05:36.90	07/12/12	0	0
0.000	0.414	52554.229	13:05:36.80	07/12/12	0	0
0.000	0.398	52554.118	13:05:36.70	07/12/12	0	0
0.000	0.383	52554.105	13:05:36.60	07/12/12	0	0
0.000	0.367	52554.057	13:05:36.50	07/12/12	0	0
0.000	0.352	52554.153	13:05:36.40	07/12/12	0	0
0.000	0.336	52554.162	13:05:36.30	07/12/12	0	0
0.000	0.320	52554.128	13:05:36.20	07/12/12	0	0
0.000	0.305	52554.242	13:05:36.10	07/12/12	0	0
0.000	0.289	52554.183	13:05:36.00	07/12/12	0	0
0.000	0.273	52554.198	13:05:35.90	07/12/12	0	0
0.000	0.258	52554.064	13:05:35.80	07/12/12	0	0
0.000	0.242	52553.895	13:05:35.70	07/12/12	0	0
0.000	0.227	52553.810	13:05:35.60	07/12/12	0	0
0.000	0.211	52553.851	13:05:35.50	07/12/12	0	0
0.000	0.195	52553.830	13:05:35.40	07/12/12	0	0
0.000	0.180	52553.976	13:05:35.30	07/12/12	0	0
0.000	0.164	52554.329	13:05:35.20	07/12/12	0	0

0.000	0.148	52554.541	13:05:35.10	07/12/12	0	0
0.000	0.133	52554.685	13:05:35.00	07/12/12	0	0
0.000	0.117	52554.834	13:05:34.90	07/12/12	0	0
0.000	0.102	52554.863	13:05:34.80	07/12/12	0	0
0.000	0.086	52554.955	13:05:34.70	07/12/12	0	0
0.000	0.070	52555.043	13:05:34.60	07/12/12	0	0
0.000	0.055	52555.032	13:05:34.50	07/12/12	0	0
0.000	0.039	52555.130	13:05:34.40	07/12/12	0	0
0.000	0.023	52555.210	13:05:34.30	07/12/12	0	0
0.000	0.008	52555.423	13:05:34.20	07/12/12	0	0

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/	X	Y	READING_1	TIME	DATE	LINE	MARK
LINE 9							
	9.000	0.005	52557.076	15:32:39.40	07/11/12	9	0
	9.000	0.014	52557.298	15:32:39.30	07/11/12	9	0
	9.000	0.023	52557.270	15:32:39.20	07/11/12	9	0
	9.000	0.032	52557.334	15:32:39.10	07/11/12	9	0
	9.000	0.041	52557.249	15:32:39.00	07/11/12	9	0
	9.000	0.050	52557.155	15:32:38.90	07/11/12	9	0
	9.000	0.059	52556.900	15:32:38.80	07/11/12	9	0
	9.000	0.068	52556.824	15:32:38.70	07/11/12	9	0
	9.000	0.077	52556.933	15:32:38.60	07/11/12	9	0
	9.000	0.086	52557.174	15:32:38.50	07/11/12	9	0
	9.000	0.095	52557.377	15:32:38.40	07/11/12	9	0
	9.000	0.104	52557.416	15:32:38.30	07/11/12	9	0
	9.000	0.113	52557.403	15:32:38.20	07/11/12	9	0
	9.000	0.122	52557.416	15:32:38.10	07/11/12	9	0
	9.000	0.131	52557.450	15:32:38.00	07/11/12	9	0
	9.000	0.140	52557.480	15:32:37.90	07/11/12	9	0
	9.000	0.149	52557.415	15:32:37.80	07/11/12	9	0
	9.000	0.159	52557.290	15:32:37.70	07/11/12	9	0
	9.000	0.168	52557.096	15:32:37.60	07/11/12	9	0
	9.000	0.177	52557.018	15:32:37.50	07/11/12	9	0
	9.000	0.186	52557.180	15:32:37.40	07/11/12	9	0
	9.000	0.195	52557.357	15:32:37.30	07/11/12	9	0
	9.000	0.204	52557.642	15:32:37.20	07/11/12	9	0
	9.000	0.213	52557.877	15:32:37.10	07/11/12	9	0
	9.000	0.222	52558.063	15:32:37.00	07/11/12	9	0
	9.000	0.231	52558.210	15:32:36.90	07/11/12	9	0
	9.000	0.240	52558.303	15:32:36.80	07/11/12	9	0
	9.000	0.249	52558.285	15:32:36.70	07/11/12	9	0
	9.000	0.258	52558.281	15:32:36.60	07/11/12	9	0
	9.000	0.267	52558.313	15:32:36.50	07/11/12	9	0
	9.000	0.276	52558.465	15:32:36.40	07/11/12	9	0
	9.000	0.285	52558.524	15:32:36.30	07/11/12	9	0
	9.000	0.294	52558.773	15:32:36.20	07/11/12	9	0
	9.000	0.303	52559.347	15:32:36.10	07/11/12	9	0
	9.000	0.313	52559.633	15:32:36.00	07/11/12	9	0
	9.000	0.322	52559.750	15:32:35.90	07/11/12	9	0
	9.000	0.331	52559.600	15:32:35.80	07/11/12	9	0
	9.000	0.340	52559.436	15:32:35.70	07/11/12	9	0
	9.000	0.349	52559.122	15:32:35.60	07/11/12	9	0
	9.000	0.358	52558.806	15:32:35.50	07/11/12	9	0
	9.000	0.367	52558.555	15:32:35.40	07/11/12	9	0
	9.000	0.376	52558.309	15:32:35.30	07/11/12	9	0
	9.000	0.385	52558.257	15:32:35.20	07/11/12	9	0
	9.000	0.394	52558.498	15:32:35.10	07/11/12	9	0
	9.000	0.403	52558.843	15:32:35.00	07/11/12	9	0
	9.000	0.412	52559.255	15:32:34.90	07/11/12	9	0
	9.000	0.421	52559.614	15:32:34.80	07/11/12	9	0
	9.000	0.430	52559.902	15:32:34.70	07/11/12	9	0
	9.000	0.439	52560.079	15:32:34.60	07/11/12	9	0
	9.000	0.448	52560.229	15:32:34.50	07/11/12	9	0
	9.000	0.457	52560.133	15:32:34.40	07/11/12	9	0
	9.000	0.466	52560.102	15:32:34.30	07/11/12	9	0
	9.000	0.476	52560.236	15:32:34.20	07/11/12	9	0
	9.000	0.485	52560.375	15:32:34.10	07/11/12	9	0
	9.000	0.494	52560.614	15:32:34.00	07/11/12	9	0
	9.000	0.503	52560.881	15:32:33.90	07/11/12	9	0
	9.000	0.512	52561.127	15:32:33.80	07/11/12	9	0
	9.000	0.521	52561.296	15:32:33.70	07/11/12	9	0
	9.000	0.530	52561.373	15:32:33.60	07/11/12	9	0
	9.000	0.539	52561.594	15:32:33.50	07/11/12	9	0
	9.000	0.548	52561.734	15:32:33.40	07/11/12	9	0

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9.000	0.557	52561.803	15:32:33.30	07/11/12	9	0
9.000	0.566	52561.754	15:32:33.20	07/11/12	9	0
9.000	0.575	52561.607	15:32:33.10	07/11/12	9	0
9.000	0.584	52561.309	15:32:33.00	07/11/12	9	0
9.000	0.593	52561.164	15:32:32.90	07/11/12	9	0
9.000	0.602	52561.014	15:32:32.80	07/11/12	9	0
9.000	0.611	52560.989	15:32:32.70	07/11/12	9	0
9.000	0.620	52560.996	15:32:32.60	07/11/12	9	0
9.000	0.630	52561.063	15:32:32.50	07/11/12	9	0
9.000	0.639	52561.127	15:32:32.40	07/11/12	9	0
9.000	0.648	52561.157	15:32:32.30	07/11/12	9	0
9.000	0.657	52560.916	15:32:32.20	07/11/12	9	0
9.000	0.666	52560.525	15:32:32.10	07/11/12	9	0
9.000	0.675	52560.256	15:32:32.00	07/11/12	9	0
9.000	0.684	52560.177	15:32:31.90	07/11/12	9	0
9.000	0.693	52560.140	15:32:31.80	07/11/12	9	0
9.000	0.702	52560.123	15:32:31.70	07/11/12	9	0
9.000	0.711	52559.936	15:32:31.60	07/11/12	9	0
9.000	0.720	52559.555	15:32:31.50	07/11/12	9	0
9.000	0.729	52559.337	15:32:31.40	07/11/12	9	0
9.000	0.738	52559.289	15:32:31.30	07/11/12	9	0
9.000	0.747	52559.402	15:32:31.20	07/11/12	9	0
9.000	0.756	52559.462	15:32:31.10	07/11/12	9	0
9.000	0.765	52559.514	15:32:31.00	07/11/12	9	0
9.000	0.774	52559.559	15:32:30.90	07/11/12	9	0
9.000	0.784	52559.586	15:32:30.80	07/11/12	9	0
9.000	0.793	52559.633	15:32:30.70	07/11/12	9	0
9.000	0.802	52559.746	15:32:30.60	07/11/12	9	0
9.000	0.811	52559.674	15:32:30.50	07/11/12	9	0
9.000	0.820	52559.607	15:32:30.40	07/11/12	9	0
9.000	0.829	52559.531	15:32:30.30	07/11/12	9	0
9.000	0.838	52559.563	15:32:30.20	07/11/12	9	0
9.000	0.847	52559.676	15:32:30.10	07/11/12	9	0
9.000	0.856	52559.798	15:32:30.00	07/11/12	9	0
9.000	0.865	52559.764	15:32:29.90	07/11/12	9	0
9.000	0.874	52559.829	15:32:29.80	07/11/12	9	0
9.000	0.883	52559.848	15:32:29.70	07/11/12	9	0
9.000	0.892	52559.814	15:32:29.60	07/11/12	9	0
9.000	0.901	52559.722	15:32:29.50	07/11/12	9	0
9.000	0.910	52559.603	15:32:29.40	07/11/12	9	0
9.000	0.919	52559.392	15:32:29.30	07/11/12	9	0
9.000	0.928	52559.235	15:32:29.20	07/11/12	9	0
9.000	0.938	52559.092	15:32:29.10	07/11/12	9	0
9.000	0.947	52558.959	15:32:29.00	07/11/12	9	0
9.000	0.956	52558.982	15:32:28.90	07/11/12	9	0
9.000	0.965	52558.986	15:32:28.80	07/11/12	9	0
9.000	0.974	52558.976	15:32:28.70	07/11/12	9	0
9.000	0.983	52558.915	15:32:28.60	07/11/12	9	0
9.000	0.992	52558.894	15:32:28.50	07/11/12	9	0
9.000	1.001	52558.880	15:32:28.40	07/11/12	9	0
9.000	1.010	52558.876	15:32:28.30	07/11/12	9	0
9.000	1.019	52558.992	15:32:28.20	07/11/12	9	0
9.000	1.028	52559.241	15:32:28.10	07/11/12	9	0
9.000	1.037	52559.579	15:32:28.00	07/11/12	9	0
9.000	1.046	52560.013	15:32:27.90	07/11/12	9	0
9.000	1.055	52560.416	15:32:27.80	07/11/12	9	0
9.000	1.064	52560.808	15:32:27.70	07/11/12	9	0
9.000	1.073	52560.962	15:32:27.60	07/11/12	9	0
9.000	1.082	52560.747	15:32:27.50	07/11/12	9	0
9.000	1.091	52560.327	15:32:27.40	07/11/12	9	0
9.000	1.101	52559.996	15:32:27.30	07/11/12	9	0
9.000	1.110	52559.966	15:32:27.20	07/11/12	9	0
9.000	1.119	52559.998	15:32:27.10	07/11/12	9	0

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9.000	1.128	52559.936	15:32:27.00	07/11/12	9	0
9.000	1.137	52559.754	15:32:26.90	07/11/12	9	0
9.000	1.146	52559.542	15:32:26.80	07/11/12	9	0
9.000	1.155	52559.269	15:32:26.70	07/11/12	9	0
9.000	1.164	52559.279	15:32:26.60	07/11/12	9	0
9.000	1.173	52559.160	15:32:26.50	07/11/12	9	0
9.000	1.182	52559.102	15:32:26.40	07/11/12	9	0
9.000	1.191	52559.163	15:32:26.30	07/11/12	9	0
9.000	1.200	52559.201	15:32:26.20	07/11/12	9	0
9.000	1.209	52559.163	15:32:26.10	07/11/12	9	0
9.000	1.218	52559.242	15:32:26.00	07/11/12	9	0
9.000	1.227	52559.307	15:32:25.90	07/11/12	9	0
9.000	1.236	52559.266	15:32:25.80	07/11/12	9	0
9.000	1.245	52559.337	15:32:25.70	07/11/12	9	0
9.000	1.255	52559.337	15:32:25.60	07/11/12	9	0
9.000	1.264	52559.511	15:32:25.50	07/11/12	9	0
9.000	1.273	52559.539	15:32:25.40	07/11/12	9	0
9.000	1.282	52559.665	15:32:25.30	07/11/12	9	0
9.000	1.291	52559.829	15:32:25.20	07/11/12	9	0
9.000	1.300	52559.913	15:32:25.10	07/11/12	9	0
9.000	1.309	52559.783	15:32:25.00	07/11/12	9	0
9.000	1.318	52559.698	15:32:24.90	07/11/12	9	0
9.000	1.327	52559.576	15:32:24.80	07/11/12	9	0
9.000	1.336	52559.466	15:32:24.70	07/11/12	9	0
9.000	1.345	52559.354	15:32:24.60	07/11/12	9	0
9.000	1.354	52559.388	15:32:24.50	07/11/12	9	0
9.000	1.363	52559.433	15:32:24.40	07/11/12	9	0
9.000	1.372	52559.395	15:32:24.30	07/11/12	9	0
9.000	1.381	52559.529	15:32:24.20	07/11/12	9	0
9.000	1.390	52559.330	15:32:24.10	07/11/12	9	0
9.000	1.399	52559.320	15:32:24.00	07/11/12	9	0
9.000	1.409	52559.324	15:32:23.90	07/11/12	9	0
9.000	1.418	52559.354	15:32:23.80	07/11/12	9	0
9.000	1.427	52559.340	15:32:23.70	07/11/12	9	0
9.000	1.436	52559.330	15:32:23.60	07/11/12	9	0
9.000	1.445	52559.296	15:32:23.50	07/11/12	9	0
9.000	1.454	52559.317	15:32:23.40	07/11/12	9	0
9.000	1.463	52559.266	15:32:23.30	07/11/12	9	0
9.000	1.472	52559.279	15:32:23.20	07/11/12	9	0
9.000	1.481	52559.207	15:32:23.10	07/11/12	9	0
9.000	1.490	52559.187	15:32:23.00	07/11/12	9	0
9.000	1.499	52559.149	15:32:22.90	07/11/12	9	0
9.000	1.508	52559.098	15:32:22.80	07/11/12	9	0
9.000	1.517	52559.078	15:32:22.70	07/11/12	9	0
9.000	1.526	52559.122	15:32:22.60	07/11/12	9	0
9.000	1.535	52559.116	15:32:22.50	07/11/12	9	0
9.000	1.544	52559.057	15:32:22.40	07/11/12	9	0
9.000	1.553	52559.064	15:32:22.30	07/11/12	9	0
9.000	1.563	52559.129	15:32:22.20	07/11/12	9	0
9.000	1.572	52559.265	15:32:22.10	07/11/12	9	0
9.000	1.581	52559.269	15:32:22.00	07/11/12	9	0
9.000	1.590	52559.313	15:32:21.90	07/11/12	9	0
9.000	1.599	52559.296	15:32:21.80	07/11/12	9	0
9.000	1.608	52559.419	15:32:21.70	07/11/12	9	0
9.000	1.617	52559.381	15:32:21.60	07/11/12	9	0
9.000	1.626	52559.381	15:32:21.50	07/11/12	9	0
9.000	1.635	52559.487	15:32:21.40	07/11/12	9	0
9.000	1.644	52559.412	15:32:21.30	07/11/12	9	0
9.000	1.653	52559.474	15:32:21.20	07/11/12	9	0
9.000	1.662	52559.503	15:32:21.10	07/11/12	9	0
9.000	1.671	52559.545	15:32:21.00	07/11/12	9	0
9.000	1.680	52559.549	15:32:20.90	07/11/12	9	0
9.000	1.689	52559.460	15:32:20.80	07/11/12	9	0

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9.000	1.698	52559.347	15:32:20.70	07/11/12	9	0
9.000	1.707	52559.204	15:32:20.60	07/11/12	9	0
9.000	1.716	52559.068	15:32:20.50	07/11/12	9	0
9.000	1.726	52558.986	15:32:20.40	07/11/12	9	0
9.000	1.735	52559.006	15:32:20.30	07/11/12	9	0
9.000	1.744	52559.037	15:32:20.20	07/11/12	9	0
9.000	1.753	52558.983	15:32:20.10	07/11/12	9	0
9.000	1.762	52559.027	15:32:20.00	07/11/12	9	0
9.000	1.771	52559.023	15:32:19.90	07/11/12	9	0
9.000	1.780	52559.081	15:32:19.80	07/11/12	9	0
9.000	1.789	52559.156	15:32:19.70	07/11/12	9	0
9.000	1.798	52559.228	15:32:19.60	07/11/12	9	0
9.000	1.807	52559.242	15:32:19.50	07/11/12	9	0
9.000	1.816	52559.266	15:32:19.40	07/11/12	9	0
9.000	1.825	52559.337	15:32:19.30	07/11/12	9	0
9.000	1.834	52559.307	15:32:19.20	07/11/12	9	0
9.000	1.843	52559.252	15:32:19.10	07/11/12	9	0
9.000	1.852	52559.303	15:32:19.00	07/11/12	9	0
9.000	1.861	52559.313	15:32:18.90	07/11/12	9	0
9.000	1.870	52559.408	15:32:18.80	07/11/12	9	0
9.000	1.880	52559.364	15:32:18.70	07/11/12	9	0
9.000	1.889	52559.368	15:32:18.60	07/11/12	9	0
9.000	1.898	52559.371	15:32:18.50	07/11/12	9	0
9.000	1.907	52559.303	15:32:18.40	07/11/12	9	0
9.000	1.916	52559.259	15:32:18.30	07/11/12	9	0
9.000	1.925	52559.259	15:32:18.20	07/11/12	9	0
9.000	1.934	52559.330	15:32:18.10	07/11/12	9	0
9.000	1.943	52559.395	15:32:18.00	07/11/12	9	0
9.000	1.952	52559.460	15:32:17.90	07/11/12	9	0
9.000	1.961	52559.436	15:32:17.80	07/11/12	9	0
9.000	1.970	52559.466	15:32:17.70	07/11/12	9	0
9.000	1.979	52559.477	15:32:17.60	07/11/12	9	0
9.000	1.988	52559.511	15:32:17.50	07/11/12	9	0
9.000	1.997	52559.556	15:32:17.40	07/11/12	9	0
9.000	2.006	52559.593	15:32:17.30	07/11/12	9	0
9.000	2.015	52559.662	15:32:17.20	07/11/12	9	0
9.000	2.024	52559.730	15:32:17.10	07/11/12	9	0
9.000	2.034	52559.712	15:32:17.00	07/11/12	9	0
9.000	2.043	52559.747	15:32:16.90	07/11/12	9	0
9.000	2.052	52559.726	15:32:16.80	07/11/12	9	0
9.000	2.061	52559.719	15:32:16.70	07/11/12	9	0
9.000	2.070	52559.766	15:32:16.60	07/11/12	9	0
9.000	2.079	52559.831	15:32:16.50	07/11/12	9	0
9.000	2.088	52559.822	15:32:16.40	07/11/12	9	0
9.000	2.097	52559.887	15:32:16.30	07/11/12	9	0
9.000	2.106	52559.870	15:32:16.20	07/11/12	9	0
9.000	2.115	52559.849	15:32:16.10	07/11/12	9	0
9.000	2.124	52559.902	15:32:16.00	07/11/12	9	0
9.000	2.133	52559.757	15:32:15.90	07/11/12	9	0
9.000	2.142	52559.764	15:32:15.80	07/11/12	9	0
9.000	2.151	52559.742	15:32:15.70	07/11/12	9	0
9.000	2.160	52559.728	15:32:15.60	07/11/12	9	0
9.000	2.169	52559.746	15:32:15.50	07/11/12	9	0
9.000	2.178	52559.706	15:32:15.40	07/11/12	9	0
9.000	2.188	52559.627	15:32:15.30	07/11/12	9	0
9.000	2.197	52559.563	15:32:15.20	07/11/12	9	0
9.000	2.206	52559.567	15:32:15.10	07/11/12	9	0
9.000	2.215	52559.579	15:32:15.00	07/11/12	9	0
9.000	2.224	52559.566	15:32:14.90	07/11/12	9	0
9.000	2.233	52559.640	15:32:14.80	07/11/12	9	0
9.000	2.242	52559.531	15:32:14.70	07/11/12	9	0
9.000	2.251	52559.487	15:32:14.60	07/11/12	9	0
9.000	2.260	52559.474	15:32:14.50	07/11/12	9	0

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9.000	2.269	52559.508	15:32:14.40	07/11/12	9	0
9.000	2.278	52559.596	15:32:14.30	07/11/12	9	0
9.000	2.287	52559.676	15:32:14.20	07/11/12	9	0
9.000	2.296	52559.782	15:32:14.10	07/11/12	9	0
9.000	2.305	52559.770	15:32:14.00	07/11/12	9	0
9.000	2.314	52559.716	15:32:13.90	07/11/12	9	0
9.000	2.323	52559.664	15:32:13.80	07/11/12	9	0
9.000	2.332	52559.606	15:32:13.70	07/11/12	9	0
9.000	2.341	52559.630	15:32:13.60	07/11/12	9	0
9.000	2.351	52559.725	15:32:13.50	07/11/12	9	0
9.000	2.360	52559.846	15:32:13.40	07/11/12	9	0
9.000	2.369	52560.030	15:32:13.30	07/11/12	9	0
9.000	2.378	52560.093	15:32:13.20	07/11/12	9	0
9.000	2.387	52560.143	15:32:13.10	07/11/12	9	0
9.000	2.396	52560.181	15:32:13.00	07/11/12	9	0
9.000	2.405	52560.136	15:32:12.90	07/11/12	9	0
9.000	2.414	52560.068	15:32:12.80	07/11/12	9	0
9.000	2.423	52560.047	15:32:12.70	07/11/12	9	0
9.000	2.432	52560.051	15:32:12.60	07/11/12	9	0
9.000	2.441	52560.174	15:32:12.50	07/11/12	9	0
9.000	2.450	52560.221	15:32:12.40	07/11/12	9	0
9.000	2.459	52560.133	15:32:12.30	07/11/12	9	0
9.000	2.468	52559.879	15:32:12.20	07/11/12	9	0
9.000	2.477	52559.572	15:32:12.10	07/11/12	9	0
9.000	2.486	52559.207	15:32:12.00	07/11/12	9	0
9.000	2.495	52559.133	15:32:11.90	07/11/12	9	0
LINE 8						
8.000	2.495	52545.864	15:31:45.50	07/11/12	8	0
8.000	2.485	52545.277	15:31:45.40	07/11/12	8	0
8.000	2.476	52545.164	15:31:45.30	07/11/12	8	0
8.000	2.466	52545.260	15:31:45.20	07/11/12	8	0
8.000	2.456	52545.330	15:31:45.10	07/11/12	8	0
8.000	2.447	52545.610	15:31:45.00	07/11/12	8	0
8.000	2.437	52545.926	15:31:44.90	07/11/12	8	0
8.000	2.427	52546.181	15:31:44.80	07/11/12	8	0
8.000	2.418	52546.396	15:31:44.70	07/11/12	8	0
8.000	2.408	52546.620	15:31:44.60	07/11/12	8	0
8.000	2.398	52546.719	15:31:44.50	07/11/12	8	0
8.000	2.389	52546.921	15:31:44.40	07/11/12	8	0
8.000	2.379	52547.173	15:31:44.30	07/11/12	8	0
8.000	2.369	52547.247	15:31:44.20	07/11/12	8	0
8.000	2.359	52547.530	15:31:44.10	07/11/12	8	0
8.000	2.350	52547.632	15:31:44.00	07/11/12	8	0
8.000	2.340	52547.695	15:31:43.90	07/11/12	8	0
8.000	2.330	52547.587	15:31:43.80	07/11/12	8	0
8.000	2.321	52547.500	15:31:43.70	07/11/12	8	0
8.000	2.311	52547.430	15:31:43.60	07/11/12	8	0
8.000	2.301	52547.357	15:31:43.50	07/11/12	8	0
8.000	2.292	52547.387	15:31:43.40	07/11/12	8	0
8.000	2.282	52547.554	15:31:43.30	07/11/12	8	0
8.000	2.272	52547.787	15:31:43.20	07/11/12	8	0
8.000	2.263	52548.005	15:31:43.10	07/11/12	8	0
8.000	2.253	52548.128	15:31:43.00	07/11/12	8	0
8.000	2.243	52547.957	15:31:42.90	07/11/12	8	0
8.000	2.234	52547.724	15:31:42.80	07/11/12	8	0
8.000	2.224	52547.588	15:31:42.70	07/11/12	8	0
8.000	2.214	52547.343	15:31:42.60	07/11/12	8	0
8.000	2.204	52547.056	15:31:42.50	07/11/12	8	0
8.000	2.195	52546.982	15:31:42.40	07/11/12	8	0
8.000	2.185	52547.124	15:31:42.30	07/11/12	8	0
8.000	2.175	52547.191	15:31:42.20	07/11/12	8	0
8.000	2.166	52547.229	15:31:42.10	07/11/12	8	0
8.000	2.156	52547.243	15:31:42.00	07/11/12	8	0

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8.000	2.146	52547.068	15:31:41.90	07/11/12	8	0
8.000	2.137	52546.813	15:31:41.80	07/11/12	8	0
8.000	2.127	52546.596	15:31:41.70	07/11/12	8	0
8.000	2.117	52546.539	15:31:41.60	07/11/12	8	0
8.000	2.108	52546.516	15:31:41.50	07/11/12	8	0
8.000	2.098	52546.528	15:31:41.40	07/11/12	8	0
8.000	2.088	52546.288	15:31:41.30	07/11/12	8	0
8.000	2.078	52546.324	15:31:41.20	07/11/12	8	0
8.000	2.069	52546.290	15:31:41.10	07/11/12	8	0
8.000	2.059	52546.176	15:31:41.00	07/11/12	8	0
8.000	2.049	52546.029	15:31:40.90	07/11/12	8	0
8.000	2.040	52545.684	15:31:40.80	07/11/12	8	0
8.000	2.030	52545.442	15:31:40.70	07/11/12	8	0
8.000	2.020	52545.181	15:31:40.60	07/11/12	8	0
8.000	2.011	52545.014	15:31:40.50	07/11/12	8	0
8.000	2.001	52544.760	15:31:40.40	07/11/12	8	0
8.000	1.991	52544.712	15:31:40.30	07/11/12	8	0
8.000	1.982	52544.630	15:31:40.20	07/11/12	8	0
8.000	1.972	52544.670	15:31:40.10	07/11/12	8	0
8.000	1.962	52544.764	15:31:40.00	07/11/12	8	0
8.000	1.953	52544.703	15:31:39.90	07/11/12	8	0
8.000	1.943	52544.562	15:31:39.80	07/11/12	8	0
8.000	1.933	52544.393	15:31:39.70	07/11/12	8	0
8.000	1.923	52544.099	15:31:39.60	07/11/12	8	0
8.000	1.914	52543.878	15:31:39.50	07/11/12	8	0
8.000	1.904	52543.556	15:31:39.40	07/11/12	8	0
8.000	1.894	52543.016	15:31:39.30	07/11/12	8	0
8.000	1.885	52542.192	15:31:39.20	07/11/12	8	0
8.000	1.875	52541.669	15:31:39.10	07/11/12	8	0
8.000	1.865	52541.241	15:31:39.00	07/11/12	8	0
8.000	1.856	52541.055	15:31:38.90	07/11/12	8	0
8.000	1.846	52540.929	15:31:38.80	07/11/12	8	0
8.000	1.836	52541.089	15:31:38.70	07/11/12	8	0
8.000	1.827	52541.279	15:31:38.60	07/11/12	8	0
8.000	1.817	52541.558	15:31:38.50	07/11/12	8	0
8.000	1.807	52542.098	15:31:38.40	07/11/12	8	0
8.000	1.797	52542.568	15:31:38.30	07/11/12	8	0
8.000	1.788	52543.225	15:31:38.20	07/11/12	8	0
8.000	1.778	52543.820	15:31:38.10	07/11/12	8	0
8.000	1.768	52544.119	15:31:38.00	07/11/12	8	0
8.000	1.759	52544.397	15:31:37.90	07/11/12	8	0
8.000	1.749	52544.737	15:31:37.80	07/11/12	8	0
8.000	1.739	52545.084	15:31:37.70	07/11/12	8	0
8.000	1.730	52545.657	15:31:37.60	07/11/12	8	0
8.000	1.720	52546.665	15:31:37.50	07/11/12	8	0
8.000	1.710	52547.593	15:31:37.40	07/11/12	8	0
8.000	1.701	52547.966	15:31:37.30	07/11/12	8	0
8.000	1.691	52547.895	15:31:37.20	07/11/12	8	0
8.000	1.681	52547.939	15:31:37.10	07/11/12	8	0
8.000	1.672	52548.296	15:31:37.00	07/11/12	8	0
8.000	1.662	52548.849	15:31:36.90	07/11/12	8	0
8.000	1.652	52549.293	15:31:36.80	07/11/12	8	0
8.000	1.642	52549.756	15:31:36.70	07/11/12	8	0
8.000	1.633	52550.321	15:31:36.60	07/11/12	8	0
8.000	1.623	52550.576	15:31:36.50	07/11/12	8	0
8.000	1.613	52550.845	15:31:36.40	07/11/12	8	0
8.000	1.604	52551.024	15:31:36.30	07/11/12	8	0
8.000	1.594	52551.384	15:31:36.20	07/11/12	8	0
8.000	1.584	52551.683	15:31:36.10	07/11/12	8	0
8.000	1.575	52551.951	15:31:36.00	07/11/12	8	0
8.000	1.565	52552.148	15:31:35.90	07/11/12	8	0
8.000	1.555	52552.097	15:31:35.80	07/11/12	8	0
8.000	1.546	52551.844	15:31:35.70	07/11/12	8	0

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8.000	1.536	52551.503	15:31:35.60	07/11/12	8	0
8.000	1.526	52551.131	15:31:35.50	07/11/12	8	0
8.000	1.516	52550.850	15:31:35.40	07/11/12	8	0
8.000	1.507	52550.675	15:31:35.30	07/11/12	8	0
8.000	1.497	52550.834	15:31:35.20	07/11/12	8	0
8.000	1.487	52551.111	15:31:35.10	07/11/12	8	0
8.000	1.478	52551.099	15:31:35.00	07/11/12	8	0
8.000	1.468	52551.047	15:31:34.90	07/11/12	8	0
8.000	1.458	52550.883	15:31:34.80	07/11/12	8	0
8.000	1.449	52550.614	15:31:34.70	07/11/12	8	0
8.000	1.439	52550.225	15:31:34.60	07/11/12	8	0
8.000	1.429	52550.027	15:31:34.50	07/11/12	8	0
8.000	1.420	52550.019	15:31:34.40	07/11/12	8	0
8.000	1.410	52549.988	15:31:34.30	07/11/12	8	0
8.000	1.400	52549.875	15:31:34.20	07/11/12	8	0
8.000	1.391	52549.750	15:31:34.10	07/11/12	8	0
8.000	1.381	52549.534	15:31:34.00	07/11/12	8	0
8.000	1.371	52549.307	15:31:33.90	07/11/12	8	0
8.000	1.361	52549.019	15:31:33.80	07/11/12	8	0
8.000	1.352	52548.923	15:31:33.70	07/11/12	8	0
8.000	1.342	52548.834	15:31:33.60	07/11/12	8	0
8.000	1.332	52548.804	15:31:33.50	07/11/12	8	0
8.000	1.323	52548.737	15:31:33.40	07/11/12	8	0
8.000	1.313	52548.525	15:31:33.30	07/11/12	8	0
8.000	1.303	52548.406	15:31:33.20	07/11/12	8	0
8.000	1.294	52548.421	15:31:33.10	07/11/12	8	0
8.000	1.284	52548.376	15:31:33.00	07/11/12	8	0
8.000	1.274	52548.386	15:31:32.90	07/11/12	8	0
8.000	1.265	52548.359	15:31:32.80	07/11/12	8	0
8.000	1.255	52548.326	15:31:32.70	07/11/12	8	0
8.000	1.245	52548.311	15:31:32.60	07/11/12	8	0
8.000	1.235	52548.398	15:31:32.50	07/11/12	8	0
8.000	1.226	52548.475	15:31:32.40	07/11/12	8	0
8.000	1.216	52548.530	15:31:32.30	07/11/12	8	0
8.000	1.206	52548.494	15:31:32.20	07/11/12	8	0
8.000	1.197	52548.438	15:31:32.10	07/11/12	8	0
8.000	1.187	52548.312	15:31:32.00	07/11/12	8	0
8.000	1.177	52548.197	15:31:31.90	07/11/12	8	0
8.000	1.168	52548.087	15:31:31.80	07/11/12	8	0
8.000	1.158	52548.010	15:31:31.70	07/11/12	8	0
8.000	1.148	52547.895	15:31:31.60	07/11/12	8	0
8.000	1.139	52547.992	15:31:31.50	07/11/12	8	0
8.000	1.129	52548.101	15:31:31.40	07/11/12	8	0
8.000	1.119	52548.277	15:31:31.30	07/11/12	8	0
8.000	1.109	52548.208	15:31:31.20	07/11/12	8	0
8.000	1.100	52548.170	15:31:31.10	07/11/12	8	0
8.000	1.090	52548.209	15:31:31.00	07/11/12	8	0
8.000	1.080	52548.435	15:31:30.90	07/11/12	8	0
8.000	1.071	52548.710	15:31:30.80	07/11/12	8	0
8.000	1.061	52549.026	15:31:30.70	07/11/12	8	0
8.000	1.051	52549.057	15:31:30.60	07/11/12	8	0
8.000	1.042	52549.103	15:31:30.50	07/11/12	8	0
8.000	1.032	52548.994	15:31:30.40	07/11/12	8	0
8.000	1.022	52549.041	15:31:30.30	07/11/12	8	0
8.000	1.013	52549.145	15:31:30.20	07/11/12	8	0
8.000	1.003	52549.010	15:31:30.10	07/11/12	8	0
8.000	0.993	52548.750	15:31:30.00	07/11/12	8	0
8.000	0.984	52548.532	15:31:29.90	07/11/12	8	0
8.000	0.974	52548.297	15:31:29.80	07/11/12	8	0
8.000	0.964	52548.142	15:31:29.70	07/11/12	8	0
8.000	0.954	52548.017	15:31:29.60	07/11/12	8	0
8.000	0.945	52548.001	15:31:29.50	07/11/12	8	0
8.000	0.935	52547.981	15:31:29.40	07/11/12	8	0

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8.000	0.925	52547.933	15:31:29.30	07/11/12	8	0
8.000	0.916	52547.880	15:31:29.20	07/11/12	8	0
8.000	0.906	52547.709	15:31:29.10	07/11/12	8	0
8.000	0.896	52547.339	15:31:29.00	07/11/12	8	0
8.000	0.887	52547.142	15:31:28.90	07/11/12	8	0
8.000	0.877	52547.127	15:31:28.80	07/11/12	8	0
8.000	0.867	52547.295	15:31:28.70	07/11/12	8	0
8.000	0.858	52547.477	15:31:28.60	07/11/12	8	0
8.000	0.848	52547.587	15:31:28.50	07/11/12	8	0
8.000	0.838	52547.635	15:31:28.40	07/11/12	8	0
8.000	0.828	52547.648	15:31:28.30	07/11/12	8	0
8.000	0.819	52547.578	15:31:28.20	07/11/12	8	0
8.000	0.809	52547.429	15:31:28.10	07/11/12	8	0
8.000	0.799	52547.311	15:31:28.00	07/11/12	8	0
8.000	0.790	52547.094	15:31:27.90	07/11/12	8	0
8.000	0.780	52546.975	15:31:27.80	07/11/12	8	0
8.000	0.770	52546.706	15:31:27.70	07/11/12	8	0
8.000	0.761	52546.644	15:31:27.60	07/11/12	8	0
8.000	0.751	52546.602	15:31:27.50	07/11/12	8	0
8.000	0.741	52546.580	15:31:27.40	07/11/12	8	0
8.000	0.732	52546.521	15:31:27.30	07/11/12	8	0
8.000	0.722	52546.539	15:31:27.20	07/11/12	8	0
8.000	0.712	52546.569	15:31:27.10	07/11/12	8	0
8.000	0.703	52546.571	15:31:27.00	07/11/12	8	0
8.000	0.693	52546.728	15:31:26.90	07/11/12	8	0
8.000	0.683	52546.782	15:31:26.80	07/11/12	8	0
8.000	0.673	52546.723	15:31:26.70	07/11/12	8	0
8.000	0.664	52546.635	15:31:26.60	07/11/12	8	0
8.000	0.654	52546.651	15:31:26.50	07/11/12	8	0
8.000	0.644	52546.505	15:31:26.40	07/11/12	8	0
8.000	0.635	52546.202	15:31:26.30	07/11/12	8	0
8.000	0.625	52546.015	15:31:26.20	07/11/12	8	0
8.000	0.615	52545.959	15:31:26.10	07/11/12	8	0
8.000	0.606	52546.121	15:31:26.00	07/11/12	8	0
8.000	0.596	52546.165	15:31:25.90	07/11/12	8	0
8.000	0.586	52546.143	15:31:25.80	07/11/12	8	0
8.000	0.577	52546.060	15:31:25.70	07/11/12	8	0
8.000	0.567	52546.030	15:31:25.60	07/11/12	8	0
8.000	0.557	52546.109	15:31:25.50	07/11/12	8	0
8.000	0.547	52546.313	15:31:25.40	07/11/12	8	0
8.000	0.538	52546.090	15:31:25.30	07/11/12	8	0
8.000	0.528	52545.944	15:31:25.20	07/11/12	8	0
8.000	0.518	52545.905	15:31:25.10	07/11/12	8	0
8.000	0.509	52545.914	15:31:25.00	07/11/12	8	0
8.000	0.499	52545.967	15:31:24.90	07/11/12	8	0
8.000	0.489	52546.001	15:31:24.80	07/11/12	8	0
8.000	0.480	52545.956	15:31:24.70	07/11/12	8	0
8.000	0.470	52545.671	15:31:24.60	07/11/12	8	0
8.000	0.460	52545.132	15:31:24.50	07/11/12	8	0
8.000	0.451	52544.736	15:31:24.40	07/11/12	8	0
8.000	0.441	52544.186	15:31:24.30	07/11/12	8	0
8.000	0.431	52543.734	15:31:24.20	07/11/12	8	0
8.000	0.422	52543.488	15:31:24.10	07/11/12	8	0
8.000	0.412	52543.570	15:31:24.00	07/11/12	8	0
8.000	0.402	52543.754	15:31:23.90	07/11/12	8	0
8.000	0.392	52544.018	15:31:23.80	07/11/12	8	0
8.000	0.383	52544.058	15:31:23.70	07/11/12	8	0
8.000	0.373	52543.837	15:31:23.60	07/11/12	8	0
8.000	0.363	52543.433	15:31:23.50	07/11/12	8	0
8.000	0.354	52543.199	15:31:23.40	07/11/12	8	0
8.000	0.344	52542.655	15:31:23.30	07/11/12	8	0
8.000	0.334	52542.305	15:31:23.20	07/11/12	8	0
8.000	0.325	52542.217	15:31:23.10	07/11/12	8	0

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8.000	0.315	52542.472	15:31:23.00	07/11/12	8	0
8.000	0.305	52542.679	15:31:22.90	07/11/12	8	0
8.000	0.296	52543.071	15:31:22.80	07/11/12	8	0
8.000	0.286	52543.408	15:31:22.70	07/11/12	8	0
8.000	0.276	52543.734	15:31:22.60	07/11/12	8	0
8.000	0.266	52544.081	15:31:22.50	07/11/12	8	0
8.000	0.257	52544.702	15:31:22.40	07/11/12	8	0
8.000	0.247	52545.332	15:31:22.30	07/11/12	8	0
8.000	0.237	52545.538	15:31:22.20	07/11/12	8	0
8.000	0.228	52545.173	15:31:22.10	07/11/12	8	0
8.000	0.218	52544.869	15:31:22.00	07/11/12	8	0
8.000	0.208	52544.967	15:31:21.90	07/11/12	8	0
8.000	0.199	52545.063	15:31:21.80	07/11/12	8	0
8.000	0.189	52544.768	15:31:21.70	07/11/12	8	0
8.000	0.179	52544.220	15:31:21.60	07/11/12	8	0
8.000	0.170	52544.060	15:31:21.50	07/11/12	8	0
8.000	0.160	52544.435	15:31:21.40	07/11/12	8	0
8.000	0.150	52544.867	15:31:21.30	07/11/12	8	0
8.000	0.141	52544.909	15:31:21.20	07/11/12	8	0
8.000	0.131	52544.409	15:31:21.10	07/11/12	8	0
8.000	0.121	52544.014	15:31:21.00	07/11/12	8	0
8.000	0.111	52543.991	15:31:20.90	07/11/12	8	0
8.000	0.102	52544.440	15:31:20.80	07/11/12	8	0
8.000	0.092	52544.791	15:31:20.70	07/11/12	8	0
8.000	0.082	52545.293	15:31:20.60	07/11/12	8	0
8.000	0.073	52545.944	15:31:20.50	07/11/12	8	0
8.000	0.063	52546.947	15:31:20.40	07/11/12	8	0
8.000	0.053	52547.783	15:31:20.30	07/11/12	8	0
8.000	0.044	52548.155	15:31:20.20	07/11/12	8	0
8.000	0.034	52547.911	15:31:20.10	07/11/12	8	0
8.000	0.024	52547.577	15:31:20.00	07/11/12	8	0
8.000	0.015	52547.432	15:31:19.90	07/11/12	8	0
8.000	0.005	52547.360	15:31:19.80	07/11/12	8	0
LINE 7						
7.000	0.006	52714.037	15:31:11.40	07/11/12	7	0
7.000	0.017	52717.705	15:31:11.30	07/11/12	7	0
7.000	0.029	52721.089	15:31:11.20	07/11/12	7	0
7.000	0.041	52722.981	15:31:11.10	07/11/12	7	0
7.000	0.052	52725.121	15:31:11.00	07/11/12	7	0
7.000	0.064	52728.038	15:31:10.90	07/11/12	7	0
7.000	0.075	52728.434	15:31:10.80	07/11/12	7	0
7.000	0.087	52727.463	15:31:10.70	07/11/12	7	0
7.000	0.098	52725.616	15:31:10.60	07/11/12	7	0
7.000	0.110	52723.041	15:31:10.50	07/11/12	7	0
7.000	0.122	52720.622	15:31:10.40	07/11/12	7	0
7.000	0.133	52718.820	15:31:10.30	07/11/12	7	0
7.000	0.145	52719.249	15:31:10.20	07/11/12	7	0
7.000	0.156	52720.182	15:31:10.10	07/11/12	7	0
7.000	0.168	52719.580	15:31:10.00	07/11/12	7	0
7.000	0.179	52719.127	15:31:09.90	07/11/12	7	0
7.000	0.191	52719.134	15:31:09.80	07/11/12	7	0
7.000	0.203	52718.818	15:31:09.70	07/11/12	7	0
7.000	0.214	52718.495	15:31:09.60	07/11/12	7	0
7.000	0.226	52718.333	15:31:09.50	07/11/12	7	0
7.000	0.237	52717.939	15:31:09.40	07/11/12	7	0
7.000	0.249	52717.069	15:31:09.30	07/11/12	7	0
7.000	0.260	52717.016	15:31:09.20	07/11/12	7	0
7.000	0.272	52717.336	15:31:09.10	07/11/12	7	0
7.000	0.284	52716.648	15:31:09.00	07/11/12	7	0
7.000	0.295	52715.771	15:31:08.90	07/11/12	7	0
7.000	0.307	52714.880	15:31:08.80	07/11/12	7	0
7.000	0.318	52714.997	15:31:08.70	07/11/12	7	0
7.000	0.330	52715.951	15:31:08.60	07/11/12	7	0

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7.000	0.341	52716.076	15:31:08.50	07/11/12	7	0
7.000	0.353	52715.331	15:31:08.40	07/11/12	7	0
7.000	0.365	52714.551	15:31:08.30	07/11/12	7	0
7.000	0.376	52714.023	15:31:08.20	07/11/12	7	0
7.000	0.388	52713.060	15:31:08.10	07/11/12	7	0
7.000	0.399	52712.336	15:31:08.00	07/11/12	7	0
7.000	0.411	52712.511	15:31:07.90	07/11/12	7	0
7.000	0.422	52712.938	15:31:07.80	07/11/12	7	0
7.000	0.434	52713.216	15:31:07.70	07/11/12	7	0
7.000	0.446	52714.181	15:31:07.60	07/11/12	7	0
7.000	0.457	52714.827	15:31:07.50	07/11/12	7	0
7.000	0.469	52714.588	15:31:07.40	07/11/12	7	0
7.000	0.480	52714.299	15:31:07.30	07/11/12	7	0
7.000	0.492	52714.463	15:31:07.20	07/11/12	7	0
7.000	0.503	52714.120	15:31:07.10	07/11/12	7	0
7.000	0.515	52713.116	15:31:07.00	07/11/12	7	0
7.000	0.527	52711.999	15:31:06.90	07/11/12	7	0
7.000	0.538	52710.346	15:31:06.80	07/11/12	7	0
7.000	0.550	52709.051	15:31:06.70	07/11/12	7	0
7.000	0.561	52709.042	15:31:06.60	07/11/12	7	0
7.000	0.573	52709.757	15:31:06.50	07/11/12	7	0
7.000	0.584	52710.565	15:31:06.40	07/11/12	7	0
7.000	0.596	52710.155	15:31:06.30	07/11/12	7	0
7.000	0.608	52709.068	15:31:06.20	07/11/12	7	0
7.000	0.619	52708.209	15:31:06.10	07/11/12	7	0
7.000	0.631	52707.867	15:31:06.00	07/11/12	7	0
7.000	0.642	52708.315	15:31:05.90	07/11/12	7	0
7.000	0.654	52708.731	15:31:05.80	07/11/12	7	0
7.000	0.666	52708.976	15:31:05.70	07/11/12	7	0
7.000	0.677	52708.896	15:31:05.60	07/11/12	7	0
7.000	0.689	52708.749	15:31:05.50	07/11/12	7	0
7.000	0.700	52708.425	15:31:05.40	07/11/12	7	0
7.000	0.712	52707.994	15:31:05.30	07/11/12	7	0
7.000	0.723	52707.434	15:31:05.20	07/11/12	7	0
7.000	0.735	52707.528	15:31:05.10	07/11/12	7	0
7.000	0.747	52707.799	15:31:05.00	07/11/12	7	0
7.000	0.758	52708.292	15:31:04.90	07/11/12	7	0
7.000	0.770	52708.346	15:31:04.80	07/11/12	7	0
7.000	0.781	52708.884	15:31:04.70	07/11/12	7	0
7.000	0.793	52709.283	15:31:04.60	07/11/12	7	0
7.000	0.804	52709.615	15:31:04.50	07/11/12	7	0
7.000	0.816	52709.700	15:31:04.40	07/11/12	7	0
7.000	0.828	52709.723	15:31:04.30	07/11/12	7	0
7.000	0.839	52709.570	15:31:04.20	07/11/12	7	0
7.000	0.851	52708.971	15:31:04.10	07/11/12	7	0
7.000	0.862	52708.079	15:31:04.00	07/11/12	7	0
7.000	0.874	52707.154	15:31:03.90	07/11/12	7	0
7.000	0.885	52706.729	15:31:03.80	07/11/12	7	0
7.000	0.897	52707.450	15:31:03.70	07/11/12	7	0
7.000	0.909	52708.539	15:31:03.60	07/11/12	7	0
7.000	0.920	52709.780	15:31:03.50	07/11/12	7	0
7.000	0.932	52710.445	15:31:03.40	07/11/12	7	0
7.000	0.943	52710.083	15:31:03.30	07/11/12	7	0
7.000	0.955	52709.425	15:31:03.20	07/11/12	7	0
7.000	0.966	52708.625	15:31:03.10	07/11/12	7	0
7.000	0.978	52708.222	15:31:03.00	07/11/12	7	0
7.000	0.990	52708.794	15:31:02.90	07/11/12	7	0
7.000	1.001	52710.865	15:31:02.80	07/11/12	7	0
7.000	1.013	52714.285	15:31:02.70	07/11/12	7	0
7.000	1.024	52716.354	15:31:02.60	07/11/12	7	0
7.000	1.036	52717.382	15:31:02.50	07/11/12	7	0
7.000	1.047	52717.895	15:31:02.40	07/11/12	7	0
7.000	1.059	52717.922	15:31:02.30	07/11/12	7	0

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7.000	1.071	52717.726	15:31:02.20	07/11/12	7	0
7.000	1.082	52717.230	15:31:02.10	07/11/12	7	0
7.000	1.094	52716.340	15:31:02.00	07/11/12	7	0
7.000	1.105	52715.864	15:31:01.90	07/11/12	7	0
7.000	1.117	52714.834	15:31:01.80	07/11/12	7	0
7.000	1.128	52714.270	15:31:01.70	07/11/12	7	0
7.000	1.140	52713.650	15:31:01.60	07/11/12	7	0
7.000	1.152	52712.937	15:31:01.50	07/11/12	7	0
7.000	1.163	52713.507	15:31:01.40	07/11/12	7	0
7.000	1.175	52714.424	15:31:01.30	07/11/12	7	0
7.000	1.186	52714.662	15:31:01.20	07/11/12	7	0
7.000	1.198	52714.434	15:31:01.10	07/11/12	7	0
7.000	1.209	52714.216	15:31:01.00	07/11/12	7	0
7.000	1.221	52714.420	15:31:00.90	07/11/12	7	0
7.000	1.233	52713.754	15:31:00.80	07/11/12	7	0
7.000	1.244	52712.786	15:31:00.70	07/11/12	7	0
7.000	1.256	52712.177	15:31:00.60	07/11/12	7	0
7.000	1.267	52711.864	15:31:00.50	07/11/12	7	0
7.000	1.279	52712.459	15:31:00.40	07/11/12	7	0
7.000	1.291	52713.915	15:31:00.30	07/11/12	7	0
7.000	1.302	52714.559	15:31:00.20	07/11/12	7	0
7.000	1.314	52715.244	15:31:00.10	07/11/12	7	0
7.000	1.325	52715.411	15:31:00.00	07/11/12	7	0
7.000	1.337	52715.515	15:30:59.90	07/11/12	7	0
7.000	1.348	52715.962	15:30:59.80	07/11/12	7	0
7.000	1.360	52716.455	15:30:59.70	07/11/12	7	0
7.000	1.372	52716.948	15:30:59.60	07/11/12	7	0
7.000	1.383	52716.595	15:30:59.50	07/11/12	7	0
7.000	1.395	52716.073	15:30:59.40	07/11/12	7	0
7.000	1.406	52715.931	15:30:59.30	07/11/12	7	0
7.000	1.418	52715.896	15:30:59.20	07/11/12	7	0
7.000	1.429	52716.080	15:30:59.10	07/11/12	7	0
7.000	1.441	52716.222	15:30:59.00	07/11/12	7	0
7.000	1.453	52716.128	15:30:58.90	07/11/12	7	0
7.000	1.464	52716.112	15:30:58.80	07/11/12	7	0
7.000	1.476	52716.508	15:30:58.70	07/11/12	7	0
7.000	1.487	52716.542	15:30:58.60	07/11/12	7	0
7.000	1.499	52716.164	15:30:58.50	07/11/12	7	0
7.000	1.510	52715.941	15:30:58.40	07/11/12	7	0
7.000	1.522	52715.441	15:30:58.30	07/11/12	7	0
7.000	1.534	52714.794	15:30:58.20	07/11/12	7	0
7.000	1.545	52714.726	15:30:58.10	07/11/12	7	0
7.000	1.557	52715.031	15:30:58.00	07/11/12	7	0
7.000	1.568	52714.563	15:30:57.90	07/11/12	7	0
7.000	1.580	52713.655	15:30:57.80	07/11/12	7	0
7.000	1.591	52713.672	15:30:57.70	07/11/12	7	0
7.000	1.603	52713.699	15:30:57.60	07/11/12	7	0
7.000	1.615	52713.248	15:30:57.50	07/11/12	7	0
7.000	1.626	52711.670	15:30:57.40	07/11/12	7	0
7.000	1.638	52710.010	15:30:57.30	07/11/12	7	0
7.000	1.649	52708.996	15:30:57.20	07/11/12	7	0
7.000	1.661	52708.263	15:30:57.10	07/11/12	7	0
7.000	1.672	52708.369	15:30:57.00	07/11/12	7	0
7.000	1.684	52708.618	15:30:56.90	07/11/12	7	0
7.000	1.696	52708.966	15:30:56.80	07/11/12	7	0
7.000	1.707	52709.334	15:30:56.70	07/11/12	7	0
7.000	1.719	52710.092	15:30:56.60	07/11/12	7	0
7.000	1.730	52710.787	15:30:56.50	07/11/12	7	0
7.000	1.742	52711.208	15:30:56.40	07/11/12	7	0
7.000	1.753	52710.973	15:30:56.30	07/11/12	7	0
7.000	1.765	52710.712	15:30:56.20	07/11/12	7	0
7.000	1.777	52711.065	15:30:56.10	07/11/12	7	0
7.000	1.788	52711.970	15:30:56.00	07/11/12	7	0

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7.000	1.800	52712.404	15:30:55.90	07/11/12	7	0
7.000	1.811	52713.150	15:30:55.80	07/11/12	7	0
7.000	1.823	52714.503	15:30:55.70	07/11/12	7	0
7.000	1.834	52716.282	15:30:55.60	07/11/12	7	0
7.000	1.846	52717.813	15:30:55.50	07/11/12	7	0
7.000	1.858	52719.025	15:30:55.40	07/11/12	7	0
7.000	1.869	52719.630	15:30:55.30	07/11/12	7	0
7.000	1.881	52719.176	15:30:55.20	07/11/12	7	0
7.000	1.892	52718.407	15:30:55.10	07/11/12	7	0
7.000	1.904	52718.276	15:30:55.00	07/11/12	7	0
7.000	1.916	52718.446	15:30:54.90	07/11/12	7	0
7.000	1.927	52719.027	15:30:54.80	07/11/12	7	0
7.000	1.939	52719.369	15:30:54.70	07/11/12	7	0
7.000	1.950	52720.180	15:30:54.60	07/11/12	7	0
7.000	1.962	52721.169	15:30:54.50	07/11/12	7	0
7.000	1.973	52720.884	15:30:54.40	07/11/12	7	0
7.000	1.985	52720.079	15:30:54.30	07/11/12	7	0
7.000	1.997	52719.130	15:30:54.20	07/11/12	7	0
7.000	2.008	52718.736	15:30:54.10	07/11/12	7	0
7.000	2.020	52718.511	15:30:54.00	07/11/12	7	0
7.000	2.031	52717.910	15:30:53.90	07/11/12	7	0
7.000	2.043	52717.751	15:30:53.80	07/11/12	7	0
7.000	2.054	52717.841	15:30:53.70	07/11/12	7	0
7.000	2.066	52718.085	15:30:53.60	07/11/12	7	0
7.000	2.078	52717.794	15:30:53.50	07/11/12	7	0
7.000	2.089	52717.445	15:30:53.40	07/11/12	7	0
7.000	2.101	52716.837	15:30:53.30	07/11/12	7	0
7.000	2.112	52715.705	15:30:53.20	07/11/12	7	0
7.000	2.124	52714.307	15:30:53.10	07/11/12	7	0
7.000	2.135	52713.720	15:30:53.00	07/11/12	7	0
7.000	2.147	52713.287	15:30:52.90	07/11/12	7	0
7.000	2.159	52713.181	15:30:52.80	07/11/12	7	0
7.000	2.170	52712.854	15:30:52.70	07/11/12	7	0
7.000	2.182	52712.369	15:30:52.60	07/11/12	7	0
7.000	2.193	52711.408	15:30:52.50	07/11/12	7	0
7.000	2.205	52710.472	15:30:52.40	07/11/12	7	0
7.000	2.216	52709.701	15:30:52.30	07/11/12	7	0
7.000	2.228	52709.802	15:30:52.20	07/11/12	7	0
7.000	2.240	52710.289	15:30:52.10	07/11/12	7	0
7.000	2.251	52710.706	15:30:52.00	07/11/12	7	0
7.000	2.263	52711.156	15:30:51.90	07/11/12	7	0
7.000	2.274	52711.707	15:30:51.80	07/11/12	7	0
7.000	2.286	52712.835	15:30:51.70	07/11/12	7	0
7.000	2.297	52714.104	15:30:51.60	07/11/12	7	0
7.000	2.309	52714.439	15:30:51.50	07/11/12	7	0
7.000	2.321	52714.427	15:30:51.40	07/11/12	7	0
7.000	2.332	52713.802	15:30:51.30	07/11/12	7	0
7.000	2.344	52712.861	15:30:51.20	07/11/12	7	0
7.000	2.355	52711.830	15:30:51.10	07/11/12	7	0
7.000	2.367	52711.262	15:30:51.00	07/11/12	7	0
7.000	2.378	52711.088	15:30:50.90	07/11/12	7	0
7.000	2.390	52710.894	15:30:50.80	07/11/12	7	0
7.000	2.402	52710.790	15:30:50.70	07/11/12	7	0
7.000	2.413	52710.918	15:30:50.60	07/11/12	7	0
7.000	2.425	52710.974	15:30:50.50	07/11/12	7	0
7.000	2.436	52711.815	15:30:50.40	07/11/12	7	0
7.000	2.448	52712.270	15:30:50.30	07/11/12	7	0
7.000	2.459	52713.127	15:30:50.20	07/11/12	7	0
7.000	2.471	52714.932	15:30:50.10	07/11/12	7	0
7.000	2.483	52716.646	15:30:50.00	07/11/12	7	0
7.000	2.494	52717.776	15:30:49.90	07/11/12	7	0
LINE 6						
6.000	2.495	56263.870	15:30:35.50	07/11/12	6	0

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6.000	2.486	56266.635	15:30:35.40	07/11/12	6	0
6.000	2.476	56269.858	15:30:35.30	07/11/12	6	0
6.000	2.466	56271.356	15:30:35.20	07/11/12	6	0
6.000	2.457	56272.844	15:30:35.10	07/11/12	6	0
6.000	2.447	56277.544	15:30:35.00	07/11/12	6	0
6.000	2.438	56281.001	15:30:34.90	07/11/12	6	0
6.000	2.428	56287.170	15:30:34.80	07/11/12	6	0
6.000	2.419	56298.831	15:30:34.70	07/11/12	6	0
6.000	2.409	56320.503	15:30:34.60	07/11/12	6	0
6.000	2.399	56339.776	15:30:34.50	07/11/12	6	0
6.000	2.390	56335.199	15:30:34.40	07/11/12	6	0
6.000	2.380	56322.372	15:30:34.30	07/11/12	6	0
6.000	2.371	56316.991	15:30:34.20	07/11/12	6	0
6.000	2.361	56322.754	15:30:34.10	07/11/12	6	0
6.000	2.352	56331.242	15:30:34.00	07/11/12	6	0
6.000	2.342	56350.108	15:30:33.90	07/11/12	6	0
6.000	2.332	56378.623	15:30:33.80	07/11/12	6	0
6.000	2.323	56405.738	15:30:33.70	07/11/12	6	0
6.000	2.313	56427.433	15:30:33.60	07/11/12	6	0
6.000	2.304	56431.363	15:30:33.50	07/11/12	6	0
6.000	2.294	56426.582	15:30:33.40	07/11/12	6	0
6.000	2.284	56426.350	15:30:33.30	07/11/12	6	0
6.000	2.275	56432.182	15:30:33.20	07/11/12	6	0
6.000	2.265	56443.883	15:30:33.10	07/11/12	6	0
6.000	2.256	56452.770	15:30:33.00	07/11/12	6	0
6.000	2.246	56455.940	15:30:32.90	07/11/12	6	0
6.000	2.237	56458.072	15:30:32.80	07/11/12	6	0
6.000	2.227	56460.573	15:30:32.70	07/11/12	6	0
6.000	2.217	56454.819	15:30:32.60	07/11/12	6	0
6.000	2.208	56440.223	15:30:32.50	07/11/12	6	0
6.000	2.198	56426.218	15:30:32.40	07/11/12	6	0
6.000	2.189	56429.711	15:30:32.30	07/11/12	6	0
6.000	2.179	56443.450	15:30:32.20	07/11/12	6	0
6.000	2.170	56456.609	15:30:32.10	07/11/12	6	0
6.000	2.160	56465.881	15:30:32.00	07/11/12	6	0
6.000	2.150	56471.682	15:30:31.90	07/11/12	6	0
6.000	2.141	56476.585	15:30:31.80	07/11/12	6	0
6.000	2.131	56482.439	15:30:31.70	07/11/12	6	0
6.000	2.122	56485.769	15:30:31.60	07/11/12	6	0
6.000	2.112	56481.702	15:30:31.50	07/11/12	6	0
6.000	2.102	56477.941	15:30:31.40	07/11/12	6	0
6.000	2.093	56484.122	15:30:31.30	07/11/12	6	0
6.000	2.083	56495.571	15:30:31.20	07/11/12	6	0
6.000	2.074	56495.103	15:30:31.10	07/11/12	6	0
6.000	2.064	56480.216	15:30:31.00	07/11/12	6	0
6.000	2.055	56466.104	15:30:30.90	07/11/12	6	0
6.000	2.045	56461.873	15:30:30.80	07/11/12	6	0
6.000	2.035	56458.952	15:30:30.70	07/11/12	6	0
6.000	2.026	56453.621	15:30:30.60	07/11/12	6	0
6.000	2.016	56447.494	15:30:30.50	07/11/12	6	0
6.000	2.007	56447.546	15:30:30.40	07/11/12	6	0
6.000	1.997	56453.449	15:30:30.30	07/11/12	6	0
6.000	1.988	56457.913	15:30:30.20	07/11/12	6	0
6.000	1.978	56452.359	15:30:30.10	07/11/12	6	0
6.000	1.968	56441.937	15:30:30.00	07/11/12	6	0
6.000	1.959	56434.247	15:30:29.90	07/11/12	6	0
6.000	1.949	56428.827	15:30:29.80	07/11/12	6	0
6.000	1.940	56426.348	15:30:29.70	07/11/12	6	0
6.000	1.930	56424.428	15:30:29.60	07/11/12	6	0
6.000	1.920	56421.608	15:30:29.50	07/11/12	6	0
6.000	1.911	56423.263	15:30:29.40	07/11/12	6	0
6.000	1.901	56432.478	15:30:29.30	07/11/12	6	0
6.000	1.892	56446.035	15:30:29.20	07/11/12	6	0

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6.000	1.882	56457.427	15:30:29.10	07/11/12	6	0
6.000	1.873	56463.725	15:30:29.00	07/11/12	6	0
6.000	1.863	56466.441	15:30:28.90	07/11/12	6	0
6.000	1.853	56465.237	15:30:28.80	07/11/12	6	0
6.000	1.844	56473.113	15:30:28.70	07/11/12	6	0
6.000	1.834	56489.979	15:30:28.60	07/11/12	6	0
6.000	1.825	56503.592	15:30:28.50	07/11/12	6	0
6.000	1.815	56514.731	15:30:28.40	07/11/12	6	0
6.000	1.806	56518.891	15:30:28.30	07/11/12	6	0
6.000	1.796	56517.052	15:30:28.20	07/11/12	6	0
6.000	1.786	56507.655	15:30:28.10	07/11/12	6	0
6.000	1.777	56487.789	15:30:28.00	07/11/12	6	0
6.000	1.767	56468.594	15:30:27.90	07/11/12	6	0
6.000	1.758	56456.304	15:30:27.80	07/11/12	6	0
6.000	1.748	56462.115	15:30:27.70	07/11/12	6	0
6.000	1.739	56485.514	15:30:27.60	07/11/12	6	0
6.000	1.729	56505.059	15:30:27.50	07/11/12	6	0
6.000	1.719	56502.253	15:30:27.40	07/11/12	6	0
6.000	1.710	56485.407	15:30:27.30	07/11/12	6	0
6.000	1.700	56467.664	15:30:27.20	07/11/12	6	0
6.000	1.691	56455.657	15:30:27.10	07/11/12	6	0
6.000	1.681	56434.848	15:30:27.00	07/11/12	6	0
6.000	1.671	56395.037	15:30:26.90	07/11/12	6	0
6.000	1.662	56347.759	15:30:26.80	07/11/12	6	0
6.000	1.652	56308.065	15:30:26.70	07/11/12	6	0
6.000	1.643	56281.360	15:30:26.60	07/11/12	6	0
6.000	1.633	56265.041	15:30:26.50	07/11/12	6	0
6.000	1.624	56250.660	15:30:26.40	07/11/12	6	0
6.000	1.614	56243.887	15:30:26.30	07/11/12	6	0
6.000	1.604	56235.447	15:30:26.20	07/11/12	6	0
6.000	1.595	56224.376	15:30:26.10	07/11/12	6	0
6.000	1.585	56218.497	15:30:26.00	07/11/12	6	0
6.000	1.576	56216.034	15:30:25.90	07/11/12	6	0
6.000	1.566	56208.024	15:30:25.80	07/11/12	6	0
6.000	1.557	56197.716	15:30:25.70	07/11/12	6	0
6.000	1.547	56189.377	15:30:25.60	07/11/12	6	0
6.000	1.537	56188.140	15:30:25.50	07/11/12	6	0
6.000	1.528	56191.581	15:30:25.40	07/11/12	6	0
6.000	1.518	56195.236	15:30:25.30	07/11/12	6	0
6.000	1.509	56199.153	15:30:25.20	07/11/12	6	0
6.000	1.499	56203.959	15:30:25.10	07/11/12	6	0
6.000	1.489	56205.832	15:30:25.00	07/11/12	6	0
6.000	1.480	56202.748	15:30:24.90	07/11/12	6	0
6.000	1.470	56203.184	15:30:24.80	07/11/12	6	0
6.000	1.461	56209.621	15:30:24.70	07/11/12	6	0
6.000	1.451	56219.606	15:30:24.60	07/11/12	6	0
6.000	1.442	56239.280	15:30:24.50	07/11/12	6	0
6.000	1.432	56259.594	15:30:24.40	07/11/12	6	0
6.000	1.422	56272.128	15:30:24.30	07/11/12	6	0
6.000	1.413	56280.522	15:30:24.20	07/11/12	6	0
6.000	1.403	56291.235	15:30:24.10	07/11/12	6	0
6.000	1.394	56303.647	15:30:24.00	07/11/12	6	0
6.000	1.384	56314.241	15:30:23.90	07/11/12	6	0
6.000	1.375	56323.524	15:30:23.80	07/11/12	6	0
6.000	1.365	56332.030	15:30:23.70	07/11/12	6	0
6.000	1.355	56334.843	15:30:23.60	07/11/12	6	0
6.000	1.346	56330.011	15:30:23.50	07/11/12	6	0
6.000	1.336	56320.515	15:30:23.40	07/11/12	6	0
6.000	1.327	56314.917	15:30:23.30	07/11/12	6	0
6.000	1.317	56323.591	15:30:23.20	07/11/12	6	0
6.000	1.307	56331.016	15:30:23.10	07/11/12	6	0
6.000	1.298	56324.823	15:30:23.00	07/11/12	6	0
6.000	1.288	56315.265	15:30:22.90	07/11/12	6	0

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6.000	1.279	56311.099	15:30:22.80	07/11/12	6	0
6.000	1.269	56300.941	15:30:22.70	07/11/12	6	0
6.000	1.260	56287.202	15:30:22.60	07/11/12	6	0
6.000	1.250	56279.211	15:30:22.50	07/11/12	6	0
6.000	1.240	56277.494	15:30:22.40	07/11/12	6	0
6.000	1.231	56279.177	15:30:22.30	07/11/12	6	0
6.000	1.221	56283.577	15:30:22.20	07/11/12	6	0
6.000	1.212	56290.667	15:30:22.10	07/11/12	6	0
6.000	1.202	56298.079	15:30:22.00	07/11/12	6	0
6.000	1.193	56299.948	15:30:21.90	07/11/12	6	0
6.000	1.183	56288.870	15:30:21.80	07/11/12	6	0
6.000	1.173	56277.733	15:30:21.70	07/11/12	6	0
6.000	1.164	56271.743	15:30:21.60	07/11/12	6	0
6.000	1.154	56265.034	15:30:21.50	07/11/12	6	0
6.000	1.145	56257.105	15:30:21.40	07/11/12	6	0
6.000	1.135	56252.594	15:30:21.30	07/11/12	6	0
6.000	1.125	56255.193	15:30:21.20	07/11/12	6	0
6.000	1.116	56260.001	15:30:21.10	07/11/12	6	0
6.000	1.106	56259.494	15:30:21.00	07/11/12	6	0
6.000	1.097	56256.750	15:30:20.90	07/11/12	6	0
6.000	1.087	56253.471	15:30:20.80	07/11/12	6	0
6.000	1.078	56248.718	15:30:20.70	07/11/12	6	0
6.000	1.068	56243.883	15:30:20.60	07/11/12	6	0
6.000	1.058	56240.173	15:30:20.50	07/11/12	6	0
6.000	1.049	56238.760	15:30:20.40	07/11/12	6	0
6.000	1.039	56237.916	15:30:20.30	07/11/12	6	0
6.000	1.030	56235.651	15:30:20.20	07/11/12	6	0
6.000	1.020	56235.731	15:30:20.10	07/11/12	6	0
6.000	1.011	56240.556	15:30:20.00	07/11/12	6	0
6.000	1.001	56253.817	15:30:19.90	07/11/12	6	0
6.000	0.991	56274.320	15:30:19.80	07/11/12	6	0
6.000	0.982	56291.760	15:30:19.70	07/11/12	6	0
6.000	0.972	56308.575	15:30:19.60	07/11/12	6	0
6.000	0.963	56321.195	15:30:19.50	07/11/12	6	0
6.000	0.953	56324.426	15:30:19.40	07/11/12	6	0
6.000	0.943	56320.393	15:30:19.30	07/11/12	6	0
6.000	0.934	56310.873	15:30:19.20	07/11/12	6	0
6.000	0.924	56303.052	15:30:19.10	07/11/12	6	0
6.000	0.915	56304.318	15:30:19.00	07/11/12	6	0
6.000	0.905	56320.342	15:30:18.90	07/11/12	6	0
6.000	0.896	56342.502	15:30:18.80	07/11/12	6	0
6.000	0.886	56353.934	15:30:18.70	07/11/12	6	0
6.000	0.876	56353.823	15:30:18.60	07/11/12	6	0
6.000	0.867	56345.648	15:30:18.50	07/11/12	6	0
6.000	0.857	56338.821	15:30:18.40	07/11/12	6	0
6.000	0.848	56337.126	15:30:18.30	07/11/12	6	0
6.000	0.838	56337.009	15:30:18.20	07/11/12	6	0
6.000	0.829	56332.494	15:30:18.10	07/11/12	6	0
6.000	0.819	56321.367	15:30:18.00	07/11/12	6	0
6.000	0.809	56312.081	15:30:17.90	07/11/12	6	0
6.000	0.800	56319.284	15:30:17.80	07/11/12	6	0
6.000	0.790	56348.855	15:30:17.70	07/11/12	6	0
6.000	0.781	56380.302	15:30:17.60	07/11/12	6	0
6.000	0.771	56393.579	15:30:17.50	07/11/12	6	0
6.000	0.761	56391.322	15:30:17.40	07/11/12	6	0
6.000	0.752	56385.949	15:30:17.30	07/11/12	6	0
6.000	0.742	56386.157	15:30:17.20	07/11/12	6	0
6.000	0.733	56394.245	15:30:17.10	07/11/12	6	0
6.000	0.723	56395.817	15:30:17.00	07/11/12	6	0
6.000	0.714	56389.148	15:30:16.90	07/11/12	6	0
6.000	0.704	56387.056	15:30:16.80	07/11/12	6	0
6.000	0.694	56391.564	15:30:16.70	07/11/12	6	0
6.000	0.685	56397.843	15:30:16.60	07/11/12	6	0

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6.000	0.675	56401.907	15:30:16.50	07/11/12	6	0
6.000	0.666	56400.984	15:30:16.40	07/11/12	6	0
6.000	0.656	56399.321	15:30:16.30	07/11/12	6	0
6.000	0.647	56399.007	15:30:16.20	07/11/12	6	0
6.000	0.637	56401.521	15:30:16.10	07/11/12	6	0
6.000	0.627	56406.518	15:30:16.00	07/11/12	6	0
6.000	0.618	56411.116	15:30:15.90	07/11/12	6	0
6.000	0.608	56413.986	15:30:15.80	07/11/12	6	0
6.000	0.599	56418.047	15:30:15.70	07/11/12	6	0
6.000	0.589	56429.401	15:30:15.60	07/11/12	6	0
6.000	0.580	56441.015	15:30:15.50	07/11/12	6	0
6.000	0.570	56446.647	15:30:15.40	07/11/12	6	0
6.000	0.560	56451.601	15:30:15.30	07/11/12	6	0
6.000	0.551	56459.269	15:30:15.20	07/11/12	6	0
6.000	0.541	56463.368	15:30:15.10	07/11/12	6	0
6.000	0.532	56463.188	15:30:15.00	07/11/12	6	0
6.000	0.522	56464.285	15:30:14.90	07/11/12	6	0
6.000	0.512	56470.474	15:30:14.80	07/11/12	6	0
6.000	0.503	56480.370	15:30:14.70	07/11/12	6	0
6.000	0.493	56491.137	15:30:14.60	07/11/12	6	0
6.000	0.484	56501.211	15:30:14.50	07/11/12	6	0
6.000	0.474	56510.371	15:30:14.40	07/11/12	6	0
6.000	0.465	56515.569	15:30:14.30	07/11/12	6	0
6.000	0.455	56517.894	15:30:14.20	07/11/12	6	0
6.000	0.445	56518.311	15:30:14.10	07/11/12	6	0
6.000	0.436	56520.314	15:30:14.00	07/11/12	6	0
6.000	0.426	56526.305	15:30:13.90	07/11/12	6	0
6.000	0.417	56540.656	15:30:13.80	07/11/12	6	0
6.000	0.407	56557.623	15:30:13.70	07/11/12	6	0
6.000	0.398	56564.881	15:30:13.60	07/11/12	6	0
6.000	0.388	56555.887	15:30:13.50	07/11/12	6	0
6.000	0.378	56540.206	15:30:13.40	07/11/12	6	0
6.000	0.369	56528.105	15:30:13.30	07/11/12	6	0
6.000	0.359	56522.222	15:30:13.20	07/11/12	6	0
6.000	0.350	56527.671	15:30:13.10	07/11/12	6	0
6.000	0.340	56545.504	15:30:13.00	07/11/12	6	0
6.000	0.330	56567.458	15:30:12.90	07/11/12	6	0
6.000	0.321	56576.715	15:30:12.80	07/11/12	6	0
6.000	0.311	56572.118	15:30:12.70	07/11/12	6	0
6.000	0.302	56568.841	15:30:12.60	07/11/12	6	0
6.000	0.292	56565.056	15:30:12.50	07/11/12	6	0
6.000	0.283	56556.455	15:30:12.40	07/11/12	6	0
6.000	0.273	56543.234	15:30:12.30	07/11/12	6	0
6.000	0.263	56534.729	15:30:12.20	07/11/12	6	0
6.000	0.254	56537.720	15:30:12.10	07/11/12	6	0
6.000	0.244	56553.623	15:30:12.00	07/11/12	6	0
6.000	0.235	56575.782	15:30:11.90	07/11/12	6	0
6.000	0.225	56592.740	15:30:11.80	07/11/12	6	0
6.000	0.216	56601.276	15:30:11.70	07/11/12	6	0
6.000	0.206	56606.956	15:30:11.60	07/11/12	6	0
6.000	0.196	56619.933	15:30:11.50	07/11/12	6	0
6.000	0.187	56641.426	15:30:11.40	07/11/12	6	0
6.000	0.177	56660.243	15:30:11.30	07/11/12	6	0
6.000	0.168	56679.812	15:30:11.20	07/11/12	6	0
6.000	0.158	56694.488	15:30:11.10	07/11/12	6	0
6.000	0.148	56696.745	15:30:11.00	07/11/12	6	0
6.000	0.139	56679.738	15:30:10.90	07/11/12	6	0
6.000	0.129	56648.777	15:30:10.80	07/11/12	6	0
6.000	0.120	56621.846	15:30:10.70	07/11/12	6	0
6.000	0.110	56618.702	15:30:10.60	07/11/12	6	0
6.000	0.101	56634.945	15:30:10.50	07/11/12	6	0
6.000	0.091	56672.075	15:30:10.40	07/11/12	6	0
6.000	0.081	56720.481	15:30:10.30	07/11/12	6	0

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6.000	0.072	56753.709	15:30:10.20	07/11/12	6	0
6.000	0.062	56772.434	15:30:10.10	07/11/12	6	0
6.000	0.053	56786.751	15:30:10.00	07/11/12	6	0
6.000	0.043	56793.870	15:30:09.90	07/11/12	6	0
6.000	0.034	56780.578	15:30:09.80	07/11/12	6	0
6.000	0.024	56750.597	15:30:09.70	07/11/12	6	0
6.000	0.014	56702.605	15:30:09.60	07/11/12	6	0
6.000	0.005	56647.436	15:30:09.50	07/11/12	6	0
LINE 5						
5.000	0.002	62416.391	15:29:28.10	07/11/12	5	0
5.000	0.007	62464.079	15:29:28.00	07/11/12	5	0
5.000	0.012	62513.817	15:29:27.90	07/11/12	5	0
5.000	0.017	62510.106	15:29:27.80	07/11/12	5	0
5.000	0.022	62484.103	15:29:27.70	07/11/12	5	0
5.000	0.027	62450.997	15:29:27.60	07/11/12	5	0
5.000	0.032	62420.640	15:29:27.50	07/11/12	5	0
5.000	0.037	62467.591	15:29:27.40	07/11/12	5	0
5.000	0.042	62529.633	15:29:27.30	07/11/12	5	0
5.000	0.047	62536.885	15:29:27.20	07/11/12	5	0
5.000	0.052	62559.584	15:29:27.10	07/11/12	5	0
5.000	0.057	62572.015	15:29:27.00	07/11/12	5	0
5.000	0.062	62563.223	15:29:26.90	07/11/12	5	0
5.000	0.067	62596.977	15:29:26.80	07/11/12	5	0
5.000	0.072	62625.594	15:29:26.70	07/11/12	5	0
5.000	0.077	62660.587	15:29:26.60	07/11/12	5	0
5.000	0.082	62627.670	15:29:26.50	07/11/12	5	0
5.000	0.087	62623.387	15:29:26.40	07/11/12	5	0
5.000	0.092	"	" 15:29:26.30	07/11/12	5	0
5.000	0.097	"	" 15:29:26.20	07/11/12	5	0
5.000	0.102	"	" 15:29:26.10	07/11/12	5	0
5.000	0.107	"	" 15:29:26.00	07/11/12	5	0
5.000	0.112	62625.217	15:29:25.90	07/11/12	5	0
5.000	0.117	62601.644	15:29:25.80	07/11/12	5	0
5.000	0.122	62573.382	15:29:25.70	07/11/12	5	0
5.000	0.127	62548.850	15:29:25.60	07/11/12	5	0
5.000	0.132	62505.485	15:29:25.50	07/11/12	5	0
5.000	0.137	62453.864	15:29:25.40	07/11/12	5	0
5.000	0.142	62414.077	15:29:25.30	07/11/12	5	0
5.000	0.147	62381.090	15:29:25.20	07/11/12	5	0
5.000	0.152	62365.867	15:29:25.10	07/11/12	5	0
5.000	0.157	62349.188	15:29:25.00	07/11/12	5	0
5.000	0.162	62359.290	15:29:24.90	07/11/12	5	0
5.000	0.167	62361.538	15:29:24.80	07/11/12	5	0
5.000	0.171	62354.481	15:29:24.70	07/11/12	5	0
5.000	0.176	62330.811	15:29:24.60	07/11/12	5	0
5.000	0.181	62301.195	15:29:24.50	07/11/12	5	0
5.000	0.186	62292.098	15:29:24.40	07/11/12	5	0
5.000	0.191	62284.595	15:29:24.30	07/11/12	5	0
5.000	0.196	62247.259	15:29:24.20	07/11/12	5	0
5.000	0.201	62240.744	15:29:24.10	07/11/12	5	0
5.000	0.206	62208.534	15:29:24.00	07/11/12	5	0
5.000	0.211	62157.776	15:29:23.90	07/11/12	5	0
5.000	0.216	62085.437	15:29:23.80	07/11/12	5	0
5.000	0.221	62033.048	15:29:23.70	07/11/12	5	0
5.000	0.226	62045.452	15:29:23.60	07/11/12	5	0
5.000	0.231	61997.270	15:29:23.50	07/11/12	5	0
5.000	0.236	61963.249	15:29:23.40	07/11/12	5	0
5.000	0.241	61925.465	15:29:23.30	07/11/12	5	0
5.000	0.246	61866.403	15:29:23.20	07/11/12	5	0
5.000	0.251	61837.838	15:29:23.10	07/11/12	5	0
5.000	0.256	61765.656	15:29:23.00	07/11/12	5	0
5.000	0.261	61809.638	15:29:22.90	07/11/12	5	0
5.000	0.266	61765.556	15:29:22.80	07/11/12	5	0

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5.000	0.271	61747.143	15:29:22.70	07/11/12	5	0
5.000	0.276	61759.869	15:29:22.60	07/11/12	5	0
5.000	0.281	61725.010	15:29:22.50	07/11/12	5	0
5.000	0.286	61727.015	15:29:22.40	07/11/12	5	0
5.000	0.291	61727.762	15:29:22.30	07/11/12	5	0
5.000	0.296	61714.780	15:29:22.20	07/11/12	5	0
5.000	0.301	61695.112	15:29:22.10	07/11/12	5	0
5.000	0.306	61719.832	15:29:22.00	07/11/12	5	0
5.000	0.311	61670.082	15:29:21.90	07/11/12	5	0
5.000	0.316	61640.963	15:29:21.80	07/11/12	5	0
5.000	0.321	61597.380	15:29:21.70	07/11/12	5	0
5.000	0.326	61602.235	15:29:21.60	07/11/12	5	0
5.000	0.331	61590.163	15:29:21.50	07/11/12	5	0
5.000	0.335	61575.216	15:29:21.40	07/11/12	5	0
5.000	0.340	61575.005	15:29:21.30	07/11/12	5	0
5.000	0.345	61542.336	15:29:21.20	07/11/12	5	0
5.000	0.350	61580.426	15:29:21.10	07/11/12	5	0
5.000	0.355	61626.948	15:29:21.00	07/11/12	5	0
5.000	0.360	61611.268	15:29:20.90	07/11/12	5	0
5.000	0.365	61617.304	15:29:20.80	07/11/12	5	0
5.000	0.370	61644.611	15:29:20.70	07/11/12	5	0
5.000	0.375	61705.262	15:29:20.60	07/11/12	5	0
5.000	0.380	61773.454	15:29:20.50	07/11/12	5	0
5.000	0.385	61848.265	15:29:20.40	07/11/12	5	0
5.000	0.390	61929.067	15:29:20.30	07/11/12	5	0
5.000	0.395	61968.294	15:29:20.20	07/11/12	5	0
5.000	0.400	62032.714	15:29:20.10	07/11/12	5	0
5.000	0.405	62046.205	15:29:20.00	07/11/12	5	0
5.000	0.410	62031.311	15:29:19.90	07/11/12	5	0
5.000	0.415	62025.175	15:29:19.80	07/11/12	5	0
5.000	0.420	61983.952	15:29:19.70	07/11/12	5	0
5.000	0.425	61994.046	15:29:19.60	07/11/12	5	0
5.000	0.430	61926.959	15:29:19.50	07/11/12	5	0
5.000	0.435	61902.953	15:29:19.40	07/11/12	5	0
5.000	0.440	61925.236	15:29:19.30	07/11/12	5	0
5.000	0.445	61932.494	15:29:19.20	07/11/12	5	0
5.000	0.450	61944.422	15:29:19.10	07/11/12	5	0
5.000	0.455	61923.036	15:29:19.00	07/11/12	5	0
5.000	0.460	62018.854	15:29:18.90	07/11/12	5	0
5.000	0.465	61994.330	15:29:18.80	07/11/12	5	0
5.000	0.470	62007.741	15:29:18.70	07/11/12	5	0
5.000	0.475	61991.009	15:29:18.60	07/11/12	5	0
5.000	0.480	62031.026	15:29:18.50	07/11/12	5	0
5.000	0.485	62035.364	15:29:18.40	07/11/12	5	0
5.000	0.490	62011.604	15:29:18.30	07/11/12	5	0
5.000	0.495	62000.678	15:29:18.20	07/11/12	5	0
5.000	0.500	61996.381	15:29:18.10	07/11/12	5	0
5.000	0.504	61957.490	15:29:18.00	07/11/12	5	0
5.000	0.509	61969.189	15:29:17.90	07/11/12	5	0
5.000	0.514	61922.489	15:29:17.80	07/11/12	5	0
5.000	0.519	61822.129	15:29:17.70	07/11/12	5	0
5.000	0.524	61802.036	15:29:17.60	07/11/12	5	0
5.000	0.529	61775.553	15:29:17.50	07/11/12	5	0
5.000	0.534	61713.109	15:29:17.40	07/11/12	5	0
5.000	0.539	61659.053	15:29:17.30	07/11/12	5	0
5.000	0.544	61636.269	15:29:17.20	07/11/12	5	0
5.000	0.549	61652.705	15:29:17.10	07/11/12	5	0
5.000	0.554	61674.022	15:29:17.00	07/11/12	5	0
5.000	0.559	61624.640	15:29:16.90	07/11/12	5	0
5.000	0.564	61637.779	15:29:16.80	07/11/12	5	0
5.000	0.569	61613.249	15:29:16.70	07/11/12	5	0
5.000	0.574	61581.850	15:29:16.60	07/11/12	5	0
5.000	0.579	61560.385	15:29:16.50	07/11/12	5	0

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5.000	0.584	61526.584	15:29:16.40	07/11/12	5	0
5.000	0.589	61502.845	15:29:16.30	07/11/12	5	0
5.000	0.594	61506.350	15:29:16.20	07/11/12	5	0
5.000	0.599	61472.014	15:29:16.10	07/11/12	5	0
5.000	0.604	61448.550	15:29:16.00	07/11/12	5	0
5.000	0.609	61461.707	15:29:15.90	07/11/12	5	0
5.000	0.614	61477.435	15:29:15.80	07/11/12	5	0
5.000	0.619	61512.742	15:29:15.70	07/11/12	5	0
5.000	0.624	61481.623	15:29:15.60	07/11/12	5	0
5.000	0.629	61482.471	15:29:15.50	07/11/12	5	0
5.000	0.634	61491.920	15:29:15.40	07/11/12	5	0
5.000	0.639	61518.392	15:29:15.30	07/11/12	5	0
5.000	0.644	61474.828	15:29:15.20	07/11/12	5	0
5.000	0.649	61513.725	15:29:15.10	07/11/12	5	0
5.000	0.654	61547.904	15:29:15.00	07/11/12	5	0
5.000	0.659	61609.175	15:29:14.90	07/11/12	5	0
5.000	0.664	61678.750	15:29:14.80	07/11/12	5	0
5.000	0.668	61749.677	15:29:14.70	07/11/12	5	0
5.000	0.673	61810.381	15:29:14.60	07/11/12	5	0
5.000	0.678	61841.233	15:29:14.50	07/11/12	5	0
5.000	0.683	61869.307	15:29:14.40	07/11/12	5	0
5.000	0.688	61861.174	15:29:14.30	07/11/12	5	0
5.000	0.693	61827.740	15:29:14.20	07/11/12	5	0
5.000	0.698	61678.248	15:29:14.10	07/11/12	5	0
5.000	0.703	61691.538	15:29:14.00	07/11/12	5	0
5.000	0.708	61706.481	15:29:13.90	07/11/12	5	0
5.000	0.713	61772.475	15:29:13.80	07/11/12	5	0
5.000	0.718	61792.253	15:29:13.70	07/11/12	5	0
5.000	0.723	61810.409	15:29:13.60	07/11/12	5	0
5.000	0.728	61855.047	15:29:13.50	07/11/12	5	0
5.000	0.733	61854.285	15:29:13.40	07/11/12	5	0
5.000	0.738	61839.086	15:29:13.30	07/11/12	5	0
5.000	0.743	61758.835	15:29:13.20	07/11/12	5	0
5.000	0.748	61689.622	15:29:13.10	07/11/12	5	0
5.000	0.753	61568.621	15:29:13.00	07/11/12	5	0
5.000	0.758	61560.777	15:29:12.90	07/11/12	5	0
5.000	0.763	61589.854	15:29:12.80	07/11/12	5	0
5.000	0.768	61552.647	15:29:12.70	07/11/12	5	0
5.000	0.773	61567.564	15:29:12.60	07/11/12	5	0
5.000	0.778	61506.097	15:29:12.50	07/11/12	5	0
5.000	0.783	61452.177	15:29:12.40	07/11/12	5	0
5.000	0.788	61353.367	15:29:12.30	07/11/12	5	0
5.000	0.793	61294.059	15:29:12.20	07/11/12	5	0
5.000	0.798	61261.941	15:29:12.10	07/11/12	5	0
5.000	0.803	61235.936	15:29:12.00	07/11/12	5	0
5.000	0.808	61181.828	15:29:11.90	07/11/12	5	0
5.000	0.813	61115.511	15:29:11.80	07/11/12	5	0
5.000	0.818	61049.669	15:29:11.70	07/11/12	5	0
5.000	0.823	61057.963	15:29:11.60	07/11/12	5	0
5.000	0.828	61043.150	15:29:11.50	07/11/12	5	0
5.000	0.833	61008.672	15:29:11.40	07/11/12	5	0
5.000	0.837	61018.118	15:29:11.30	07/11/12	5	0
5.000	0.842	61069.730	15:29:11.20	07/11/12	5	0
5.000	0.847	61140.723	15:29:11.10	07/11/12	5	0
5.000	0.852	61193.985	15:29:11.00	07/11/12	5	0
5.000	0.857	61234.876	15:29:10.90	07/11/12	5	0
5.000	0.862	61287.007	15:29:10.80	07/11/12	5	0
5.000	0.867	61390.378	15:29:10.70	07/11/12	5	0
5.000	0.872	61478.165	15:29:10.60	07/11/12	5	0
5.000	0.877	61601.672	15:29:10.50	07/11/12	5	0
5.000	0.882	61663.644	15:29:10.40	07/11/12	5	0
5.000	0.887	61706.904	15:29:10.30	07/11/12	5	0
5.000	0.892	61812.571	15:29:10.20	07/11/12	5	0

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5.000	0.897	61911.799	15:29:10.10	07/11/12	5	0
5.000	0.902	61885.785	15:29:10.00	07/11/12	5	0
5.000	0.907	61844.357	15:29:09.90	07/11/12	5	0
5.000	0.912	61817.786	15:29:09.80	07/11/12	5	0
5.000	0.917	61816.959	15:29:09.70	07/11/12	5	0
5.000	0.922	61820.757	15:29:09.60	07/11/12	5	0
5.000	0.927	61884.894	15:29:09.50	07/11/12	5	0
5.000	0.932	61934.034	15:29:09.40	07/11/12	5	0
5.000	0.937	61955.036	15:29:09.30	07/11/12	5	0
5.000	0.942	61961.624	15:29:09.20	07/11/12	5	0
5.000	0.947	62106.962	15:29:09.10	07/11/12	5	0
5.000	0.952	62134.056	15:29:09.00	07/11/12	5	0
5.000	0.957	62156.366	15:29:08.90	07/11/12	5	0
5.000	0.962	62212.975	15:29:08.80	07/11/12	5	0
5.000	0.967	62210.753	15:29:08.70	07/11/12	5	0
5.000	0.972	62250.911	15:29:08.60	07/11/12	5	0
5.000	0.977	62291.496	15:29:08.50	07/11/12	5	0
5.000	0.982	62313.968	15:29:08.40	07/11/12	5	0
5.000	0.987	62317.074	15:29:08.30	07/11/12	5	0
5.000	0.992	62323.741	15:29:08.20	07/11/12	5	0
5.000	0.997	62331.526	15:29:08.10	07/11/12	5	0
5.000	1.001	62337.508	15:29:08.00	07/11/12	5	0
5.000	1.006	62343.848	15:29:07.90	07/11/12	5	0
5.000	1.011	62329.390	15:29:07.80	07/11/12	5	0
5.000	1.016	62296.381	15:29:07.70	07/11/12	5	0
5.000	1.021	62266.099	15:29:07.60	07/11/12	5	0
5.000	1.026	62264.735	15:29:07.50	07/11/12	5	0
5.000	1.031	62236.755	15:29:07.40	07/11/12	5	0
5.000	1.036	62257.233	15:29:07.30	07/11/12	5	0
5.000	1.041	62240.542	15:29:07.20	07/11/12	5	0
5.000	1.046	62225.669	15:29:07.10	07/11/12	5	0
5.000	1.051	62180.211	15:29:07.00	07/11/12	5	0
5.000	1.056	62147.042	15:29:06.90	07/11/12	5	0
5.000	1.061	62118.822	15:29:06.80	07/11/12	5	0
5.000	1.066	62084.310	15:29:06.70	07/11/12	5	0
5.000	1.071	62038.041	15:29:06.60	07/11/12	5	0
5.000	1.076	62012.788	15:29:06.50	07/11/12	5	0
5.000	1.081	62028.845	15:29:06.40	07/11/12	5	0
5.000	1.086	61997.245	15:29:06.30	07/11/12	5	0
5.000	1.091	61920.712	15:29:06.20	07/11/12	5	0
5.000	1.096	61927.851	15:29:06.10	07/11/12	5	0
5.000	1.101	61905.304	15:29:06.00	07/11/12	5	0
5.000	1.106	61890.681	15:29:05.90	07/11/12	5	0
5.000	1.111	61812.587	15:29:05.80	07/11/12	5	0
5.000	1.116	61822.017	15:29:05.70	07/11/12	5	0
5.000	1.121	61821.598	15:29:05.60	07/11/12	5	0
5.000	1.126	61782.432	15:29:05.50	07/11/12	5	0
5.000	1.131	61737.265	15:29:05.40	07/11/12	5	0
5.000	1.136	61716.737	15:29:05.30	07/11/12	5	0
5.000	1.141	61687.355	15:29:05.20	07/11/12	5	0
5.000	1.146	61667.319	15:29:05.10	07/11/12	5	0
5.000	1.151	61669.559	15:29:05.00	07/11/12	5	0
5.000	1.156	61646.617	15:29:04.90	07/11/12	5	0
5.000	1.161	61657.120	15:29:04.80	07/11/12	5	0
5.000	1.166	61669.311	15:29:04.70	07/11/12	5	0
5.000	1.170	61702.159	15:29:04.60	07/11/12	5	0
5.000	1.175	61672.812	15:29:04.50	07/11/12	5	0
5.000	1.180	61691.119	15:29:04.40	07/11/12	5	0
5.000	1.185	61753.790	15:29:04.30	07/11/12	5	0
5.000	1.190	61802.912	15:29:04.20	07/11/12	5	0
5.000	1.195	61824.717	15:29:04.10	07/11/12	5	0
5.000	1.200	61838.882	15:29:04.00	07/11/12	5	0
5.000	1.205	61830.686	15:29:03.90	07/11/12	5	0

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5.000	1.210	61858.771	15:29:03.80	07/11/12	5	0
5.000	1.215	61822.306	15:29:03.70	07/11/12	5	0
5.000	1.220	61866.156	15:29:03.60	07/11/12	5	0
5.000	1.225	61888.032	15:29:03.50	07/11/12	5	0
5.000	1.230	61891.188	15:29:03.40	07/11/12	5	0
5.000	1.235	61974.458	15:29:03.30	07/11/12	5	0
5.000	1.240	61980.438	15:29:03.20	07/11/12	5	0
5.000	1.245	61983.277	15:29:03.10	07/11/12	5	0
5.000	1.250	62008.810	15:29:03.00	07/11/12	5	0
5.000	1.255	62027.286	15:29:02.90	07/11/12	5	0
5.000	1.260	62073.583	15:29:02.80	07/11/12	5	0
5.000	1.265	62087.718	15:29:02.70	07/11/12	5	0
5.000	1.270	62091.483	15:29:02.60	07/11/12	5	0
5.000	1.275	62105.787	15:29:02.50	07/11/12	5	0
5.000	1.280	62108.119	15:29:02.40	07/11/12	5	0
5.000	1.285	62107.135	15:29:02.30	07/11/12	5	0
5.000	1.290	62071.023	15:29:02.20	07/11/12	5	0
5.000	1.295	62092.843	15:29:02.10	07/11/12	5	0
5.000	1.300	62098.810	15:29:02.00	07/11/12	5	0
5.000	1.305	62129.147	15:29:01.90	07/11/12	5	0
5.000	1.310	62078.762	15:29:01.80	07/11/12	5	0
5.000	1.315	62060.721	15:29:01.70	07/11/12	5	0
5.000	1.320	62041.428	15:29:01.60	07/11/12	5	0
5.000	1.325	62048.028	15:29:01.50	07/11/12	5	0
5.000	1.330	62033.527	15:29:01.40	07/11/12	5	0
5.000	1.334	62000.224	15:29:01.30	07/11/12	5	0
5.000	1.339	61964.749	15:29:01.20	07/11/12	5	0
5.000	1.344	61950.756	15:29:01.10	07/11/12	5	0
5.000	1.349	61927.825	15:29:01.00	07/11/12	5	0
5.000	1.354	61924.248	15:29:00.90	07/11/12	5	0
5.000	1.359	61922.429	15:29:00.80	07/11/12	5	0
5.000	1.364	61946.442	15:29:00.70	07/11/12	5	0
5.000	1.369	61947.589	15:29:00.60	07/11/12	5	0
5.000	1.374	61939.348	15:29:00.50	07/11/12	5	0
5.000	1.379	61939.431	15:29:00.40	07/11/12	5	0
5.000	1.384	61983.282	15:29:00.30	07/11/12	5	0
5.000	1.389	62004.339	15:29:00.20	07/11/12	5	0
5.000	1.394	62011.816	15:29:00.10	07/11/12	5	0
5.000	1.399	61971.469	15:29:00.00	07/11/12	5	0
5.000	1.404	61946.648	15:28:59.90	07/11/12	5	0
5.000	1.409	61912.670	15:28:59.80	07/11/12	5	0
5.000	1.414	61915.151	15:28:59.70	07/11/12	5	0
5.000	1.419	61887.955	15:28:59.60	07/11/12	5	0
5.000	1.424	61928.797	15:28:59.50	07/11/12	5	0
5.000	1.429	61962.208	15:28:59.40	07/11/12	5	0
5.000	1.434	61999.491	15:28:59.30	07/11/12	5	0
5.000	1.439	62025.737	15:28:59.20	07/11/12	5	0
5.000	1.444	62068.670	15:28:59.10	07/11/12	5	0
5.000	1.449	62060.664	15:28:59.00	07/11/12	5	0
5.000	1.454	62133.039	15:28:58.90	07/11/12	5	0
5.000	1.459	62157.460	15:28:58.80	07/11/12	5	0
5.000	1.464	62209.945	15:28:58.70	07/11/12	5	0
5.000	1.469	62262.614	15:28:58.60	07/11/12	5	0
5.000	1.474	62221.210	15:28:58.50	07/11/12	5	0
5.000	1.479	62144.789	15:28:58.40	07/11/12	5	0
5.000	1.484	62090.798	15:28:58.30	07/11/12	5	0
5.000	1.489	61983.334	15:28:58.20	07/11/12	5	0
5.000	1.494	61909.025	15:28:58.10	07/11/12	5	0
5.000	1.499	61831.610	15:28:58.00	07/11/12	5	0
5.000	1.503	61801.252	15:28:57.90	07/11/12	5	0
5.000	1.508	61763.642	15:28:57.80	07/11/12	5	0
5.000	1.513	61729.439	15:28:57.70	07/11/12	5	0
5.000	1.518	61761.007	15:28:57.60	07/11/12	5	0

5.000	1.523	61754.169	15:28:57.50	07/11/12	5	0
5.000	1.528	61770.084	15:28:57.40	07/11/12	5	0
5.000	1.533	61867.917	15:28:57.30	07/11/12	5	0
5.000	1.538	61962.501	15:28:57.20	07/11/12	5	0
5.000	1.543	62046.384	15:28:57.10	07/11/12	5	0
5.000	1.548	62144.714	15:28:57.00	07/11/12	5	0
5.000	1.553	62187.815	15:28:56.90	07/11/12	5	0
5.000	1.558	62211.338	15:28:56.80	07/11/12	5	0
5.000	1.563	62236.062	15:28:56.70	07/11/12	5	0
5.000	1.568	62207.970	15:28:56.60	07/11/12	5	0
5.000	1.573	62168.025	15:28:56.50	07/11/12	5	0
5.000	1.578	62137.268	15:28:56.40	07/11/12	5	0
5.000	1.583	62125.758	15:28:56.30	07/11/12	5	0
5.000	1.588	62078.264	15:28:56.20	07/11/12	5	0
5.000	1.593	62088.413	15:28:56.10	07/11/12	5	0
5.000	1.598	62060.917	15:28:56.00	07/11/12	5	0
5.000	1.603	62031.189	15:28:55.90	07/11/12	5	0
5.000	1.608	61967.951	15:28:55.80	07/11/12	5	0
5.000	1.613	61934.928	15:28:55.70	07/11/12	5	0
5.000	1.618	61903.728	15:28:55.60	07/11/12	5	0
5.000	1.623	61893.264	15:28:55.50	07/11/12	5	0
5.000	1.628	61972.863	15:28:55.40	07/11/12	5	0
5.000	1.633	62043.396	15:28:55.30	07/11/12	5	0
5.000	1.638	62051.788	15:28:55.20	07/11/12	5	0
5.000	1.643	62133.245	15:28:55.10	07/11/12	5	0
5.000	1.648	62165.138	15:28:55.00	07/11/12	5	0
5.000	1.653	62199.864	15:28:54.90	07/11/12	5	0
5.000	1.658	62166.909	15:28:54.80	07/11/12	5	0
5.000	1.663	62167.114	15:28:54.70	07/11/12	5	0
5.000	1.667	62144.735	15:28:54.60	07/11/12	5	0
5.000	1.672	62158.335	15:28:54.50	07/11/12	5	0
5.000	1.677	62200.652	15:28:54.40	07/11/12	5	0
5.000	1.682	62270.887	15:28:54.30	07/11/12	5	0
5.000	1.687	62309.936	15:28:54.20	07/11/12	5	0
5.000	1.692	62346.382	15:28:54.10	07/11/12	5	0
5.000	1.697	62370.710	15:28:54.00	07/11/12	5	0
5.000	1.702	62374.123	15:28:53.90	07/11/12	5	0
5.000	1.707	62330.495	15:28:53.80	07/11/12	5	0
5.000	1.712	62268.260	15:28:53.70	07/11/12	5	0
5.000	1.717	62150.358	15:28:53.60	07/11/12	5	0
5.000	1.722	62050.766	15:28:53.50	07/11/12	5	0
5.000	1.727	62054.618	15:28:53.40	07/11/12	5	0
5.000	1.732	62065.836	15:28:53.30	07/11/12	5	0
5.000	1.737	62034.822	15:28:53.20	07/11/12	5	0
5.000	1.742	62020.571	15:28:53.10	07/11/12	5	0
5.000	1.747	61988.101	15:28:53.00	07/11/12	5	0
5.000	1.752	61966.396	15:28:52.90	07/11/12	5	0
5.000	1.757	61973.970	15:28:52.80	07/11/12	5	0
5.000	1.762	61954.332	15:28:52.70	07/11/12	5	0
5.000	1.767	61927.054	15:28:52.60	07/11/12	5	0
5.000	1.772	61976.975	15:28:52.50	07/11/12	5	0
5.000	1.777	62010.618	15:28:52.40	07/11/12	5	0
5.000	1.782	62051.374	15:28:52.30	07/11/12	5	0
5.000	1.787	62111.927	15:28:52.20	07/11/12	5	0
5.000	1.792	62154.483	15:28:52.10	07/11/12	5	0
5.000	1.797	62186.529	15:28:52.00	07/11/12	5	0
5.000	1.802	62253.137	15:28:51.90	07/11/12	5	0
5.000	1.807	62284.737	15:28:51.80	07/11/12	5	0
5.000	1.812	62323.718	15:28:51.70	07/11/12	5	0
5.000	1.817	62354.697	15:28:51.60	07/11/12	5	0
5.000	1.822	62373.395	15:28:51.50	07/11/12	5	0
5.000	1.827	62376.473	15:28:51.40	07/11/12	5	0
5.000	1.832	62400.209	15:28:51.30	07/11/12	5	0

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5.000	1.836	"	"	15:28:51.20	07/11/12	5	0
5.000	1.841	"	"	15:28:51.10	07/11/12	5	0
5.000	1.846	"	"	15:28:51.00	07/11/12	5	0
5.000	1.851	"	"	15:28:50.90	07/11/12	5	0
5.000	1.856	62356.616		15:28:50.80	07/11/12	5	0
5.000	1.861	62319.286		15:28:50.70	07/11/12	5	0
5.000	1.866	62280.235		15:28:50.60	07/11/12	5	0
5.000	1.871	62237.999		15:28:50.50	07/11/12	5	0
5.000	1.876	62220.865		15:28:50.40	07/11/12	5	0
5.000	1.881	62166.165		15:28:50.30	07/11/12	5	0
5.000	1.886	62074.239		15:28:50.20	07/11/12	5	0
5.000	1.891	62061.371		15:28:50.10	07/11/12	5	0
5.000	1.896	62052.817		15:28:50.00	07/11/12	5	0
5.000	1.901	62047.956		15:28:49.90	07/11/12	5	0
5.000	1.906	62059.049		15:28:49.80	07/11/12	5	0
5.000	1.911	62071.297		15:28:49.70	07/11/12	5	0
5.000	1.916	62111.786		15:28:49.60	07/11/12	5	0
5.000	1.921	62134.516		15:28:49.50	07/11/12	5	0
5.000	1.926	62091.957		15:28:49.40	07/11/12	5	0
5.000	1.931	62068.299		15:28:49.30	07/11/12	5	0
5.000	1.936	62049.898		15:28:49.20	07/11/12	5	0
5.000	1.941	62031.827		15:28:49.10	07/11/12	5	0
5.000	1.946	61995.423		15:28:49.00	07/11/12	5	0
5.000	1.951	61911.127		15:28:48.90	07/11/12	5	0
5.000	1.956	61947.732		15:28:48.80	07/11/12	5	0
5.000	1.961	61949.514		15:28:48.70	07/11/12	5	0
5.000	1.966	61974.337		15:28:48.60	07/11/12	5	0
5.000	1.971	62036.697		15:28:48.50	07/11/12	5	0
5.000	1.976	62058.120		15:28:48.40	07/11/12	5	0
5.000	1.981	62065.183		15:28:48.30	07/11/12	5	0
5.000	1.986	62040.964		15:28:48.20	07/11/12	5	0
5.000	1.991	62016.649		15:28:48.10	07/11/12	5	0
5.000	1.996	62054.474		15:28:48.00	07/11/12	5	0
5.000	2.000	62025.676		15:28:47.90	07/11/12	5	0
5.000	2.005	61997.433		15:28:47.80	07/11/12	5	0
5.000	2.010	61993.708		15:28:47.70	07/11/12	5	0
5.000	2.015	61903.486		15:28:47.60	07/11/12	5	0
5.000	2.020	61873.000		15:28:47.50	07/11/12	5	0
5.000	2.025	61830.810		15:28:47.40	07/11/12	5	0
5.000	2.030	61776.494		15:28:47.30	07/11/12	5	0
5.000	2.035	61703.980		15:28:47.20	07/11/12	5	0
5.000	2.040	61687.143		15:28:47.10	07/11/12	5	0
5.000	2.045	61659.262		15:28:47.00	07/11/12	5	0
5.000	2.050	61647.374		15:28:46.90	07/11/12	5	0
5.000	2.055	61628.704		15:28:46.80	07/11/12	5	0
5.000	2.060	61591.674		15:28:46.70	07/11/12	5	0
5.000	2.065	61566.885		15:28:46.60	07/11/12	5	0
5.000	2.070	61589.588		15:28:46.50	07/11/12	5	0
5.000	2.075	61551.337		15:28:46.40	07/11/12	5	0
5.000	2.080	61505.871		15:28:46.30	07/11/12	5	0
5.000	2.085	61498.457		15:28:46.20	07/11/12	5	0
5.000	2.090	61499.667		15:28:46.10	07/11/12	5	0
5.000	2.095	61536.384		15:28:46.00	07/11/12	5	0
5.000	2.100	61597.205		15:28:45.90	07/11/12	5	0
5.000	2.105	61598.210		15:28:45.80	07/11/12	5	0
5.000	2.110	61605.065		15:28:45.70	07/11/12	5	0
5.000	2.115	61698.718		15:28:45.60	07/11/12	5	0
5.000	2.120	61706.406		15:28:45.50	07/11/12	5	0
5.000	2.125	61715.976		15:28:45.40	07/11/12	5	0
5.000	2.130	61728.541		15:28:45.30	07/11/12	5	0
5.000	2.135	61722.853		15:28:45.20	07/11/12	5	0
5.000	2.140	61687.075		15:28:45.10	07/11/12	5	0
5.000	2.145	61649.877		15:28:45.00	07/11/12	5	0

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5.000	2.150	61601.672	15:28:44.90	07/11/12	5	0
5.000	2.155	61552.608	15:28:44.80	07/11/12	5	0
5.000	2.160	61582.372	15:28:44.70	07/11/12	5	0
5.000	2.165	61527.349	15:28:44.60	07/11/12	5	0
5.000	2.169	61500.668	15:28:44.50	07/11/12	5	0
5.000	2.174	61494.355	15:28:44.40	07/11/12	5	0
5.000	2.179	61488.115	15:28:44.30	07/11/12	5	0
5.000	2.184	61469.449	15:28:44.20	07/11/12	5	0
5.000	2.189	61498.201	15:28:44.10	07/11/12	5	0
5.000	2.194	61473.347	15:28:44.00	07/11/12	5	0
5.000	2.199	61481.881	15:28:43.90	07/11/12	5	0
5.000	2.204	61525.357	15:28:43.80	07/11/12	5	0
5.000	2.209	61513.623	15:28:43.70	07/11/12	5	0
5.000	2.214	61625.483	15:28:43.60	07/11/12	5	0
5.000	2.219	61673.652	15:28:43.50	07/11/12	5	0
5.000	2.224	61748.776	15:28:43.40	07/11/12	5	0
5.000	2.229	61825.892	15:28:43.30	07/11/12	5	0
5.000	2.234	61830.137	15:28:43.20	07/11/12	5	0
5.000	2.239	61835.957	15:28:43.10	07/11/12	5	0
5.000	2.244	61791.139	15:28:43.00	07/11/12	5	0
5.000	2.249	61719.062	15:28:42.90	07/11/12	5	0
5.000	2.254	61687.163	15:28:42.80	07/11/12	5	0
5.000	2.259	61688.809	15:28:42.70	07/11/12	5	0
5.000	2.264	61669.239	15:28:42.60	07/11/12	5	0
5.000	2.269	61702.215	15:28:42.50	07/11/12	5	0
5.000	2.274	61717.867	15:28:42.40	07/11/12	5	0
5.000	2.279	61754.531	15:28:42.30	07/11/12	5	0
5.000	2.284	61831.856	15:28:42.20	07/11/12	5	0
5.000	2.289	61844.532	15:28:42.10	07/11/12	5	0
5.000	2.294	61776.268	15:28:42.00	07/11/12	5	0
5.000	2.299	61791.280	15:28:41.90	07/11/12	5	0
5.000	2.304	61746.682	15:28:41.80	07/11/12	5	0
5.000	2.309	61726.384	15:28:41.70	07/11/12	5	0
5.000	2.314	61573.489	15:28:41.60	07/11/12	5	0
5.000	2.319	61522.344	15:28:41.50	07/11/12	5	0
5.000	2.324	61408.433	15:28:41.40	07/11/12	5	0
5.000	2.329	61319.420	15:28:41.30	07/11/12	5	0
5.000	2.333	61284.708	15:28:41.20	07/11/12	5	0
5.000	2.338	61310.799	15:28:41.10	07/11/12	5	0
5.000	2.343	61326.718	15:28:41.00	07/11/12	5	0
5.000	2.348	61343.330	15:28:40.90	07/11/12	5	0
5.000	2.353	61340.173	15:28:40.80	07/11/12	5	0
5.000	2.358	61362.281	15:28:40.70	07/11/12	5	0
5.000	2.363	61434.042	15:28:40.60	07/11/12	5	0
5.000	2.368	61474.026	15:28:40.50	07/11/12	5	0
5.000	2.373	61592.465	15:28:40.40	07/11/12	5	0
5.000	2.378	61599.265	15:28:40.30	07/11/12	5	0
5.000	2.383	61580.128	15:28:40.20	07/11/12	5	0
5.000	2.388	61577.194	15:28:40.10	07/11/12	5	0
5.000	2.393	61498.080	15:28:40.00	07/11/12	5	0
5.000	2.398	61529.968	15:28:39.90	07/11/12	5	0
5.000	2.403	61531.557	15:28:39.80	07/11/12	5	0
5.000	2.408	61551.389	15:28:39.70	07/11/12	5	0
5.000	2.413	61559.176	15:28:39.60	07/11/12	5	0
5.000	2.418	61594.498	15:28:39.50	07/11/12	5	0
5.000	2.423	61606.300	15:28:39.40	07/11/12	5	0
5.000	2.428	61678.175	15:28:39.30	07/11/12	5	0
5.000	2.433	61675.533	15:28:39.20	07/11/12	5	0
5.000	2.438	61614.047	15:28:39.10	07/11/12	5	0
5.000	2.443	61556.323	15:28:39.00	07/11/12	5	0
5.000	2.448	61498.315	15:28:38.90	07/11/12	5	0
5.000	2.453	61468.456	15:28:38.80	07/11/12	5	0
5.000	2.458	61452.906	15:28:38.70	07/11/12	5	0

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5.000	2.463	61491.284	15:28:38.60	07/11/12	5	0
5.000	2.468	61509.607	15:28:38.50	07/11/12	5	0
5.000	2.473	61571.908	15:28:38.40	07/11/12	5	0
5.000	2.478	61716.740	15:28:38.30	07/11/12	5	0
5.000	2.483	61868.883	15:28:38.20	07/11/12	5	0
5.000	2.488	61915.110	15:28:38.10	07/11/12	5	0
5.000	2.493	61952.020	15:28:38.00	07/11/12	5	0
5.000	2.498	62042.720	15:28:37.90	07/11/12	5	0
LINE 4						
4.000	2.498	41582.793	15:28:24.20	07/11/12	4	0
4.000	2.493	41477.304	15:28:24.10	07/11/12	4	0
4.000	2.488	41359.745	15:28:24.00	07/11/12	4	0
4.000	2.483	41385.543	15:28:23.90	07/11/12	4	0
4.000	2.478	41512.544	15:28:23.80	07/11/12	4	0
4.000	2.474	41598.060	15:28:23.70	07/11/12	4	0
4.000	2.469	41736.162	15:28:23.60	07/11/12	4	0
4.000	2.464	41839.183	15:28:23.50	07/11/12	4	0
4.000	2.459	41796.926	15:28:23.40	07/11/12	4	0
4.000	2.455	41644.477	15:28:23.30	07/11/12	4	0
4.000	2.450	41508.034	15:28:23.20	07/11/12	4	0
4.000	2.445	41408.106	15:28:23.10	07/11/12	4	0
4.000	2.440	41335.147	15:28:23.00	07/11/12	4	0
4.000	2.435	41294.729	15:28:22.90	07/11/12	4	0
4.000	2.431	41402.094	15:28:22.80	07/11/12	4	0
4.000	2.426	41618.064	15:28:22.70	07/11/12	4	0
4.000	2.421	41857.745	15:28:22.60	07/11/12	4	0
4.000	2.416	41927.448	15:28:22.50	07/11/12	4	0
4.000	2.412	41971.980	15:28:22.40	07/11/12	4	0
4.000	2.407	41943.082	15:28:22.30	07/11/12	4	0
4.000	2.402	41808.713	15:28:22.20	07/11/12	4	0
4.000	2.397	41715.307	15:28:22.10	07/11/12	4	0
4.000	2.392	41755.806	15:28:22.00	07/11/12	4	0
4.000	2.388	41773.312	15:28:21.90	07/11/12	4	0
4.000	2.383	41696.592	15:28:21.80	07/11/12	4	0
4.000	2.378	41580.512	15:28:21.70	07/11/12	4	0
4.000	2.373	41471.482	15:28:21.60	07/11/12	4	0
4.000	2.369	41372.447	15:28:21.50	07/11/12	4	0
4.000	2.364	41407.823	15:28:21.40	07/11/12	4	0
4.000	2.359	41478.940	15:28:21.30	07/11/12	4	0
4.000	2.354	41534.727	15:28:21.20	07/11/12	4	0
4.000	2.349	41529.374	15:28:21.10	07/11/12	4	0
4.000	2.345	41461.436	15:28:21.00	07/11/12	4	0
4.000	2.340	41387.695	15:28:20.90	07/11/12	4	0
4.000	2.335	41338.985	15:28:20.80	07/11/12	4	0
4.000	2.330	41285.629	15:28:20.70	07/11/12	4	0
4.000	2.326	41256.820	15:28:20.60	07/11/12	4	0
4.000	2.321	41248.442	15:28:20.50	07/11/12	4	0
4.000	2.316	41213.388	15:28:20.40	07/11/12	4	0
4.000	2.311	41156.243	15:28:20.30	07/11/12	4	0
4.000	2.306	41122.004	15:28:20.20	07/11/12	4	0
4.000	2.302	41096.663	15:28:20.10	07/11/12	4	0
4.000	2.297	41092.978	15:28:20.00	07/11/12	4	0
4.000	2.292	41105.578	15:28:19.90	07/11/12	4	0
4.000	2.287	41116.011	15:28:19.80	07/11/12	4	0
4.000	2.283	41107.723	15:28:19.70	07/11/12	4	0
4.000	2.278	41112.788	15:28:19.60	07/11/12	4	0
4.000	2.273	41122.441	15:28:19.50	07/11/12	4	0
4.000	2.268	41124.487	15:28:19.40	07/11/12	4	0
4.000	2.263	41137.517	15:28:19.30	07/11/12	4	0
4.000	2.259	41141.893	15:28:19.20	07/11/12	4	0
4.000	2.254	41138.533	15:28:19.10	07/11/12	4	0
4.000	2.249	41127.893	15:28:19.00	07/11/12	4	0
4.000	2.244	41123.775	15:28:18.90	07/11/12	4	0

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4.000	2.239	41103.060	15:28:18.80	07/11/12	4	0
4.000	2.235	41066.990	15:28:18.70	07/11/12	4	0
4.000	2.230	41063.097	15:28:18.60	07/11/12	4	0
4.000	2.225	41058.775	15:28:18.50	07/11/12	4	0
4.000	2.220	41079.006	15:28:18.40	07/11/12	4	0
4.000	2.216	41103.476	15:28:18.30	07/11/12	4	0
4.000	2.211	41143.777	15:28:18.20	07/11/12	4	0
4.000	2.206	41198.045	15:28:18.10	07/11/12	4	0
4.000	2.201	41238.245	15:28:18.00	07/11/12	4	0
4.000	2.196	41273.999	15:28:17.90	07/11/12	4	0
4.000	2.192	41295.032	15:28:17.80	07/11/12	4	0
4.000	2.187	41318.249	15:28:17.70	07/11/12	4	0
4.000	2.182	41343.724	15:28:17.60	07/11/12	4	0
4.000	2.177	41373.982	15:28:17.50	07/11/12	4	0
4.000	2.173	41385.818	15:28:17.40	07/11/12	4	0
4.000	2.168	41424.386	15:28:17.30	07/11/12	4	0
4.000	2.163	41458.033	15:28:17.20	07/11/12	4	0
4.000	2.158	41465.567	15:28:17.10	07/11/12	4	0
4.000	2.153	41431.212	15:28:17.00	07/11/12	4	0
4.000	2.149	41423.912	15:28:16.90	07/11/12	4	0
4.000	2.144	41404.279	15:28:16.80	07/11/12	4	0
4.000	2.139	41395.261	15:28:16.70	07/11/12	4	0
4.000	2.134	41400.267	15:28:16.60	07/11/12	4	0
4.000	2.130	41411.764	15:28:16.50	07/11/12	4	0
4.000	2.125	41450.119	15:28:16.40	07/11/12	4	0
4.000	2.120	41466.520	15:28:16.30	07/11/12	4	0
4.000	2.115	41470.375	15:28:16.20	07/11/12	4	0
4.000	2.110	41501.432	15:28:16.10	07/11/12	4	0
4.000	2.106	41544.762	15:28:16.00	07/11/12	4	0
4.000	2.101	41607.781	15:28:15.90	07/11/12	4	0
4.000	2.096	41654.312	15:28:15.80	07/11/12	4	0
4.000	2.091	41695.330	15:28:15.70	07/11/12	4	0
4.000	2.087	41743.859	15:28:15.60	07/11/12	4	0
4.000	2.082	41819.693	15:28:15.50	07/11/12	4	0
4.000	2.077	41876.795	15:28:15.40	07/11/12	4	0
4.000	2.072	41922.664	15:28:15.30	07/11/12	4	0
4.000	2.067	41954.230	15:28:15.20	07/11/12	4	0
4.000	2.063	41930.341	15:28:15.10	07/11/12	4	0
4.000	2.058	41881.069	15:28:15.00	07/11/12	4	0
4.000	2.053	41797.010	15:28:14.90	07/11/12	4	0
4.000	2.048	41709.772	15:28:14.80	07/11/12	4	0
4.000	2.043	41669.799	15:28:14.70	07/11/12	4	0
4.000	2.039	41647.701	15:28:14.60	07/11/12	4	0
4.000	2.034	41557.668	15:28:14.50	07/11/12	4	0
4.000	2.029	41424.293	15:28:14.40	07/11/12	4	0
4.000	2.024	41308.281	15:28:14.30	07/11/12	4	0
4.000	2.020	41218.299	15:28:14.20	07/11/12	4	0
4.000	2.015	41138.752	15:28:14.10	07/11/12	4	0
4.000	2.010	41103.851	15:28:14.00	07/11/12	4	0
4.000	2.005	41094.491	15:28:13.90	07/11/12	4	0
4.000	2.000	41078.303	15:28:13.80	07/11/12	4	0
4.000	1.996	41024.432	15:28:13.70	07/11/12	4	0
4.000	1.991	40954.205	15:28:13.60	07/11/12	4	0
4.000	1.986	40883.627	15:28:13.50	07/11/12	4	0
4.000	1.981	40844.353	15:28:13.40	07/11/12	4	0
4.000	1.977	40874.148	15:28:13.30	07/11/12	4	0
4.000	1.972	40929.714	15:28:13.20	07/11/12	4	0
4.000	1.967	41012.236	15:28:13.10	07/11/12	4	0
4.000	1.962	41116.509	15:28:13.00	07/11/12	4	0
4.000	1.957	41213.963	15:28:12.90	07/11/12	4	0
4.000	1.953	41306.669	15:28:12.80	07/11/12	4	0
4.000	1.948	41527.800	15:28:12.70	07/11/12	4	0
4.000	1.943	41831.532	15:28:12.60	07/11/12	4	0

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4.000	1.938	42027.221	15:28:12.50	07/11/12	4	0
4.000	1.934	42114.918	15:28:12.40	07/11/12	4	0
4.000	1.929	42179.929	15:28:12.30	07/11/12	4	0
4.000	1.924	42301.493	15:28:12.20	07/11/12	4	0
4.000	1.919	42344.487	15:28:12.10	07/11/12	4	0
4.000	1.914	42275.171	15:28:12.00	07/11/12	4	0
4.000	1.910	42198.085	15:28:11.90	07/11/12	4	0
4.000	1.905	42197.933	15:28:11.80	07/11/12	4	0
4.000	1.900	42270.697	15:28:11.70	07/11/12	4	0
4.000	1.895	42316.990	15:28:11.60	07/11/12	4	0
4.000	1.891	42284.270	15:28:11.50	07/11/12	4	0
4.000	1.886	42173.165	15:28:11.40	07/11/12	4	0
4.000	1.881	42076.508	15:28:11.30	07/11/12	4	0
4.000	1.876	42029.722	15:28:11.20	07/11/12	4	0
4.000	1.871	42031.706	15:28:11.10	07/11/12	4	0
4.000	1.867	42057.308	15:28:11.00	07/11/12	4	0
4.000	1.862	42093.377	15:28:10.90	07/11/12	4	0
4.000	1.857	42136.854	15:28:10.80	07/11/12	4	0
4.000	1.852	42163.019	15:28:10.70	07/11/12	4	0
4.000	1.848	42144.843	15:28:10.60	07/11/12	4	0
4.000	1.843	42096.398	15:28:10.50	07/11/12	4	0
4.000	1.838	42045.265	15:28:10.40	07/11/12	4	0
4.000	1.833	42085.601	15:28:10.30	07/11/12	4	0
4.000	1.828	42157.596	15:28:10.20	07/11/12	4	0
4.000	1.824	42248.851	15:28:10.10	07/11/12	4	0
4.000	1.819	42340.323	15:28:10.00	07/11/12	4	0
4.000	1.814	42442.447	15:28:09.90	07/11/12	4	0
4.000	1.809	42522.094	15:28:09.80	07/11/12	4	0
4.000	1.804	42569.245	15:28:09.70	07/11/12	4	0
4.000	1.800	42557.333	15:28:09.60	07/11/12	4	0
4.000	1.795	42512.216	15:28:09.50	07/11/12	4	0
4.000	1.790	42447.712	15:28:09.40	07/11/12	4	0
4.000	1.785	42307.582	15:28:09.30	07/11/12	4	0
4.000	1.781	42154.479	15:28:09.20	07/11/12	4	0
4.000	1.776	42138.245	15:28:09.10	07/11/12	4	0
4.000	1.771	42195.312	15:28:09.00	07/11/12	4	0
4.000	1.766	42235.615	15:28:08.90	07/11/12	4	0
4.000	1.761	42219.908	15:28:08.80	07/11/12	4	0
4.000	1.757	42154.326	15:28:08.70	07/11/12	4	0
4.000	1.752	42101.177	15:28:08.60	07/11/12	4	0
4.000	1.747	42061.289	15:28:08.50	07/11/12	4	0
4.000	1.742	42066.055	15:28:08.40	07/11/12	4	0
4.000	1.738	42116.686	15:28:08.30	07/11/12	4	0
4.000	1.733	42189.011	15:28:08.20	07/11/12	4	0
4.000	1.728	42271.683	15:28:08.10	07/11/12	4	0
4.000	1.723	42362.884	15:28:08.00	07/11/12	4	0
4.000	1.718	42431.523	15:28:07.90	07/11/12	4	0
4.000	1.714	42431.390	15:28:07.80	07/11/12	4	0
4.000	1.709	42403.149	15:28:07.70	07/11/12	4	0
4.000	1.704	42364.389	15:28:07.60	07/11/12	4	0
4.000	1.699	42353.461	15:28:07.50	07/11/12	4	0
4.000	1.695	42361.613	15:28:07.40	07/11/12	4	0
4.000	1.690	42409.182	15:28:07.30	07/11/12	4	0
4.000	1.685	42426.039	15:28:07.20	07/11/12	4	0
4.000	1.680	42401.818	15:28:07.10	07/11/12	4	0
4.000	1.675	42346.743	15:28:07.00	07/11/12	4	0
4.000	1.671	42281.422	15:28:06.90	07/11/12	4	0
4.000	1.666	42216.781	15:28:06.80	07/11/12	4	0
4.000	1.661	42188.461	15:28:06.70	07/11/12	4	0
4.000	1.656	42182.088	15:28:06.60	07/11/12	4	0
4.000	1.652	42167.138	15:28:06.50	07/11/12	4	0
4.000	1.647	42119.034	15:28:06.40	07/11/12	4	0
4.000	1.642	42109.603	15:28:06.30	07/11/12	4	0

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4.000	1.637	42105.641	15:28:06.20	07/11/12	4	0
4.000	1.632	42084.898	15:28:06.10	07/11/12	4	0
4.000	1.628	42043.036	15:28:06.00	07/11/12	4	0
4.000	1.623	42026.889	15:28:05.90	07/11/12	4	0
4.000	1.618	42030.662	15:28:05.80	07/11/12	4	0
4.000	1.613	42039.167	15:28:05.70	07/11/12	4	0
4.000	1.609	42073.568	15:28:05.60	07/11/12	4	0
4.000	1.604	42115.492	15:28:05.50	07/11/12	4	0
4.000	1.599	42138.088	15:28:05.40	07/11/12	4	0
4.000	1.594	42184.017	15:28:05.30	07/11/12	4	0
4.000	1.589	42186.607	15:28:05.20	07/11/12	4	0
4.000	1.585	42156.658	15:28:05.10	07/11/12	4	0
4.000	1.580	42104.934	15:28:05.00	07/11/12	4	0
4.000	1.575	42065.747	15:28:04.90	07/11/12	4	0
4.000	1.570	42037.004	15:28:04.80	07/11/12	4	0
4.000	1.565	42041.370	15:28:04.70	07/11/12	4	0
4.000	1.561	42032.436	15:28:04.60	07/11/12	4	0
4.000	1.556	42028.506	15:28:04.50	07/11/12	4	0
4.000	1.551	42002.660	15:28:04.40	07/11/12	4	0
4.000	1.546	41988.492	15:28:04.30	07/11/12	4	0
4.000	1.542	41958.076	15:28:04.20	07/11/12	4	0
4.000	1.537	41953.907	15:28:04.10	07/11/12	4	0
4.000	1.532	41952.297	15:28:04.00	07/11/12	4	0
4.000	1.527	41916.120	15:28:03.90	07/11/12	4	0
4.000	1.522	41927.150	15:28:03.80	07/11/12	4	0
4.000	1.518	41942.629	15:28:03.70	07/11/12	4	0
4.000	1.513	41969.786	15:28:03.60	07/11/12	4	0
4.000	1.508	41956.027	15:28:03.50	07/11/12	4	0
4.000	1.503	41949.799	15:28:03.40	07/11/12	4	0
4.000	1.499	41956.623	15:28:03.30	07/11/12	4	0
4.000	1.494	41964.662	15:28:03.20	07/11/12	4	0
4.000	1.489	41966.839	15:28:03.10	07/11/12	4	0
4.000	1.484	41937.940	15:28:03.00	07/11/12	4	0
4.000	1.479	41909.114	15:28:02.90	07/11/12	4	0
4.000	1.475	41863.161	15:28:02.80	07/11/12	4	0
4.000	1.470	41815.402	15:28:02.70	07/11/12	4	0
4.000	1.465	41797.842	15:28:02.60	07/11/12	4	0
4.000	1.460	41793.042	15:28:02.50	07/11/12	4	0
4.000	1.456	41779.651	15:28:02.40	07/11/12	4	0
4.000	1.451	41779.393	15:28:02.30	07/11/12	4	0
4.000	1.446	41775.841	15:28:02.20	07/11/12	4	0
4.000	1.441	41786.646	15:28:02.10	07/11/12	4	0
4.000	1.436	41804.754	15:28:02.00	07/11/12	4	0
4.000	1.432	41845.329	15:28:01.90	07/11/12	4	0
4.000	1.427	41898.351	15:28:01.80	07/11/12	4	0
4.000	1.422	41929.631	15:28:01.70	07/11/12	4	0
4.000	1.417	41926.596	15:28:01.60	07/11/12	4	0
4.000	1.413	41956.998	15:28:01.50	07/11/12	4	0
4.000	1.408	41964.943	15:28:01.40	07/11/12	4	0
4.000	1.403	41993.801	15:28:01.30	07/11/12	4	0
4.000	1.398	42023.369	15:28:01.20	07/11/12	4	0
4.000	1.393	42084.463	15:28:01.10	07/11/12	4	0
4.000	1.389	42081.744	15:28:01.00	07/11/12	4	0
4.000	1.384	42061.105	15:28:00.90	07/11/12	4	0
4.000	1.379	42019.654	15:28:00.80	07/11/12	4	0
4.000	1.374	42003.959	15:28:00.70	07/11/12	4	0
4.000	1.370	41966.025	15:28:00.60	07/11/12	4	0
4.000	1.365	42006.790	15:28:00.50	07/11/12	4	0
4.000	1.360	42029.027	15:28:00.40	07/11/12	4	0
4.000	1.355	42010.302	15:28:00.30	07/11/12	4	0
4.000	1.350	41978.760	15:28:00.20	07/11/12	4	0
4.000	1.346	42010.515	15:28:00.10	07/11/12	4	0
4.000	1.341	41981.298	15:28:00.00	07/11/12	4	0

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4.000	1.336	41971.098	15:27:59.90	07/11/12	4	0
4.000	1.331	41953.693	15:27:59.80	07/11/12	4	0
4.000	1.326	41955.905	15:27:59.70	07/11/12	4	0
4.000	1.322	41895.369	15:27:59.60	07/11/12	4	0
4.000	1.317	41857.497	15:27:59.50	07/11/12	4	0
4.000	1.312	41818.125	15:27:59.40	07/11/12	4	0
4.000	1.307	41781.051	15:27:59.30	07/11/12	4	0
4.000	1.303	41754.947	15:27:59.20	07/11/12	4	0
4.000	1.298	41774.956	15:27:59.10	07/11/12	4	0
4.000	1.293	41801.372	15:27:59.00	07/11/12	4	0
4.000	1.288	41837.468	15:27:58.90	07/11/12	4	0
4.000	1.283	41822.581	15:27:58.80	07/11/12	4	0
4.000	1.279	41780.888	15:27:58.70	07/11/12	4	0
4.000	1.274	41753.291	15:27:58.60	07/11/12	4	0
4.000	1.269	41754.090	15:27:58.50	07/11/12	4	0
4.000	1.264	41756.846	15:27:58.40	07/11/12	4	0
4.000	1.260	41744.503	15:27:58.30	07/11/12	4	0
4.000	1.255	41735.914	15:27:58.20	07/11/12	4	0
4.000	1.250	41718.923	15:27:58.10	07/11/12	4	0
4.000	1.245	41676.821	15:27:58.00	07/11/12	4	0
4.000	1.240	41669.021	15:27:57.90	07/11/12	4	0
4.000	1.236	41657.750	15:27:57.80	07/11/12	4	0
4.000	1.231	41628.613	15:27:57.70	07/11/12	4	0
4.000	1.226	41593.192	15:27:57.60	07/11/12	4	0
4.000	1.221	41565.586	15:27:57.50	07/11/12	4	0
4.000	1.217	41600.627	15:27:57.40	07/11/12	4	0
4.000	1.212	41636.053	15:27:57.30	07/11/12	4	0
4.000	1.207	41638.817	15:27:57.20	07/11/12	4	0
4.000	1.202	41616.848	15:27:57.10	07/11/12	4	0
4.000	1.197	41573.830	15:27:57.00	07/11/12	4	0
4.000	1.193	41570.108	15:27:56.90	07/11/12	4	0
4.000	1.188	41577.568	15:27:56.80	07/11/12	4	0
4.000	1.183	41612.174	15:27:56.70	07/11/12	4	0
4.000	1.178	41659.451	15:27:56.60	07/11/12	4	0
4.000	1.174	41705.169	15:27:56.50	07/11/12	4	0
4.000	1.169	41700.878	15:27:56.40	07/11/12	4	0
4.000	1.164	41665.505	15:27:56.30	07/11/12	4	0
4.000	1.159	41570.398	15:27:56.20	07/11/12	4	0
4.000	1.154	41464.090	15:27:56.10	07/11/12	4	0
4.000	1.150	41338.848	15:27:56.00	07/11/12	4	0
4.000	1.145	41276.191	15:27:55.90	07/11/12	4	0
4.000	1.140	41298.739	15:27:55.80	07/11/12	4	0
4.000	1.135	41352.122	15:27:55.70	07/11/12	4	0
4.000	1.130	41455.175	15:27:55.60	07/11/12	4	0
4.000	1.126	41610.517	15:27:55.50	07/11/12	4	0
4.000	1.121	41657.604	15:27:55.40	07/11/12	4	0
4.000	1.116	41667.670	15:27:55.30	07/11/12	4	0
4.000	1.111	41687.253	15:27:55.20	07/11/12	4	0
4.000	1.107	41678.207	15:27:55.10	07/11/12	4	0
4.000	1.102	41576.023	15:27:55.00	07/11/12	4	0
4.000	1.097	41647.913	15:27:54.90	07/11/12	4	0
4.000	1.092	41868.150	15:27:54.80	07/11/12	4	0
4.000	1.087	41909.671	15:27:54.70	07/11/12	4	0
4.000	1.083	41903.595	15:27:54.60	07/11/12	4	0
4.000	1.078	41908.233	15:27:54.50	07/11/12	4	0
4.000	1.073	41928.539	15:27:54.40	07/11/12	4	0
4.000	1.068	41910.071	15:27:54.30	07/11/12	4	0
4.000	1.064	41861.674	15:27:54.20	07/11/12	4	0
4.000	1.059	41825.050	15:27:54.10	07/11/12	4	0
4.000	1.054	41822.318	15:27:54.00	07/11/12	4	0
4.000	1.049	41910.828	15:27:53.90	07/11/12	4	0
4.000	1.044	41937.454	15:27:53.80	07/11/12	4	0
4.000	1.040	41955.000	15:27:53.70	07/11/12	4	0

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4.000	1.035	41963.127	15:27:53.60	07/11/12	4	0
4.000	1.030	41974.702	15:27:53.50	07/11/12	4	0
4.000	1.025	41942.616	15:27:53.40	07/11/12	4	0
4.000	1.021	41921.222	15:27:53.30	07/11/12	4	0
4.000	1.016	41928.631	15:27:53.20	07/11/12	4	0
4.000	1.011	41970.310	15:27:53.10	07/11/12	4	0
4.000	1.006	41990.928	15:27:53.00	07/11/12	4	0
4.000	1.001	42024.452	15:27:52.90	07/11/12	4	0
4.000	0.997	41996.376	15:27:52.80	07/11/12	4	0
4.000	0.992	41998.176	15:27:52.70	07/11/12	4	0
4.000	0.987	41944.908	15:27:52.60	07/11/12	4	0
4.000	0.982	41891.858	15:27:52.50	07/11/12	4	0
4.000	0.978	41876.413	15:27:52.40	07/11/12	4	0
4.000	0.973	41890.714	15:27:52.30	07/11/12	4	0
4.000	0.968	41911.478	15:27:52.20	07/11/12	4	0
4.000	0.963	41926.124	15:27:52.10	07/11/12	4	0
4.000	0.958	41934.442	15:27:52.00	07/11/12	4	0
4.000	0.954	41926.754	15:27:51.90	07/11/12	4	0
4.000	0.949	41929.128	15:27:51.80	07/11/12	4	0
4.000	0.944	41980.176	15:27:51.70	07/11/12	4	0
4.000	0.939	42020.381	15:27:51.60	07/11/12	4	0
4.000	0.935	42079.404	15:27:51.50	07/11/12	4	0
4.000	0.930	42166.324	15:27:51.40	07/11/12	4	0
4.000	0.925	42231.227	15:27:51.30	07/11/12	4	0
4.000	0.920	42235.647	15:27:51.20	07/11/12	4	0
4.000	0.915	42204.741	15:27:51.10	07/11/12	4	0
4.000	0.911	42151.625	15:27:51.00	07/11/12	4	0
4.000	0.906	42093.954	15:27:50.90	07/11/12	4	0
4.000	0.901	42065.774	15:27:50.80	07/11/12	4	0
4.000	0.896	42096.350	15:27:50.70	07/11/12	4	0
4.000	0.891	42100.105	15:27:50.60	07/11/12	4	0
4.000	0.887	42086.926	15:27:50.50	07/11/12	4	0
4.000	0.882	42074.837	15:27:50.40	07/11/12	4	0
4.000	0.877	42063.680	15:27:50.30	07/11/12	4	0
4.000	0.872	42056.069	15:27:50.20	07/11/12	4	0
4.000	0.868	42061.419	15:27:50.10	07/11/12	4	0
4.000	0.863	42083.160	15:27:50.00	07/11/12	4	0
4.000	0.858	42097.059	15:27:49.90	07/11/12	4	0
4.000	0.853	42148.190	15:27:49.80	07/11/12	4	0
4.000	0.848	42176.417	15:27:49.70	07/11/12	4	0
4.000	0.844	42170.935	15:27:49.60	07/11/12	4	0
4.000	0.839	42123.734	15:27:49.50	07/11/12	4	0
4.000	0.834	42036.328	15:27:49.40	07/11/12	4	0
4.000	0.829	41980.941	15:27:49.30	07/11/12	4	0
4.000	0.825	41998.585	15:27:49.20	07/11/12	4	0
4.000	0.820	41988.078	15:27:49.10	07/11/12	4	0
4.000	0.815	41950.370	15:27:49.00	07/11/12	4	0
4.000	0.810	41898.918	15:27:48.90	07/11/12	4	0
4.000	0.805	41837.487	15:27:48.80	07/11/12	4	0
4.000	0.801	41803.123	15:27:48.70	07/11/12	4	0
4.000	0.796	41780.775	15:27:48.60	07/11/12	4	0
4.000	0.791	41802.635	15:27:48.50	07/11/12	4	0
4.000	0.786	41830.082	15:27:48.40	07/11/12	4	0
4.000	0.782	41827.913	15:27:48.30	07/11/12	4	0
4.000	0.777	41805.982	15:27:48.20	07/11/12	4	0
4.000	0.772	41800.862	15:27:48.10	07/11/12	4	0
4.000	0.767	41795.222	15:27:48.00	07/11/12	4	0
4.000	0.762	41787.938	15:27:47.90	07/11/12	4	0
4.000	0.758	41803.807	15:27:47.80	07/11/12	4	0
4.000	0.753	41831.623	15:27:47.70	07/11/12	4	0
4.000	0.748	41855.588	15:27:47.60	07/11/12	4	0
4.000	0.743	41890.981	15:27:47.50	07/11/12	4	0
4.000	0.739	41898.347	15:27:47.40	07/11/12	4	0

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4.000	0.734	41930.291	15:27:47.30	07/11/12	4	0
4.000	0.729	41942.653	15:27:47.20	07/11/12	4	0
4.000	0.724	41956.084	15:27:47.10	07/11/12	4	0
4.000	0.719	41955.436	15:27:47.00	07/11/12	4	0
4.000	0.715	41948.347	15:27:46.90	07/11/12	4	0
4.000	0.710	41958.037	15:27:46.80	07/11/12	4	0
4.000	0.705	41953.820	15:27:46.70	07/11/12	4	0
4.000	0.700	41929.092	15:27:46.60	07/11/12	4	0
4.000	0.696	41906.815	15:27:46.50	07/11/12	4	0
4.000	0.691	41873.025	15:27:46.40	07/11/12	4	0
4.000	0.686	41811.141	15:27:46.30	07/11/12	4	0
4.000	0.681	41798.553	15:27:46.20	07/11/12	4	0
4.000	0.676	41792.432	15:27:46.10	07/11/12	4	0
4.000	0.672	41789.407	15:27:46.00	07/11/12	4	0
4.000	0.667	41774.541	15:27:45.90	07/11/12	4	0
4.000	0.662	41757.613	15:27:45.80	07/11/12	4	0
4.000	0.657	41743.394	15:27:45.70	07/11/12	4	0
4.000	0.652	41725.220	15:27:45.60	07/11/12	4	0
4.000	0.648	41706.035	15:27:45.50	07/11/12	4	0
4.000	0.643	41711.988	15:27:45.40	07/11/12	4	0
4.000	0.638	41747.209	15:27:45.30	07/11/12	4	0
4.000	0.633	41774.729	15:27:45.20	07/11/12	4	0
4.000	0.629	41784.731	15:27:45.10	07/11/12	4	0
4.000	0.624	41761.780	15:27:45.00	07/11/12	4	0
4.000	0.619	41747.520	15:27:44.90	07/11/12	4	0
4.000	0.614	41729.468	15:27:44.80	07/11/12	4	0
4.000	0.609	41731.240	15:27:44.70	07/11/12	4	0
4.000	0.605	41765.925	15:27:44.60	07/11/12	4	0
4.000	0.600	41793.154	15:27:44.50	07/11/12	4	0
4.000	0.595	41782.678	15:27:44.40	07/11/12	4	0
4.000	0.590	41768.915	15:27:44.30	07/11/12	4	0
4.000	0.586	41734.571	15:27:44.20	07/11/12	4	0
4.000	0.581	41705.415	15:27:44.10	07/11/12	4	0
4.000	0.576	41663.304	15:27:44.00	07/11/12	4	0
4.000	0.571	41642.371	15:27:43.90	07/11/12	4	0
4.000	0.566	41674.793	15:27:43.80	07/11/12	4	0
4.000	0.562	41729.422	15:27:43.70	07/11/12	4	0
4.000	0.557	41836.435	15:27:43.60	07/11/12	4	0
4.000	0.552	41890.887	15:27:43.50	07/11/12	4	0
4.000	0.547	41903.061	15:27:43.40	07/11/12	4	0
4.000	0.543	41923.780	15:27:43.30	07/11/12	4	0
4.000	0.538	41937.336	15:27:43.20	07/11/12	4	0
4.000	0.533	41932.323	15:27:43.10	07/11/12	4	0
4.000	0.528	41931.498	15:27:43.00	07/11/12	4	0
4.000	0.523	41936.500	15:27:42.90	07/11/12	4	0
4.000	0.519	41960.263	15:27:42.80	07/11/12	4	0
4.000	0.514	41975.964	15:27:42.70	07/11/12	4	0
4.000	0.509	41981.608	15:27:42.60	07/11/12	4	0
4.000	0.504	41945.063	15:27:42.50	07/11/12	4	0
4.000	0.500	41890.822	15:27:42.40	07/11/12	4	0
4.000	0.495	41820.559	15:27:42.30	07/11/12	4	0
4.000	0.490	41741.366	15:27:42.20	07/11/12	4	0
4.000	0.485	41710.138	15:27:42.10	07/11/12	4	0
4.000	0.480	41709.107	15:27:42.00	07/11/12	4	0
4.000	0.476	41691.148	15:27:41.90	07/11/12	4	0
4.000	0.471	41645.850	15:27:41.80	07/11/12	4	0
4.000	0.466	41565.565	15:27:41.70	07/11/12	4	0
4.000	0.461	41516.329	15:27:41.60	07/11/12	4	0
4.000	0.457	41503.293	15:27:41.50	07/11/12	4	0
4.000	0.452	41519.448	15:27:41.40	07/11/12	4	0
4.000	0.447	41524.942	15:27:41.30	07/11/12	4	0
4.000	0.442	41539.313	15:27:41.20	07/11/12	4	0
4.000	0.437	41538.796	15:27:41.10	07/11/12	4	0

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4.000	0.433	41522.552	15:27:41.00	07/11/12	4	0
4.000	0.428	41524.132	15:27:40.90	07/11/12	4	0
4.000	0.423	41541.733	15:27:40.80	07/11/12	4	0
4.000	0.418	41549.991	15:27:40.70	07/11/12	4	0
4.000	0.413	41580.833	15:27:40.60	07/11/12	4	0
4.000	0.409	41637.001	15:27:40.50	07/11/12	4	0
4.000	0.404	41698.481	15:27:40.40	07/11/12	4	0
4.000	0.399	41760.553	15:27:40.30	07/11/12	4	0
4.000	0.394	41821.916	15:27:40.20	07/11/12	4	0
4.000	0.390	41865.166	15:27:40.10	07/11/12	4	0
4.000	0.385	41846.315	15:27:40.00	07/11/12	4	0
4.000	0.380	41823.889	15:27:39.90	07/11/12	4	0
4.000	0.375	41805.610	15:27:39.80	07/11/12	4	0
4.000	0.370	41807.480	15:27:39.70	07/11/12	4	0
4.000	0.366	41800.416	15:27:39.60	07/11/12	4	0
4.000	0.361	41814.305	15:27:39.50	07/11/12	4	0
4.000	0.356	41904.369	15:27:39.40	07/11/12	4	0
4.000	0.351	42006.253	15:27:39.30	07/11/12	4	0
4.000	0.347	42069.250	15:27:39.20	07/11/12	4	0
4.000	0.342	42084.132	15:27:39.10	07/11/12	4	0
4.000	0.337	42116.655	15:27:39.00	07/11/12	4	0
4.000	0.332	42117.425	15:27:38.90	07/11/12	4	0
4.000	0.327	42094.029	15:27:38.80	07/11/12	4	0
4.000	0.323	42095.900	15:27:38.70	07/11/12	4	0
4.000	0.318	42064.076	15:27:38.60	07/11/12	4	0
4.000	0.313	41992.125	15:27:38.50	07/11/12	4	0
4.000	0.308	41960.568	15:27:38.40	07/11/12	4	0
4.000	0.304	41971.073	15:27:38.30	07/11/12	4	0
4.000	0.299	41942.525	15:27:38.20	07/11/12	4	0
4.000	0.294	41890.409	15:27:38.10	07/11/12	4	0
4.000	0.289	41864.128	15:27:38.00	07/11/12	4	0
4.000	0.284	41829.019	15:27:37.90	07/11/12	4	0
4.000	0.280	41802.563	15:27:37.80	07/11/12	4	0
4.000	0.275	41770.858	15:27:37.70	07/11/12	4	0
4.000	0.270	41736.169	15:27:37.60	07/11/12	4	0
4.000	0.265	41705.255	15:27:37.50	07/11/12	4	0
4.000	0.261	41682.328	15:27:37.40	07/11/12	4	0
4.000	0.256	41680.638	15:27:37.30	07/11/12	4	0
4.000	0.251	41667.393	15:27:37.20	07/11/12	4	0
4.000	0.246	41668.943	15:27:37.10	07/11/12	4	0
4.000	0.241	41705.491	15:27:37.00	07/11/12	4	0
4.000	0.237	41718.107	15:27:36.90	07/11/12	4	0
4.000	0.232	41711.411	15:27:36.80	07/11/12	4	0
4.000	0.227	41689.280	15:27:36.70	07/11/12	4	0
4.000	0.222	41658.469	15:27:36.60	07/11/12	4	0
4.000	0.217	41627.534	15:27:36.50	07/11/12	4	0
4.000	0.213	41632.367	15:27:36.40	07/11/12	4	0
4.000	0.208	41641.934	15:27:36.30	07/11/12	4	0
4.000	0.203	41630.121	15:27:36.20	07/11/12	4	0
4.000	0.198	41615.704	15:27:36.10	07/11/12	4	0
4.000	0.194	41598.856	15:27:36.00	07/11/12	4	0
4.000	0.189	41552.078	15:27:35.90	07/11/12	4	0
4.000	0.184	41487.782	15:27:35.80	07/11/12	4	0
4.000	0.179	41473.053	15:27:35.70	07/11/12	4	0
4.000	0.174	41483.696	15:27:35.60	07/11/12	4	0
4.000	0.170	41487.114	15:27:35.50	07/11/12	4	0
4.000	0.165	41486.082	15:27:35.40	07/11/12	4	0
4.000	0.160	41472.972	15:27:35.30	07/11/12	4	0
4.000	0.155	41434.071	15:27:35.20	07/11/12	4	0
4.000	0.151	41375.142	15:27:35.10	07/11/12	4	0
4.000	0.146	41288.142	15:27:35.00	07/11/12	4	0
4.000	0.141	41234.416	15:27:34.90	07/11/12	4	0
4.000	0.136	41169.886	15:27:34.80	07/11/12	4	0

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4.000	0.131	41127.926	15:27:34.70	07/11/12	4	0
4.000	0.127	41121.224	15:27:34.60	07/11/12	4	0
4.000	0.122	41119.480	15:27:34.50	07/11/12	4	0
4.000	0.117	41122.846	15:27:34.40	07/11/12	4	0
4.000	0.112	41126.113	15:27:34.30	07/11/12	4	0
4.000	0.108	41159.127	15:27:34.20	07/11/12	4	0
4.000	0.103	41143.896	15:27:34.10	07/11/12	4	0
4.000	0.098	41109.375	15:27:34.00	07/11/12	4	0
4.000	0.093	41133.721	15:27:33.90	07/11/12	4	0
4.000	0.088	41153.532	15:27:33.80	07/11/12	4	0
4.000	0.084	41168.604	15:27:33.70	07/11/12	4	0
4.000	0.079	41209.945	15:27:33.60	07/11/12	4	0
4.000	0.074	41249.086	15:27:33.50	07/11/12	4	0
4.000	0.069	41274.152	15:27:33.40	07/11/12	4	0
4.000	0.065	41311.534	15:27:33.30	07/11/12	4	0
4.000	0.060	41337.352	15:27:33.20	07/11/12	4	0
4.000	0.055	41343.737	15:27:33.10	07/11/12	4	0
4.000	0.050	41324.466	15:27:33.00	07/11/12	4	0
4.000	0.045	41329.018	15:27:32.90	07/11/12	4	0
4.000	0.041	41339.949	15:27:32.80	07/11/12	4	0
4.000	0.036	41352.200	15:27:32.70	07/11/12	4	0
4.000	0.031	41354.036	15:27:32.60	07/11/12	4	0
4.000	0.026	41364.121	15:27:32.50	07/11/12	4	0
4.000	0.022	41359.380	15:27:32.40	07/11/12	4	0
4.000	0.017	41360.483	15:27:32.30	07/11/12	4	0
4.000	0.012	41401.505	15:27:32.20	07/11/12	4	0
4.000	0.007	41440.544	15:27:32.10	07/11/12	4	0
4.000	0.002	41526.054	15:27:32.00	07/11/12	4	0
LINE 3						
3.000	0.004	49597.102	15:27:03.40	07/11/12	3	0
3.000	0.011	49597.483	15:27:03.30	07/11/12	3	0
3.000	0.018	49598.163	15:27:03.20	07/11/12	3	0
3.000	0.025	49598.646	15:27:03.10	07/11/12	3	0
3.000	0.032	49598.419	15:27:03.00	07/11/12	3	0
3.000	0.040	49598.038	15:27:02.90	07/11/12	3	0
3.000	0.047	49597.760	15:27:02.80	07/11/12	3	0
3.000	0.054	49596.189	15:27:02.70	07/11/12	3	0
3.000	0.061	49593.161	15:27:02.60	07/11/12	3	0
3.000	0.068	49590.270	15:27:02.50	07/11/12	3	0
3.000	0.076	49586.389	15:27:02.40	07/11/12	3	0
3.000	0.083	49582.735	15:27:02.30	07/11/12	3	0
3.000	0.090	49579.626	15:27:02.20	07/11/12	3	0
3.000	0.097	49577.682	15:27:02.10	07/11/12	3	0
3.000	0.104	49575.989	15:27:02.00	07/11/12	3	0
3.000	0.112	49574.510	15:27:01.90	07/11/12	3	0
3.000	0.119	49573.202	15:27:01.80	07/11/12	3	0
3.000	0.126	49572.849	15:27:01.70	07/11/12	3	0
3.000	0.133	49572.872	15:27:01.60	07/11/12	3	0
3.000	0.140	49572.977	15:27:01.50	07/11/12	3	0
3.000	0.148	49572.619	15:27:01.40	07/11/12	3	0
3.000	0.155	49572.056	15:27:01.30	07/11/12	3	0
3.000	0.162	49571.156	15:27:01.20	07/11/12	3	0
3.000	0.169	49570.433	15:27:01.10	07/11/12	3	0
3.000	0.177	49568.728	15:27:01.00	07/11/12	3	0
3.000	0.184	49567.511	15:27:00.90	07/11/12	3	0
3.000	0.191	49566.823	15:27:00.80	07/11/12	3	0
3.000	0.198	49566.728	15:27:00.70	07/11/12	3	0
3.000	0.205	49566.385	15:27:00.60	07/11/12	3	0
3.000	0.213	49565.764	15:27:00.50	07/11/12	3	0
3.000	0.220	49564.868	15:27:00.40	07/11/12	3	0
3.000	0.227	49563.461	15:27:00.30	07/11/12	3	0
3.000	0.234	49561.048	15:27:00.20	07/11/12	3	0
3.000	0.241	49558.357	15:27:00.10	07/11/12	3	0

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3.000	0.249	49556.163	15:27:00.00	07/11/12	3	0
3.000	0.256	49556.981	15:26:59.90	07/11/12	3	0
3.000	0.263	49558.514	15:26:59.80	07/11/12	3	0
3.000	0.270	49557.660	15:26:59.70	07/11/12	3	0
3.000	0.277	49553.612	15:26:59.60	07/11/12	3	0
3.000	0.285	49551.084	15:26:59.50	07/11/12	3	0
3.000	0.292	49550.404	15:26:59.40	07/11/12	3	0
3.000	0.299	49550.553	15:26:59.30	07/11/12	3	0
3.000	0.306	49550.382	15:26:59.20	07/11/12	3	0
3.000	0.313	49550.377	15:26:59.10	07/11/12	3	0
3.000	0.321	49550.099	15:26:59.00	07/11/12	3	0
3.000	0.328	49550.505	15:26:58.90	07/11/12	3	0
3.000	0.335	49551.221	15:26:58.80	07/11/12	3	0
3.000	0.342	49552.387	15:26:58.70	07/11/12	3	0
3.000	0.349	49553.462	15:26:58.60	07/11/12	3	0
3.000	0.357	49554.133	15:26:58.50	07/11/12	3	0
3.000	0.364	49554.815	15:26:58.40	07/11/12	3	0
3.000	0.371	49555.539	15:26:58.30	07/11/12	3	0
3.000	0.378	49557.249	15:26:58.20	07/11/12	3	0
3.000	0.385	49558.225	15:26:58.10	07/11/12	3	0
3.000	0.393	49557.849	15:26:58.00	07/11/12	3	0
3.000	0.400	49556.549	15:26:57.90	07/11/12	3	0
3.000	0.407	49556.012	15:26:57.80	07/11/12	3	0
3.000	0.414	49555.973	15:26:57.70	07/11/12	3	0
3.000	0.421	49557.403	15:26:57.60	07/11/12	3	0
3.000	0.429	49559.064	15:26:57.50	07/11/12	3	0
3.000	0.436	49560.264	15:26:57.40	07/11/12	3	0
3.000	0.443	49560.638	15:26:57.30	07/11/12	3	0
3.000	0.450	49558.732	15:26:57.20	07/11/12	3	0
3.000	0.457	49554.676	15:26:57.10	07/11/12	3	0
3.000	0.465	49551.092	15:26:57.00	07/11/12	3	0
3.000	0.472	49547.827	15:26:56.90	07/11/12	3	0
3.000	0.479	49545.311	15:26:56.80	07/11/12	3	0
3.000	0.486	49544.348	15:26:56.70	07/11/12	3	0
3.000	0.494	49544.907	15:26:56.60	07/11/12	3	0
3.000	0.501	49544.872	15:26:56.50	07/11/12	3	0
3.000	0.508	49543.631	15:26:56.40	07/11/12	3	0
3.000	0.515	49542.999	15:26:56.30	07/11/12	3	0
3.000	0.522	49543.836	15:26:56.20	07/11/12	3	0
3.000	0.530	49545.779	15:26:56.10	07/11/12	3	0
3.000	0.537	49549.020	15:26:56.00	07/11/12	3	0
3.000	0.544	49551.608	15:26:55.90	07/11/12	3	0
3.000	0.551	49553.379	15:26:55.80	07/11/12	3	0
3.000	0.558	49553.947	15:26:55.70	07/11/12	3	0
3.000	0.566	49553.652	15:26:55.60	07/11/12	3	0
3.000	0.573	49553.734	15:26:55.50	07/11/12	3	0
3.000	0.580	49554.822	15:26:55.40	07/11/12	3	0
3.000	0.587	49555.417	15:26:55.30	07/11/12	3	0
3.000	0.594	49554.477	15:26:55.20	07/11/12	3	0
3.000	0.602	49552.563	15:26:55.10	07/11/12	3	0
3.000	0.609	49549.946	15:26:55.00	07/11/12	3	0
3.000	0.616	49548.157	15:26:54.90	07/11/12	3	0
3.000	0.623	49548.094	15:26:54.80	07/11/12	3	0
3.000	0.630	49550.201	15:26:54.70	07/11/12	3	0
3.000	0.638	49552.625	15:26:54.60	07/11/12	3	0
3.000	0.645	49554.850	15:26:54.50	07/11/12	3	0
3.000	0.652	49558.030	15:26:54.40	07/11/12	3	0
3.000	0.659	49561.478	15:26:54.30	07/11/12	3	0
3.000	0.666	49565.172	15:26:54.20	07/11/12	3	0
3.000	0.674	49568.715	15:26:54.10	07/11/12	3	0
3.000	0.681	49571.798	15:26:54.00	07/11/12	3	0
3.000	0.688	49573.647	15:26:53.90	07/11/12	3	0
3.000	0.695	49574.756	15:26:53.80	07/11/12	3	0

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3.000	0.702	49576.590	15:26:53.70	07/11/12	3	0
3.000	0.710	49578.727	15:26:53.60	07/11/12	3	0
3.000	0.717	49579.087	15:26:53.50	07/11/12	3	0
3.000	0.724	49578.374	15:26:53.40	07/11/12	3	0
3.000	0.731	49577.862	15:26:53.30	07/11/12	3	0
3.000	0.738	49576.780	15:26:53.20	07/11/12	3	0
3.000	0.746	49575.701	15:26:53.10	07/11/12	3	0
3.000	0.753	49575.643	15:26:53.00	07/11/12	3	0
3.000	0.760	49576.840	15:26:52.90	07/11/12	3	0
3.000	0.767	49577.695	15:26:52.80	07/11/12	3	0
3.000	0.774	49578.041	15:26:52.70	07/11/12	3	0
3.000	0.782	49577.667	15:26:52.60	07/11/12	3	0
3.000	0.789	49576.769	15:26:52.50	07/11/12	3	0
3.000	0.796	49575.850	15:26:52.40	07/11/12	3	0
3.000	0.803	49577.031	15:26:52.30	07/11/12	3	0
3.000	0.811	49578.568	15:26:52.20	07/11/12	3	0
3.000	0.818	49580.639	15:26:52.10	07/11/12	3	0
3.000	0.825	49582.640	15:26:52.00	07/11/12	3	0
3.000	0.832	49583.795	15:26:51.90	07/11/12	3	0
3.000	0.839	49583.389	15:26:51.80	07/11/12	3	0
3.000	0.847	49582.326	15:26:51.70	07/11/12	3	0
3.000	0.854	49581.436	15:26:51.60	07/11/12	3	0
3.000	0.861	49580.948	15:26:51.50	07/11/12	3	0
3.000	0.868	49581.023	15:26:51.40	07/11/12	3	0
3.000	0.875	49582.353	15:26:51.30	07/11/12	3	0
3.000	0.883	49583.776	15:26:51.20	07/11/12	3	0
3.000	0.890	49584.485	15:26:51.10	07/11/12	3	0
3.000	0.897	49583.405	15:26:51.00	07/11/12	3	0
3.000	0.904	49581.213	15:26:50.90	07/11/12	3	0
3.000	0.911	49579.195	15:26:50.80	07/11/12	3	0
3.000	0.919	49578.129	15:26:50.70	07/11/12	3	0
3.000	0.926	49577.090	15:26:50.60	07/11/12	3	0
3.000	0.933	49576.633	15:26:50.50	07/11/12	3	0
3.000	0.940	49575.477	15:26:50.40	07/11/12	3	0
3.000	0.947	49574.766	15:26:50.30	07/11/12	3	0
3.000	0.955	49574.498	15:26:50.20	07/11/12	3	0
3.000	0.962	49573.643	15:26:50.10	07/11/12	3	0
3.000	0.969	49571.955	15:26:50.00	07/11/12	3	0
3.000	0.976	49570.139	15:26:49.90	07/11/12	3	0
3.000	0.983	49568.427	15:26:49.80	07/11/12	3	0
3.000	0.991	49566.297	15:26:49.70	07/11/12	3	0
3.000	0.998	49563.079	15:26:49.60	07/11/12	3	0
3.000	1.005	49559.525	15:26:49.50	07/11/12	3	0
3.000	1.012	49555.986	15:26:49.40	07/11/12	3	0
3.000	1.019	49553.778	15:26:49.30	07/11/12	3	0
3.000	1.027	49551.986	15:26:49.20	07/11/12	3	0
3.000	1.034	49551.532	15:26:49.10	07/11/12	3	0
3.000	1.041	49552.149	15:26:49.00	07/11/12	3	0
3.000	1.048	49551.505	15:26:48.90	07/11/12	3	0
3.000	1.055	49548.783	15:26:48.80	07/11/12	3	0
3.000	1.063	49546.372	15:26:48.70	07/11/12	3	0
3.000	1.070	49546.832	15:26:48.60	07/11/12	3	0
3.000	1.077	49548.141	15:26:48.50	07/11/12	3	0
3.000	1.084	49548.981	15:26:48.40	07/11/12	3	0
3.000	1.091	49549.859	15:26:48.30	07/11/12	3	0
3.000	1.099	49551.639	15:26:48.20	07/11/12	3	0
3.000	1.106	49554.674	15:26:48.10	07/11/12	3	0
3.000	1.113	49557.615	15:26:48.00	07/11/12	3	0
3.000	1.120	49559.801	15:26:47.90	07/11/12	3	0
3.000	1.128	49562.947	15:26:47.80	07/11/12	3	0
3.000	1.135	49566.105	15:26:47.70	07/11/12	3	0
3.000	1.142	49568.764	15:26:47.60	07/11/12	3	0
3.000	1.149	49570.496	15:26:47.50	07/11/12	3	0

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3.000	1.156	49571.319	15:26:47.40	07/11/12	3	0
3.000	1.164	49572.966	15:26:47.30	07/11/12	3	0
3.000	1.171	49576.716	15:26:47.20	07/11/12	3	0
3.000	1.178	49580.065	15:26:47.10	07/11/12	3	0
3.000	1.185	49581.696	15:26:47.00	07/11/12	3	0
3.000	1.192	49581.890	15:26:46.90	07/11/12	3	0
3.000	1.200	49581.777	15:26:46.80	07/11/12	3	0
3.000	1.207	49581.921	15:26:46.70	07/11/12	3	0
3.000	1.214	49582.248	15:26:46.60	07/11/12	3	0
3.000	1.221	49582.616	15:26:46.50	07/11/12	3	0
3.000	1.228	49583.672	15:26:46.40	07/11/12	3	0
3.000	1.236	49585.419	15:26:46.30	07/11/12	3	0
3.000	1.243	49587.736	15:26:46.20	07/11/12	3	0
3.000	1.250	49588.860	15:26:46.10	07/11/12	3	0
3.000	1.257	49588.062	15:26:46.00	07/11/12	3	0
3.000	1.264	49587.038	15:26:45.90	07/11/12	3	0
3.000	1.272	49587.583	15:26:45.80	07/11/12	3	0
3.000	1.279	49589.332	15:26:45.70	07/11/12	3	0
3.000	1.286	49592.049	15:26:45.60	07/11/12	3	0
3.000	1.293	49594.248	15:26:45.50	07/11/12	3	0
3.000	1.300	49594.538	15:26:45.40	07/11/12	3	0
3.000	1.308	49591.675	15:26:45.30	07/11/12	3	0
3.000	1.315	49587.397	15:26:45.20	07/11/12	3	0
3.000	1.322	49583.271	15:26:45.10	07/11/12	3	0
3.000	1.329	49581.684	15:26:45.00	07/11/12	3	0
3.000	1.336	49582.375	15:26:44.90	07/11/12	3	0
3.000	1.344	49584.314	15:26:44.80	07/11/12	3	0
3.000	1.351	49584.530	15:26:44.70	07/11/12	3	0
3.000	1.358	49581.683	15:26:44.60	07/11/12	3	0
3.000	1.365	49577.731	15:26:44.50	07/11/12	3	0
3.000	1.372	49576.424	15:26:44.40	07/11/12	3	0
3.000	1.380	49575.466	15:26:44.30	07/11/12	3	0
3.000	1.387	49575.497	15:26:44.20	07/11/12	3	0
3.000	1.394	49576.195	15:26:44.10	07/11/12	3	0
3.000	1.401	49576.782	15:26:44.00	07/11/12	3	0
3.000	1.409	49575.857	15:26:43.90	07/11/12	3	0
3.000	1.416	49573.534	15:26:43.80	07/11/12	3	0
3.000	1.423	49570.776	15:26:43.70	07/11/12	3	0
3.000	1.430	49568.428	15:26:43.60	07/11/12	3	0
3.000	1.437	49566.207	15:26:43.50	07/11/12	3	0
3.000	1.445	49564.692	15:26:43.40	07/11/12	3	0
3.000	1.452	49564.341	15:26:43.30	07/11/12	3	0
3.000	1.459	49564.520	15:26:43.20	07/11/12	3	0
3.000	1.466	49564.418	15:26:43.10	07/11/12	3	0
3.000	1.473	49564.126	15:26:43.00	07/11/12	3	0
3.000	1.481	49564.410	15:26:42.90	07/11/12	3	0
3.000	1.488	49565.612	15:26:42.80	07/11/12	3	0
3.000	1.495	49566.209	15:26:42.70	07/11/12	3	0
3.000	1.502	49566.348	15:26:42.60	07/11/12	3	0
3.000	1.509	49567.613	15:26:42.50	07/11/12	3	0
3.000	1.517	49569.972	15:26:42.40	07/11/12	3	0
3.000	1.524	49572.303	15:26:42.30	07/11/12	3	0
3.000	1.531	49574.047	15:26:42.20	07/11/12	3	0
3.000	1.538	49575.228	15:26:42.10	07/11/12	3	0
3.000	1.545	49576.465	15:26:42.00	07/11/12	3	0
3.000	1.553	49577.481	15:26:41.90	07/11/12	3	0
3.000	1.560	49578.461	15:26:41.80	07/11/12	3	0
3.000	1.567	49580.279	15:26:41.70	07/11/12	3	0
3.000	1.574	49582.993	15:26:41.60	07/11/12	3	0
3.000	1.581	49585.463	15:26:41.50	07/11/12	3	0
3.000	1.589	49586.884	15:26:41.40	07/11/12	3	0
3.000	1.596	49587.967	15:26:41.30	07/11/12	3	0
3.000	1.603	49589.782	15:26:41.20	07/11/12	3	0

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3.000	1.610	49591.626	15:26:41.10	07/11/12	3	0
3.000	1.617	49593.203	15:26:41.00	07/11/12	3	0
3.000	1.625	49594.755	15:26:40.90	07/11/12	3	0
3.000	1.632	49595.658	15:26:40.80	07/11/12	3	0
3.000	1.639	49594.754	15:26:40.70	07/11/12	3	0
3.000	1.646	49594.469	15:26:40.60	07/11/12	3	0
3.000	1.653	49596.199	15:26:40.50	07/11/12	3	0
3.000	1.661	49598.418	15:26:40.40	07/11/12	3	0
3.000	1.668	49599.994	15:26:40.30	07/11/12	3	0
3.000	1.675	49600.643	15:26:40.20	07/11/12	3	0
3.000	1.682	49601.221	15:26:40.10	07/11/12	3	0
3.000	1.689	49601.995	15:26:40.00	07/11/12	3	0
3.000	1.697	49602.095	15:26:39.90	07/11/12	3	0
3.000	1.704	49602.482	15:26:39.80	07/11/12	3	0
3.000	1.711	49603.427	15:26:39.70	07/11/12	3	0
3.000	1.718	49605.470	15:26:39.60	07/11/12	3	0
3.000	1.726	49607.129	15:26:39.50	07/11/12	3	0
3.000	1.733	49608.387	15:26:39.40	07/11/12	3	0
3.000	1.740	49608.369	15:26:39.30	07/11/12	3	0
3.000	1.747	49607.008	15:26:39.20	07/11/12	3	0
3.000	1.754	49605.468	15:26:39.10	07/11/12	3	0
3.000	1.762	49604.905	15:26:39.00	07/11/12	3	0
3.000	1.769	49605.930	15:26:38.90	07/11/12	3	0
3.000	1.776	49608.095	15:26:38.80	07/11/12	3	0
3.000	1.783	49609.108	15:26:38.70	07/11/12	3	0
3.000	1.790	49609.674	15:26:38.60	07/11/12	3	0
3.000	1.798	49611.199	15:26:38.50	07/11/12	3	0
3.000	1.805	49613.769	15:26:38.40	07/11/12	3	0
3.000	1.812	49615.143	15:26:38.30	07/11/12	3	0
3.000	1.819	49616.795	15:26:38.20	07/11/12	3	0
3.000	1.826	49618.972	15:26:38.10	07/11/12	3	0
3.000	1.834	49620.294	15:26:38.00	07/11/12	3	0
3.000	1.841	49619.739	15:26:37.90	07/11/12	3	0
3.000	1.848	49618.389	15:26:37.80	07/11/12	3	0
3.000	1.855	49615.945	15:26:37.70	07/11/12	3	0
3.000	1.862	49613.680	15:26:37.60	07/11/12	3	0
3.000	1.870	49613.253	15:26:37.50	07/11/12	3	0
3.000	1.877	49614.901	15:26:37.40	07/11/12	3	0
3.000	1.884	49616.832	15:26:37.30	07/11/12	3	0
3.000	1.891	49618.572	15:26:37.20	07/11/12	3	0
3.000	1.898	49619.332	15:26:37.10	07/11/12	3	0
3.000	1.906	49619.111	15:26:37.00	07/11/12	3	0
3.000	1.913	49618.134	15:26:36.90	07/11/12	3	0
3.000	1.920	49618.560	15:26:36.80	07/11/12	3	0
3.000	1.927	49619.897	15:26:36.70	07/11/12	3	0
3.000	1.934	49620.904	15:26:36.60	07/11/12	3	0
3.000	1.942	49621.640	15:26:36.50	07/11/12	3	0
3.000	1.949	49622.857	15:26:36.40	07/11/12	3	0
3.000	1.956	49624.126	15:26:36.30	07/11/12	3	0
3.000	1.963	49624.895	15:26:36.20	07/11/12	3	0
3.000	1.970	49624.580	15:26:36.10	07/11/12	3	0
3.000	1.978	49622.861	15:26:36.00	07/11/12	3	0
3.000	1.985	49620.045	15:26:35.90	07/11/12	3	0
3.000	1.992	49615.459	15:26:35.80	07/11/12	3	0
3.000	1.999	49611.784	15:26:35.70	07/11/12	3	0
3.000	2.006	49611.773	15:26:35.60	07/11/12	3	0
3.000	2.014	49612.955	15:26:35.50	07/11/12	3	0
3.000	2.021	49611.816	15:26:35.40	07/11/12	3	0
3.000	2.028	49611.071	15:26:35.30	07/11/12	3	0
3.000	2.035	49612.286	15:26:35.20	07/11/12	3	0
3.000	2.043	49612.781	15:26:35.10	07/11/12	3	0
3.000	2.050	49612.228	15:26:35.00	07/11/12	3	0
3.000	2.057	49611.668	15:26:34.90	07/11/12	3	0

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3.000	2.064	49613.083	15:26:34.80	07/11/12	3	0
3.000	2.071	49616.941	15:26:34.70	07/11/12	3	0
3.000	2.079	49621.659	15:26:34.60	07/11/12	3	0
3.000	2.086	49625.028	15:26:34.50	07/11/12	3	0
3.000	2.093	49626.287	15:26:34.40	07/11/12	3	0
3.000	2.100	49625.764	15:26:34.30	07/11/12	3	0
3.000	2.107	49626.381	15:26:34.20	07/11/12	3	0
3.000	2.115	49628.502	15:26:34.10	07/11/12	3	0
3.000	2.122	49632.199	15:26:34.00	07/11/12	3	0
3.000	2.129	49636.788	15:26:33.90	07/11/12	3	0
3.000	2.136	49640.868	15:26:33.80	07/11/12	3	0
3.000	2.143	49642.765	15:26:33.70	07/11/12	3	0
3.000	2.151	49642.547	15:26:33.60	07/11/12	3	0
3.000	2.158	49641.733	15:26:33.50	07/11/12	3	0
3.000	2.165	49642.068	15:26:33.40	07/11/12	3	0
3.000	2.172	49643.312	15:26:33.30	07/11/12	3	0
3.000	2.179	49644.470	15:26:33.20	07/11/12	3	0
3.000	2.187	49644.041	15:26:33.10	07/11/12	3	0
3.000	2.194	49642.640	15:26:33.00	07/11/12	3	0
3.000	2.201	49641.295	15:26:32.90	07/11/12	3	0
3.000	2.208	49640.750	15:26:32.80	07/11/12	3	0
3.000	2.215	49641.901	15:26:32.70	07/11/12	3	0
3.000	2.223	49643.650	15:26:32.60	07/11/12	3	0
3.000	2.230	49644.108	15:26:32.50	07/11/12	3	0
3.000	2.237	49642.918	15:26:32.40	07/11/12	3	0
3.000	2.244	49641.886	15:26:32.30	07/11/12	3	0
3.000	2.251	49640.130	15:26:32.20	07/11/12	3	0
3.000	2.259	49638.376	15:26:32.10	07/11/12	3	0
3.000	2.266	49636.847	15:26:32.00	07/11/12	3	0
3.000	2.273	49636.449	15:26:31.90	07/11/12	3	0
3.000	2.280	49636.339	15:26:31.80	07/11/12	3	0
3.000	2.287	49635.807	15:26:31.70	07/11/12	3	0
3.000	2.295	49634.736	15:26:31.60	07/11/12	3	0
3.000	2.302	49633.177	15:26:31.50	07/11/12	3	0
3.000	2.309	49633.288	15:26:31.40	07/11/12	3	0
3.000	2.316	49635.000	15:26:31.30	07/11/12	3	0
3.000	2.323	49635.526	15:26:31.20	07/11/12	3	0
3.000	2.331	49634.176	15:26:31.10	07/11/12	3	0
3.000	2.338	49633.421	15:26:31.00	07/11/12	3	0
3.000	2.345	49635.155	15:26:30.90	07/11/12	3	0
3.000	2.352	49636.946	15:26:30.80	07/11/12	3	0
3.000	2.360	49639.583	15:26:30.70	07/11/12	3	0
3.000	2.367	49641.411	15:26:30.60	07/11/12	3	0
3.000	2.374	49642.815	15:26:30.50	07/11/12	3	0
3.000	2.381	49643.154	15:26:30.40	07/11/12	3	0
3.000	2.388	49642.618	15:26:30.30	07/11/12	3	0
3.000	2.396	49642.099	15:26:30.20	07/11/12	3	0
3.000	2.403	49642.453	15:26:30.10	07/11/12	3	0
3.000	2.410	49643.213	15:26:30.00	07/11/12	3	0
3.000	2.417	49644.215	15:26:29.90	07/11/12	3	0
3.000	2.424	49644.381	15:26:29.80	07/11/12	3	0
3.000	2.432	49644.440	15:26:29.70	07/11/12	3	0
3.000	2.439	49644.668	15:26:29.60	07/11/12	3	0
3.000	2.446	49645.198	15:26:29.50	07/11/12	3	0
3.000	2.453	49647.405	15:26:29.40	07/11/12	3	0
3.000	2.460	49651.379	15:26:29.30	07/11/12	3	0
3.000	2.468	49654.856	15:26:29.20	07/11/12	3	0
3.000	2.475	49656.534	15:26:29.10	07/11/12	3	0
3.000	2.482	49657.007	15:26:29.00	07/11/12	3	0
3.000	2.489	49659.067	15:26:28.90	07/11/12	3	0
3.000	2.496	49661.579	15:26:28.80	07/11/12	3	0
LINE 2						
2.000	2.496	51988.259	15:25:09.00	07/11/12	2	0

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2.000	2.489	51988.343	15:25:08.90	07/11/12	2	0
2.000	2.482	51988.452	15:25:08.80	07/11/12	2	0
2.000	2.475	51988.510	15:25:08.70	07/11/12	2	0
2.000	2.468	51989.000	15:25:08.60	07/11/12	2	0
2.000	2.461	51989.217	15:25:08.50	07/11/12	2	0
2.000	2.453	51989.283	15:25:08.40	07/11/12	2	0
2.000	2.446	51989.065	15:25:08.30	07/11/12	2	0
2.000	2.439	51988.188	15:25:08.20	07/11/12	2	0
2.000	2.432	51986.849	15:25:08.10	07/11/12	2	0
2.000	2.425	51986.185	15:25:08.00	07/11/12	2	0
2.000	2.418	51986.448	15:25:07.90	07/11/12	2	0
2.000	2.410	51987.605	15:25:07.80	07/11/12	2	0
2.000	2.403	51988.223	15:25:07.70	07/11/12	2	0
2.000	2.396	51987.775	15:25:07.60	07/11/12	2	0
2.000	2.389	51988.037	15:25:07.50	07/11/12	2	0
2.000	2.382	51990.314	15:25:07.40	07/11/12	2	0
2.000	2.375	51993.019	15:25:07.30	07/11/12	2	0
2.000	2.367	51994.383	15:25:07.20	07/11/12	2	0
2.000	2.360	51994.670	15:25:07.10	07/11/12	2	0
2.000	2.353	51995.297	15:25:07.00	07/11/12	2	0
2.000	2.346	51995.930	15:25:06.90	07/11/12	2	0
2.000	2.339	51996.113	15:25:06.80	07/11/12	2	0
2.000	2.332	51996.250	15:25:06.70	07/11/12	2	0
2.000	2.324	51996.159	15:25:06.60	07/11/12	2	0
2.000	2.317	51995.961	15:25:06.50	07/11/12	2	0
2.000	2.310	51995.667	15:25:06.40	07/11/12	2	0
2.000	2.303	51995.743	15:25:06.30	07/11/12	2	0
2.000	2.296	51996.203	15:25:06.20	07/11/12	2	0
2.000	2.289	51996.953	15:25:06.10	07/11/12	2	0
2.000	2.282	51997.844	15:25:06.00	07/11/12	2	0
2.000	2.274	51998.615	15:25:05.90	07/11/12	2	0
2.000	2.267	51999.245	15:25:05.80	07/11/12	2	0
2.000	2.260	51999.696	15:25:05.70	07/11/12	2	0
2.000	2.253	51999.751	15:25:05.60	07/11/12	2	0
2.000	2.246	51999.602	15:25:05.50	07/11/12	2	0
2.000	2.239	51999.460	15:25:05.40	07/11/12	2	0
2.000	2.231	51999.503	15:25:05.30	07/11/12	2	0
2.000	2.224	51999.591	15:25:05.20	07/11/12	2	0
2.000	2.217	51999.671	15:25:05.10	07/11/12	2	0
2.000	2.210	51999.642	15:25:05.00	07/11/12	2	0
2.000	2.203	51999.774	15:25:04.90	07/11/12	2	0
2.000	2.196	52000.305	15:25:04.80	07/11/12	2	0
2.000	2.188	52000.636	15:25:04.70	07/11/12	2	0
2.000	2.181	52000.128	15:25:04.60	07/11/12	2	0
2.000	2.174	51999.710	15:25:04.50	07/11/12	2	0
2.000	2.167	51999.237	15:25:04.40	07/11/12	2	0
2.000	2.160	51998.784	15:25:04.30	07/11/12	2	0
2.000	2.153	51998.340	15:25:04.20	07/11/12	2	0
2.000	2.145	51998.270	15:25:04.10	07/11/12	2	0
2.000	2.138	51998.360	15:25:04.00	07/11/12	2	0
2.000	2.131	51998.370	15:25:03.90	07/11/12	2	0
2.000	2.124	51998.104	15:25:03.80	07/11/12	2	0
2.000	2.117	51997.670	15:25:03.70	07/11/12	2	0
2.000	2.110	51996.986	15:25:03.60	07/11/12	2	0
2.000	2.102	51996.565	15:25:03.50	07/11/12	2	0
2.000	2.095	51996.422	15:25:03.40	07/11/12	2	0
2.000	2.088	51996.469	15:25:03.30	07/11/12	2	0
2.000	2.081	51996.589	15:25:03.20	07/11/12	2	0
2.000	2.074	51997.053	15:25:03.10	07/11/12	2	0
2.000	2.067	51997.447	15:25:03.00	07/11/12	2	0
2.000	2.059	51997.211	15:25:02.90	07/11/12	2	0
2.000	2.052	51996.348	15:25:02.80	07/11/12	2	0
2.000	2.045	51995.722	15:25:02.70	07/11/12	2	0

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2.000	2.038	51995.543	15:25:02.60	07/11/12	2	0
2.000	2.031	51995.585	15:25:02.50	07/11/12	2	0
2.000	2.024	51995.434	15:25:02.40	07/11/12	2	0
2.000	2.016	51995.309	15:25:02.30	07/11/12	2	0
2.000	2.009	51995.366	15:25:02.20	07/11/12	2	0
2.000	2.002	51995.353	15:25:02.10	07/11/12	2	0
2.000	1.995	51995.325	15:25:02.00	07/11/12	2	0
2.000	1.988	51995.514	15:25:01.90	07/11/12	2	0
2.000	1.981	51995.710	15:25:01.80	07/11/12	2	0
2.000	1.973	51996.094	15:25:01.70	07/11/12	2	0
2.000	1.966	51996.353	15:25:01.60	07/11/12	2	0
2.000	1.959	51996.251	15:25:01.50	07/11/12	2	0
2.000	1.952	51995.884	15:25:01.40	07/11/12	2	0
2.000	1.945	51995.610	15:25:01.30	07/11/12	2	0
2.000	1.938	51995.621	15:25:01.20	07/11/12	2	0
2.000	1.931	51995.924	15:25:01.10	07/11/12	2	0
2.000	1.923	51995.993	15:25:01.00	07/11/12	2	0
2.000	1.916	51995.693	15:25:00.90	07/11/12	2	0
2.000	1.909	51995.213	15:25:00.80	07/11/12	2	0
2.000	1.902	51995.004	15:25:00.70	07/11/12	2	0
2.000	1.895	51995.056	15:25:00.60	07/11/12	2	0
2.000	1.888	51995.357	15:25:00.50	07/11/12	2	0
2.000	1.880	51995.387	15:25:00.40	07/11/12	2	0
2.000	1.873	51995.651	15:25:00.30	07/11/12	2	0
2.000	1.866	51995.718	15:25:00.20	07/11/12	2	0
2.000	1.859	51995.858	15:25:00.10	07/11/12	2	0
2.000	1.852	51995.814	15:25:00.00	07/11/12	2	0
2.000	1.845	51995.910	15:24:59.90	07/11/12	2	0
2.000	1.837	51996.343	15:24:59.80	07/11/12	2	0
2.000	1.830	51997.071	15:24:59.70	07/11/12	2	0
2.000	1.823	51997.786	15:24:59.60	07/11/12	2	0
2.000	1.816	51998.323	15:24:59.50	07/11/12	2	0
2.000	1.809	51998.630	15:24:59.40	07/11/12	2	0
2.000	1.802	51998.717	15:24:59.30	07/11/12	2	0
2.000	1.794	51998.647	15:24:59.20	07/11/12	2	0
2.000	1.787	51998.448	15:24:59.10	07/11/12	2	0
2.000	1.780	51998.441	15:24:59.00	07/11/12	2	0
2.000	1.773	51998.969	15:24:58.90	07/11/12	2	0
2.000	1.766	51999.862	15:24:58.80	07/11/12	2	0
2.000	1.759	52000.430	15:24:58.70	07/11/12	2	0
2.000	1.751	52000.518	15:24:58.60	07/11/12	2	0
2.000	1.744	52000.090	15:24:58.50	07/11/12	2	0
2.000	1.737	51999.507	15:24:58.40	07/11/12	2	0
2.000	1.730	51999.174	15:24:58.30	07/11/12	2	0
2.000	1.723	51999.343	15:24:58.20	07/11/12	2	0
2.000	1.716	52000.027	15:24:58.10	07/11/12	2	0
2.000	1.708	52000.654	15:24:58.00	07/11/12	2	0
2.000	1.701	52001.235	15:24:57.90	07/11/12	2	0
2.000	1.694	52001.281	15:24:57.80	07/11/12	2	0
2.000	1.687	52000.750	15:24:57.70	07/11/12	2	0
2.000	1.680	51999.634	15:24:57.60	07/11/12	2	0
2.000	1.673	51998.515	15:24:57.50	07/11/12	2	0
2.000	1.665	51997.505	15:24:57.40	07/11/12	2	0
2.000	1.658	51996.867	15:24:57.30	07/11/12	2	0
2.000	1.651	51996.556	15:24:57.20	07/11/12	2	0
2.000	1.644	51996.656	15:24:57.10	07/11/12	2	0
2.000	1.637	51997.072	15:24:57.00	07/11/12	2	0
2.000	1.630	51997.356	15:24:56.90	07/11/12	2	0
2.000	1.622	51997.204	15:24:56.80	07/11/12	2	0
2.000	1.615	51996.736	15:24:56.70	07/11/12	2	0
2.000	1.608	51996.241	15:24:56.60	07/11/12	2	0
2.000	1.601	51995.675	15:24:56.50	07/11/12	2	0
2.000	1.594	51995.062	15:24:56.40	07/11/12	2	0

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2.000	1.587	51994.679	15:24:56.30	07/11/12	2	0
2.000	1.580	51994.778	15:24:56.20	07/11/12	2	0
2.000	1.572	51995.023	15:24:56.10	07/11/12	2	0
2.000	1.565	51994.975	15:24:56.00	07/11/12	2	0
2.000	1.558	51994.651	15:24:55.90	07/11/12	2	0
2.000	1.551	51994.182	15:24:55.80	07/11/12	2	0
2.000	1.544	51993.717	15:24:55.70	07/11/12	2	0
2.000	1.537	51993.373	15:24:55.60	07/11/12	2	0
2.000	1.529	51993.373	15:24:55.50	07/11/12	2	0
2.000	1.522	51993.596	15:24:55.40	07/11/12	2	0
2.000	1.515	51994.116	15:24:55.30	07/11/12	2	0
2.000	1.508	51994.307	15:24:55.20	07/11/12	2	0
2.000	1.501	51994.509	15:24:55.10	07/11/12	2	0
2.000	1.494	51994.521	15:24:55.00	07/11/12	2	0
2.000	1.486	51994.444	15:24:54.90	07/11/12	2	0
2.000	1.479	51994.129	15:24:54.80	07/11/12	2	0
2.000	1.472	51993.707	15:24:54.70	07/11/12	2	0
2.000	1.465	51993.198	15:24:54.60	07/11/12	2	0
2.000	1.458	51992.736	15:24:54.50	07/11/12	2	0
2.000	1.451	51992.626	15:24:54.40	07/11/12	2	0
2.000	1.443	51992.584	15:24:54.30	07/11/12	2	0
2.000	1.436	51992.618	15:24:54.20	07/11/12	2	0
2.000	1.429	51992.910	15:24:54.10	07/11/12	2	0
2.000	1.422	51993.451	15:24:54.00	07/11/12	2	0
2.000	1.415	51993.846	15:24:53.90	07/11/12	2	0
2.000	1.408	51993.443	15:24:53.80	07/11/12	2	0
2.000	1.400	51992.292	15:24:53.70	07/11/12	2	0
2.000	1.393	51990.929	15:24:53.60	07/11/12	2	0
2.000	1.386	51990.104	15:24:53.50	07/11/12	2	0
2.000	1.379	51990.347	15:24:53.40	07/11/12	2	0
2.000	1.372	51991.685	15:24:53.30	07/11/12	2	0
2.000	1.365	51993.264	15:24:53.20	07/11/12	2	0
2.000	1.357	51994.128	15:24:53.10	07/11/12	2	0
2.000	1.350	51994.290	15:24:53.00	07/11/12	2	0
2.000	1.343	51993.897	15:24:52.90	07/11/12	2	0
2.000	1.336	51992.513	15:24:52.80	07/11/12	2	0
2.000	1.329	51989.915	15:24:52.70	07/11/12	2	0
2.000	1.322	51987.374	15:24:52.60	07/11/12	2	0
2.000	1.314	51986.005	15:24:52.50	07/11/12	2	0
2.000	1.307	51985.844	15:24:52.40	07/11/12	2	0
2.000	1.300	51987.306	15:24:52.30	07/11/12	2	0
2.000	1.293	51988.221	15:24:52.20	07/11/12	2	0
2.000	1.286	51988.622	15:24:52.10	07/11/12	2	0
2.000	1.279	51988.789	15:24:52.00	07/11/12	2	0
2.000	1.271	51988.898	15:24:51.90	07/11/12	2	0
2.000	1.264	51989.023	15:24:51.80	07/11/12	2	0
2.000	1.257	51989.094	15:24:51.70	07/11/12	2	0
2.000	1.250	51988.929	15:24:51.60	07/11/12	2	0
2.000	1.243	51988.739	15:24:51.50	07/11/12	2	0
2.000	1.236	51988.490	15:24:51.40	07/11/12	2	0
2.000	1.229	51988.523	15:24:51.30	07/11/12	2	0
2.000	1.221	51988.759	15:24:51.20	07/11/12	2	0
2.000	1.214	51988.792	15:24:51.10	07/11/12	2	0
2.000	1.207	51988.642	15:24:51.00	07/11/12	2	0
2.000	1.200	51988.324	15:24:50.90	07/11/12	2	0
2.000	1.193	51987.770	15:24:50.80	07/11/12	2	0
2.000	1.186	51987.402	15:24:50.70	07/11/12	2	0
2.000	1.178	51987.066	15:24:50.60	07/11/12	2	0
2.000	1.171	51987.138	15:24:50.50	07/11/12	2	0
2.000	1.164	51987.832	15:24:50.40	07/11/12	2	0
2.000	1.157	51989.108	15:24:50.30	07/11/12	2	0
2.000	1.150	51990.453	15:24:50.20	07/11/12	2	0
2.000	1.143	51990.967	15:24:50.10	07/11/12	2	0

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2.000	1.135	51990.540	15:24:50.00	07/11/12	2	0
2.000	1.128	51989.582	15:24:49.90	07/11/12	2	0
2.000	1.121	51988.498	15:24:49.80	07/11/12	2	0
2.000	1.114	51987.275	15:24:49.70	07/11/12	2	0
2.000	1.107	51986.667	15:24:49.60	07/11/12	2	0
2.000	1.100	51986.728	15:24:49.50	07/11/12	2	0
2.000	1.092	51987.004	15:24:49.40	07/11/12	2	0
2.000	1.085	51987.727	15:24:49.30	07/11/12	2	0
2.000	1.078	51988.471	15:24:49.20	07/11/12	2	0
2.000	1.071	51989.202	15:24:49.10	07/11/12	2	0
2.000	1.064	51989.476	15:24:49.00	07/11/12	2	0
2.000	1.057	51989.544	15:24:48.90	07/11/12	2	0
2.000	1.049	51989.418	15:24:48.80	07/11/12	2	0
2.000	1.042	51988.862	15:24:48.70	07/11/12	2	0
2.000	1.035	51988.108	15:24:48.60	07/11/12	2	0
2.000	1.028	51987.566	15:24:48.50	07/11/12	2	0
2.000	1.021	51987.595	15:24:48.40	07/11/12	2	0
2.000	1.014	51988.181	15:24:48.30	07/11/12	2	0
2.000	1.006	51989.071	15:24:48.20	07/11/12	2	0
2.000	0.999	51989.939	15:24:48.10	07/11/12	2	0
2.000	0.992	51990.233	15:24:48.00	07/11/12	2	0
2.000	0.985	51990.303	15:24:47.90	07/11/12	2	0
2.000	0.978	51990.437	15:24:47.80	07/11/12	2	0
2.000	0.971	51991.061	15:24:47.70	07/11/12	2	0
2.000	0.963	51992.075	15:24:47.60	07/11/12	2	0
2.000	0.956	51992.830	15:24:47.50	07/11/12	2	0
2.000	0.949	51992.882	15:24:47.40	07/11/12	2	0
2.000	0.942	51992.886	15:24:47.30	07/11/12	2	0
2.000	0.935	51993.127	15:24:47.20	07/11/12	2	0
2.000	0.928	51993.453	15:24:47.10	07/11/12	2	0
2.000	0.920	51993.575	15:24:47.00	07/11/12	2	0
2.000	0.913	51993.558	15:24:46.90	07/11/12	2	0
2.000	0.906	51993.666	15:24:46.80	07/11/12	2	0
2.000	0.899	51993.797	15:24:46.70	07/11/12	2	0
2.000	0.892	51993.886	15:24:46.60	07/11/12	2	0
2.000	0.885	51993.944	15:24:46.50	07/11/12	2	0
2.000	0.878	51993.851	15:24:46.40	07/11/12	2	0
2.000	0.870	51993.624	15:24:46.30	07/11/12	2	0
2.000	0.863	51993.443	15:24:46.20	07/11/12	2	0
2.000	0.856	51992.826	15:24:46.10	07/11/12	2	0
2.000	0.849	51992.373	15:24:46.00	07/11/12	2	0
2.000	0.842	51992.046	15:24:45.90	07/11/12	2	0
2.000	0.835	51991.917	15:24:45.80	07/11/12	2	0
2.000	0.827	51991.844	15:24:45.70	07/11/12	2	0
2.000	0.820	51991.745	15:24:45.60	07/11/12	2	0
2.000	0.813	51991.858	15:24:45.50	07/11/12	2	0
2.000	0.806	51991.666	15:24:45.40	07/11/12	2	0
2.000	0.799	51991.614	15:24:45.30	07/11/12	2	0
2.000	0.792	51991.245	15:24:45.20	07/11/12	2	0
2.000	0.784	51990.764	15:24:45.10	07/11/12	2	0
2.000	0.777	51990.100	15:24:45.00	07/11/12	2	0
2.000	0.770	51989.553	15:24:44.90	07/11/12	2	0
2.000	0.763	51989.307	15:24:44.80	07/11/12	2	0
2.000	0.756	51989.750	15:24:44.70	07/11/12	2	0
2.000	0.749	51990.617	15:24:44.60	07/11/12	2	0
2.000	0.741	51991.448	15:24:44.50	07/11/12	2	0
2.000	0.734	51991.869	15:24:44.40	07/11/12	2	0
2.000	0.727	51991.920	15:24:44.30	07/11/12	2	0
2.000	0.720	51992.160	15:24:44.20	07/11/12	2	0
2.000	0.713	51992.028	15:24:44.10	07/11/12	2	0
2.000	0.706	51991.653	15:24:44.00	07/11/12	2	0
2.000	0.698	51990.769	15:24:43.90	07/11/12	2	0
2.000	0.691	51989.992	15:24:43.80	07/11/12	2	0

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2.000	0.684	51989.736	15:24:43.70	07/11/12	2	0
2.000	0.677	51990.363	15:24:43.60	07/11/12	2	0
2.000	0.670	51991.745	15:24:43.50	07/11/12	2	0
2.000	0.663	51993.297	15:24:43.40	07/11/12	2	0
2.000	0.655	51994.158	15:24:43.30	07/11/12	2	0
2.000	0.648	51993.391	15:24:43.20	07/11/12	2	0
2.000	0.641	51991.486	15:24:43.10	07/11/12	2	0
2.000	0.634	51990.389	15:24:43.00	07/11/12	2	0
2.000	0.627	51990.746	15:24:42.90	07/11/12	2	0
2.000	0.620	51990.962	15:24:42.80	07/11/12	2	0
2.000	0.612	51990.311	15:24:42.70	07/11/12	2	0
2.000	0.605	51989.552	15:24:42.60	07/11/12	2	0
2.000	0.598	51989.104	15:24:42.50	07/11/12	2	0
2.000	0.591	51989.132	15:24:42.40	07/11/12	2	0
2.000	0.584	51989.563	15:24:42.30	07/11/12	2	0
2.000	0.577	51990.075	15:24:42.20	07/11/12	2	0
2.000	0.569	51990.495	15:24:42.10	07/11/12	2	0
2.000	0.562	51990.734	15:24:42.00	07/11/12	2	0
2.000	0.555	51990.585	15:24:41.90	07/11/12	2	0
2.000	0.548	51990.082	15:24:41.80	07/11/12	2	0
2.000	0.541	51989.298	15:24:41.70	07/11/12	2	0
2.000	0.534	51988.500	15:24:41.60	07/11/12	2	0
2.000	0.527	51987.962	15:24:41.50	07/11/12	2	0
2.000	0.519	51987.719	15:24:41.40	07/11/12	2	0
2.000	0.512	51987.572	15:24:41.30	07/11/12	2	0
2.000	0.505	51987.566	15:24:41.20	07/11/12	2	0
2.000	0.498	51987.604	15:24:41.10	07/11/12	2	0
2.000	0.491	51987.085	15:24:41.00	07/11/12	2	0
2.000	0.484	51986.703	15:24:40.90	07/11/12	2	0
2.000	0.476	51986.455	15:24:40.80	07/11/12	2	0
2.000	0.469	51986.537	15:24:40.70	07/11/12	2	0
2.000	0.462	51986.693	15:24:40.60	07/11/12	2	0
2.000	0.455	51986.820	15:24:40.50	07/11/12	2	0
2.000	0.448	51986.574	15:24:40.40	07/11/12	2	0
2.000	0.441	51986.532	15:24:40.30	07/11/12	2	0
2.000	0.433	51986.596	15:24:40.20	07/11/12	2	0
2.000	0.426	51986.820	15:24:40.10	07/11/12	2	0
2.000	0.419	51986.901	15:24:40.00	07/11/12	2	0
2.000	0.412	51987.004	15:24:39.90	07/11/12	2	0
2.000	0.405	51987.173	15:24:39.80	07/11/12	2	0
2.000	0.398	51987.165	15:24:39.70	07/11/12	2	0
2.000	0.390	51987.094	15:24:39.60	07/11/12	2	0
2.000	0.383	51986.996	15:24:39.50	07/11/12	2	0
2.000	0.376	51986.918	15:24:39.40	07/11/12	2	0
2.000	0.369	51986.967	15:24:39.30	07/11/12	2	0
2.000	0.362	51987.209	15:24:39.20	07/11/12	2	0
2.000	0.355	51987.433	15:24:39.10	07/11/12	2	0
2.000	0.347	51987.171	15:24:39.00	07/11/12	2	0
2.000	0.340	51986.759	15:24:38.90	07/11/12	2	0
2.000	0.333	51986.455	15:24:38.80	07/11/12	2	0
2.000	0.326	51986.476	15:24:38.70	07/11/12	2	0
2.000	0.319	51986.972	15:24:38.60	07/11/12	2	0
2.000	0.312	51987.275	15:24:38.50	07/11/12	2	0
2.000	0.304	51987.365	15:24:38.40	07/11/12	2	0
2.000	0.297	51987.085	15:24:38.30	07/11/12	2	0
2.000	0.290	51986.793	15:24:38.20	07/11/12	2	0
2.000	0.283	51986.829	15:24:38.10	07/11/12	2	0
2.000	0.276	51987.208	15:24:38.00	07/11/12	2	0
2.000	0.269	51987.617	15:24:37.90	07/11/12	2	0
2.000	0.261	51987.778	15:24:37.80	07/11/12	2	0
2.000	0.254	51987.754	15:24:37.70	07/11/12	2	0
2.000	0.247	51987.575	15:24:37.60	07/11/12	2	0
2.000	0.240	51987.259	15:24:37.50	07/11/12	2	0

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2.000	0.233	51986.739	15:24:37.40	07/11/12	2	0
2.000	0.226	51986.402	15:24:37.30	07/11/12	2	0
2.000	0.218	51986.335	15:24:37.20	07/11/12	2	0
2.000	0.211	51986.444	15:24:37.10	07/11/12	2	0
2.000	0.204	51986.635	15:24:37.00	07/11/12	2	0
2.000	0.197	51986.680	15:24:36.90	07/11/12	2	0
2.000	0.190	51986.620	15:24:36.80	07/11/12	2	0
2.000	0.183	51986.216	15:24:36.70	07/11/12	2	0
2.000	0.176	51985.933	15:24:36.60	07/11/12	2	0
2.000	0.168	51985.957	15:24:36.50	07/11/12	2	0
2.000	0.161	51986.053	15:24:36.40	07/11/12	2	0
2.000	0.154	51985.982	15:24:36.30	07/11/12	2	0
2.000	0.147	51986.127	15:24:36.20	07/11/12	2	0
2.000	0.140	51986.301	15:24:36.10	07/11/12	2	0
2.000	0.133	51986.673	15:24:36.00	07/11/12	2	0
2.000	0.125	51986.761	15:24:35.90	07/11/12	2	0
2.000	0.118	51986.716	15:24:35.80	07/11/12	2	0
2.000	0.111	51986.667	15:24:35.70	07/11/12	2	0
2.000	0.104	51986.717	15:24:35.60	07/11/12	2	0
2.000	0.097	51986.242	15:24:35.50	07/11/12	2	0
2.000	0.090	51985.471	15:24:35.40	07/11/12	2	0
2.000	0.082	51985.022	15:24:35.30	07/11/12	2	0
2.000	0.075	51985.316	15:24:35.20	07/11/12	2	0
2.000	0.068	51986.011	15:24:35.10	07/11/12	2	0
2.000	0.061	51986.112	15:24:35.00	07/11/12	2	0
2.000	0.054	51984.984	15:24:34.90	07/11/12	2	0
2.000	0.047	51983.880	15:24:34.80	07/11/12	2	0
2.000	0.039	51984.129	15:24:34.70	07/11/12	2	0
2.000	0.032	51985.131	15:24:34.60	07/11/12	2	0
2.000	0.025	51985.627	15:24:34.50	07/11/12	2	0
2.000	0.018	51985.613	15:24:34.40	07/11/12	2	0
2.000	0.011	51985.509	15:24:34.30	07/11/12	2	0
2.000	0.004	51984.984	15:24:34.20	07/11/12	2	0
LINE 1						
1.000	0.005	52354.367	15:24:02.70	07/11/12	1	0
1.000	0.014	52354.263	15:24:02.60	07/11/12	1	0
1.000	0.023	52354.348	15:24:02.50	07/11/12	1	0
1.000	0.032	52354.602	15:24:02.40	07/11/12	1	0
1.000	0.042	52354.936	15:24:02.30	07/11/12	1	0
1.000	0.051	52355.327	15:24:02.20	07/11/12	1	0
1.000	0.060	52355.653	15:24:02.10	07/11/12	1	0
1.000	0.069	52355.914	15:24:02.00	07/11/12	1	0
1.000	0.078	52355.971	15:24:01.90	07/11/12	1	0
1.000	0.088	52355.870	15:24:01.80	07/11/12	1	0
1.000	0.097	52355.714	15:24:01.70	07/11/12	1	0
1.000	0.106	52355.475	15:24:01.60	07/11/12	1	0
1.000	0.115	52355.298	15:24:01.50	07/11/12	1	0
1.000	0.125	52355.400	15:24:01.40	07/11/12	1	0
1.000	0.134	52355.745	15:24:01.30	07/11/12	1	0
1.000	0.143	52356.158	15:24:01.20	07/11/12	1	0
1.000	0.152	52356.437	15:24:01.10	07/11/12	1	0
1.000	0.161	52356.568	15:24:01.00	07/11/12	1	0
1.000	0.171	52356.370	15:24:00.90	07/11/12	1	0
1.000	0.180	52356.146	15:24:00.80	07/11/12	1	0
1.000	0.189	52356.053	15:24:00.70	07/11/12	1	0
1.000	0.198	52355.996	15:24:00.60	07/11/12	1	0
1.000	0.208	52355.912	15:24:00.50	07/11/12	1	0
1.000	0.217	52355.817	15:24:00.40	07/11/12	1	0
1.000	0.226	52355.900	15:24:00.30	07/11/12	1	0
1.000	0.235	52355.980	15:24:00.20	07/11/12	1	0
1.000	0.244	52356.122	15:24:00.10	07/11/12	1	0
1.000	0.254	52356.211	15:24:00.00	07/11/12	1	0
1.000	0.263	52356.239	15:23:59.90	07/11/12	1	0

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1.000	0.272	52356.146	15:23:59.80	07/11/12	1	0
1.000	0.281	52356.047	15:23:59.70	07/11/12	1	0
1.000	0.291	52356.067	15:23:59.60	07/11/12	1	0
1.000	0.300	52356.111	15:23:59.50	07/11/12	1	0
1.000	0.309	52356.263	15:23:59.40	07/11/12	1	0
1.000	0.318	52356.507	15:23:59.30	07/11/12	1	0
1.000	0.327	52356.687	15:23:59.20	07/11/12	1	0
1.000	0.337	52356.752	15:23:59.10	07/11/12	1	0
1.000	0.346	52356.685	15:23:59.00	07/11/12	1	0
1.000	0.355	52356.519	15:23:58.90	07/11/12	1	0
1.000	0.364	52356.366	15:23:58.80	07/11/12	1	0
1.000	0.374	52356.470	15:23:58.70	07/11/12	1	0
1.000	0.383	52356.558	15:23:58.60	07/11/12	1	0
1.000	0.392	52356.697	15:23:58.50	07/11/12	1	0
1.000	0.401	52356.853	15:23:58.40	07/11/12	1	0
1.000	0.411	52356.828	15:23:58.30	07/11/12	1	0
1.000	0.420	52356.752	15:23:58.20	07/11/12	1	0
1.000	0.429	52356.746	15:23:58.10	07/11/12	1	0
1.000	0.438	52356.573	15:23:58.00	07/11/12	1	0
1.000	0.447	52356.715	15:23:57.90	07/11/12	1	0
1.000	0.457	52356.810	15:23:57.80	07/11/12	1	0
1.000	0.466	52356.947	15:23:57.70	07/11/12	1	0
1.000	0.475	52357.019	15:23:57.60	07/11/12	1	0
1.000	0.484	52356.924	15:23:57.50	07/11/12	1	0
1.000	0.494	52356.680	15:23:57.40	07/11/12	1	0
1.000	0.503	52356.519	15:23:57.30	07/11/12	1	0
1.000	0.512	52356.479	15:23:57.20	07/11/12	1	0
1.000	0.521	52356.681	15:23:57.10	07/11/12	1	0
1.000	0.530	52356.841	15:23:57.00	07/11/12	1	0
1.000	0.540	52356.995	15:23:56.90	07/11/12	1	0
1.000	0.549	52356.983	15:23:56.80	07/11/12	1	0
1.000	0.558	52356.834	15:23:56.70	07/11/12	1	0
1.000	0.567	52356.676	15:23:56.60	07/11/12	1	0
1.000	0.577	52356.614	15:23:56.50	07/11/12	1	0
1.000	0.586	52356.804	15:23:56.40	07/11/12	1	0
1.000	0.595	52357.055	15:23:56.30	07/11/12	1	0
1.000	0.604	52357.227	15:23:56.20	07/11/12	1	0
1.000	0.613	52357.292	15:23:56.10	07/11/12	1	0
1.000	0.623	52357.251	15:23:56.00	07/11/12	1	0
1.000	0.632	52357.173	15:23:55.90	07/11/12	1	0
1.000	0.641	52357.209	15:23:55.80	07/11/12	1	0
1.000	0.650	52357.287	15:23:55.70	07/11/12	1	0
1.000	0.660	52357.422	15:23:55.60	07/11/12	1	0
1.000	0.669	52357.678	15:23:55.50	07/11/12	1	0
1.000	0.678	52357.715	15:23:55.40	07/11/12	1	0
1.000	0.687	52357.810	15:23:55.30	07/11/12	1	0
1.000	0.696	52357.601	15:23:55.20	07/11/12	1	0
1.000	0.706	52357.530	15:23:55.10	07/11/12	1	0
1.000	0.715	52357.476	15:23:55.00	07/11/12	1	0
1.000	0.724	52357.584	15:23:54.90	07/11/12	1	0
1.000	0.733	52357.680	15:23:54.80	07/11/12	1	0
1.000	0.743	52357.978	15:23:54.70	07/11/12	1	0
1.000	0.752	52358.350	15:23:54.60	07/11/12	1	0
1.000	0.761	52358.456	15:23:54.50	07/11/12	1	0
1.000	0.770	52358.149	15:23:54.40	07/11/12	1	0
1.000	0.780	52357.974	15:23:54.30	07/11/12	1	0
1.000	0.789	52357.995	15:23:54.20	07/11/12	1	0
1.000	0.798	52357.963	15:23:54.10	07/11/12	1	0
1.000	0.807	52357.744	15:23:54.00	07/11/12	1	0
1.000	0.816	52357.626	15:23:53.90	07/11/12	1	0
1.000	0.826	52357.334	15:23:53.80	07/11/12	1	0
1.000	0.835	52357.025	15:23:53.70	07/11/12	1	0
1.000	0.844	52357.368	15:23:53.60	07/11/12	1	0

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1.000	0.853	52358.278	15:23:53.50	07/11/12	1	0
1.000	0.863	52359.090	15:23:53.40	07/11/12	1	0
1.000	0.872	52359.245	15:23:53.30	07/11/12	1	0
1.000	0.881	52358.990	15:23:53.20	07/11/12	1	0
1.000	0.890	52358.859	15:23:53.10	07/11/12	1	0
1.000	0.899	52358.646	15:23:53.00	07/11/12	1	0
1.000	0.909	52358.846	15:23:52.90	07/11/12	1	0
1.000	0.918	52359.138	15:23:52.80	07/11/12	1	0
1.000	0.927	52359.265	15:23:52.70	07/11/12	1	0
1.000	0.936	52359.167	15:23:52.60	07/11/12	1	0
1.000	0.946	52358.865	15:23:52.50	07/11/12	1	0
1.000	0.955	52358.762	15:23:52.40	07/11/12	1	0
1.000	0.964	52358.679	15:23:52.30	07/11/12	1	0
1.000	0.973	52358.663	15:23:52.20	07/11/12	1	0
1.000	0.982	52358.800	15:23:52.10	07/11/12	1	0
1.000	0.992	52358.907	15:23:52.00	07/11/12	1	0
1.000	1.001	52358.835	15:23:51.90	07/11/12	1	0
1.000	1.010	52358.688	15:23:51.80	07/11/12	1	0
1.000	1.019	52358.639	15:23:51.70	07/11/12	1	0
1.000	1.029	52358.662	15:23:51.60	07/11/12	1	0
1.000	1.038	52358.616	15:23:51.50	07/11/12	1	0
1.000	1.047	52358.644	15:23:51.40	07/11/12	1	0
1.000	1.056	52358.521	15:23:51.30	07/11/12	1	0
1.000	1.065	52358.483	15:23:51.20	07/11/12	1	0
1.000	1.075	52358.319	15:23:51.10	07/11/12	1	0
1.000	1.084	52358.224	15:23:51.00	07/11/12	1	0
1.000	1.093	52357.791	15:23:50.90	07/11/12	1	0
1.000	1.102	52357.453	15:23:50.80	07/11/12	1	0
1.000	1.112	52357.358	15:23:50.70	07/11/12	1	0
1.000	1.121	52357.333	15:23:50.60	07/11/12	1	0
1.000	1.130	52357.250	15:23:50.50	07/11/12	1	0
1.000	1.139	52357.263	15:23:50.40	07/11/12	1	0
1.000	1.149	52357.263	15:23:50.30	07/11/12	1	0
1.000	1.158	52357.203	15:23:50.20	07/11/12	1	0
1.000	1.167	52356.930	15:23:50.10	07/11/12	1	0
1.000	1.176	52356.645	15:23:50.00	07/11/12	1	0
1.000	1.185	52356.477	15:23:49.90	07/11/12	1	0
1.000	1.195	52356.275	15:23:49.80	07/11/12	1	0
1.000	1.204	52356.226	15:23:49.70	07/11/12	1	0
1.000	1.213	52356.179	15:23:49.60	07/11/12	1	0
1.000	1.222	52355.944	15:23:49.50	07/11/12	1	0
1.000	1.232	52355.721	15:23:49.40	07/11/12	1	0
1.000	1.241	52355.602	15:23:49.30	07/11/12	1	0
1.000	1.250	52355.743	15:23:49.20	07/11/12	1	0
1.000	1.259	52355.855	15:23:49.10	07/11/12	1	0
1.000	1.268	52356.004	15:23:49.00	07/11/12	1	0
1.000	1.278	52356.025	15:23:48.90	07/11/12	1	0
1.000	1.287	52356.066	15:23:48.80	07/11/12	1	0
1.000	1.296	52355.916	15:23:48.70	07/11/12	1	0
1.000	1.305	52355.913	15:23:48.60	07/11/12	1	0
1.000	1.315	52355.903	15:23:48.50	07/11/12	1	0
1.000	1.324	52356.001	15:23:48.40	07/11/12	1	0
1.000	1.333	52355.959	15:23:48.30	07/11/12	1	0
1.000	1.342	52355.944	15:23:48.20	07/11/12	1	0
1.000	1.351	52355.962	15:23:48.10	07/11/12	1	0
1.000	1.361	52355.844	15:23:48.00	07/11/12	1	0
1.000	1.370	52355.769	15:23:47.90	07/11/12	1	0
1.000	1.379	52355.548	15:23:47.80	07/11/12	1	0
1.000	1.388	52355.279	15:23:47.70	07/11/12	1	0
1.000	1.398	52355.185	15:23:47.60	07/11/12	1	0
1.000	1.407	52355.143	15:23:47.50	07/11/12	1	0
1.000	1.416	52355.257	15:23:47.40	07/11/12	1	0
1.000	1.425	52355.334	15:23:47.30	07/11/12	1	0

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1.000	1.435	52355.386	15:23:47.20	07/11/12	1	0
1.000	1.444	52355.291	15:23:47.10	07/11/12	1	0
1.000	1.453	52355.268	15:23:47.00	07/11/12	1	0
1.000	1.462	52355.251	15:23:46.90	07/11/12	1	0
1.000	1.471	52355.364	15:23:46.80	07/11/12	1	0
1.000	1.481	52355.374	15:23:46.70	07/11/12	1	0
1.000	1.490	52355.120	15:23:46.60	07/11/12	1	0
1.000	1.499	52355.053	15:23:46.50	07/11/12	1	0
1.000	1.508	52355.150	15:23:46.40	07/11/12	1	0
1.000	1.518	52355.155	15:23:46.30	07/11/12	1	0
1.000	1.527	52355.078	15:23:46.20	07/11/12	1	0
1.000	1.536	52355.018	15:23:46.10	07/11/12	1	0
1.000	1.545	52355.060	15:23:46.00	07/11/12	1	0
1.000	1.554	52355.043	15:23:45.90	07/11/12	1	0
1.000	1.564	52354.941	15:23:45.80	07/11/12	1	0
1.000	1.573	52354.760	15:23:45.70	07/11/12	1	0
1.000	1.582	52354.682	15:23:45.60	07/11/12	1	0
1.000	1.591	52354.697	15:23:45.50	07/11/12	1	0
1.000	1.601	52354.751	15:23:45.40	07/11/12	1	0
1.000	1.610	52354.851	15:23:45.30	07/11/12	1	0
1.000	1.619	52354.970	15:23:45.20	07/11/12	1	0
1.000	1.628	52354.964	15:23:45.10	07/11/12	1	0
1.000	1.637	52354.810	15:23:45.00	07/11/12	1	0
1.000	1.647	52354.710	15:23:44.90	07/11/12	1	0
1.000	1.656	52354.811	15:23:44.80	07/11/12	1	0
1.000	1.665	52354.922	15:23:44.70	07/11/12	1	0
1.000	1.674	52355.043	15:23:44.60	07/11/12	1	0
1.000	1.684	52355.053	15:23:44.50	07/11/12	1	0
1.000	1.693	52355.048	15:23:44.40	07/11/12	1	0
1.000	1.702	52354.786	15:23:44.30	07/11/12	1	0
1.000	1.711	52354.597	15:23:44.20	07/11/12	1	0
1.000	1.720	52354.614	15:23:44.10	07/11/12	1	0
1.000	1.730	52354.620	15:23:44.00	07/11/12	1	0
1.000	1.739	52354.590	15:23:43.90	07/11/12	1	0
1.000	1.748	52354.656	15:23:43.80	07/11/12	1	0
1.000	1.757	52354.666	15:23:43.70	07/11/12	1	0
1.000	1.767	52354.594	15:23:43.60	07/11/12	1	0
1.000	1.776	52354.579	15:23:43.50	07/11/12	1	0
1.000	1.785	52354.584	15:23:43.40	07/11/12	1	0
1.000	1.794	52354.649	15:23:43.30	07/11/12	1	0
1.000	1.804	52354.756	15:23:43.20	07/11/12	1	0
1.000	1.813	52354.844	15:23:43.10	07/11/12	1	0
1.000	1.822	52354.983	15:23:43.00	07/11/12	1	0
1.000	1.831	52354.995	15:23:42.90	07/11/12	1	0
1.000	1.840	52354.905	15:23:42.80	07/11/12	1	0
1.000	1.850	52354.666	15:23:42.70	07/11/12	1	0
1.000	1.859	52354.488	15:23:42.60	07/11/12	1	0
1.000	1.868	52354.288	15:23:42.50	07/11/12	1	0
1.000	1.877	52354.405	15:23:42.40	07/11/12	1	0
1.000	1.887	52354.596	15:23:42.30	07/11/12	1	0
1.000	1.896	52354.798	15:23:42.20	07/11/12	1	0
1.000	1.905	52354.911	15:23:42.10	07/11/12	1	0
1.000	1.914	52354.804	15:23:42.00	07/11/12	1	0
1.000	1.923	52354.572	15:23:41.90	07/11/12	1	0
1.000	1.933	52354.298	15:23:41.80	07/11/12	1	0
1.000	1.942	52354.123	15:23:41.70	07/11/12	1	0
1.000	1.951	52354.174	15:23:41.60	07/11/12	1	0
1.000	1.960	52354.092	15:23:41.50	07/11/12	1	0
1.000	1.970	52354.109	15:23:41.40	07/11/12	1	0
1.000	1.979	52354.013	15:23:41.30	07/11/12	1	0
1.000	1.988	52353.854	15:23:41.20	07/11/12	1	0
1.000	1.997	52353.629	15:23:41.10	07/11/12	1	0
1.000	2.006	52353.439	15:23:41.00	07/11/12	1	0

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1.000	2.016	52353.459	15:23:40.90	07/11/12	1	0
1.000	2.025	52353.531	15:23:40.80	07/11/12	1	0
1.000	2.034	52353.504	15:23:40.70	07/11/12	1	0
1.000	2.043	52353.393	15:23:40.60	07/11/12	1	0
1.000	2.053	52353.362	15:23:40.50	07/11/12	1	0
1.000	2.062	52353.321	15:23:40.40	07/11/12	1	0
1.000	2.071	52353.250	15:23:40.30	07/11/12	1	0
1.000	2.080	52353.088	15:23:40.20	07/11/12	1	0
1.000	2.089	52352.798	15:23:40.10	07/11/12	1	0
1.000	2.099	52352.513	15:23:40.00	07/11/12	1	0
1.000	2.108	52352.339	15:23:39.90	07/11/12	1	0
1.000	2.117	52352.210	15:23:39.80	07/11/12	1	0
1.000	2.126	52352.158	15:23:39.70	07/11/12	1	0
1.000	2.136	52352.257	15:23:39.60	07/11/12	1	0
1.000	2.145	52352.221	15:23:39.50	07/11/12	1	0
1.000	2.154	52352.458	15:23:39.40	07/11/12	1	0
1.000	2.163	52352.530	15:23:39.30	07/11/12	1	0
1.000	2.173	52352.560	15:23:39.20	07/11/12	1	0
1.000	2.182	52352.536	15:23:39.10	07/11/12	1	0
1.000	2.191	52352.376	15:23:39.00	07/11/12	1	0
1.000	2.200	52352.008	15:23:38.90	07/11/12	1	0
1.000	2.209	52351.663	15:23:38.80	07/11/12	1	0
1.000	2.219	52351.420	15:23:38.70	07/11/12	1	0
1.000	2.228	52351.262	15:23:38.60	07/11/12	1	0
1.000	2.237	52351.033	15:23:38.50	07/11/12	1	0
1.000	2.246	52350.904	15:23:38.40	07/11/12	1	0
1.000	2.256	52350.968	15:23:38.30	07/11/12	1	0
1.000	2.265	52351.396	15:23:38.20	07/11/12	1	0
1.000	2.274	52351.793	15:23:38.10	07/11/12	1	0
1.000	2.283	52352.072	15:23:38.00	07/11/12	1	0
1.000	2.292	52352.423	15:23:37.90	07/11/12	1	0
1.000	2.302	52352.496	15:23:37.80	07/11/12	1	0
1.000	2.311	52352.336	15:23:37.70	07/11/12	1	0
1.000	2.320	52351.895	15:23:37.60	07/11/12	1	0
1.000	2.329	52351.331	15:23:37.50	07/11/12	1	0
1.000	2.339	52350.982	15:23:37.40	07/11/12	1	0
1.000	2.348	52350.511	15:23:37.30	07/11/12	1	0
1.000	2.357	52349.751	15:23:37.20	07/11/12	1	0
1.000	2.366	52348.781	15:23:37.10	07/11/12	1	0
1.000	2.375	52347.972	15:23:37.00	07/11/12	1	0
1.000	2.385	52347.651	15:23:36.90	07/11/12	1	0
1.000	2.394	52347.466	15:23:36.80	07/11/12	1	0
1.000	2.403	52347.919	15:23:36.70	07/11/12	1	0
1.000	2.412	52348.869	15:23:36.60	07/11/12	1	0
1.000	2.422	52350.458	15:23:36.50	07/11/12	1	0
1.000	2.431	52352.398	15:23:36.40	07/11/12	1	0
1.000	2.440	52353.619	15:23:36.30	07/11/12	1	0
1.000	2.449	52353.477	15:23:36.20	07/11/12	1	0
1.000	2.458	52352.240	15:23:36.10	07/11/12	1	0
1.000	2.468	52350.528	15:23:36.00	07/11/12	1	0
1.000	2.477	52349.170	15:23:35.90	07/11/12	1	0
1.000	2.486	52348.677	15:23:35.80	07/11/12	1	0
1.000	2.495	52348.814	15:23:35.70	07/11/12	1	0
LINE 0						
0.000	2.495	52468.667	15:22:59.90	07/11/12	0	0
0.000	2.486	52468.704	15:22:59.80	07/11/12	0	0
0.000	2.476	52468.780	15:22:59.70	07/11/12	0	0
0.000	2.466	52468.886	15:22:59.60	07/11/12	0	0
0.000	2.457	52468.874	15:22:59.50	07/11/12	0	0
0.000	2.447	52468.799	15:22:59.40	07/11/12	0	0
0.000	2.438	52468.644	15:22:59.30	07/11/12	0	0
0.000	2.428	52468.481	15:22:59.20	07/11/12	0	0
0.000	2.419	52468.299	15:22:59.10	07/11/12	0	0

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0.000	2.409	52468.175	15:22:59.00	07/11/12	0	0
0.000	2.399	52468.393	15:22:58.90	07/11/12	0	0
0.000	2.390	52468.560	15:22:58.80	07/11/12	0	0
0.000	2.380	52468.458	15:22:58.70	07/11/12	0	0
0.000	2.371	52468.054	15:22:58.60	07/11/12	0	0
0.000	2.361	52467.732	15:22:58.50	07/11/12	0	0
0.000	2.352	52467.761	15:22:58.40	07/11/12	0	0
0.000	2.342	52467.833	15:22:58.30	07/11/12	0	0
0.000	2.332	52467.923	15:22:58.20	07/11/12	0	0
0.000	2.323	52468.097	15:22:58.10	07/11/12	0	0
0.000	2.313	52468.246	15:22:58.00	07/11/12	0	0
0.000	2.304	52468.394	15:22:57.90	07/11/12	0	0
0.000	2.294	52468.569	15:22:57.80	07/11/12	0	0
0.000	2.284	52468.851	15:22:57.70	07/11/12	0	0
0.000	2.275	52469.017	15:22:57.60	07/11/12	0	0
0.000	2.265	52469.172	15:22:57.50	07/11/12	0	0
0.000	2.256	52469.335	15:22:57.40	07/11/12	0	0
0.000	2.246	52469.335	15:22:57.30	07/11/12	0	0
0.000	2.237	52469.362	15:22:57.20	07/11/12	0	0
0.000	2.227	52469.350	15:22:57.10	07/11/12	0	0
0.000	2.217	52469.277	15:22:57.00	07/11/12	0	0
0.000	2.208	52469.384	15:22:56.90	07/11/12	0	0
0.000	2.198	52469.634	15:22:56.80	07/11/12	0	0
0.000	2.189	52469.898	15:22:56.70	07/11/12	0	0
0.000	2.179	52470.052	15:22:56.60	07/11/12	0	0
0.000	2.170	52470.112	15:22:56.50	07/11/12	0	0
0.000	2.160	52470.088	15:22:56.40	07/11/12	0	0
0.000	2.150	52469.967	15:22:56.30	07/11/12	0	0
0.000	2.141	52469.838	15:22:56.20	07/11/12	0	0
0.000	2.131	52469.911	15:22:56.10	07/11/12	0	0
0.000	2.122	52470.120	15:22:56.00	07/11/12	0	0
0.000	2.112	52470.242	15:22:55.90	07/11/12	0	0
0.000	2.102	52470.409	15:22:55.80	07/11/12	0	0
0.000	2.093	52470.446	15:22:55.70	07/11/12	0	0
0.000	2.083	52470.457	15:22:55.60	07/11/12	0	0
0.000	2.074	52470.338	15:22:55.50	07/11/12	0	0
0.000	2.064	52470.279	15:22:55.40	07/11/12	0	0
0.000	2.055	52470.278	15:22:55.30	07/11/12	0	0
0.000	2.045	52470.254	15:22:55.20	07/11/12	0	0
0.000	2.035	52470.233	15:22:55.10	07/11/12	0	0
0.000	2.026	52470.203	15:22:55.00	07/11/12	0	0
0.000	2.016	52470.242	15:22:54.90	07/11/12	0	0
0.000	2.007	52470.207	15:22:54.80	07/11/12	0	0
0.000	1.997	52470.148	15:22:54.70	07/11/12	0	0
0.000	1.988	52469.982	15:22:54.60	07/11/12	0	0
0.000	1.978	52469.885	15:22:54.50	07/11/12	0	0
0.000	1.968	52469.777	15:22:54.40	07/11/12	0	0
0.000	1.959	52469.896	15:22:54.30	07/11/12	0	0
0.000	1.949	52469.791	15:22:54.20	07/11/12	0	0
0.000	1.940	52469.886	15:22:54.10	07/11/12	0	0
0.000	1.930	52469.917	15:22:54.00	07/11/12	0	0
0.000	1.920	52469.861	15:22:53.90	07/11/12	0	0
0.000	1.911	52469.777	15:22:53.80	07/11/12	0	0
0.000	1.901	52469.661	15:22:53.70	07/11/12	0	0
0.000	1.892	52469.540	15:22:53.60	07/11/12	0	0
0.000	1.882	52469.529	15:22:53.50	07/11/12	0	0
0.000	1.873	52469.622	15:22:53.40	07/11/12	0	0
0.000	1.863	52469.693	15:22:53.30	07/11/12	0	0
0.000	1.853	52469.718	15:22:53.20	07/11/12	0	0
0.000	1.844	52469.661	15:22:53.10	07/11/12	0	0
0.000	1.834	52469.550	15:22:53.00	07/11/12	0	0
0.000	1.825	52469.574	15:22:52.90	07/11/12	0	0
0.000	1.815	52469.610	15:22:52.80	07/11/12	0	0

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0.000	1.806	52469.624	15:22:52.70	07/11/12	0	0
0.000	1.796	52469.589	15:22:52.60	07/11/12	0	0
0.000	1.786	52469.552	15:22:52.50	07/11/12	0	0
0.000	1.777	52469.431	15:22:52.40	07/11/12	0	0
0.000	1.767	52469.406	15:22:52.30	07/11/12	0	0
0.000	1.758	52469.397	15:22:52.20	07/11/12	0	0
0.000	1.748	52469.482	15:22:52.10	07/11/12	0	0
0.000	1.739	52469.716	15:22:52.00	07/11/12	0	0
0.000	1.729	52469.909	15:22:51.90	07/11/12	0	0
0.000	1.719	52470.016	15:22:51.80	07/11/12	0	0
0.000	1.710	52470.029	15:22:51.70	07/11/12	0	0
0.000	1.700	52469.910	15:22:51.60	07/11/12	0	0
0.000	1.691	52469.958	15:22:51.50	07/11/12	0	0
0.000	1.681	52470.027	15:22:51.40	07/11/12	0	0
0.000	1.671	52470.159	15:22:51.30	07/11/12	0	0
0.000	1.662	52470.408	15:22:51.20	07/11/12	0	0
0.000	1.652	52470.401	15:22:51.10	07/11/12	0	0
0.000	1.643	52470.368	15:22:51.00	07/11/12	0	0
0.000	1.633	52470.326	15:22:50.90	07/11/12	0	0
0.000	1.624	52470.302	15:22:50.80	07/11/12	0	0
0.000	1.614	52470.326	15:22:50.70	07/11/12	0	0
0.000	1.604	52470.410	15:22:50.60	07/11/12	0	0
0.000	1.595	52470.373	15:22:50.50	07/11/12	0	0
0.000	1.585	52470.457	15:22:50.40	07/11/12	0	0
0.000	1.576	52470.538	15:22:50.30	07/11/12	0	0
0.000	1.566	52470.634	15:22:50.20	07/11/12	0	0
0.000	1.557	52470.701	15:22:50.10	07/11/12	0	0
0.000	1.547	52470.654	15:22:50.00	07/11/12	0	0
0.000	1.537	52470.636	15:22:49.90	07/11/12	0	0
0.000	1.528	52470.720	15:22:49.80	07/11/12	0	0
0.000	1.518	52470.778	15:22:49.70	07/11/12	0	0
0.000	1.509	52470.838	15:22:49.60	07/11/12	0	0
0.000	1.499	52470.862	15:22:49.50	07/11/12	0	0
0.000	1.489	52470.901	15:22:49.40	07/11/12	0	0
0.000	1.480	52470.991	15:22:49.30	07/11/12	0	0
0.000	1.470	52471.134	15:22:49.20	07/11/12	0	0
0.000	1.461	52471.252	15:22:49.10	07/11/12	0	0
0.000	1.451	52471.278	15:22:49.00	07/11/12	0	0
0.000	1.442	52471.316	15:22:48.90	07/11/12	0	0
0.000	1.432	52471.269	15:22:48.80	07/11/12	0	0
0.000	1.422	52471.183	15:22:48.70	07/11/12	0	0
0.000	1.413	52471.219	15:22:48.60	07/11/12	0	0
0.000	1.403	52471.291	15:22:48.50	07/11/12	0	0
0.000	1.394	52471.424	15:22:48.40	07/11/12	0	0
0.000	1.384	52471.400	15:22:48.30	07/11/12	0	0
0.000	1.375	52471.409	15:22:48.20	07/11/12	0	0
0.000	1.365	52471.428	15:22:48.10	07/11/12	0	0
0.000	1.355	52471.366	15:22:48.00	07/11/12	0	0
0.000	1.346	52471.314	15:22:47.90	07/11/12	0	0
0.000	1.336	52471.160	15:22:47.80	07/11/12	0	0
0.000	1.327	52471.183	15:22:47.70	07/11/12	0	0
0.000	1.317	52471.232	15:22:47.60	07/11/12	0	0
0.000	1.307	52471.303	15:22:47.50	07/11/12	0	0
0.000	1.298	52471.432	15:22:47.40	07/11/12	0	0
0.000	1.288	52471.507	15:22:47.30	07/11/12	0	0
0.000	1.279	52471.576	15:22:47.20	07/11/12	0	0
0.000	1.269	52471.595	15:22:47.10	07/11/12	0	0
0.000	1.260	52471.510	15:22:47.00	07/11/12	0	0
0.000	1.250	52471.505	15:22:46.90	07/11/12	0	0
0.000	1.240	52471.455	15:22:46.80	07/11/12	0	0
0.000	1.231	52471.456	15:22:46.70	07/11/12	0	0
0.000	1.221	52471.410	15:22:46.60	07/11/12	0	0
0.000	1.212	52471.399	15:22:46.50	07/11/12	0	0

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0.000	1.202	52471.459	15:22:46.40	07/11/12	0	0
0.000	1.193	52471.519	15:22:46.30	07/11/12	0	0
0.000	1.183	52471.541	15:22:46.20	07/11/12	0	0
0.000	1.173	52471.381	15:22:46.10	07/11/12	0	0
0.000	1.164	52471.211	15:22:46.00	07/11/12	0	0
0.000	1.154	52471.099	15:22:45.90	07/11/12	0	0
0.000	1.145	52471.087	15:22:45.80	07/11/12	0	0
0.000	1.135	52471.040	15:22:45.70	07/11/12	0	0
0.000	1.125	52471.100	15:22:45.60	07/11/12	0	0
0.000	1.116	52471.136	15:22:45.50	07/11/12	0	0
0.000	1.106	52471.138	15:22:45.40	07/11/12	0	0
0.000	1.097	52471.030	15:22:45.30	07/11/12	0	0
0.000	1.087	52471.076	15:22:45.20	07/11/12	0	0
0.000	1.078	52470.855	15:22:45.10	07/11/12	0	0
0.000	1.068	52470.880	15:22:45.00	07/11/12	0	0
0.000	1.058	52470.956	15:22:44.90	07/11/12	0	0
0.000	1.049	52471.100	15:22:44.80	07/11/12	0	0
0.000	1.039	52471.122	15:22:44.70	07/11/12	0	0
0.000	1.030	52471.099	15:22:44.60	07/11/12	0	0
0.000	1.020	52470.994	15:22:44.50	07/11/12	0	0
0.000	1.011	52470.981	15:22:44.40	07/11/12	0	0
0.000	1.001	52470.994	15:22:44.30	07/11/12	0	0
0.000	0.991	52471.041	15:22:44.20	07/11/12	0	0
0.000	0.982	52471.130	15:22:44.10	07/11/12	0	0
0.000	0.972	52471.237	15:22:44.00	07/11/12	0	0
0.000	0.963	52471.302	15:22:43.90	07/11/12	0	0
0.000	0.953	52471.290	15:22:43.80	07/11/12	0	0
0.000	0.943	52471.205	15:22:43.70	07/11/12	0	0
0.000	0.934	52471.111	15:22:43.60	07/11/12	0	0
0.000	0.924	52471.041	15:22:43.50	07/11/12	0	0
0.000	0.915	52471.006	15:22:43.40	07/11/12	0	0
0.000	0.905	52470.911	15:22:43.30	07/11/12	0	0
0.000	0.896	52470.909	15:22:43.20	07/11/12	0	0
0.000	0.886	52470.951	15:22:43.10	07/11/12	0	0
0.000	0.876	52470.928	15:22:43.00	07/11/12	0	0
0.000	0.867	52471.042	15:22:42.90	07/11/12	0	0
0.000	0.857	52471.149	15:22:42.80	07/11/12	0	0
0.000	0.848	52471.170	15:22:42.70	07/11/12	0	0
0.000	0.838	52471.228	15:22:42.60	07/11/12	0	0
0.000	0.829	52471.383	15:22:42.50	07/11/12	0	0
0.000	0.819	52471.327	15:22:42.40	07/11/12	0	0
0.000	0.809	52471.256	15:22:42.30	07/11/12	0	0
0.000	0.800	52471.278	15:22:42.20	07/11/12	0	0
0.000	0.790	52471.356	15:22:42.10	07/11/12	0	0
0.000	0.781	52471.497	15:22:42.00	07/11/12	0	0
0.000	0.771	52471.612	15:22:41.90	07/11/12	0	0
0.000	0.761	52471.625	15:22:41.80	07/11/12	0	0
0.000	0.752	52471.621	15:22:41.70	07/11/12	0	0
0.000	0.742	52471.635	15:22:41.60	07/11/12	0	0
0.000	0.733	52471.625	15:22:41.50	07/11/12	0	0
0.000	0.723	52471.686	15:22:41.40	07/11/12	0	0
0.000	0.714	52471.698	15:22:41.30	07/11/12	0	0
0.000	0.704	52471.695	15:22:41.20	07/11/12	0	0
0.000	0.694	52471.715	15:22:41.10	07/11/12	0	0
0.000	0.685	52471.722	15:22:41.00	07/11/12	0	0
0.000	0.675	52471.709	15:22:40.90	07/11/12	0	0
0.000	0.666	52471.636	15:22:40.80	07/11/12	0	0
0.000	0.656	52471.634	15:22:40.70	07/11/12	0	0
0.000	0.647	52471.659	15:22:40.60	07/11/12	0	0
0.000	0.637	52471.683	15:22:40.50	07/11/12	0	0
0.000	0.627	52471.686	15:22:40.40	07/11/12	0	0
0.000	0.618	52471.683	15:22:40.30	07/11/12	0	0
0.000	0.608	52471.624	15:22:40.20	07/11/12	0	0

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0.000	0.599	52471.632	15:22:40.10	07/11/12	0	0
0.000	0.589	52471.724	15:22:40.00	07/11/12	0	0
0.000	0.580	52471.841	15:22:39.90	07/11/12	0	0
0.000	0.570	52472.050	15:22:39.80	07/11/12	0	0
0.000	0.560	52471.971	15:22:39.70	07/11/12	0	0
0.000	0.551	52472.049	15:22:39.60	07/11/12	0	0
0.000	0.541	52472.027	15:22:39.50	07/11/12	0	0
0.000	0.532	52471.909	15:22:39.40	07/11/12	0	0
0.000	0.522	52471.770	15:22:39.30	07/11/12	0	0
0.000	0.512	52471.636	15:22:39.20	07/11/12	0	0
0.000	0.503	52471.644	15:22:39.10	07/11/12	0	0
0.000	0.493	52471.630	15:22:39.00	07/11/12	0	0
0.000	0.484	52471.635	15:22:38.90	07/11/12	0	0
0.000	0.474	52471.574	15:22:38.80	07/11/12	0	0
0.000	0.465	52471.552	15:22:38.70	07/11/12	0	0
0.000	0.455	52471.599	15:22:38.60	07/11/12	0	0
0.000	0.445	52471.623	15:22:38.50	07/11/12	0	0
0.000	0.436	52471.806	15:22:38.40	07/11/12	0	0
0.000	0.426	52471.909	15:22:38.30	07/11/12	0	0
0.000	0.417	52471.957	15:22:38.20	07/11/12	0	0
0.000	0.407	52472.025	15:22:38.10	07/11/12	0	0
0.000	0.398	52472.030	15:22:38.00	07/11/12	0	0
0.000	0.388	52471.973	15:22:37.90	07/11/12	0	0
0.000	0.378	52471.971	15:22:37.80	07/11/12	0	0
0.000	0.369	52472.015	15:22:37.70	07/11/12	0	0
0.000	0.359	52472.097	15:22:37.60	07/11/12	0	0
0.000	0.350	52472.241	15:22:37.50	07/11/12	0	0
0.000	0.340	52472.223	15:22:37.40	07/11/12	0	0
0.000	0.330	52472.139	15:22:37.30	07/11/12	0	0
0.000	0.321	52472.040	15:22:37.20	07/11/12	0	0
0.000	0.311	52471.917	15:22:37.10	07/11/12	0	0
0.000	0.302	52471.733	15:22:37.00	07/11/12	0	0
0.000	0.292	52471.685	15:22:36.90	07/11/12	0	0
0.000	0.283	52471.850	15:22:36.80	07/11/12	0	0
0.000	0.273	52471.990	15:22:36.70	07/11/12	0	0
0.000	0.263	52472.146	15:22:36.60	07/11/12	0	0
0.000	0.254	52472.207	15:22:36.50	07/11/12	0	0
0.000	0.244	52472.188	15:22:36.40	07/11/12	0	0
0.000	0.235	52472.172	15:22:36.30	07/11/12	0	0
0.000	0.225	52472.094	15:22:36.20	07/11/12	0	0
0.000	0.216	52471.990	15:22:36.10	07/11/12	0	0
0.000	0.206	52471.899	15:22:36.00	07/11/12	0	0
0.000	0.196	52471.815	15:22:35.90	07/11/12	0	0
0.000	0.187	52471.721	15:22:35.80	07/11/12	0	0
0.000	0.177	52471.836	15:22:35.70	07/11/12	0	0
0.000	0.168	52471.860	15:22:35.60	07/11/12	0	0
0.000	0.158	52471.861	15:22:35.50	07/11/12	0	0
0.000	0.148	52471.996	15:22:35.40	07/11/12	0	0
0.000	0.139	52472.009	15:22:35.30	07/11/12	0	0
0.000	0.129	52471.982	15:22:35.20	07/11/12	0	0
0.000	0.120	52471.910	15:22:35.10	07/11/12	0	0
0.000	0.110	52471.914	15:22:35.00	07/11/12	0	0
0.000	0.101	52471.876	15:22:34.90	07/11/12	0	0
0.000	0.091	52471.839	15:22:34.80	07/11/12	0	0
0.000	0.081	52471.803	15:22:34.70	07/11/12	0	0
0.000	0.072	52471.852	15:22:34.60	07/11/12	0	0
0.000	0.062	52471.876	15:22:34.50	07/11/12	0	0
0.000	0.053	52471.960	15:22:34.40	07/11/12	0	0
0.000	0.043	52472.176	15:22:34.30	07/11/12	0	0
0.000	0.034	52471.974	15:22:34.20	07/11/12	0	0
0.000	0.024	52471.846	15:22:34.10	07/11/12	0	0
0.000	0.014	52471.607	15:22:34.00	07/11/12	0	0
0.000	0.005	52471.444	15:22:33.90	07/11/12	0	0

FIELD NOTES

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Location Salina KS Date 7/12/12
 Project / Client Schilling
notes by T.R. geophysics

0600 morning safety briefing w/R.P.
 0700 AM Mag 858 QC over
 QC seed Test area
 In "Search Mode" w/1'
 sensor standoff height.
 @ 12.5' S:
 52488
 Diff = 17 nT = good
 @ 5' S:
 50630 nT
 Diff = 12.5 - 5' = 1858 nT
 redo AM QC.
 @ 12.5' S = 52493
 @ 5' S = 50670
 Diff = 1823
 reboot. reconnect.
 @ 12.5' S = 52488
 @ 5.0' S = 50141
 Diff = 2347 nT
 within 20% of 2841 nT ✓

Begin Reacq.
 Target No P:
 P = 5295T
 T = 52591

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Location Salina KS Date 7/2/12
Project / Client Schilling
geophysics TR Scale

Diff = 340 nT ✓
Reacg. Target No. 2:
P = ~~52750~~ 52750
T = 52715
Diff = 175 nT ✓
Target No 3:
P = 52750
T = 52670
Diff = 80
Target No 10:
P = 52680
T = 52610
Diff = 70 nT
Target No 5:
P = ~~52520~~ 52520
T = 52460
Diff = 80 nT
Target No 4:
P = 52580
T = 52460
Diff = 120 nT
Target No 19:
P = 53320
T = 51915
Diff = 1405 nT
Target No 9:
P = 52604
T = 52445
Diff = 159 nT

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8
Location Salina KS Date 7/12/12
Project / Client Schilling RI
Geophysics notes: TR

Target No 11:
P: 56004
T: 53280
Diff = 2324 nT

Target No 8[Ⓢ]
P: ~~52920~~[Ⓢ]
T: ~~52710~~ ~~52410~~ P: 52920, 52510
Diff = 410 Diff = ~~210~~ nT [Ⓢ] 52510 52410

Target No 8: No 7?
P: no find @ No. 7
T: _____ (TR)
diff =

Target No 6:
P: 35930
T: 35580
Diff. = 350 nT

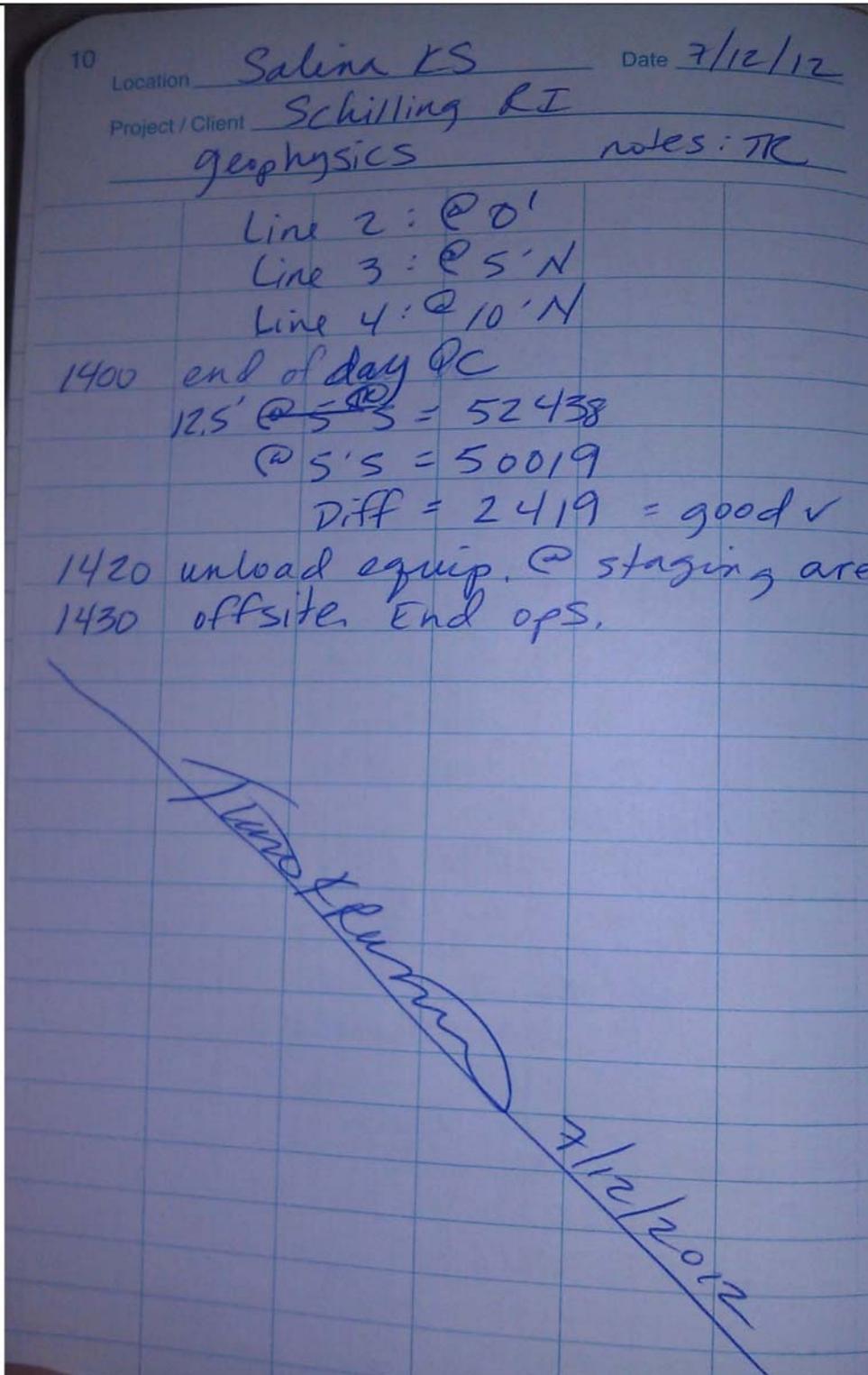
1100 lunch
1130 end lunch
1140 meet backhoe operator, mob.
backhoe onsite
1200 RP & ST train on back hoe
1225 begin reacq.
Target No. 13:

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Location Salina KS Date 7/12/12
Project / Client Schilling RI
geophysics Notes: TR Scale

P: 54004
T: 52653
Diff: 1353 nT
Target No. 12:
P: 56890 @
T: 52890
Diff: TR
Target No. 15 @ 16
P: 54681
T: 52280
Diff: = 2401 nT
Target No. 14
P: 55380
T: 52390
Diff = 2990 nT
Target No. 15:
P: ~~52000~~ 55780
T: 52175
Diff = 3605
Target No. 17
P: ~~35000~~ @ 60000
T: 35000
Diff: 25000
Target No. 18:
P: 57004
T: 54125
Diff: 2879
Record dataset 1 over Target No. 7.
File 1 Line 1 @ 10' S
Line 1 @ 5' S

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2

Location Salina KS Date 7/11/2012

Project / Client Schilling

notes by Tianna Rasmussen (TR)

0700 Rob Paoletti (R.P.)
Ron Mulvey (RM)
Dave Escri (DE)
Tianna Rasmussen (TR)
Prsnl meet @ hotel

0710 leave hotel to meet @
airport terminal.

0730 meeting @ terminal for site
controls w/ (ST)
Steve Tewhill, Tim
Rogers and Kenny Becker.
-site access limited to
Water Well Rd.

0810 end meeting

0815 R.P., R.M., TR, DE and ST
mob. to site.

0825 arrive at site, gate P7
unload equip @ site bldg
(staging area)

0850 safety briefing w/R.P.

0910 R.P. & TR to site survey
area.

0920 dig and place @C seed
after cleared w/Schradst.

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Location Salina KS Date 7/11/2012³

Project / Client Schilling

notes by TR Scale _____

QC seed location:
 4292 834.44m N,
 616035.58 m E

1010 begin target locating
 1130 complete prelim target
 location of 19 targets
 and 3 trenches.

1135 back to stage area
 1140 lunch
 1206 Mag 858 arrives.
 Setup 858, CIN: 29730
 Sensor 1: CIN: C893

1340 begin QC check of Mag 858
 File 1:
 @ 12.5' south of QC seed
 = 50300 Line 0
 Line 1: retry static @ 12.5' S
 = 52568.35 NT
 Line 2: moved to 2.5' S
 - no static
 Line 3: @ 2.5' S ≈ 55290

- stop recording. walk around
 and field check
 @ 12.5 S = 53543.80, 53545.80
 @ 2.5 S = 56146 (not level)

- after running the 858
 on observe, found an
 anomaly buried close to
 QC seed (pipeline)
 - relocate QC seed item

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4

Location Salina KS Date 7/11/2012

Project / Client Schilling

Notes by TR

1430 clear area w/ Mag 858
bury QC seed item 6" below
ground surface

12.5' S = 53475, 53473
2.5' S = 47530, 47506

- QC seed location:
4292845.78N
616032.30 E (Mag 83)

7.5' S = 53040, 53039

- Record every 2.5' over QC
seed (S-N)

File 2:

Line 0 = 12.5' S
52471, 52470

Line 1 = 10' S
52455, 52454

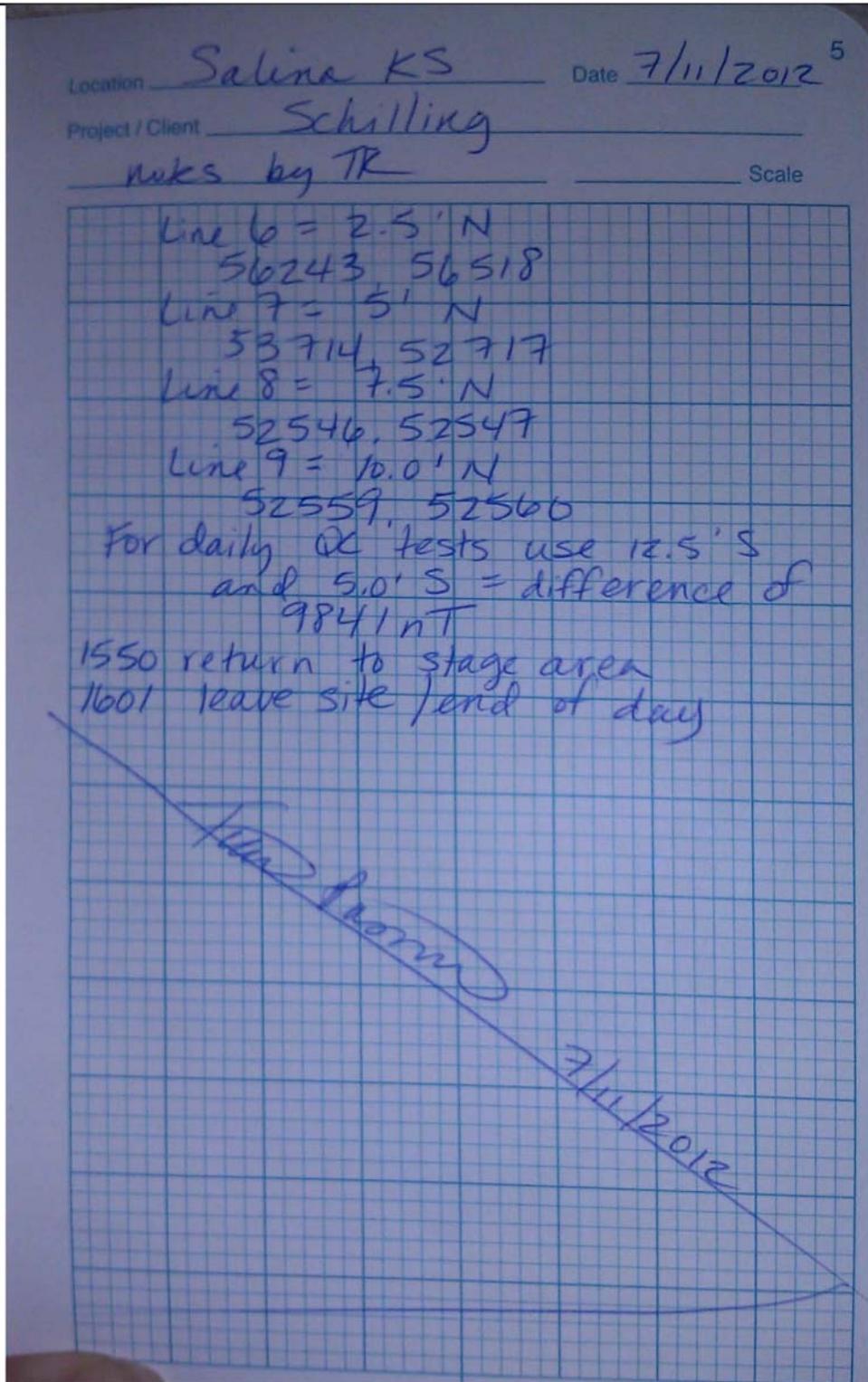
Line 2 = 7.5' S
52596, 52597

Line 3 = 5.0' S
49630, 49543

Line 4 = 2.5' S
41953, 41125

Line 5 = 0
161515, 62336

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ACCESS DATABASE TABLES

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Anomaly_Table

Thursday, September 06, 2012
9:31:21 AM

Dataset ID	Location	Target ID	Easting	Northing	Dig	Mag_Total_Amp	TF_Peak	TF_Trough	AS	Ply_or_SinglePt	Date
Schilling_AFB	1	Anom_1	616108.3	4293045.6	<input checked="" type="checkbox"/>	345	325	-20	423	SP	7/12/2012
Schilling_AFB	2	Anom_2	616126.2	4293028.7	<input checked="" type="checkbox"/>	116	91	-25	205	SP	7/12/2012
Schilling_AFB	3	Anom_3	616159.7	4293006.7	<input checked="" type="checkbox"/>	83	22	-61	127	SP	7/12/2012
Schilling_AFB	4	Anom_4	616072.5	4293038.1	<input checked="" type="checkbox"/>	139	82	-57	304	SP	7/12/2012
Schilling_AFB	5	Anom_5	616079	4292997.5	<input checked="" type="checkbox"/>	76	59	-17	96	SP	7/12/2012
Schilling_AFB	6	Anom_6	616067.1	4292965.2	<input checked="" type="checkbox"/>	382	292	-90	178	SP	7/12/2012
Schilling_AFB	7	Anom_7	616048.8	4292941	<input type="checkbox"/>	232	173	-59	207	SP	7/12/2012
Schilling_AFB	8	Anom_8	616053	4292944.7	<input checked="" type="checkbox"/>	410	299	-111	309	SP	7/12/2012

Dataset ID	Location	Target ID	Easting	Northing	Dig	Mag_Total_Amp	TF_Peak	TF_Trough	AS	Ply_or_SinglePt	Date
Schilling_AFB	9	Anom_9	616034.5	4292922.9	<input checked="" type="checkbox"/>	204	100	-104	435	SP	7/12/2012
Schilling_AFB	10	Anom_10	616103.4	4293006.9	<input checked="" type="checkbox"/>	61	61	0	208	SP	7/12/2012
Schilling_AFB	11	Anom_11	616051.5	4292927.9	<input checked="" type="checkbox"/>	2569	2471	-98	741	SP	7/12/2012
Schilling_AFB	12	Anom_12	616089.3	4292947.7	<input checked="" type="checkbox"/>	1999	1703	-296	1487	SP	7/12/2012
Schilling_AFB	13	Anom_13	616085.1	4292958	<input checked="" type="checkbox"/>	1047	955	-92	444	SP	7/12/2012
Schilling_AFB	14	Anom_14	616145.3	4292957.4	<input checked="" type="checkbox"/>	2261	2056	-205	1343	SP	7/12/2012
Schilling_AFB	15	Anom_15	616138.5	4292946.8	<input checked="" type="checkbox"/>	1608	1338	-270	2159	SP	7/12/2012
Schilling_AFB	16	Anom_16	616116.5	4292928.4	<input checked="" type="checkbox"/>	3270	3042	-228	930	SP	7/12/2012
Schilling_AFB	17	Anom_17	616142.7	4292925.3	<input checked="" type="checkbox"/>	26441	10000	-16441	43170	SP	7/12/2012

Dataset ID	Location	Target ID	Easting	Northing	Dig	Mag_Total_Amp	TF_Peak	TF_Trough	AS	Ply_or_SinglePt	Date
Schilling_AFB	18	Anom_18	616166.1	4292919.8	<input checked="" type="checkbox"/>	2302	2090	-212	1225	SP	7/12/2012
Schilling_AFB	19	Anom_19	616036.3	4292998.8	<input checked="" type="checkbox"/>	1569	1293	-276	1769	SP	7/12/2012

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Intrusive_Results_Table

Wednesday, September 05, 2012
11:45:50 AM

Target ID	Item Count	Location	Dig Date	Anomaly Type	Description	Offset Distance	Depth	Quantity	Weight	Photo File Name	Final Disposition	QCStatus	Acceptance_Sampling_Recheck
Anom_1	1	Schilling AFB	7/18/2012	CD	Pipe, Concrete filled	0	0.6096	1	2.3	Anomaly 1 (2).pdf	Partially removed/Partially LIP	Pass	<input type="checkbox"/>
Anom_2	1	Schilling AFB	7/18/2012	CD	Gear Housing	0	0.9144	1	4.5	Anomaly 2.pdf	removed	Pass	<input type="checkbox"/>
Anom_3	1	Schilling AFB	7/18/2012	CD	Pliers	0	0.0254	1	0.2	Anomaly 3.pdf	removed	Pass	<input type="checkbox"/>
Anom_4	1	Schilling AFB	7/17/2012	CD	Railroad Spike	0	0.1524	1	0.2	Anomaly 4.pdf	removed	Pass	<input type="checkbox"/>
Anom_5	1	Schilling AFB	7/17/2012	CD	Metal Stake	0	0.1524	1	0.2	Anomaly 5 (2).pdf	removed	Pass	<input type="checkbox"/>
Anom_6	1	Schilling AFB	7/17/2012	CD	Rebar	0	0.3048	1	0.5	Anomaly 6 (2).pdf	removed	Pass	<input type="checkbox"/>
Anom_7	0	Schilling AFB											<input type="checkbox"/>
Anom_8	1	Schilling AFB	7/18/2012	CD	Metal Strap	0	0.3048	1	0.9	Anomaly 8.pdf	removed	Pass	<input type="checkbox"/>
Anom_9	1	Schilling AFB	7/17/2012	CD	cable	0	0.2032	1	0.2	Anomaly 9.pdf	removed	Pass	<input type="checkbox"/>
Anom_10	1	Schilling AFB	7/17/2012	CD	wire	0	0.1524	1	0	Anomaly 10.pdf	removed	Pass	<input type="checkbox"/>
Anom_11	1	Schilling AFB	7/17/2012	CD	rebar	0	0.1524	1		Anomaly 11.pdf	LIP	Pass	<input type="checkbox"/>
Anom_12	1	Schilling AFB	7/17/2012	CD	rebar	0	0.0508	1		Anomaly 12.pdf	LIP	Pass	<input type="checkbox"/>
Anom_13	1	Schilling AFB	7/17/2012	CD	rebar	0	0.254	1		Anomaly 13.pdf	LIP	Pass	<input type="checkbox"/>
Anom_14	1	Schilling AFB	7/17/2012	CD	rebar	0	0.4572	1		Anomaly 14.pdf	LIP	Pass	<input type="checkbox"/>
Anom_15	1	Schilling AFB	7/17/2012	CD	rebar	0	0.4572	1		Anomaly 15.pdf	LIP	Pass	<input type="checkbox"/>
Anom_16	1	Schilling AFB	7/17/2012	CD	rebar	0	0.0127	1		Anomaly 16.pdf	LIP	Pass	<input type="checkbox"/>
Anom_17	1	Schilling AFB	7/17/2012	CD	concrete footer	0	0.254	1		Anomaly 17.pdf	LIP	Pass	<input type="checkbox"/>
Anom_18	1	Schilling AFB	7/17/2012	CD	rebar	0	0.0127	1		Anomaly 18.pdf	LIP	Pass	<input type="checkbox"/>
Anom_19	1	Schilling AFB	7/17/2012	CD	rebar	0	0.3048	1	1.4	Anomaly 19.pdf	LIP	Pass	<input type="checkbox"/>

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Project_Table

Wednesday, September 05, 2012
11:56:22 AM

Project ID	Prime Contractor	Project Type	State	Coordinate System	Datum	Coordinate Units	Detection Sensors	Positioning System	TimeStamp
Schilling AFB RI	HydroGeologic, Inc.	RI	KS	UTM zone 14	NAD83	metric	G858 Magnetometer	PPK	7/26/2012 1:30:16 PM

1



Reacquisition_Table

Wednesday, September 05, 2012
11:57:53 AM

Location	Target ID	Reacquired	Offset	Peak Response	Trough Response	Team	Date	QCStatus	CAIS Observed	Comments
Schilling AFB	Anom_1	<input checked="" type="checkbox"/>	0	52957	52591	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_10	<input checked="" type="checkbox"/>	0	52680	52610	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_11	<input checked="" type="checkbox"/>	0	56004	53280	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_12	<input checked="" type="checkbox"/>	0	56890	52890	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_13	<input checked="" type="checkbox"/>	0	54006	52653	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_14	<input checked="" type="checkbox"/>	0	55380	52390	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_15	<input checked="" type="checkbox"/>	0	55780	52175	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_16	<input checked="" type="checkbox"/>	0	54681	52280	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_17	<input checked="" type="checkbox"/>	0	60000	35000	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_18	<input checked="" type="checkbox"/>	0	57004	54125	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_19	<input checked="" type="checkbox"/>	0	53320	51915	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_2	<input checked="" type="checkbox"/>	0	52715	52540	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_3	<input checked="" type="checkbox"/>	0	52750	52670	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_4	<input checked="" type="checkbox"/>	0	52580	52460	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_5	<input checked="" type="checkbox"/>	0	52520	52460	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_6	<input checked="" type="checkbox"/>	0	35930	35580	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_7	<input type="checkbox"/>	0			1	7/12/2012	Pass	<input type="checkbox"/>	No anomaly was identified at Location 7. In order to document the "no find" a digital survey was collected at Location 7 with the G858 magnetometer (0712012dataset1.bin). An in depth review of the original geophysical data showed a false anomaly due to leveling error over time gap/jump. Documented through email to USAACE from HydroGeoLogic, Inc. on July 12, 2012.
Schilling AFB	Anom_8	<input checked="" type="checkbox"/>	0	52920	52510	1	7/12/2012	Pass	<input type="checkbox"/>	
Schilling AFB	Anom_9	<input checked="" type="checkbox"/>	0	52604	52445	1	7/12/2012	Pass	<input type="checkbox"/>	

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SeedTest_Item_Table

Wednesday, September 05, 2012

11:59:38 AM

Location	Test Item ID	Description	Seed Type	Blind	TrueX	TrueY	Depth	Orientation	Inclination
Schilling_AFB	20	6" x 24"	Other	<input type="checkbox"/>	616032.298	4292845.803	0.1524	0	0

1

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Static_Repeatability_Test_Table

Wednesday, September 05, 2012
12:01:35 PM

OID	Filename	Date	AM_PM	Static_Test_Item	Static_Sensor_ID	TF Mag	Static_Bkg_Mean_TF_bottom	Static_Spike_Mean_TF_bottom	Static_Response_TF_bottom	Static_Response_%Difference_TF_bottom
8	06112012dataset 2	7/11/2012	PM	6" x 24"	12.5' S	52,471	52471			
9	6112012dataset2	7/11/2012	PM	6" x 24"	5' S	49630		49630	2841	0
10	NA	7/12/2012	AM	6" x 24"	12.5' S	52488	52488			
11	NA	7/12/2012	AM	6" x 24"	5' S	50141		50141	2347	19
12	NA	7/12/2012	PM	6" x 24"	12.5' S	52438	52438			
13	NA	7/12/2012	PM	6" x 24"	5' S	50019		50019	2419	16

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Trench Table

Wednesday, September 05, 2012
3:56:07 PM

ID	Target ID	Easting	Northing	Type	Source	Name	Depth	Descriptio	Comments	CAIS Observed	GPS_Date	GPS_Time
Trench 3		616066.6	4292898	Trench	7/18/2012	Trench 3 Seg 1	1'	No Item Found	Rusted ferrous flakes observed throughout trench	<input type="checkbox"/>	7/18/2012	08:18:49am
Trench 3		616068.3	4292898	Trench	7/18/2012	Trench 3 Seg 1	2'	No Item Found	Rusted ferrous flakes observed throughout trench	<input type="checkbox"/>	7/18/2012	08:29:03am
Trench 3		616068.3	4292883	Trench	7/18/2012	Trench 3 Seg 1	3'	No Item Found	Segment 1 complete; Rusted ferrous flakes observed throughout trench	<input type="checkbox"/>	7/18/2012	08:38:35am
Trench 3		616066.6	4292883	Trench	7/18/2012	Trench 3 Seg 2	1'	No Item Found	Segment 2 complete; Rusted ferrous flakes observed throughout trench	<input type="checkbox"/>	7/18/2012	09:21:13am
Trench 1		616088.7	4292888	Trench	7/18/2012	Trench 2 Seg 1	1'	Other	Segment 1 complete; Rusted ferrous flakes observed throughout spoil pile	<input type="checkbox"/>	7/18/2012	10:11:06am
Trench 1		616103.8	4292888	Trench	7/18/2012	Trench 2 Seg 2	1'	No Item Found	Segment 2 complete; Rusted ferrous flakes observed throughout spoil pile	<input type="checkbox"/>	7/18/2012	10:11:45am
Trench 1		616103.8	4292889	Trench	7/18/2012	Trench 2 Seg 4	1'	No Item Found	Rusted ferrous flakes observed throughout spoil pile	<input type="checkbox"/>	7/18/2012	10:26:39am
Trench 1		616088.7	4292889	Trench	7/18/2012	Trench 2 Seg 5	1'	No Item Found	Trench 2 complete; Rusted ferrous flakes observed throughout spoil pile	<input type="checkbox"/>	7/18/2012	10:32:41am
Trench 2		616070	4292922	Trench	7/18/2012	Trench 1 Seg 1	1'	No Item Found	Segment 1 complete; Rusted ferrous flakes observed throughout trench	<input type="checkbox"/>	7/18/2012	12:37:16pm
Trench 2		616062	4292921	Trench	7/18/2012	Trench 1 Seg 2	1'	No Item Found	Segment 2 complete; Rusted ferrous flakes observed throughout trench	<input type="checkbox"/>	7/18/2012	12:43:53pm
Trench 2		616077.2	4292921	Trench	7/18/2012	Trench 1 Seg 3	2'	No Item Found	Fist half 1' second half 2' complete; Rusted ferrous flakes observed throughout trench	<input type="checkbox"/>	7/18/2012	12:52:30pm



Trench Table

Wednesday, September 05, 2012
3:56:07 PM

ID	Target ID	Easting	Northing	Type	Source	Name	Depth	Descriptio	Comments	CAIS Observed	GPS_Date	GPS_Time
Trench 3		616066.6	4292898	Trench	7/18/2012	Trench 3 Seg 1	1'	No Item Found	Rusted ferrous flakes observed throughout trench	<input type="checkbox"/>	7/18/2012	08:18:49am
Trench 3		616068.3	4292898	Trench	7/18/2012	Trench 3 Seg 1	2'	No Item Found	Rusted ferrous flakes observed throughout trench	<input type="checkbox"/>	7/18/2012	08:29:03am
Trench 3		616068.3	4292883	Trench	7/18/2012	Trench 3 Seg 1	3'	No Item Found	Segment 1 complete; Rusted ferrous flakes observed throughout trench	<input type="checkbox"/>	7/18/2012	08:38:35am
Trench 3		616066.6	4292883	Trench	7/18/2012	Trench 3 Seg 2	1'	No Item Found	Segment 2 complete; Rusted ferrous flakes observed throughout trench	<input type="checkbox"/>	7/18/2012	09:21:13am
Trench 1		616088.7	4292888	Trench	7/18/2012	Trench 2 Seg 1	1'	Other	Segment 1 complete; Rusted ferrous flakes observed throughout spoil pile	<input type="checkbox"/>	7/18/2012	10:11:06am
Trench 1		616103.8	4292888	Trench	7/18/2012	Trench 2 Seg 2	1'	No Item Found	Segment 2 complete; Rusted ferrous flakes observed throughout spoil pile	<input type="checkbox"/>	7/18/2012	10:11:45am
Trench 1		616103.8	4292889	Trench	7/18/2012	Trench 2 Seg 4	1'	No Item Found	Rusted ferrous flakes observed throughout spoil pile	<input type="checkbox"/>	7/18/2012	10:26:39am
Trench 1		616088.7	4292889	Trench	7/18/2012	Trench 2 Seg 5	1'	No Item Found	Trench 2 complete; Rusted ferrous flakes observed throughout spoil pile	<input type="checkbox"/>	7/18/2012	10:32:41am
Trench 2		616070	4292922	Trench	7/18/2012	Trench 1 Seg 1	1'	No Item Found	Segment 1 complete; Rusted ferrous flakes observed throughout trench	<input type="checkbox"/>	7/18/2012	12:37:16pm
Trench 2		616062	4292921	Trench	7/18/2012	Trench 1 Seg 2	1'	No Item Found	Segment 2 complete; Rusted ferrous flakes observed throughout trench	<input type="checkbox"/>	7/18/2012	12:43:53pm
Trench 2		616077.2	4292921	Trench	7/18/2012	Trench 1 Seg 3	2'	No Item Found	Fist half 1' second half 2' complete; Rusted ferrous flakes observed throughout trench	<input type="checkbox"/>	7/18/2012	12:52:30pm

ID	Target ID	Easting	Northing	Type	Source	Name	Depth	Descriptio	Comments	CAIS Observed	GPS_Date	GPS_Time
Trench 2		616077.2	4292923	Trench	7/18/2012	Trench 1 Seg 4	1'	No Item Found	Segment 4 complete; Rusted ferrous flakes observed throughout trench	<input type="checkbox"/>	7/18/2012	12:54:51pm
Trench 2	20	616101.067	4292888.4	Trench	7/18/2012	Trench 2 Seg 4		Other	Metal Strap	<input type="checkbox"/>	7/18/2012	
Trench 3	21	616067.49	4292892.18	Trench	7/18/2012	Trench 3		Other	Electric motor part, Tube, Wire	<input type="checkbox"/>	7/18/2012	
Trench 3	23	616067.493	4292895.1	Trench	7/18/2012	Trench 3		Other	Bolt and Lag nail	<input type="checkbox"/>	7/18/2012	
Trench 3	24	616067.499	4292888.8	Trench	7/15/2012	Trench 3		Other	Bolt and Lag Nail	<input type="checkbox"/>	7/18/2012	

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APPENDIX F

DAILY REPORTS, LOGS, AND MEMORANDA

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Construction Quality Control Documentation

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**Quality Control
Preparatory Phase Checklist**

Contract No.: W912DY-10-D-0023

Date: 11 July 2012

Definable Feature of Work: Anomaly Investigation Spec. Section: _____

I. Personnel Present:

Government Rep Notified: Yes

Hours in advance: 48

<u>Name</u>	<u>Position</u>	<u>Company/Government</u>
1. Ronald Mulvey	SUXOS	HGL
2. Robert Paoletti	UXOSO/QCS	HGL
3. Tiana Rasmussen	Geo	HGL
4. Gary Cagle	UXO III	HGL
5. Dawn Weber	UXO II	HGL
6. Jason Kanski	UXO II	HGL
7. William Zow	UXO II	HGL

(List additional personnel on reverse side)

II. Submittals

1. Review submittals and/or submittal log. Have all submittals been approved?

Yes X No _____

If No, what items have not been submitted?

- a. _____
- b. _____
- c. _____

2. Are all materials on hand? Yes X No _____

If No, what items are missing?

- a. _____
- b. _____

**Quality Control
Preparatory Phase Checklist**

c. _____

- 3. Check approved submittals against delivered material. (This should be done as material arrives.)

Comments: All equipment arrived and in good working order.

III. Material Storage

Are materials stored properly? Yes X No _____

If No, what action is taken? _____

IV. Specifications

- 1. Review each paragraph of specifications.
NA

- 2. Discuss procedures for accomplishing the work.
See work plan

- 3. Clarify any differences.

V. Preliminary Work and Permits

Ensure preliminary work is correct and permits are on file.

If not, what action is taken: Completed on 11 July 2012

VI. Testing

- 1. Identify test to be performed, frequency, and whom.
QC check of geophysics instrument; to be completed by Tiana Rasmussen. QC check of magnetometers to be completed by individual using instrument. Daily calibration of PID to be performed by Safety Officer.

- 2. When is it required? Daily; at the start and end of the day for magnetometer. PID morning of each day.

**Quality Control
Preparatory Phase Checklist**

- 3. Where is it required? At test strip for magnetometer.
- 4. Review Testing Plan: NA _____
- 5. Has the test facility been approved: Yes No

If not, what action has been taken?: _____

VII. Safety

- 1. Review applicable portion of EM 385-1-1. Completed 11 July 2011 with OESS

- 2. Activity Hazard Analysis approved? Yes No

VIII. USACE Representative comments during meeting.

None _____



Robert Paoletti
QC Manager / Date 7/11/12



Quality Control Initial Phase Checklist

Contract No.: W912DY-10-D-0023

Date: 16 July 2012

Title and No. of Technical Section: Former Shilling AFB RI

Reference Contract Drawings: NA

A: Planned attendants:

	<u>NAME</u>	<u>POSITION</u>	<u>COMPANY</u>
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____

B. Materials being used are in strict compliance with the contract plans and specifications:

Yes No If not explain:

C. Procedures and/or work methods witness are in strict compliance with the contract specifications:

Yes No If not explain:

D. Workmanship is acceptable: Yes No

State areas where improvement is needed:

E. Safety violation noted: Yes No

If yes, corrective action taken:

Robert Paoletti
Quality Control Representative

16 July 2012
Date



Quality Control Final Inspection Checklist

Contract No.: **W912DY-10-D-0023**

Date: **19 July 2012**

Delivery/Task Order No: **0006**

Project No: **H1006B**

Project/Area of Inspection: **Shilling AFB RI**

18 Anomalies Intrusively Investigated and 3 Test Pits Investigated

A: Definable Feature of Work: Status of Inspection:

1. Investigate 18 Anomalies Complete

2. Investigate 3 Test Pits Complete

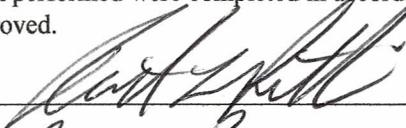
3. _____ _____

4. _____ _____

5. _____ _____

6. _____ _____

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.



ROBERT PASCHETTI, UXOQCS 19 JUL 2012

B. Final Acceptance is Approved, Subject to the Correction of the Punchlist Items below:

C. Persons in Attendance (see meeting attendance sheet attached: NA)

D. Resolution of Punchlist:



Quality Control Final Inspection Checklist

Contract No.: W912DY-10-D-0023 Date: 19 July 2012

Delivery/Task Order No: 0006 Project No: H1006B

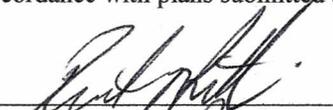
Project/Area of Inspection: Shilling AFB RI

19 Anomalies Intrusively Investigated and 3 Test Pits Investigated

A: Definable Feature of Work:	Status of Inspection:
1. <u>Investigate 18 Anomalies</u>	<u>Complete</u>
2. <u>Investigate 3 Test Pits</u>	<u>Complete</u>
3. _____	_____
4. _____	_____
5. _____	_____
6. _____	_____

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.


STEVEN M. TEWHILL
USACE CE


ROBERT PROBERTS
HGL RCS

B. Final Acceptance is Approved, Subject to the Correction of the Punchlist Items below:
1 Anomaly was not investigated due to the fact that 1 anomaly was deemed a false positive.

C. Persons in Attendance (see meeting attendance sheet attached): NA

D. Resolution of Punchlist:
18 remaining anomalies were investigated. 1 false positive anomaly disregarded.

Daily Production Reports

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Site Daily Production Report

Contract No: W912DY-10-D-0023 Date: 11Jul12
 Task Order No: 0006

Summary of today's work activities:
Site familiarization Geo QC test strip Geo validation ran

5. Inspections:

Inspection	Total Daily		Total Weekly		Total Project	
	Pass	Fail	Pass	Fail	Pass	Fail
Anomaly QC's	0	0	0	0	0	0
Anomaly QA'd	0	0	0	0	0	0

6. Explosive Usage:

Item	Quantity	Comments

7. MEC Summary:

Item	Grid	Classification			Disposition
		UXO	MPPEH	DMM	

8. Non-MEC Scrap (pounds).

Type	Daily Total (lbs)	Weekly Cumulative Total	Project Total
Munitions Debris (MD)			
Cultural Debris (CD)			
Range Related Debris (RRD)			

9. Equipment Usage:

Item Description	Quantity	Hours (each)	Total Hours	Comments (Rent/Own)
Truck, Dodge, 1500,4x4	1	10	10	Rent
Toyota , Camry	1	10	10	Rent
GeoXH	1	10	10	Rent
JCB 3CX Rubber Tired Backhoe-Loader SSN1348594				
Trimble, GeoXH	1	10	10	Rent
White XLT				
Schonstedt	4	10	40	Own



Site Daily Production Report

Contract No: W912DY-10-D-0023 **Date:** 11Jul12
Task Order No: 0006

Camera, digital	1	10	10	Own
Range finder				
Lightning detector	1	10	10	Own
PDA/GPS				
First aid kit	2	20	10	Own
Team gear				
Demo kit				
Site Safety Officer Kit	1	10	10	Own
Computer, laptop	1	10	10	Own
Computer, desktop				
Printer/copier/scanner/fax	1	10	10	Own
Telephone				
Cellular Telephones				

10. Discrepancies.

N/A

11. Guidance or Instructions Received From Client.

N/A

12. Attachment Summary.

N/A

13. Continuation/other.

N/A

14. Signature.

CERTIFICATION: I certify the above information is complete and correct and that I, 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.

Ronald A. Mulvey	7/11/2012 
Site Manager or SUXOS	Signature



Site Daily Production Report

Contract No: W912DY-10-D-0023
Task Order No: 0006

Date: 12 Jul 12

Summary of today's work activities:
 Reacquired anomalies.
 Anomaly 7 couldn't be reacquired because it was a false-positive. DGM transect over GPS position to show that the anomaly wasn't there.

5. Inspections:

Inspection	Total Daily		Total Weekly		Total Project	
	Pass	Fail	Pass	Fail	Pass	Fail
Grids QC's						
Grids QA'd						

6. Explosive Usage:

Item	Quantity	Comments

7. MEC Summary:

Item	Grid	Classification			Disposition
		UXO	MPPEH	DMM	

8. Non-MEC Scrap (pounds).

Type	Daily Total (lbs)	Weekly Cumulative Total	Project Total
Munitions Debris (MD)			
Cultural Debris (CD)			
Range Related Debris (RRD)			

9. Equipment Usage:

Item Description	Quantity	Hours (each)	Total Hours	Comments (Rent/Own)
Truck, Dodge, 1500,4x4	1	10	10	Rent
Car, Toyota	1	10	10	Rent
Schonstedt	4	10	40	Own
Camera, digital	1	10	10	Own



Site Daily Production Report

Contract No: W912DY-10-D-0023 **Date:** 12 Jul 12
Task Order No: 0006

Range finder				
Lightning detector				
PDA/GPS	1	10	10	Rent
First aid kit	2	10	20	Own
Team gear	2	10	20	Own
Demo kit				
Site Safety Officer Kit				
Computer, laptop	1	10	10	Own
Computer, desktop				
Printer/copier/scanner/fax	1	10	10	Own
Telephone				
Cellular Telephones				

10. Discrepancies.

Anomaly 7 was a No Find. Notified USACE and concluded that it was a False-Positive.

11. Guidance or Instructions Received From Client.

N/A

12. Attachment Summary.

N/A

13. Continuation/other.

N/A

14. Signature.

CERTIFICATION: I certify the above information is complete and correct and that I, 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.

Ronald A. Mulvey	 Invalid signature 
Site Manager or SUXOS	Signature



Site Daily Production Report

Contract No: W912DY-10-D-0023
Task Order No: 0006

Date: 16 JUL 12

Summary of today's work activities:
Site briefing of WP/SSHP Respiratory fit test conducted by HGL Mark McGowen Organized team equipment/test field equipment

5. Inspections:

Inspection	Total Daily		Total Weekly		Total Project	
	Pass	Fail	Pass	Fail	Pass	Fail
Grids QC's						
Grids QA'd						

6. Explosive Usage:

Item	Quantity	Comments

7. MEC Summary:

Item	Grid	Classification			Disposition
		UXO	MPPEH	DMM	

8. Non-MEC Scrap (pounds).

Type	Daily Total (lbs)	Weekly Cumulative Total	Project Total
Munitions Debris (MD)			
Cultural Debris (CD)			
Range Related Debris (RRD)			

9. Equipment Usage:

Item Description	Quantity	Hours (each)	Total Hours	Comments (Rent/Own)
Truck, Dodge, 1500,4x4	1	10	10	Rent
Car, Toyota	1	10	10	Rent
Schonstedt	4	10	40	Own
Camera, digital	1	10	10	Own



Site Daily Production Report

Contract No: W912DY-10-D-0023 **Date:** 16 JUL 12
Task Order No: 0006

Range finder				
Lightning detector				
PDA/GPS	1	10	10	Rent
First aid kit	2	10	20	Own
Team gear	2	10	20	Own
Demo kit				
Site Safety Officer Kit				
Computer, laptop	1	10	10	Own
Computer, desktop				
Printer/copier/scanner/fax	1	10	10	Own
Telephone				
Cellular Telephones				

10. Discrepancies.

PID could not be calibrated, replacements (2) ordered, will be in approximately 1030 AM on 17 JUL 12. Site was shut down due to PID not operating correctly.

11. Guidance or Instructions Received From Client.

N/A

12. Attachment Summary.

N/A

13. Continuation/other.

N/A

14. Signature.

CERTIFICATION: I certify the above information is complete and correct and that I, 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.	
Ronald A. Mulvey	<div style="text-align: right; font-size: small; margin-bottom: 5px;">7/16/2012</div>
Site Manager or SUXOS	Signature



Site Daily Production Report

Contract No: W912DY-10-D-0023
Task Order No: 0006

Date: 17 Jul 12

Summary of today's work activities:
 USACE Military Munitions Center of Expertise (CX) conducted site inspection.
 Team dug 14 anomalies.

5. Inspections:

Inspection	Total Daily		Total Weekly		Total Project	
	Pass	Fail	Pass	Fail	Pass	Fail
Anomalies QC's	14		14		14	
Anomalies QA'd	14		14		14	

6. Explosive Usage:

Item	Quantity	Comments

7. MEC Summary:

Item	Grid	Classification			Disposition
		UXO	MPPEH	DMM	

8. Non-MEC Scrap (pounds).

Type	Daily Total (lbs)	Weekly Cumulative Total	Project Total
Munitions Debris (MD)			
Cultural Debris (CD)	3	3	3
Range Related Debris (RRD)			

9. Equipment Usage:

Item Description	Quantity	Hours (each)	Total Hours	Comments (Rent/Own)
Truck, Dodge, 1500,4x4	1	10	10	Rent
Car, Toyota	1	10	10	Rent
Schonstedt	4	10	40	Own
Camera, digital	1	10	10	Own



Site Daily Production Report

Contract No: W912DY-10-D-0023
Task Order No: 0006

Date: 17 Jul 12

Range finder				
Lightning detector				
PDA/GPS	1	10	10	Rent
First aid kit	2	10	20	Own
Team gear	2	10	20	Own
Demo kit				
Site Safety Officer Kit				
Computer, laptop	1	10	10	Own
Computer, desktop				
Printer/copier/scanner/fax	1	10	10	Own
Telephone				
Cellular Telephones				

10. Discrepancies.

11. Guidance or Instructions Received From Client.

N/A

12. Attachment Summary.

N/A

13. Continuation/other.

N/A

14. Signature.

CERTIFICATION: I certify the above information is complete and correct and that I, 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.	
Ronald A. Mulvey	<div style="text-align: right;"> <p style="font-size: small; margin: 0;">7/17/2012</p> </div>
Site Manager or SUXOS	Signature



Site Daily Production Report

Contract No: W912DY-10-D-0023
Task Order No: 0006

Date: 18 Jul 12

CAIS Kits Discovered			
Summary of today's work activities:			
Dug 4 anomalies. Cultural debris found in anomaly holes. Dug 3 Trenches. Cultural debris found in all trenches			

5. Inspections:

Inspection	Total Daily		Total Weekly		Total Project	
	Pass	Fail	Pass	Fail	Pass	Fail
Grids QC's	4		18		18	
Grids QA'd	4		18		18	
Trenches QC'd	3		3		3	
Trenches QA'd	3		3		3	

6. Explosive Usage:

Item	Quantity	Comments

7. MEC Summary:

Item	Grid	Classification			Disposition
		UXO	MPPEH	DMM	

8. Non-MEC Scrap (pounds).

Type	Daily Total (lbs)	Weekly Cumulative Total	Project Total
Munitions Debris (MD)			
Cultural Debris (CD)	10	13	13
Range Related Debris (RRD)			

9. Equipment Usage:

Item Description	Quantity	Hours (each)	Total Hours	Comments (Rent/Own)
Truck, Dodge, 1500,4x4	1	10	10	Rent
Car, Toyota	1	10	10	Rent



Site Daily Production Report

Contract No: W912DY-10-D-0023
Task Order No: 0006

Date: 18 Jul 12

Schonstedt	4	10	40	Own
Camera, digital	1	10	10	Own
Range finder				
Lightning detector				
PDA/GPS	1	10	10	Rent
First aid kit	2	10	20	Own
Team gear	2	10	20	Own
Demo kit				
Site Safety Officer Kit				
Computer, laptop	1	10	10	Own
Computer, desktop				
Printer/copier/scanner/fax	1	10	10	Own
Telephone				
Cellular Telephones				

10. Discrepancies.

11. Guidance or Instructions Received From Client.

N/A

12. Attachment Summary.

N/A

13. Continuation/other.

N/A

14. Signature.

CERTIFICATION: I certify the above information is complete and correct and that I, 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.	
Ronald A. Mulvey	
Site Manager or SUXOS	Signature



Site Daily Production Report

Contract No: W912DY-10-D-0023
Task Order No: 0006

Date: 18 Jul 12

CAIS Kits Discovered			
Summary of today's work activities:			
Site shut down. All equipment de-mobed			

5. Inspections:

Inspection	Total Daily		Total Weekly		Total Project	
	Pass	Fail	Pass	Fail	Pass	Fail
Grids QC's	4		18		18	
Grids QA'd	4		18		18	
Trenches QC'd	3		3		3	
Trenches QA'd	3		3		3	

6. Explosive Usage:

Item	Quantity	Comments

7. MEC Summary:

Item	Grid	Classification			Disposition
		UXO	MPPEH	DMM	

8. Non-MEC Scrap (pounds).

Type	Daily Total (lbs)	Weekly Cumulative Total	Project Total
Munitions Debris (MD)			
Cultural Debris (CD)	10	13	13
Range Related Debris (RRD)			

9. Equipment Usage:

Item Description	Quantity	Hours (each)	Total Hours	Comments (Rent/Own)
Truck, Dodge, 1500,4x4	1	10	10	Rent
Car, Toyota	1	10	10	Rent



Site Daily Production Report

Contract No: W912DY-10-D-0023
Task Order No: 0006

Date: 18 Jul 12

Schonstedt	4	10	40	Own
Camera, digital	1	10	10	Own
Range finder				
Lightning detector				
PDA/GPS	1	10	10	Rent
First aid kit	2	10	20	Own
Team gear	2	10	20	Own
Demo kit				
Site Safety Officer Kit				
Computer, laptop	1	10	10	Own
Computer, desktop				
Printer/copier/scanner/fax	1	10	10	Own
Telephone				
Cellular Telephones				

10. Discrepancies.

11. Guidance or Instructions Received From Client.

N/A

12. Attachment Summary.

N/A

13. Continuation/other.

N/A

14. Signature.

CERTIFICATION: I certify the above information is complete and correct and that I, 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.	
Ronald A. Mulvey	
Site Manager or SUXOS	Signature

Field Safety Documentation

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HydroGeoLogic, Inc.

Heat Stress Monitoring Log

Site Name: Shilling AFB

Location: Salina KS

Date	Name	Start Time	Pulse Rate	Time	Pulse Rate								
7/17	S. TEW HILL	1130	96	1500	88								
7/17	R. MULVEY		76		92								
7/17	R. PAOLLETTI		80		88								
7/17	G. CAGLE		88		96								
7/17	J. KANSKI		100		120								
7/17	D. WEBER		94		96								
7/17	W. ZOW	—	84	—	88								
7/18	S. TEW HILL	1000	94	1300	90								
7/18	R. MULVEY		78		90								
7/18	R. PAOLLETTI		82		86								
7/18	G. CAGLE		88		98								
7/18	J. KANSKI		96		104								
7/18	D. WEBER		96		98								
7/18	W. ZOW	—	84	—	100								

Remarks/Comments:

Safety Meeting/Training Attendance Log

Date:	7/11/12	Time:	0800	Conducted by:	ROBERT PAOLETTI
Site Name/Location:	SHILLING KANSAS				
Contract Number:	W912DY-10-D-0023	Delivery/Task Order Number:	006		
Project Manager:	DAVID ASERI	Site Manager (when applicable):	NA		
(Senior) UXO Supervisor:	RON MULVEY	Site Safety Officer/Unexploded Ordnance Safety Health Officer:	ROBERT PAOLETTI		
Training Provided:	<input checked="" type="checkbox"/> Initial Site Hazard <input type="checkbox"/> Daily Safety Meeting <input type="checkbox"/> Other: <input type="checkbox"/> Weekly Safety Training <input type="checkbox"/> Task/Hazard Specific				

Weather Conditions: Temperature (Low/High): 66 to 89 °F Wind speed: 8 mph Precipitation: 08 %
 Fair Poor Direction: ENE Humidity: 53 %

I. TRAINING TOPICS COVERED

<input type="checkbox"/> Planned Site Activities	<input checked="" type="checkbox"/> Heat or Cold Stress	<input type="checkbox"/> Respirator Use
<input type="checkbox"/> Demolition Operations	<input type="checkbox"/> Biological Hazards	<input type="checkbox"/> Decontamination Procedures
<input checked="" type="checkbox"/> Site Controls	<input type="checkbox"/> Chemical Hazards	<input checked="" type="checkbox"/> Emergency Procedures/Route
<input type="checkbox"/> Exclusion Zone/Personnel Limits	<input type="checkbox"/> Routes of Chemical Exposure	<input checked="" type="checkbox"/> First Aid Procedures
<input checked="" type="checkbox"/> Site Communications	<input type="checkbox"/> Chemical Exposure Symptoms	<input type="checkbox"/> Buddy Team Procedures
<input checked="" type="checkbox"/> Physical Hazards	<input checked="" type="checkbox"/> Level/Type of PPE	<input type="checkbox"/> Other (describe topic(s) below)

Explain: _____

Hospital/Clinic:	Address:	Phone:
SALINA REGIONAL	400 S. SANTA FE AVE	785-452-7000

II. SITE PERSONNEL / TRAINING ATTENDEES (Continued on 2nd page)

	Name	Signature	Company
1.	David Iseri	<i>David Iseri</i>	HGL
2.	Ron Mulvey	<i>Ron Mulvey</i>	HGL
3.	Tiana Rasmussen	<i>Tiana Rasmussen</i>	HGL
4.	STEVEN M. TEWILL	<i>Steve T</i>	USA COE
5.			
6.			
7.			
8.			
9.			
10.			

III. SAFETY BRIEF / TRAINING VERIFICATION

I certify that the personnel listed on this roster have received the safety and health training described above.

<i>Ron Mulvey</i>	<i>Robert Paolotti</i>
Site Manager or Senior UXO Supervisor	Site Safety and Health Officer or UXO Safety Officer

Safety Meeting/Training Attendance Log

Date:	7/12/12	Time:	0600	Conducted by:	ROBERT FACCIOLI
Site Name/Location:	SHILLING RI. SALINA KS				
Contract Number:	W912DY-10-D-0023	Delivery/Task Order Number:	0006		
Project Manager:	DAVE ASIRI	Site Manager (when applicable):			
(Senior) UXO Supervisor:	RON MULVEY	Site Safety Officer/Unexploded Ordnance Safety Health Officer:	ROBERT FACCIOLI		
Training Provided:	<input type="checkbox"/> Initial Site Hazard	<input checked="" type="checkbox"/> Daily Safety Meeting	<input type="checkbox"/> Other:		
	<input type="checkbox"/> Weekly Safety Training	<input type="checkbox"/> Task/Hazard Specific			

Weather Conditions: Temperature (Low/High): 66 to 97 °F Wind speed: 5-7 mph Precipitation: 8 %
 Fair Poor Direction: S Humidity: 84 %

I. TRAINING TOPICS COVERED

<input checked="" type="checkbox"/> Planned Site Activities	<input checked="" type="checkbox"/> Heat or Cold Stress	<input type="checkbox"/> Respirator Use
<input type="checkbox"/> Demolition Operations	<input type="checkbox"/> Biological Hazards	<input type="checkbox"/> Decontamination Procedures
<input type="checkbox"/> Site Controls	<input type="checkbox"/> Chemical Hazards	<input type="checkbox"/> Emergency Procedures/Route
<input type="checkbox"/> Exclusion Zone/Personnel Limits	<input type="checkbox"/> Routes of Chemical Exposure	<input checked="" type="checkbox"/> First Aid Procedures
<input type="checkbox"/> Site Communications	<input type="checkbox"/> Chemical Exposure Symptoms	<input type="checkbox"/> Buddy Team Procedures
<input type="checkbox"/> Physical Hazards	<input checked="" type="checkbox"/> Level/Type of PPE	<input type="checkbox"/> Other (describe topic(s) below)

Explain: _____

Hospital/Clinic:	Address:	Phone:
SALINA REMEDIAL	400 S. STATE ST AVE	785-452-7000

II. SITE PERSONNEL / TRAINING ATTENDEES (Continued on 2nd page)

	Name	Signature	Company
1.	TEWHILL, STEVEN M.		USA 606
2.	TIANA RASMUSSEN		HGL
3.	RONALD MULVEY		HGL
4.			
5.			
6.			
7.			
8.			
9.			
10.			

III. SAFETY BRIEF / TRAINING VERIFICATION

I certify that the personnel listed on this roster have received the safety and health training described above.

Site Manager or Senior UXO Supervisor	Site Safety and Health Officer or UXO Safety Officer

Safety Meeting/Training Attendance Log

Date:	7/16/12	Time:	0700	Conducted by:	Robert Paoletti
Site Name/Location:	Shilling RI, Salina KS				
Contract Number:	W912DY-10-D-0023	Delivery/Task Order Number:	006		
Project Manager:	David Iseri	Site Manager (when applicable):			
(Senior) UXO Supervisor:	Ronald Mulvey	Site Safety Officer/Unexploded Ordnance Safety Health Officer:	Robert Paoletti		
Training Provided:	<input checked="" type="checkbox"/> Initial Site Hazard <input type="checkbox"/> Daily Safety Meeting <input type="checkbox"/> Other: <input type="checkbox"/> Weekly Safety Training <input type="checkbox"/> Task/Hazard Specific				

Weather Conditions: Temperature (Low/High): Wind speed: 9 mph Precipitation: 1 %
 Fair Poor 75 to 100 °F Direction: S Humidity: 50 %

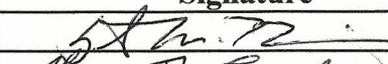
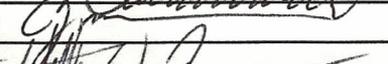
I. TRAINING TOPICS COVERED

- | | | |
|---|---|--|
| <input checked="" type="checkbox"/> Planned Site Activities | <input checked="" type="checkbox"/> Heat or Cold Stress | <input checked="" type="checkbox"/> Respirator Use |
| <input type="checkbox"/> Demolition Operations | <input checked="" type="checkbox"/> Biological Hazards | <input checked="" type="checkbox"/> Decontamination Procedures |
| <input checked="" type="checkbox"/> Site Controls | <input checked="" type="checkbox"/> Chemical Hazards | <input checked="" type="checkbox"/> Emergency Procedures/Route |
| <input checked="" type="checkbox"/> Exclusion Zone/Personnel Limits | <input type="checkbox"/> Routes of Chemical Exposure | <input checked="" type="checkbox"/> First Aid Procedures |
| <input checked="" type="checkbox"/> Site Communications | <input type="checkbox"/> Chemical Exposure Symptoms | <input checked="" type="checkbox"/> Buddy Team Procedures |
| <input checked="" type="checkbox"/> Physical Hazards | <input checked="" type="checkbox"/> Level/Type of PPE | <input type="checkbox"/> Other (describe topic(s) below) |

Explain: _____

Hospital/Clinic:	Address:	Phone:
Salina Regional Hospital	400 S. Santa Fe Ave, Salina KS	785-452-7000

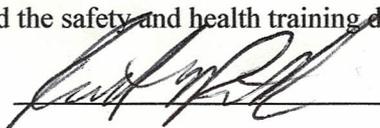
II. SITE PERSONNEL / TRAINING ATTENDEES (Continued on 2nd page)

	Name	Signature	Company
1.	Steven Tewhill		CARR (OESS) COE
2.	Gary Cagle		HGL
3.	Dawn Weber		HGL
4.	Jason Kanski		HGL
5.	William Zow		HGI
6.			
7.			
8.			
9.			
10.			

III. SAFETYBRIEF / TRAINING VERIFICATION

I certify that the personnel listed on this roster have received the safety and health training described above.


 Site Manager or Senior UXO Supervisor


 Site Safety and Health Officer or UXO Safety Officer

Safety Meeting/Training Attendance Log

Date:	6/17/2012	Time:	1100	Conducted by:	Robert Paoletti
Site Name/Location:	Shilling RI, Salina KS				
Contract Number:	W912DY-10-D-0023	Delivery/Task Order Number:	006		
Project Manager:	David Iseri	Site Manager (when applicable):			
(Senior) UXO Supervisor:	Ronald Mulvey	Site Safety Officer/Unexploded Ordnance Safety Health Officer:	Robert Paoletti		
Training Provided:	<input type="checkbox"/> Initial Site Hazard	<input checked="" type="checkbox"/> Daily Safety Meeting	<input type="checkbox"/> Other:		
	<input type="checkbox"/> Weekly Safety Training	<input type="checkbox"/> Task/Hazard Specific			

Weather Conditions: Temperature (Low/High): 88 to 100 °F Wind speed: 13 mph Precipitation: 4 %
 Fair Poor Direction: 5 Humidity: %

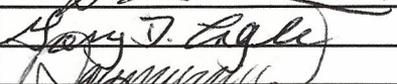
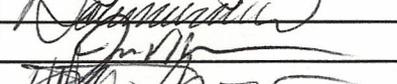
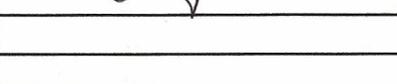
I. TRAINING TOPICS COVERED

<input checked="" type="checkbox"/> Planned Site Activities	<input checked="" type="checkbox"/> Heat or Cold Stress	<input type="checkbox"/> Respirator Use
<input type="checkbox"/> Demolition Operations	<input type="checkbox"/> Biological Hazards	<input type="checkbox"/> Decontamination Procedures
<input type="checkbox"/> Site Controls	<input checked="" type="checkbox"/> Chemical Hazards	<input type="checkbox"/> Emergency Procedures/Route
<input checked="" type="checkbox"/> Exclusion Zone/Personnel Limits	<input type="checkbox"/> Routes of Chemical Exposure	<input type="checkbox"/> First Aid Procedures
<input type="checkbox"/> Site Communications	<input type="checkbox"/> Chemical Exposure Symptoms	<input type="checkbox"/> Buddy Team Procedures
<input type="checkbox"/> Physical Hazards	<input checked="" type="checkbox"/> Level/Type of PPE	<input type="checkbox"/> Other (describe topic(s) below)

Explain: _____

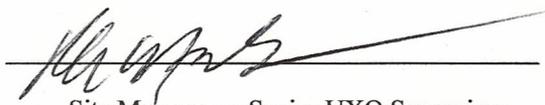
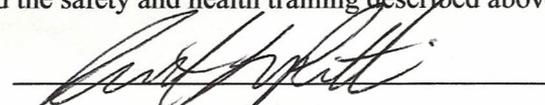
Hospital/Clinic:	Address:	Phone:
Salina Regional Hospital	400 S. Santa Fe Ave, Salina KS	785-452-7000

II. SITE PERSONNEL / TRAINING ATTENDEES (Continued on 2nd page)

	Name	Signature	Company
1.	Steven Tewhill		CARR (OESS)
2.	Gary Cagle		HGL
3.	Dawn Weber		HGL
4.	Jason Kanski		HGL
5.	William Zow		HGI
6.			
7.			
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III. SAFETY BRIEF / TRAINING VERIFICATION

I certify that the personnel listed on this roster have received the safety and health training described above.

	
Site Manager or Senior UXO Supervisor	Site Safety and Health Officer or UXO Safety Officer

Safety Meeting/Training Attendance Log

Date:	7/18/12	Time:	0600	Conducted by:	Robert Paoletti
Site Name/Location:	Shilling RI, Salina KS				
Contract Number:	W912DY-10-D-0023	Delivery/Task Order Number:	006		
Project Manager:	David Iseri	Site Manager (when applicable):			
(Senior) UXO Supervisor:	Ronald Mulvey	Site Safety Officer/Unexploded Ordnance Safety Health Officer:	Robert Paoletti		
Training Provided:	<input type="checkbox"/> Initial Site Hazard <input checked="" type="checkbox"/> Daily Safety Meeting <input type="checkbox"/> Other: <input type="checkbox"/> Weekly Safety Training <input type="checkbox"/> Task/Hazard Specific				

Weather Conditions: Temperature (Low/High): Wind speed: 11 mph Precipitation: 3 %
 Fair Poor 82 to 102 °F Direction: SSW Humidity: 40 %

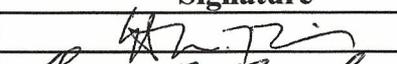
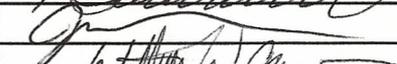
I. TRAINING TOPICS COVERED

- | | | |
|--|---|--|
| <input type="checkbox"/> Planned Site Activities | <input checked="" type="checkbox"/> Heat or Cold Stress | <input type="checkbox"/> Respirator Use |
| <input type="checkbox"/> Demolition Operations | <input type="checkbox"/> Biological Hazards | <input checked="" type="checkbox"/> Decontamination Procedures |
| <input type="checkbox"/> Site Controls | <input checked="" type="checkbox"/> Chemical Hazards | <input type="checkbox"/> Emergency Procedures/Route |
| <input type="checkbox"/> Exclusion Zone/Personnel Limits | <input type="checkbox"/> Routes of Chemical Exposure | <input type="checkbox"/> First Aid Procedures |
| <input type="checkbox"/> Site Communications | <input type="checkbox"/> Chemical Exposure Symptoms | <input type="checkbox"/> Buddy Team Procedures |
| <input type="checkbox"/> Physical Hazards | <input type="checkbox"/> Level/Type of PPE | <input type="checkbox"/> Other (describe topic(s) below) |

Explain: _____

Hospital/Clinic:	Address:	Phone:
Salina Regional Hospital	400 S. Santa Fe Ave, Salina KS	785-452-7000

II. SITE PERSONNEL / TRAINING ATTENDEES (Continued on 2nd page)

	Name	Signature	Company
1.	Steven Tewhill		CARR (OESS)
2.	Gary Cagle		HGL
3.	Dawn Weber		HGL
4.	Jason Kanski		HGL
5.	William Zow		HGL
6.			
7.			
8.			
9.			
10.			

III. SAFETY BRIEF / TRAINING VERIFICATION

I certify that the personnel listed on this roster have received the safety and health training described above.


 Site Manager or Senior UXO Supervisor


 Site Safety and Health Officer or UXO Safety Officer



Tailgate Safety Meeting Log

Date: 17 Jul 12	Time: 1100	Team No: 1
Site Name/Location: Shilling RI, Salina KS	Grid No: NA	

1. SAFETY TOPICS DISCUSSED:

<input type="checkbox"/> Site Description	<input type="checkbox"/> Environmental Concerns/Hazards
<input type="checkbox"/> Site Controls	<input type="checkbox"/> Emergency Procedures/Route
<input type="checkbox"/> Personal Protective Equipment	<input type="checkbox"/> First Aid Procedures
<input type="checkbox"/> Emergency Procedures / Equipment	<input type="checkbox"/> Injury Reporting
<input type="checkbox"/> Site Evacuation	<input type="checkbox"/> Safe Work Practices
<input type="checkbox"/> Physical/Biological Hazards	<input checked="" type="checkbox"/> Other:
<input type="checkbox"/> Heat or Cold Stress	<input type="checkbox"/> Other:
<input type="checkbox"/> Communication/Radio Procedure	<input type="checkbox"/> Other:

2. TASK OPERATION AND REMARKS:
 CAIS ID and Hazards

3. ATTENDEES:

	Print Name	Signature	Company
1.	Dawn Weber		HGL
2.	Jason Kanski		HGL
3.	William Zow		HGL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			

Meeting Conducted by: Gary Cagle	Signature:
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Tailgate Safety Meeting Log

Date: 18 Jul 12	Time: 0630	Team No: 1
Site Name/Location: Shilling RI, Salina KS	Grid No: NA	

1. SAFETY TOPICS DISCUSSED:

- | | |
|---|---|
| <input type="checkbox"/> Site Description | <input type="checkbox"/> Environmental Concerns/Hazards |
| <input type="checkbox"/> Site Controls | <input type="checkbox"/> Emergency Procedures/Route |
| <input type="checkbox"/> Personal Protective Equipment | <input type="checkbox"/> First Aid Procedures |
| <input type="checkbox"/> Emergency Procedures / Equipment | <input type="checkbox"/> Injury Reporting |
| <input type="checkbox"/> Site Evacuation | <input type="checkbox"/> Safe Work Practices |
| <input type="checkbox"/> Physical/Biological Hazards | <input type="checkbox"/> Other: |
| <input checked="" type="checkbox"/> Heat or Cold Stress | <input type="checkbox"/> Other: |
| <input type="checkbox"/> Communication/Radio Procedure | <input type="checkbox"/> Other: |

2. TASK OPERATION AND REMARKS:

3. ATTENDEES:

	Print Name	Signature	Company
1.	Dawn Weber		HGL
2.	Jason Kanski		HGL
3.	William Zow		HGL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			

Meeting Conducted by: Gary Cagle	Signature:
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HGL MR Form 15.19 (Nov 2007)

Daily Quality Control Reports

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Daily Quality Control Report

Report No.: 0001	Contract No.: W912DY-10-D-0023	Delivery/Task Order: 0006	Date: June 2012
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Site/Installation Name: Former Shilling AFB	City: Salina	State: KS	Date: 11 July 2012
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Weather:
 Clear Fog Cloudy Rain Snow Windy _____ mph

Temperature:
 Minimum: 62 °F Maximum: 92 °F

Employer:	Position:	Name:	Activity:
HGL	Project Manager	David Iseri	Management
	Site Manager		
HGL	Senior UXO Supervisor	Ron Mulvey	Management
HGL	Senior Geophysicist	Tiana Rasmussen	Field Activities
	Site Safety and Health Officer		
HGL	UXO Quality Control Specialist	Robert Paoletti	Management
HGL	UXO Safety Officer	Robert Paoletti	Management

Team ONE

Team TWO

Team THREE



Daily Quality Control Report

Team FOUR

Team FIVE

1. Work perform today:

Planted seed item, marked general area of anomalies and trenches and checked test strip.

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			Comments		
P	NA	Checked Certifications					
		Grid #	Grid #	Grid #	Grid #	Grid #	Grid #



Daily Quality Control Report

GRID INSPECTIONS PERFORM:							
QC inspections completed today:			QA inspections completed to date:				
Pass	Fail	Total	Pass	Fail	Total	Remaining	

DFOW:	Team (indicate by: UXO = U; or Geo = G; and No:			Pass	Fail	NA
Proper work attire (PPE)						
Equipment calibration check						
Vehicle condition						
Equipment condition						
Emergency equipment						
Proper grid layout						
Proper search techniques						
Team leader daily log						
SUXOS daily log						
GIS and map data						
Exclusion zone						
Field office interior						
Field office exterior						
Proper demolition operations						
Safety violations						

4. Soil samples taken:
Pre-Detonation: <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> None required Post-Detonation: <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> None required

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

6. Non-conformances/deficiencies reported:

7. Site safety monitoring activities performed today :	
HGL: PPE Level worn: Level D Safety violations observed: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	Subcontractor: PPE level worn: Safety violations observed <input type="checkbox"/> No <input type="checkbox"/> Yes

CERTIFICATION: <i>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.</i>	
Robert Paoletti Quality Control Specialist	 Signature



Daily Quality Control Report

Report No.: 0002	Contract No.: W912DY-10-D-0023	Delivery/Task Order: 0006	Date: June 2012
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Site/Installation Name: Former Shilling AFB	City: Salina	State: KS	Date: 12 July 2012
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Weather:
 Clear Fog Cloudy Rain Snow Windy _____ mph

Temperature:
 Minimum: 66 °F Maximum: 97 °F

Employer:	Position:	Name:	Activity:
HGL	Project Manager	David Iseri	Management
	Site Manager		
HGL	Senior UXO Supervisor	Ron Mulvey	Management
HGL	Senior Geophysicist	Tiana Rasmussen	Field Activities
	Site Safety and Health Officer		
HGL	UXO Quality Control Specialist	Robert Paoletti	Management
HGL	UXO Safety Officer	Robert Paoletti	Management

Team ONE

Team TWO

Team THREE



Daily Quality Control Report

Team FOUR

Team FIVE

1. Work perform today:
 Reacquired all anomalies.

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			Comments		
		Grid #	Grid #	Grid #	Grid #	Grid #	Grid #



Daily Quality Control Report

GRID INSPECTIONS PERFORM:							
QC inspections completed today:			QA inspections completed to date:				
Pass	Fail	Total	Pass	Fail	Total	Remaining	

DFOW:	Team (indicate by: UXO = U; or Geo = G; and No:			Pass	Fail	NA
Proper work attire (PPE)						
Equipment calibration check						
Vehicle condition						
Equipment condition						
Emergency equipment						
Proper grid layout						
Proper search techniques						
Team leader daily log						
SUXOS daily log						
GIS and map data						
Exclusion zone						
Field office interior						
Field office exterior						
Proper demolition operations						
Safety violations						

4. Soil samples taken:
Pre-Detonation: <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> None required Post-Detonation: <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> None required

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

6. Non-conformances/deficiencies reported:

7. Site safety monitoring activities performed today :	
HGL: PPE Level worn: Level D Safety violations observed: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	Subcontractor: PPE level worn: Safety violations observed <input type="checkbox"/> No <input type="checkbox"/> Yes

CERTIFICATION: <i>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.</i>	
Robert Paoletti Quality Control Specialist	 Signature



Daily Quality Control Report

Report No.: 0003	Contract No.: W912DY-10-D-0023	Delivery/Task Order: 0006	Date: June 2012
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Site/Installation Name: Former Shilling AFB	City: Salina	State: KS	Date: 16 July 2012
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Weather:			
Clear <input checked="" type="checkbox"/>	Fog <input type="checkbox"/>	Cloudy <input type="checkbox"/>	Rain <input type="checkbox"/> Snow <input type="checkbox"/> Windy <input type="checkbox"/> _____ mph
Temperature:			
Minimum: <u>66</u> °F		Maximum: <u>97</u> °F	

Employer:	Position:	Name:	Activity:
HGL	Project Manager	David Iseri	Management
	Site Manager		
HGL	Senior UXO Supervisor	Ron Mulvey	Management
HGL	Senior Geophysicist		
	Site Safety and Health Officer		
HGL	UXO Quality Control Specialist	Robert Paoletti	Management
HGL	UXO Safety Officer	Robert Paoletti	Management

Team ONE

HGL	UXO III	Gary Cagle	Team Leader
HGL	UXO II	Dawn Weber	Team Member
HGL	UXO II	Jason Kanski	Team Member
HGL	UXO II	William Zow	Team Member

Team TWO

Team THREE



Daily Quality Control Report

GRID INSPECTIONS PERFORM:							
QC inspections completed today:			QA inspections completed to date:				
Pass	Fail	Total	Pass	Fail	Total	Remaining	

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

4. Soil samples taken:

Pre-Detonation: No Yes None required

Post-Detonation: No Yes None required

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

6. Non-conformances/deficiencies reported:

7. Site safety monitoring activities performed today :

HGL: PPE Level worn: Level D Safety violations observed: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	Subcontractor: PPE level worn: Safety violations observed <input type="checkbox"/> No <input type="checkbox"/> Yes
---	---

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.*

Robert Paoletti	16 July 2012	
Quality Control Specialist	Date	Signature

Daily Quality Control Report

8. Remarks:

Eyewash station was delivered without saline solution. Company contacted and representative delivered solution to hotel.

PID would not calibrate. Rental company contacted about the problem; rental company is sending 2 replacement detectors.

Because of both items mentioned above, field activities were not able to be accomplished; team inspected the remainder of the equipment and prepped for deployment to the field.



Daily Quality Control Report

Report No.: 0004	Contract No.: W912DY-10-D-0023	Delivery/Task Order: 0006	Date: June 2012
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Site/Installation Name: Former Shilling AFB	City: Salina	State: KS	Date: 17 July 2012
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Weather:
 Clear Fog Cloudy Rain Snow Windy _____ mph

Temperature:
 Minimum: 75 °F Maximum: 105 °F

Employer:	Position:	Name:	Activity:
HGL	Project Manager	David Iseri	Management
	Site Manager		
HGL	Senior UXO Supervisor	Ron Mulvey	Management
HGL	Senior Geophysicist		
	Site Safety and Health Officer		
HGL	UXO Quality Control Specialist	Robert Paoletti	Management
HGL	UXO Safety Officer	Robert Paoletti	Management

Team ONE

HGL	UXO III	Gary Cagle	Team Leader
HGL	UXO II	Dawn Weber	Team Member
HGL	UXO II	Jason Kanski	Team Member
HGL	UXO II	William Zow	Team Member

Team TWO

Team THREE

Daily Quality Control Report

Team FOUR

Team FIVE

1. Work perform today:

Anomaly intrusive investigation

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			Comments	
I	UXO I	Equipment Preparation			PID operational	
I	UXO I	Equipment Preparation			Eye-wash station operational	
		Grid #	Grid #	Grid #	Grid #	Grid #

Daily Quality Control Report

GRID INSPECTIONS PERFORM:							
QC inspections completed today:			QA inspections completed to date:				
Pass	Fail	Total	Pass	Fail	Total	Remaining	
14		14					

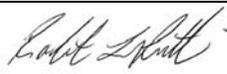
DFOW:	Team (indicate by: UXO = U; or Geo = G; and No:	Pass	Fail	NA
Proper work attire (PPE)	UXO	X		
Equipment calibration check	UXO	X		
Vehicle condition	UXO	X		
Equipment condition	UXO	X		
Emergency equipment	UXO	X		
Proper grid layout	NA			
Proper search techniques	NA			
Team leader daily log	NA		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

4. Soil samples taken:
Pre-Detonation: <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> None required Post-Detonation: <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> None required

5. Verbal instructions received by the Government representative or client and actions taken:
None

6. Non-conformances/deficiencies reported:

7. Site safety monitoring activities performed today :	
HGL: PPE Level worn: Level D Modified Safety violations observed: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	Subcontractor: PPE level worn: Safety violations observed <input type="checkbox"/> No <input type="checkbox"/> Yes

CERTIFICATION: <i>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.</i>		
Robert Paoletti	17 July 2012	
Quality Control Specialist	Date	Signature

Daily Quality Control Report

8. Remarks:

Eyewash station saline solution delivered. Eyewash fully functional.

2 replacement PID arrive and calibrate correctly.

USACE inspectors, Kevin Oates and John Sikes visited site to perform an audit of the operation; No discrepancies or suggested improvements were relayed or noted.

Completed 14 of 18 anomaly investigations with no discrepancies noted.



Daily Quality Control Report

Report No.: 0005	Contract No.: W912DY-10-D-0023	Delivery/Task Order: 0006	Date: June 2012
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Site/Installation Name: Former Shilling AFB	City: Salina	State: KS	Date: 18 July 2012
---	------------------------	---------------------	------------------------------

Weather:			
Clear <input checked="" type="checkbox"/>	Fog <input type="checkbox"/>	Cloudy <input type="checkbox"/>	Rain <input type="checkbox"/> Snow <input type="checkbox"/> Windy <input type="checkbox"/> _____ mph
Temperature:			
Minimum: <u>82</u> °F		Maximum: <u>105</u> °F	

Employer:	Position:	Name:	Activity:
HGL	Project Manager	David Iseri	Management
	Site Manager		
HGL	Senior UXO Supervisor	Ron Mulvey	Management
HGL	Senior Geophysicist		
	Site Safety and Health Officer		
HGL	UXO Quality Control Specialist	Robert Paoletti	Management
HGL	UXO Safety Officer	Robert Paoletti	Management

Team ONE

HGL	UXO III	Gary Cagle	Team Leader
HGL	UXO II	Dawn Weber	Team Member
HGL	UXO II	Jason Kanski	Team Member
HGL	UXO II	William Zow	Team Member

Team TWO

Team THREE



Daily Quality Control Report

Team FOUR

Team FIVE

1. Work perform today:

Anomaly intrusive investigation and pit excavations.

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			Comments		
		Grid #	Grid #	Grid #	Grid #	Grid #	Grid #



Daily Quality Control Report

GRID INSPECTIONS PERFORM:							
QC inspections completed today:			QA inspections completed to date:				
Pass	Fail	Total	Pass	Fail	Total	Remaining	
21		21					

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

4. Soil samples taken:
Pre-Detonation: <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> None required Post-Detonation: <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> None required

5. Verbal instructions received by the Government representative or client and actions taken:
None

6. Non-conformances/deficiencies reported:

7. Site safety monitoring activities performed today :	
HGL: PPE Level worn: Level D Modified Safety violations observed: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	Subcontractor: PPE level worn: Safety violations observed <input type="checkbox"/> No <input type="checkbox"/> Yes

CERTIFICATION: <i>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.</i>		
Robert Paoletti	17 July 2012	
Quality Control Specialist	Date	Signature

Daily Quality Control Report

8. Remarks:

Completed 18 of 18 anomaly investigations; nothing but CD recovered.

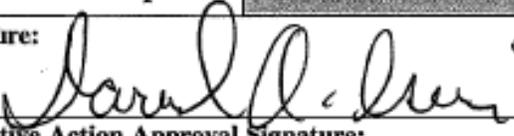
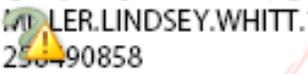
Completed 3 of 3 pit excavations; nothing but CD recovered.

Noncompliance and Corrective Action Report

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Noncompliance and Corrective Action Report

Report No.: H1006B-001	Site Name and Location: Schilling AFB Contract W912DY-10-D-0023 T.O. 0006	Gird No. (when required):
Prepared by: David A. Iseri	Position: Project Manager	Date: 7/27/12
Nonconformance		
Representative Notified: Lindsey Miller/Amv Walker	Date Notified:	Date Corrective Action Plan Due: 7/27/12 - No corrective Action
Description of the Nonconformance: The following procedure, which requires the use of a known control point, was not followed per the approved Work Plan: "4.8.2.2 GPS equipment will be tested against a known point to ensure that the position is within the appropriate offset (submeter accuracy). If a known GPS error is determined, reacquisition teams will note the need to search a large enough area (in addition to the potential original acquisition error using fiducials). These daily checks will be documented in the equipment calibration log (Appendix F)." All reacquisition was performed on 7/11/12 and 7/12/2012. On 7/11/2012 the GPS (Trimble GeoXH) was carried to known anomaly locations. The Geonics 858 magnetometer was then used to verify that an anomaly existed at that location. During the first verifications, no anomaly was observed at the coordinate location. It was determined, while searching in an outward radius from the coordinate location with the 858 instrument, that the GeoXH GPS coordinates were approximately 2 meters east of the actual coordinates and the anomaly location. The OESS verified this offset using his personal GPS. He also used an application on his cellular phone that confirmed the offset. From this point forward the field team went to the GPS location using the GeoXH and then offset approximately 2 meters to the west to find the anomalies with the 858. In all cases the anomalies were confirmed at this offset distance (both on 7/11/12 and 7/12/12). For the trenches, each trench was located using the GPS and location marked using this offset. In addition, the 858 confirmed the presence of numerous magnetic anomalies in the trench areas.		
Potential Harm: None known. Data quality objective to interrogate anomalies and area of magnetic clutter and determine if CAIS exists was met.		
Cause: Misunderstanding or unawareness of work plan requirement. Work Plan did not have a GPS-specific QC Form: Equipment calibration log provided in Work Plan (Appendix F) needs to be revised to be explicit to GPS equipment and required checks.		

Corrective Action Plan	
Corrective Actions: There is no known substantive affect on the project. Correct anomalies were interrogated as required. Trench locations were verified as being over areas of higher anomaly density as indicated in work plan. Site has demobilized. No corrective action deemed required at present.	
Actions to Prevent Recurrence: Each piece of critical measurement equipment to be used will be listed in readiness review. Specific QA/QC or calibration forms for each piece of equipment will be separate. Daily QC checklist will require listing of all critical measurement equipment and prompt for proper QC verification.	
Estimated Completion Date: N/A Work Complete	
Signature: 	Date: 30 July 2012
Corrective Action Approval Signature: N/A	Date:
Agency Representative Signature :  <small>Digitally signed by MILLER.LINDSEY.WHITT.1258490858 DN: cn=US, ou=U.S. Government, ou=DoD, ou=AF, ou=USA, cn=MILLER.LINDSEY.WHITT.1258490858 Date: 2012.07.31 07:50:35 -0500</small>	Date : 31 July 2012
Corrective Action Closure	
Comments:	
Approval Signature:	Date:

HGL MEC Form 15.13 (Oct 2010)

Weekly Safety Reports

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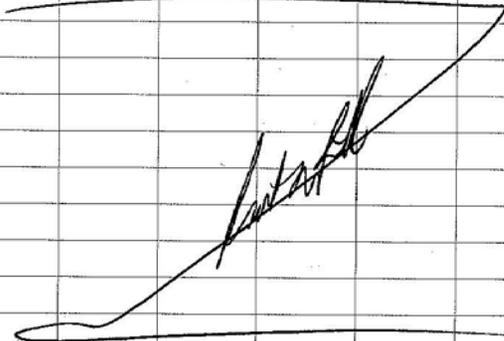
COPIES OF LOG BOOKS

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2 Location SALINA KS Date 7/11/12
 Project / Client SCHILLING RI
H1006B

WEATHER - 66-89°, HUM: 53, CLEAR
 PERSONNEL - PAUL AZELI, RON MURVEY, ROB PROCKETT,
 TIANA RASMUSSEN, STEVE TEWILL.

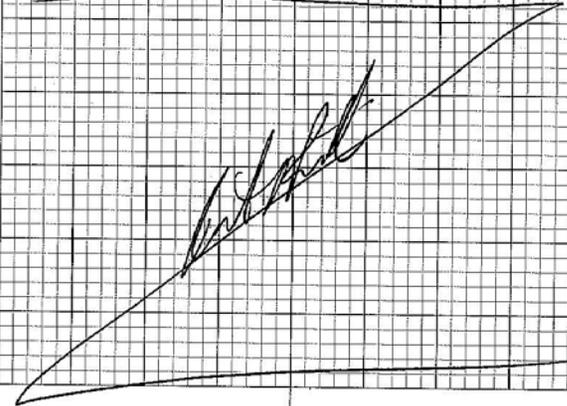
0700 - MEETING WITH CLIENT
 0800 - ON SITE, PREPARING SITE FOR
 SEED PLACEMENT.
 0900 - RELOCATING TRENCH AND
 ANOMALY LOCATIONS.
 * NOTICED AN APPROXIMATE 8-10'
 WESTERN OFFSET FROM WPS
 SPOT TO MARK HIT.
 1200 - LUNCH
 1230 - RELOCATING SEED (ALSO TOO
 HOT)
 1600 - OPS COMPLETE



3 Location SALINA KS Date 7/12/12
 Project / Client SCHILLING RI
H1006B Scale _____

WEATHER - 66-97°, HUM 87-30%, CLEAR
 PERSONNEL - RON MURVEY (SUVA),
 ROB PROCKETT (UXSO/OC), TIANA
 RASMUSSEN (HCO), STEVE TEWILL
 (OESS)

0900 - ON SITE, SAFETY BRIEFINGS
 GIVEN. BEGINNING REAC.
 1130 - LUNCH
 1200 - EXCAVATOR DELIVERED
 REARRANGED ALL ANOMALIES;
 DETERMINED #7 WAS A FALSE
 POSITIVE.
 1430 - OPS COMPLETE



4 Location SACINA KS Date 7/16/12
Project / Client SCHILLING R1
H100613

WEATHER: 67-101°, 60% RH, CLEAR
PERSONNEL: OESS - S. TEWHALE, SMOOS - R. MURPHY
UXOS0 - R. PASCALI, UXO III - G. CHUCK,
UXO II - J. KOPISKI, D. MESTER, W. ZORN
0600 - GENERAL MEET/GREET WITH SOB

DESCRIPTION.

0630 - FIT TESTING
0730 - EQUIPMENT CHECK OUT, VEHICLE
CHECK OUT.

NOTE - MISSING WATER SOLUTION FOR
EXHAUST.

NOTE - PROBLEM W/ PID; WILL
NOT CALIBRATE. REQUESTED
REPLACEMENT

1230 - OPS COMPLETE

5 Location SACINA KS Date 7/17/12
Project / Client SCHILLING R1
H100613 Scale

WEATHER: 75-100°, 60-45% RH, WINDY
GUSTS UP TO 25 MPH FROM THE SOUTH
PERSONNEL: SANNIE

0730 - ARRIVED AT SITE; INSTALLED
FLUID IN EXHAUST STATION
0830 - USACE REPS ARRIVE ON SITE;
CHECKED DOCUMENTATION AND
ASKED GENERAL QUESTIONS ABOUT
PROJECT.

1000 - USACE REPS DEPART SITE,
SMOOS DEPARTING TO PICK UP
EQUIPMENT.

1030 - TEAM ARRIVES ON SITE, LOADING
EQUIPMENT.
1130 - ON SITE; PULSE RATES TAKEN,
WBGT CALCULATED. SETTING UP
EMERGENCY DECONTAMINATION
STATION (EDS).

1300 - CONDUCTING WBGT CALCULATION.

1400 - CONDUCTING WBGT CALCULATION

1500 - CONDUCTING WBGT CALCULATION
AND HEAT EXHAUSTION TESTING.

1600 - CONDUCTING WBGT CALC.

1700 - CONDUCTING WBGT CALC.

6

Location SALINA KS Date 7/12/12
Project / Client SCHILLING RI
H1006B

1845 - STOPPING OPERATIONS.
PACKING EQUIPMENT
1930 - OPS COMPLETE

[Handwritten signature]

Location SALINA KS Date 7/18/12
Project / Client SCHILLING AFB RI
H1006B Scale

~~ON~~ WEATHER - 87-102°, WINDS U SSW
HUMIDITY 40.
PERSONNEL - SAME
0600 - ALL PERSONNEL ON SITE.
SAFETY BRIEFING GIVEN.
0630 - BEGINNING INTENSIVE OPS.
0830 - ANOMALY INVESTIGATION
COMPLETE. ALL ITEMS CD.
0845 - TRENCH OPERATION / SAFETY
BRIEFING.
0900 - ADJUSTED TEMP =
 $87 + (13 \cdot (40/100)) = 92.2$
TEAM DIRECTED TO WORK 45/15
1430 - TRENCH OPERATIONS
COMPLETE. ONLY CD RECOVERED.
1600 - OPS COMPLETE

[Handwritten signature]

8

Location SALINA KS Date 7/19/12
Project / Client SCHILLING RI
H1006B

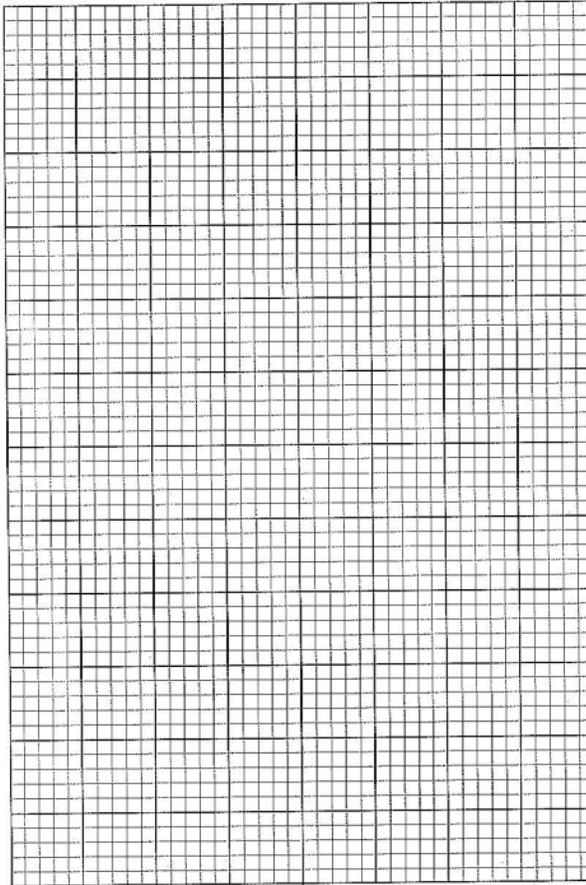
CONCLUDING COMMENTS

- ALL ANOMALIES INVESTIGATED RESULTED IN ONLY CD.
- ALL TRENCHES EXCAVATED RESULTED IN ONLY CD.
- ALL ANOMALIES AND TRENCHES WERE BACKFILLED TO ORIGINAL TERRAIN CONDITIONS.
- ALL CD WAS INSPECTED AND REPOSITED INTO ROLL OFF.
- NO MD, MEC, MPEH OR CWM/CAS ENCOUNTERED

[Signature] - *[Initials]*

9

Location _____ Date _____
Project / Client _____ Scale _____



2 Location Salina KS Date 7/11/2012
Project / Client Schilling Geophysics
notes by Tiana Rasmussen (TR)

0700 Rob Paolotti (R.P.)
Ron Mulvey (RM)
Dave Esari (DE)
Tiana Rasmussen (TR)
Prsnl meet @ hotel

0710 leave hotel to meet @
airport terminal.

0730 meeting @ terminal for site
controls w/ (st)
Steve Teuhill, Tim
Rogers and Kenny Becker.
-site access limited to
Water Well Rd.

0810 end meeting

0815 RP, RM, TR, DE and ST
mob. to site.

0825 arrive at site, gate P7
unload equip @ site bldg
(staging area)

0850 safety briefing w/R.P.

0910 RP & TR to site survey
area

0920 dig and place QC seed
after cleared w/Schmidst.

3 Location Salina KS Date 7/11/2012
Project / Client Schilling
notes by TR Geophys. Scale

QC seed location:
4292 834.44mN,
616035.58m E

1010 begin target locating

1130 complete prelim target
location of 19 targets
and 3 trenches.

1135 back to stage area

1140 lunch

1206 Mag 858 arrives.
Setup 858, CIN: 29930
Sensor 1: CIN: 0893

1340 begin QC check of Mag 858
File 1:
@ 12.5' south of QC seed
= 50300 Line 0
Line 1: retry static @ 12.5'S
= 52568.35 nT
Line 2: moved to 2.5'S
-no static
Line 3: @ 2.5'S = 55290
-stop recording, walk around
and field check
@ 12.5 S = 53543.80, 53545.80
@ 2.5 S = 56146 (not level)
-after running the 858
on observe, found an
anomaly buried close to
QC seed (pipeline)
-relocate QC seed item

4 Location Salina KS Date 7/11/2012
 Project / Client Schilling
notes by TR geophysics

1430 clear area w/ Mag 858
 bury QC seed item 6" below
 ground surface
 12.5' S = 53475, 53473
 2.5' S = 47530, 47506
 - QC seed location:
 4292845, 78N
 616032, 30 E (Mag 83)
 7.5' S = 53040, 53039
 - Record every 2.5' over QC
 seed (S - N)
 File 2:
 Line 0 = 12.5' S
 52471, 52470
 Line 1 = 10' S
 52455, 52454
 Line 2 = 7.5' S
 52596, 52597
 Line 3 = 5.0' S
 49630, 49543
 Line 4 = 2.5' S
 41953, 41125
 Line 5 = 0
~~12336, 161515, 62336~~ (4)
 49630, 49545 (4)

5 Location Salina KS Date 7/11/2012
 Project / Client Schilling
notes by TR geophysics Scale

Line 6 = 2.5' N
 56243, 56518
 Line 7 = 5' N
 53714, 52717
 Line 8 = 7.5' N
 52546, 52547
 Line 9 = 10.0' N
 52559, 52560
 For daily QC tests use 12.5' S
 and 5.0' S = difference of
~~9841NT~~ 2841NT = 568.0
 1550 return to stage area
 1601 leave site / end of day

~~Time Norm~~
 7/11/2012

6

Location Salina KS Date 7/12/12
Project / Client Schilling
notes by T.R. Geophysics

0600 morning safety briefing w/R.P.
0700 AM Mag 858 QC over

QC seed Test area.
In "Search Mode" 4/1'
sensor standoff height.

@ 12.5' S:

52488

Diff = 17 nT = good

@ 5' S:

50630 nT

Diff = 12.5 - 5' = 1858 nT

redo AM QC.

@ 12.5' S = 52493

@ 5' S = 50670

Diff = 1823

reboot, reconnect.

@ 12.5' S = 52488

@ 5.0' S = 50141

Diff = 2347 nT

within 20% of 2847 nT ✓

Begin Reacg.

Target No 1:

P = 5295T

T = 52591

7

Location Salina KS Date 7/12/12
Project / Client Schilling
geophysics TR Scale

Diff = 340 nT ✓
Reacg Target No. 2:

P = 52750 (P)

52715

T = 52540

Diff = 175 nT ✓

Target No 3:

P = 52750

T = 52670

Diff = 80

Target No 10:

P = 52680

T = 52610

Diff = 70 nT

Target No 5:

P = 52600 52520

T = 52460

Diff = 80 nT

Target No 4:

P = 52580

T = 52460

Diff = 120 nT

Target No 19:

P = 53320

T = 51915

Diff = 1405 nT

Target No 9:

P = 52604

T = 52445

Diff = 159 nT

8

Location Salina KS Date 7/12/12
Project / Client Schilling RT
geophysics notes: TR

Target No 11:

P: 56004

T: 53280

Diff = 2324 nT

Target No 8 @

P: 52920 @

T: 52710, 52410 P: 52920, 52510

Diff = 410 Diff = 210 n @ 5251 52410

Target No 8: No 7?

P: no find @ No. 7

T: TR

Diff =

Target No 6:

P: 35930

T: 35580

Diff = 350 nT

1100 lunch

1130 end lunch

1140 meet backhoe operator, mob

backhoe onsite

1200 RP & ST train on backhoe

1225 begin reacq.

Target No. 13:

TR

9

Location Salina KS Date 7/12/12
Project / Client Schilling RT
geophysics notes: TR Scale

P: 54004

T: 52653

Diff: 1353 nT

Target No. 12:

P: 56890 @

T: 52890

Diff: TR

Target No 15 @ 16

P: 54681

T: 52280

Diff = 2401 nT

Target No: 14

P: 55380

T: 52390

Diff = 2990 nT

Target No. 15:

P: 52055 780

T: 52175

Diff = 5605

Target No. 17

P: 35000 @ 60000

T: 35000

Diff: 25000

Target No. 18:

P: 57004

T: 54125

Diff: 2879

Record dataset 1 over Target No. 7.

File 1 Line 8 @ 1015

Line 1 @ 515

10

Location Salina KS Date 7/12/12
Project / Client Schilling RI
geophysics notes: TR

Line 2: @ 0'
Line 3: @ 5' N
Line 4: @ 10' N

1400 end of day @ C

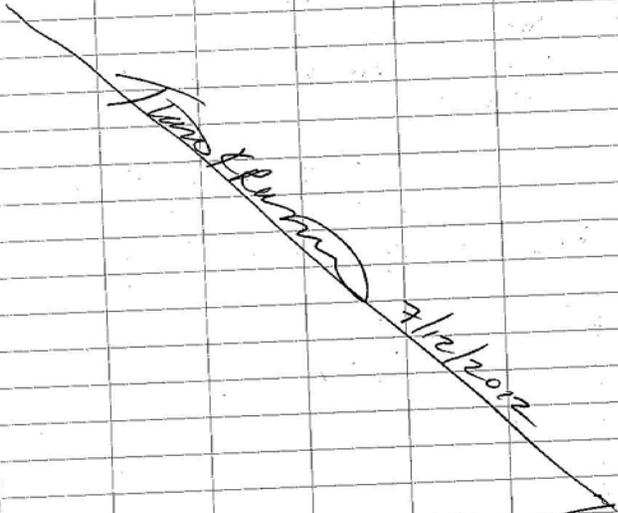
12S @ 5'S = 52438

@ 5'S = 50019

Diff = 2419 = good ✓

1420 unload equip @ staging area

1430 offsite. End ops.



11

Location Salina, KS Date 16 Jul 12
Project / Client Shilling RI. Scale

0600 Meet in Hotel parking lot.

0630 Mask fit test.

0700 Indoc Training.

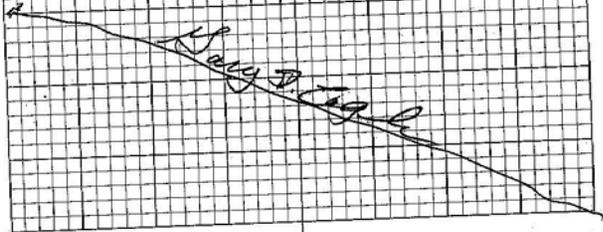
0730 Transit to work site.

0745 Began loading truck and testing equipment. PID failed to calibrate. Contacted rental company. Conducted training on Tremble. Installed Emergency Eye Wash in Shed.

1200 End of day due to PID Failure.

Weather: L 73 High 98 Sunny
winds S @ 10-15.

Personel: Jason Kanski, Woody Zou, Dawn Weber



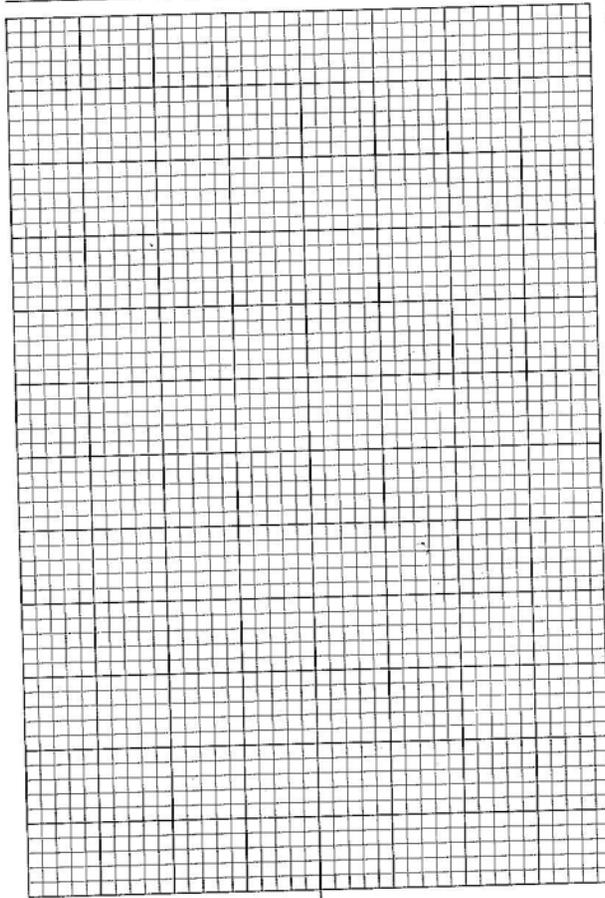
12

Location: Salina KS Date 17 Jul 12
Project / Client Schilling RI

1000 Received two PID's.
 1005 Tested PID's, Checked good
 1030 Loaded Truck
 1100 Daily Safety/operations
 brief.
 1130 Tailgate Safety brief.
 1145 Setup EPDS, Performed
 inspection of back hoe.
 Backup alarm non-functional
 Tested Shonstedts on test
 target, both test good.
 1230 Proceed down range
 1300 Uncover #1 dig cable approx
 8" long and 8" deep at
 anomaly 9.
 1330 Uncover 1/2" rebar in at
 anomaly 11 approx 10" deep
 left in place.

13

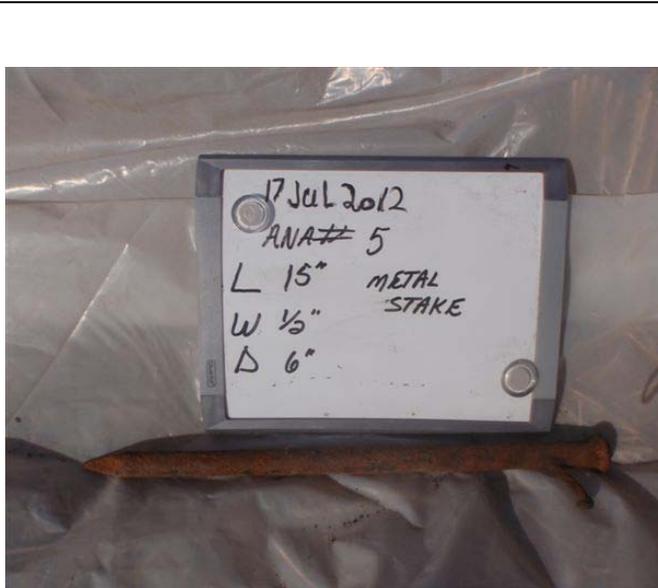
Location _____ Date _____
Project / Client _____ Scale _____



APPENDIX G
PROJECT PHOTOGRAPHS

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<p>Anomaly 1 – Concrete-filled pipe: remainder left in place</p>	<p>Anomaly 2 – Gear housing</p>
	
<p>Anomaly 3 – Pliers</p>	<p>Anomaly 4 - Railroad spike</p>



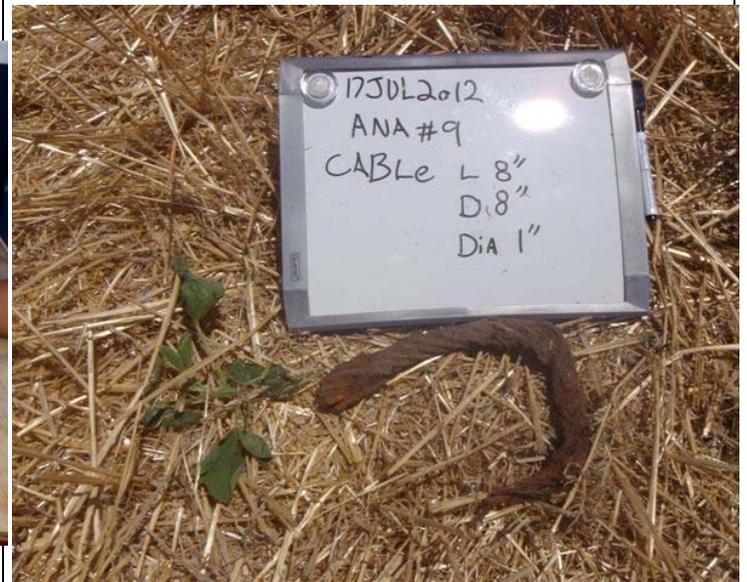
Anomaly 5 – Metal stake



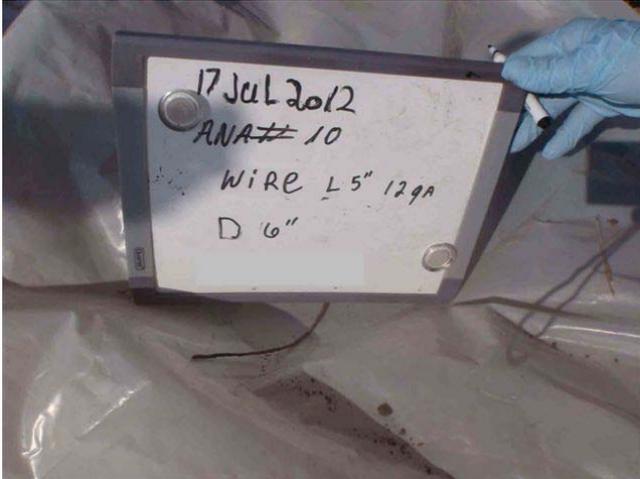
Anomaly 6 – Rebar



Anomaly 8 – Metal strap



Anomaly 9 – Metal cable

	
<p>Anomaly 10 – Metal wire</p>	<p>Anomaly 11 – Rebar: likely former transmission tower anchor</p>
	
<p>Anomaly 12 – Rebar: likely former transmission tower anchor</p>	<p>Anomaly 13 – Rebar: likely former transmission tower anchor</p>

	
<p>Anomaly 14 – Rebar: likely former transmission tower anchor</p>	<p>Anomaly 15 – Rebar: likely former transmission tower anchor</p>
	
<p>Anomaly 16 – Rebar: likely former transmission tower anchor</p>	<p>Anomaly 17 – Concrete footer: likely former transmission tower footer</p>



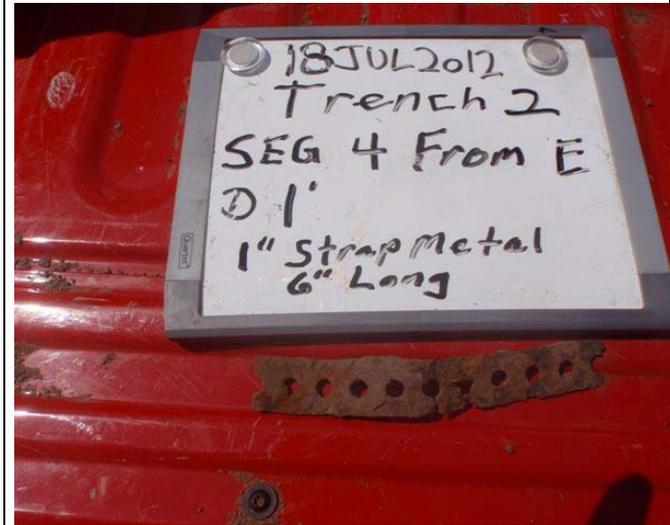
Anomaly 18 – Rebar: likely former transmission tower anchor

Anomaly 19 - Rebar



Trench 1 – Completed. Rusty flakes of metal were found in the spoils between in all of the 10' sections.

Trench 2 – Completed. Rusty flakes of metal were observed throughout the trench.

	
<p>Trench 2 – Metal strap recovered approximately 35 feet from east end of trench.</p>	<p>Trench 3 – Completed. Small rusty flakes of metal in areas of trench where cultural debris was not recovered.</p>
	
<p>Trench 3 – Electric motor part, metal tube, and wire found 10 feet from north end of trench.</p>	<p>Trench 3 – Bolt and nail recovered in the 10- to 20-foot segment from the north end of trench.</p>



Trench 3 – Bolt and nail recovered in the 20- to 30-foot segment from the north end of trench.

Quality control seed used for geophysics. Pipe is approximately 6 inches in diameter and 36 inches long (similar dimensions to CAIS shipping containers).



Reacquisition of anomalies using Geonics® 858.

Schonstedt® magnetometer used during at beginning of intrusive investigation.

APPENDIX H

MUNITIONS RESPONSE SITE PRIORITIZATION PROTOCOL SCORING SHEETS

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Table 1

EHE Module: Munitions Type Data Element Table

DIRECTIONS: Below are 11 classifications of munitions and their descriptions. Circle the scores that correspond with **all** the munitions types known or suspected to be present at the MRS.

Note: The terms practice munitions, small arms ammunition, physical evidence, and historical evidence are defined in Appendix C of the Primer.

Classification	Description	Score
Sensitive	<ul style="list-style-type: none"> u UXO that are considered likely to function upon any interaction with exposed persons (e.g., submunitions, 40mm high-explosive [HE] grenades, white phosphorus [WP] munitions, high-explosive antitank [HEAT] munitions, and practice munitions with sensitive fuzes, but excluding all other practice munitions). u Hand grenades containing energetic filler. u Bulk primary explosives, or mixtures of these with environmental media, such that the mixture poses an explosive hazard. 	30
High explosive (used or damaged)	<ul style="list-style-type: none"> u UXO containing a high-explosive filler (e.g., RDX, Composition B), that are not considered "sensitive." u DMM containing a high-explosive filler that have: <ul style="list-style-type: none"> n Been damaged by burning or detonation n Deteriorated to the point of instability. 	25
Pyrotechnic (used or damaged)	<ul style="list-style-type: none"> u UXO containing a pyrotechnic fillers other than white phosphorous (e.g., flares, signals, simulators, smoke grenades). u DMM containing pyrotechnic fillers other than white phosphorous (e.g., flares, signals, simulators, smoke grenades) that have: <ul style="list-style-type: none"> n Been damaged by burning or detonation n Deteriorated to the point of instability. 	20
High explosive (unused)	<ul style="list-style-type: none"> u DMM containing a high explosive filler that: <ul style="list-style-type: none"> n Have not been damaged by burning or detonation n Are not deteriorated to the point of instability. 	15
Propellant	<ul style="list-style-type: none"> u UXO containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). u DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor) that are: <ul style="list-style-type: none"> n Damaged by burning or detonation n Deteriorated to the point of instability. 	15
Bulk secondary high explosives, pyrotechnics, or propellant	<ul style="list-style-type: none"> u DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). u DMM that are bulk secondary high explosives, pyrotechnic compositions, or propellant (not contained in a munition), or mixtures of these with environmental media such that the mixture poses an explosive hazard. 	10
Pyrotechnic (not used or damaged)	<ul style="list-style-type: none"> u DMM containing a pyrotechnic fillers (i.e., red phosphorous), other than white phosphorous filler, that: <ul style="list-style-type: none"> n Have not been damaged by burning or detonation n Are not deteriorated to the point of instability. 	10
Practice	<ul style="list-style-type: none"> u UXO that are practice munitions that are not associated with a sensitive fuze. u DMM that are practice munitions that are not associated with a sensitive fuze and that have not: <ul style="list-style-type: none"> n Been damaged by burning or detonation n Deteriorated to the point of instability. 	5
Riot control	<ul style="list-style-type: none"> u UXO or DMM containing a riot control agent filler (e.g., tear gas). 	3
Small arms	<ul style="list-style-type: none"> u Used munitions or DMM that are categorized as small arms ammunition [Physical evidence or historical evidence that no other types of munitions (e.g., grenades, subcaliber training rockets, demolition charges) were used or are present on the MRS is required for selection of this category.] 	2
Evidence of no munitions	<ul style="list-style-type: none"> u Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present. 	<u>0</u>
MUNITIONS TYPE	DIRECTIONS: Record the single highest score from above in the box to the right (maximum score = 30).	<u>0</u>

DIRECTIONS: Document any MRS-specific data used in selecting the **Munitions Type** classifications in the space provided.

Sections 2.4 and 4.2 of the 2010 SI.

Table 10
Determining the EHE Module Rating

	Source	Score	Value	
<p>DIRECTIONS:</p> <p>1. From Tables 1–9, record the data element scores in the Score boxes to the right.</p> <p>2. Add the Score boxes for each of the three factors and record this number in the Value boxes to the right.</p> <p>3. Add the three Value boxes and record this number in the EHE Module Total box below.</p> <p>4. Circle the appropriate range for the EHE Module Total below.</p> <p>5. Circle the EHE Module Rating that corresponds to the range selected and record this value in the EHE Module Rating box found at the bottom of the table.</p> <p>Note: An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.</p>	Explosive Hazard Factor Data Elements			
	Munitions Type	Table 1	0	0
	Source of Hazard	Table 2		
	Accessibility Factor Data Elements			
	Location of Munitions	Table 3		0
	Ease of Access	Table 4		
	Status of Property	Table 5		
	Receptor Factor Data Elements			
	Population Density	Table 6		0
	Population Near Hazard	Table 7		
	Types of Activities/ Structures	Table 8		
	Ecological and /or Cultural Resources	Table 9		
	EHE MODULE TOTAL			<i>0</i>
	EHE Module Total		EHE Module Rating	
	92 to 100		A	
	82 to 91		B	
	71 to 81		C	
	60 to 70		D	
	48 to 59		E	
	38 to 47		F	
less than 38		G		
Alternative Module Ratings		Evaluation Pending		
		No Longer Required		
		No Known or Suspected Explosive Hazard		
EHE MODULE RATING		No Known or Suspected Explosive Hazard		

Table 11

CHE Module: CWM Configuration Data Element Table

DIRECTIONS: Below are seven classifications of CWM configuration and their descriptions. Circle the scores that correspond to all the CWM configurations known or suspected to be present at the MRS.

Note: The terms CWM/UXO, CWM/DMM, physical evidence, and historical evidence are defined in Appendix C of the Primer.

Classification	Description	Score
CWM, that are either UXO, or explosively configured damaged DMM	The CWM known or suspected of being present at the MRS is: <ul style="list-style-type: none"> ▫ CWM that are UXO (i.e., CWM/UXO). ▫ Explosively configured CWM that are DMM (i.e., CWM/DMM) that have been damaged. 	30
CWM mixed with UXO	<ul style="list-style-type: none"> ▫ The CWM known or suspected of being present at the MRS are undamaged CWM/DMM or CWM not configured as a munition that are commingled with conventional munitions that are UXO. 	25
CWM, explosive configuration that are undamaged DMM	<ul style="list-style-type: none"> ▫ The CWM known or suspected of being present at the MRS are explosively configured CWM/DMM that have not been damaged. 	20
CWM/DMM, not explosively configured or CWM, bulk container	The CWM known or suspected of being present at the MRS is: <ul style="list-style-type: none"> ▫ Nonexplosively configured CWM/DMM either damaged or undamaged ▫ Bulk CWM (e.g., ton container). 	15
CAIS K941 and CAIS K942	<ul style="list-style-type: none"> ▫ The CWM/DMM known or suspected of being present at the MRS is CAIS K941-toxic gas set M-1 or CAIS K942-toxic gas set M-2/E11. 	12
CAIS (chemical agent identification sets)	<ul style="list-style-type: none"> ▫ CAIS, other than CAIS K941 and K942, are known or suspected of being present at the MRS. 	10
Evidence of no CWM	<ul style="list-style-type: none"> ▫ Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS. 	<u>0</u>
CWM CONFIGURATION	DIRECTIONS: Record the single highest score from above in the box to the right (maximum score = 30).	<u>0</u>

DIRECTIONS: Document any MRS-specific data used in selecting the **CWM Configuration** classifications in the space provided.

The 2010 SI indicated that CAIS K941 and K942 were potentially used on site and could have been buried or remain in the site surface or subsurface soil. However, field investigations during the SI and RI confirmed that no MEC were present on site. Also, site soil was analyzed for CA/CBPs during the 2010 SI and there were no detections. For these reasons, there is no physical evidence at the site that CWMs are present.

Table 20
Determining the CHE Module Rating

	Source	Score	Value	
<p>DIRECTIONS:</p> <ol style="list-style-type: none"> From Tables 11–19, record the data element scores in the Score boxes to the right. Add the Score boxes for each of the three factors and record this number in the Value boxes to the right. Add the three Value boxes and record this number in the CHE Module Total box below. Circle the appropriate range for the CHE Module Total below. Circle the CHE Module Rating that corresponds to the range selected and record this value in the CHE Module Rating box found at the bottom of the table. <p>Note: An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.</p>	CWM Hazard Factor Data Elements			
	CWM Configuration	Table 11	0	0
	Sources of CWM	Table 12		
	Accessibility Factor Data Elements			
	Location of CWM	Table 13		0
	Ease of Access	Table 14		
	Status of Property	Table 15		
	Receptor Factor Data Elements			
	Population Density	Table 16		0
	Population Near Hazard	Table 17		
	Types of Activities/ Structures	Table 18		
	Ecological and /or Cultural Resources	Table 19		
	CHE MODULE TOTAL			<i>0</i>
	CHE Module Total		CHE Module Rating	
	92 to 100		A	
	82 to 91		B	
	71 to 81		C	
	60 to 70		D	
	48 to 59		E	
	38 to 47		F	
less than 38		G		
Alternative Module Ratings	Evaluation Pending			
	No Longer Required			
	No Known or Suspected CWM Hazard			
CHE MODULE RATING		No Known or Suspected CWM Hazard		

Table 21

HHE Module: Groundwater Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the maximum concentrations of all contaminants in the MRS's groundwater and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the ratios for each contaminant by dividing the maximum concentration by the comparison value. Determine the CHF by adding the contaminant ratios together, including any additional groundwater contaminants recorded on Table 27. Based on the CHF, use the CHF Scale to determine and display the CHF Value. If there is no known or suspected MC hazard present in the groundwater, select the box at the bottom of the table.

Note: Use dissolved, rather than total, metals analyses when both are available.

Contaminant	Maximum Concentration	Comparison Value	Unit	Ratios
CHF Scale	CHF Value	Sum The Ratios		
CHF > 100	H (High)	$CHF = \sum \frac{[\text{Maximum Concentration of Contaminant}]}{[\text{Comparison Value for Contaminant}]}$		
100 > CHF > 2	M (Medium)			
2 > CHF	L (Low)			
CONTAMINANT HAZARD FACTOR	DIRECTIONS: Record <u>the CHF Value</u> from above in the box to the right (maximum value = H).			
<u>Migratory Pathway Factor</u>				
DIRECTIONS: Circle the value that corresponds most closely to the groundwater migratory pathway at the MRS.				
Classification	Description	Value		
Evident	Analytical data or observable evidence indicates that contamination in the groundwater is present at, moving toward, or has moved to a point of exposure.	H		
Potential	Contamination in groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	M		
Confined	Information indicates a low potential for contaminant migration from the source via the groundwater to a potential point of exposure (possibly due to geological structures or physical controls).	L		
MIGRATORY PATHWAY FACTOR	DIRECTIONS: Record <u>the single highest value</u> from above in the box to the right (maximum value = H).			
<u>Receptor Factor</u>				
DIRECTIONS: Circle the value that corresponds most closely to the groundwater receptors at the MRS.				
Classification	Description	Value		
Identified	There is a threatened water supply well downgradient of the source and the groundwater is a current source of drinking water or source of water for other beneficial uses such as irrigation/agriculture (equivalent to Class I or IIA aquifer).	H		
Potential	There is no threatened water supply well downgradient of the source and the groundwater is currently or potentially usable for drinking water, irrigation, or agriculture (equivalent to Class I, IIA, or IIB aquifer).	M		
Limited	There is no potentially threatened water supply well downgradient of the source and the groundwater is not considered a potential source of drinking water and is of limited beneficial use (equivalent to Class IIIA or IIIB aquifer, or where perched aquifer exists only).	L		
RECEPTOR FACTOR	DIRECTIONS: Record <u>the single highest value</u> from above in the box to the right (maximum value = H).			
No Known or Suspected Groundwater MC Hazard				n
Table 21 Comments:				

Table 22

HHE Module: Surface Water – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the maximum concentrations of all contaminants in the MRS's surface water and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the ratios for each contaminant by dividing the maximum concentration by the comparison value. Determine the CHF by adding the contaminant ratios together, including any additional surface water contaminants recorded on Table 27. Based on the CHF, use the CHF Scale to determine and record the CHF Value. If there is no known or suspected MC hazard for human endpoints present in the surface water, select the box at the bottom of the table.

Note: Use dissolved, rather than total, metals analyses when both are available.

Contaminant	Maximum Concentration	Comparison Value	Unit	Ratios
CHF Scale	CHF Value	Sum The Ratios		
CHF > 100	H (High)	$CHF = \sum \frac{[\text{Maximum Concentration of Contaminant}]}{[\text{Comparison Value for Contaminant}]}$		
100 > CHF > 2	M (Medium)			
2 > CHF	L (Low)			
CONTAMINANT HAZARD FACTOR	DIRECTIONS: Record <u>the CHF Value</u> from above in the box to the right (maximum value = H).			
<u>Migratory Pathway Factor</u>				
DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.				
Classification	Description			Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.			H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.			M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to geological structures or physical controls).			L
MIGRATORY PATHWAY FACTOR	DIRECTIONS: Record <u>the single highest value</u> from above in the box to the right (maximum value = H).			
<u>Receptor Factor</u>				
DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.				
Classification	Description			Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.			H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.			M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.			L
RECEPTOR FACTOR	DIRECTIONS: Record <u>the single highest value</u> from above in the box to the right (maximum value = H).			
No Known or Suspected Surface Water (Human Endpoint) MC Hazard				n

Table 22 Comments:

Table 23

HHE Module: Sediment – Human Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the maximum concentrations of all contaminants in the MRS’s sediment and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the ratios for each contaminant by dividing the maximum concentration by the comparison value. Determine the CHF by adding the contaminant ratios together, including any additional sediment contaminants recorded on Table 27. Based on the CHF, use the CHF Scale to determine and record the CHF Value. If there is no known or suspected MC hazard with human endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration	Comparison Value	Unit	Ratios
CHF Scale	CHF Value	Sum The Ratios		
CHF > 100	H (High)	$CHF = \sum \frac{[\text{Maximum Concentration of Contaminant}]}{[\text{Comparison Value for Contaminant}]}$		
100 > CHF > 2	M (Medium)			
2 > CHF	L (Low)			
CONTAMINANT HAZARD FACTOR	DIRECTIONS: Record <u>the CHF Value</u> from above in the box to the right (maximum value = H).			
<u>Migratory Pathway Factor</u>				
DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.				
Classification	Description			Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.			H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.			M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to presence of geological structures or physical controls).			L
MIGRATORY PATHWAY FACTOR	DIRECTIONS: Record <u>the single highest value</u> from above in the box to the right (maximum value = H).			
<u>Receptor Factor</u>				
DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.				
Classification	Description			Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.			H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.			M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.			L
RECEPTOR FACTOR	DIRECTIONS: Record <u>the single highest value</u> from above in the box to the right (maximum value = H).			
No Known or Suspected Sediment (Human Endpoint) MC Hazard				n

Table 23 Comments:

Table 24

HHE Module: Surface Water – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the maximum concentrations of all contaminants in the MRS's surface water and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the ratios for each contaminant by dividing the maximum concentration by the comparison value. Determine the CHF by adding the contaminant ratios together, including any additional surface water contaminants recorded on Table 27. Based on the CHF, use the CHF Scale to determine and record the CHF Value. If there is no known or suspected MC hazard with ecological endpoints present in the surface water, select the box at the bottom of the table.

Contaminant	Maximum Concentration	Comparison Value	Unit	Ratios
CHF Scale	CHF Value	Sum The Ratios		
CHF > 100	H (High)	$CHF = \sum \frac{[\text{Maximum Concentration of Contaminant}]}{[\text{Comparison Value for Contaminant}]}$		
100 > CHF > 2	M (Medium)			
2 > CHF	L (Low)			
CONTAMINANT HAZARD FACTOR	DIRECTIONS: Record <u>the CHF Value</u> from above in the box to the right (maximum value = H).			
<u>Migratory Pathway Factor</u>				
DIRECTIONS: Circle the value that corresponds most closely to the surface water migratory pathway at the MRS.				
Classification	Description			Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure.			H
Potential	Contamination in surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.			M
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possibly due to presence of geological structures or physical controls).			L
MIGRATORY PATHWAY FACTOR	DIRECTIONS: Record <u>the single highest value</u> from above in the box to the right (maximum value = H).			
<u>Receptor Factor</u>				
DIRECTIONS: Circle the value that corresponds most closely to the surface water receptors at the MRS.				
Classification	Description			Value
Identified	Identified receptors have access to surface water to which contamination has moved or can move.			H
Potential	Potential for receptors to have access to surface water to which contamination has moved or can move.			M
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.			L
RECEPTOR FACTOR	DIRECTIONS: Record <u>the single highest value</u> from above in the box to the right (maximum value = H).			
No Known or Suspected Surface Water (Ecological Endpoint) MC Hazard				n
Table 24 Comments:				

Table 25

HHE Module: Sediment – Ecological Endpoint Data Element Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Record the maximum concentrations of all contaminants in the MRS's sediment and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the ratios for each contaminant by dividing the maximum concentration by the comparison value. Determine the CHF by adding the ratios together, including any additional sediment contaminants recorded on Table 27. Based on the CHF, use the CHF Scale to determine and record the CHF Value. If there is no known or suspected MC hazard with ecological endpoints present in the sediment, select the box at the bottom of the table.

Contaminant	Maximum Concentration	Comparison Value	Unit	Ratios
CHF Scale	CHF Value	Sum The Ratios		
CHF > 100	H (High)	$CHF = \sum \frac{[\text{Maximum Concentration of Contaminant}]}{[\text{Comparison Value for Contaminant}]}$		
100 > CHF > 2	M (Medium)			
2 > CHF	L (Low)			
CONTAMINANT HAZARD FACTOR	DIRECTIONS: Record <u>the CHF Value</u> from above in the box to the right (maximum value = H).			
<u>Migratory Pathway Factor</u>				
DIRECTIONS: Circle the value that corresponds most closely to the sediment migratory pathway at the MRS.				
Classification	Description			Value
Evident	Analytical data or observable evidence indicates that contamination in the sediment is present at, moving toward, or has moved to a point of exposure.			H
Potential	Contamination in sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.			M
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possibly due to presence of geological structures or physical controls).			L
MIGRATORY PATHWAY FACTOR	DIRECTIONS: Record <u>the single highest value</u> from above in the box to the right (maximum value = H).			
<u>Receptor Factor</u>				
DIRECTIONS: Circle the value that corresponds most closely to the sediment receptors at the MRS.				
Classification	Description			Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.			H
Potential	Potential for receptors to have access to sediment to which contamination has moved or can move.			M
Limited	Little or no potential for receptors to have access to sediment to which contamination has moved or can move.			L
RECEPTOR FACTOR	DIRECTIONS: Record <u>the single highest value</u> from above in the box to the right (maximum value = H).			
No Known or Suspected Sediment (Ecological Endpoint) MC Hazard				n
Table 25 Comments:				

Table 26**HHE Module: Surface Soil Data Element Table****Contaminant Hazard Factor (CHF)**

DIRECTIONS: Record the maximum concentrations of all contaminants in the MRS's surface soil and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the ratios for each contaminant by dividing the maximum concentration by the comparison value. Determine the CHF by adding the contaminant ratios together, including any additional surface soil contaminants recorded on Table 27. Based on the CHF, use the CHF Scale to determine and record the CHF Value. If there is no known or suspected MC hazard present in the surface soil, select the box at the bottom of the table.

Contaminant	Maximum Concentration	Comparison Value	Unit	Ratios
CHF Scale	CHF Value	Sum The Ratios		
CHF > 100	H (High)	$CHF = \sum \frac{[\text{Maximum Concentration of Contaminant}]}{[\text{Comparison Value for Contaminant}]}$		
100 > CHF > 2	M (Medium)			
2 > CHF	L (Low)			
CONTAMINANT HAZARD FACTOR	DIRECTIONS: Record <u>the CHF Value</u> from above in the box to the right (maximum value = H).			
Migratory Pathway Factor				
DIRECTIONS: Circle the value that corresponds most closely to the surface soil migratory pathway at the MRS.				
Classification	Description			Value
Evident	Analytical data or observable evidence indicates that contamination in the surface soil is present at, moving toward, or has moved to a point of exposure.			H
Potential	Contamination in surface soil has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.			M
Confined	Information indicates a low potential for contaminant migration from the source via the surface soil to a potential point of exposure (possibly due to presence of geological structures or physical controls).			L
MIGRATORY PATHWAY FACTOR	DIRECTIONS: Record <u>the single highest value</u> from above in the box to the right (maximum value = H).			
Receptor Factor				
DIRECTIONS: Circle the value that corresponds most closely to the surface soil receptors at the MRS.				
Classification	Description			Value
Identified	Identified receptors have access to surface soil to which contamination has moved or can move.			H
Potential	Potential for receptors to have access to surface soil to which contamination has moved or can move.			M
Limited	Little or no potential for receptors to have access to surface soil to which contamination has moved or can move.			L
RECEPTOR FACTOR	DIRECTIONS: Record <u>the single highest value</u> from above in the box to the right (maximum value = H).			
No Known or Suspected Surface Soil MC Hazard				n
Table 26 Comments:				

Table 27

HHE Module: Supplemental Contaminant Hazard Factor Table

Contaminant Hazard Factor (CHF)

DIRECTIONS: Only use this table if there are more than five contaminants in any given medium present at the MRS. This is a supplemental table designed to hold information about contaminants that do not fit in the previous tables. Indicate the media in which these contaminants are present. Then record all contaminants, their maximum concentrations and their comparison values (from Appendix B of the Primer) in the table below. Calculate and record the ratio for each contaminant by dividing the maximum concentration by the comparison value. Determine the CHF for each medium on the

Note: Dissolved, rather than total, metals analyses are used when both are available.

Media	Contaminant	Maximum Concentration	Comparison Value	Ratio
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Table 28

Determining the HHE Module Rating

DIRECTIONS:

1. Record the letter values (H, M, L) for the Contaminant Hazard, Migration Pathway, and Receptor Factors for the media (from Tables 21–26) in the corresponding boxes below.
2. Record the media’s three-letter combinations in the Three-Letter Combination boxes below (three-letter combinations are arranged from Hs to Ms to Ls).
3. Using the HHE Ratings provided below, determine each media’s rating (A-G) and record the letter in the corresponding Media Rating box below.

Media (Source)	Contaminant Hazard Factor Value	Migratory Pathway Factor Value	Receptor Factor Value	Three-Letter Combination (Hs-Ms-Ls)	Media Rating (A-G)
Groundwater (Table 21)					
Surface Water/Human Endpoint (Table 22)					
Sediment/Human Endpoint (Table 23)					
Surface Water/Ecological Endpoint (Table 24)					
Sediment/Ecological Endpoint (Table 25)					
Surface Soil (Table 26)					

DIRECTIONS (cont.):

4. Select the single highest Media Rating (A is highest; G is lowest) and enter the letter in the HHE Module Rating box.

Note:

An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more media, contamination at an MRS was previously addressed, or there is no reason to suspect contamination was ever present at an MRS.

HHE MODULE RATING

HHE Ratings (for reference only)

Combination	Rating
HHH	A
HHM	B
HHL	C
HMM	
HML	D
MMM	
HLL	E
MML	
MLL	F
LLL	G
Alternative Module Ratings	Evaluation Pending
	No Longer Required
	No Known or Suspected MC Hazard

Table 29
MRS Priority

DIRECTIONS: In the chart below, circle the letter rating for each module recorded in Table 10 (EHE), Table 20 (CHE), and Table 28 (HHE). Circle the corresponding numerical priority for each module. If information to determine the module rating is not available, choose the appropriate alternative module rating. The MRS Priority is the single highest priority; record this relative priority in the MRS Priority or Alternative MRS Rating at the bottom of the table.

Note: An MRS assigned Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. Only an MRS with CWM known or suspected to be present can be assigned Priority 1; an MRS that has CWM known or suspected to be present cannot be assigned Priority 8.

EHE Rating	Priority	CHE Rating	Priority	HHE Rating	Priority
		A	1		
A	2	B	2	A	2
B	3	C	3	B	3
C	4	D	4	C	4
D	5	E	5	D	5
E	6	F	6	E	6
F	7	G	7	F	7
G	8			G	8
Evaluation Pending		Evaluation Pending		Evaluation Pending	
No Longer Required		No Longer Required		No Longer Required	
<i>No Known or Suspected Explosive Hazard</i>		<i>No Known or Suspected CWM Hazard</i>		No Known or Suspected MC Hazard	
MRS PRIORITY or ALTERNATIVE MRS RATING				<i>No Known Or Suspected Hazard</i>	

APPENDIX I
TPP MEMORANDA

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U.S. Army Corps of Engineers

**Final Draft
Technical Project Planning Memorandum &
Associated Documentation**

In Support of

Remedial Investigation

Project Site:

**Gas Instruction Area
Former Schilling Air Force Base
Salina, Kansas**

Project No. BKS025607

December 2011

prepared for:

**U.S. Army Engineering and Support Center, Huntsville
and
U.S. Army Corps of Engineers, Kansas City District**

prepared by:

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**Contract No. W912DY-10-D-0023
Task Order No. 0006**

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Technical Project Planning Memorandum

Subject: Documentation of Technical Project Planning Project Team Concurrence for RI Project

Site: Gas Instruction Area MRS, Former Schilling Air Force Base, Salina, Kansas

Contract: Contract No. W912DY-04-D-0005, Delivery Order No. 006

Date: November 15, 2011

This document serves as a record of the Technical Project Planning (TPP) meeting for the Remedial Investigation (RI) of the Gas Instruction Area Munitions Response Site (MRS) associated with the former Schilling Air Force Base (AFB) in Salina, Kansas. The TPP Team members listed below indicated concurrence with the technical approach described during the TPP meeting held at the Salina Airport Terminal Conference Room in Salina, Kansas, on October 28, 2011.

HydroGeoLogic, Inc. (HGL) and U.S. Army Engineering and Support Center, Huntsville (USAESCH) technical experts had previously collaborated to develop an initial technical approach using available site information, including the 2010 Chemical Warfare Materiel (CWM) Site Inspection (SI) report and other pertinent documents. The initial technical approach (see Section 4) was provided to the stakeholders and discussed in detail at the TPP session; no significant changes to the initial technical approach were requested. The technical approach paper briefed during the TPP meeting will be utilized in the development of the site-specific RI work plan, which will be submitted to the project stakeholders for review.

The TPP meeting began at 0900 central time and, following introductions, HGL presented a summary of past Department of Defense (DoD) activities at the site and proposed RI activities (See Attachment A for TPP Meeting Presentation Slides). As part of the TPP process, discussions were held by participants regarding the proposed activities. Discussions were also held regarding the specific hazards associated with the chemical agent identification sets (CAISs) suspected of being on site (see Attachment B). See Figure 1 for the general location of the 19 anomalies and three test trenches. The TPP Team has agreed that the RI data collection efforts will include an investigation of the 19 anomalies identified during the SI digital geophysical mapping (DGM) survey as well as three test trenches. The three test trenches will be placed within the southern sector of the site to investigate the high subsurface anomaly concentration area identified during the SI phase.

Salina Airport officials suggested that the high anomaly concentration area may be due in part to a suspect buried grounding mesh network that would have been installed when the former radio tower was constructed in the area.

The TPP Team agreed that contingencies will be incorporated into the work plan following Army policy for incidental finds of chemical warfare materiel (CWM). Should CWM be found, the Army will perform emergency response actions to eliminate the immediate threat/hazard, the project will be reset as a CWM response, and the potential need for additional sampling will be assessed.

In addition to the TPP Team determinations stated above, the following specific issues and resolutions were noted:

- If no CWM or CAISs are found, a Feasibility Study will not be conducted (currently an optional task under the contract) and the Proposed Plan will focus on a no further action recommendation.
- If a CAIS is found, the Salina Airport Authority will be notified. If the CAIS is of the K941 variety, the contingency plan outlined in the work plan will be followed. If the CAIS is of the K951/K952 variety, HGL will manage and dispose of the products as hazardous waste following Army guidance.
- The current land use at the site is farming. No land use changes for the site are anticipated.
- The farming till depth of soil within the site is a maximum of 12 inches. It was mentioned that the crop cycle generally includes harvesting in June, with the spring months (April and May) being extremely wet. A suggestion was made to conduct the fieldwork shortly after the harvest of the winter wheat (i.e., June/July time frame).
- No endangered or threatened species or cultural/archeological sites are known to exist at the CWM SI location.
- Access to the site will have to be coordinated through the Salina Airport Authority. All field personnel will be required to attend a safety briefing provided by the airport prior to commencing field activities.

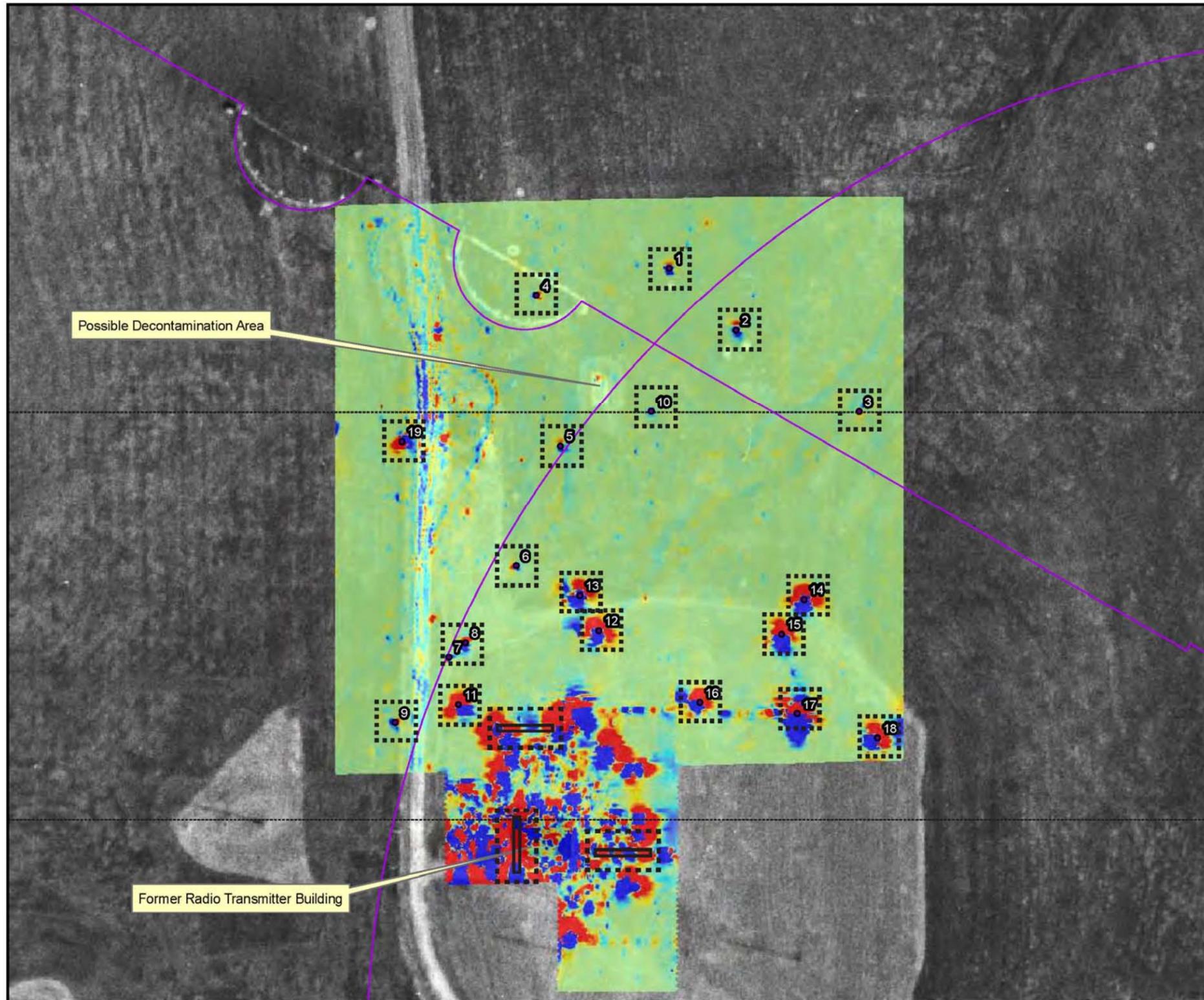
In conclusion, the project team agreed with the strategy presented for the site and concurred with the technical approach outlined for the RI. The technical approach will be further refined in the work plan, which will be made available to the stakeholders for review. The technical approach will not be modified without consultation with and agreement by the TPP Team members listed below. RI results will be fully documented in an RI report for TPP Team review.

The meeting concluded around 10:30 a.m. Following the meeting, TPP participants participated in a windshield tour of the former Schilling AFB Gas Instruction Area MRS to observe site conditions. The site is located within an active airport facility; therefore, the area is fenced and access is limited to authorized personnel.

TPP Participants:

Mr. Kurt Baer USACE, Kansas City District Project Manager	Ms. Lindsey Miller USAESCH Project Manager
Mr. Bruce Whisenant USAESCH Technical Manager	Mr. Kenny Bieker Salina Airport Authority Manager of Facilities & Construction
Mr. Travis Daneke Kansas Department of Health and Environment Project Manager	Mr. Gunner Whiles Salina Airport Authority Manger of Operations
Jonathan Sperka HGL Project Manager	Mr. Larry Hudgins AMEC Project Manager
Ms. Sara Mathews AMEC Risk Assessor	

Figure 1 - Schilling AFB Anomalies



Remedial Investigation Anomalies
Schilling Air Force Base
FUDS Project # B07KS0256
 Salina, Kansas

Legend

G858 - Response (nT)



Note:
 Locations 1 - 10 are possible CAIS shipping container
 Locations 11 - 19 are possible burial pits



Image Source: 1954 Aerial
 Projection: NAD 83 UTM Zone 14N



U.S. ARMY ENGINEERING
 & SUPPORT CENTER
 HUNTSVILLE, ALABAMA

DESIGNED BY: CR	Schilling Air Force Base	
DRAWN BY: CatB		
CHECKED BY: JC	SCALE: As Shown	PROJECT NUMBER: 745080
SUBMITTED BY: CatB	DATE: October 2011	PAGE NUMBER:
FILE: S:\E\Shared\CWM SI Program\SchillingGIS		

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Salina, Kansas
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Salina Airport Authority 3237 Arnold Ave. Salina, KS 67401	Mr. Gunnar Whiles Manager of Operations Email: gunnar@salair.org	(785) 827-3914 (785) 827-2221 fax

**Meeting Attendees
Salina Municipal Airport
28 October 2011
Gas Instructional Area MRS
Former Schilling Air Force Base
Salina, Kansas
RI Project**

Organization	Name / Attended	Telephone/Fax
U.S. Army Corps of Engineers Kansas City District (CENWK)	Mr. Kurt Baer Project Manager Email: kurt.h.baer@usace.army.mil	(816) 389-3922 (816) 389-2023 fax
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HGL	Mr. Jonathan Sperka Deputy Project Manager Email: jsperka@hgl.com	(703) 326-7863 (703) 471-4180 fax
Kansas Department of Health and Environment (KDHE)	Mr. Travis Daneke Project Manager Email: tdaneke@kdheks.gov	(785) 296-6378 (785) 296-4823 fax
Salina Airport Authority	Mr. Kenny Biecker Manager of Facilities & Construction Email: kennyb@salair.org	(785) 827-3914 (785) 827-2221 fax
Salina Airport Authority	Mr. Gunnar Whiles Manager of Operations Email: gunnar@salair.org	(785) 827-3914 (785) 827-2221 fax

1.0 INTRODUCTION

HydroGeoLogic, Inc. (HGL) has designed a technical approach to perform a Remedial Investigation (RI) for the Gas Instructional Area Munitions Response Site (MRS) on the former Schilling Air Force Base (AFB), a formerly used defense site (FUDS) (Site No. BKS025607) in Saline County, Kansas (see Figure 1). The purpose of the RI is gather sufficient data to (1) characterize the nature and extent of chemical warfare materiel (CWM) (including chemical agent identification sets [CAIS]) and chemical warfare agent / agent breakdown products CA/ABP contamination and (2) conduct a baseline risk assessment to quantify risk and CWM-related safety concerns to human health and the environment. The scope of the work also includes preparation of a Feasibility Study (FS) (if necessary), a Proposed Plan (PP), and a Decision Document (DD) pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

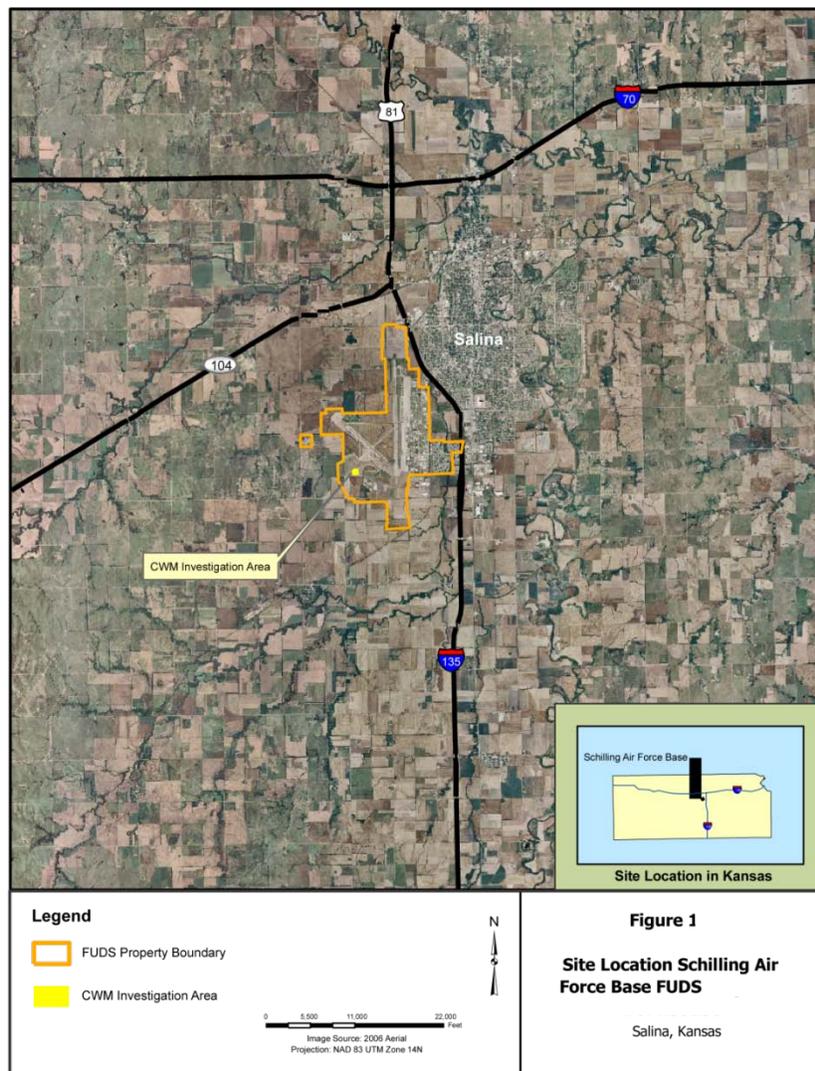


Figure 1 - Location of Project Site

HGL has reviewed the historical site-specific information provided by U.S. Army Engineering and Support Center Huntsville (USAESCH), including the 2010 CWM Site Inspection (SI)

report, as part of the development of the technical approach for the RI. The SI identified 19 anomalies of interest that have signatures similar to CAIS shipping containers (either a single or multiple containers). In addition to the 19 anomalies, the SI identified a high-anomaly-density area on the southern end of the survey area that extends to the former location of the radio transmitter building, which was leveled. The 2010 CWM SI concluded, based upon field observations and geophysical data, that the razing of the building is the cause of the high number of geophysical anomalies detected in the area.

The pathway analysis for CAIS is shown in Figure 2 where a potential pathway exists for subsurface CAIS and an incomplete pathway exists for surface CAIS as there have been no reports of surface finds from surface activities (i.e., farming). The focus of the RI will be to investigate 19 individual anomalies and to conduct test trenching in the high density subsurface anomaly area (i.e., southern portion of the site) identified during the 2010 SI digital geophysical mapping (DGM) survey that covered 6.4 acres. The purpose of the investigations is to determine if CAIS exists at the site and to confirm that the high anomaly concentration area in the southern portion of the site is debris from the radio tower as suspected. Environmental soil sampling conducted during the 2010 SI (20 soil samples collected from locations where contamination was most likely to be found) indicated that there were “no releases of CA to the Gas Instructional Area MRS” and “no potential for unacceptable risks to human health and/or the environment.” HGL’s approach for the RI follows this conclusion with a contingency for additional environmental sampling incorporated in the event that CWM is found.

The following provides a task-by-task discussion of the proposed technical approach for the RI. HGL understands that the technical approach may need to be updated based upon input from regulators and stakeholders.

2.0 PLANNING DOCUMENTS

Engineering Manual 200-1-2 was used to outline the Data Quality Objective (DQO) for the project which includes evaluating the presence / lack thereof of subsurface CAIS. The DQO worksheet from EM 200-1-2 is included as Figure 3. A work plan (WP) will be developed to describe the goals, methods, procedures, and personnel for the field investigation and data gathering activities needed to be meet the DQO. The WP will discuss the procedures necessary to characterize the nature and potential threat to human health and/or the environment posed by CWM and will address plans for assessing risk in accordance with (IAW) the U.S. Environmental Protection Agency (EPA) Risk Assessment Guidance (RAG).

The WP will contain the methodology to gather data to support the analysis and design of potential response actions by assessing the following factors:

- ✓ Physical and environmental characteristics of the property,
- ✓ Characteristics of the CWM (e.g., quantities, concentrations, toxicity, persistence, mobility, depth, nature and extent, etc.),
- ✓ Actual and potential pathways through environmental media,
- ✓ Actual and potential exposure routes, and
- ✓ Other factors to support the analysis of potential remedial action alternatives.

Figure 2

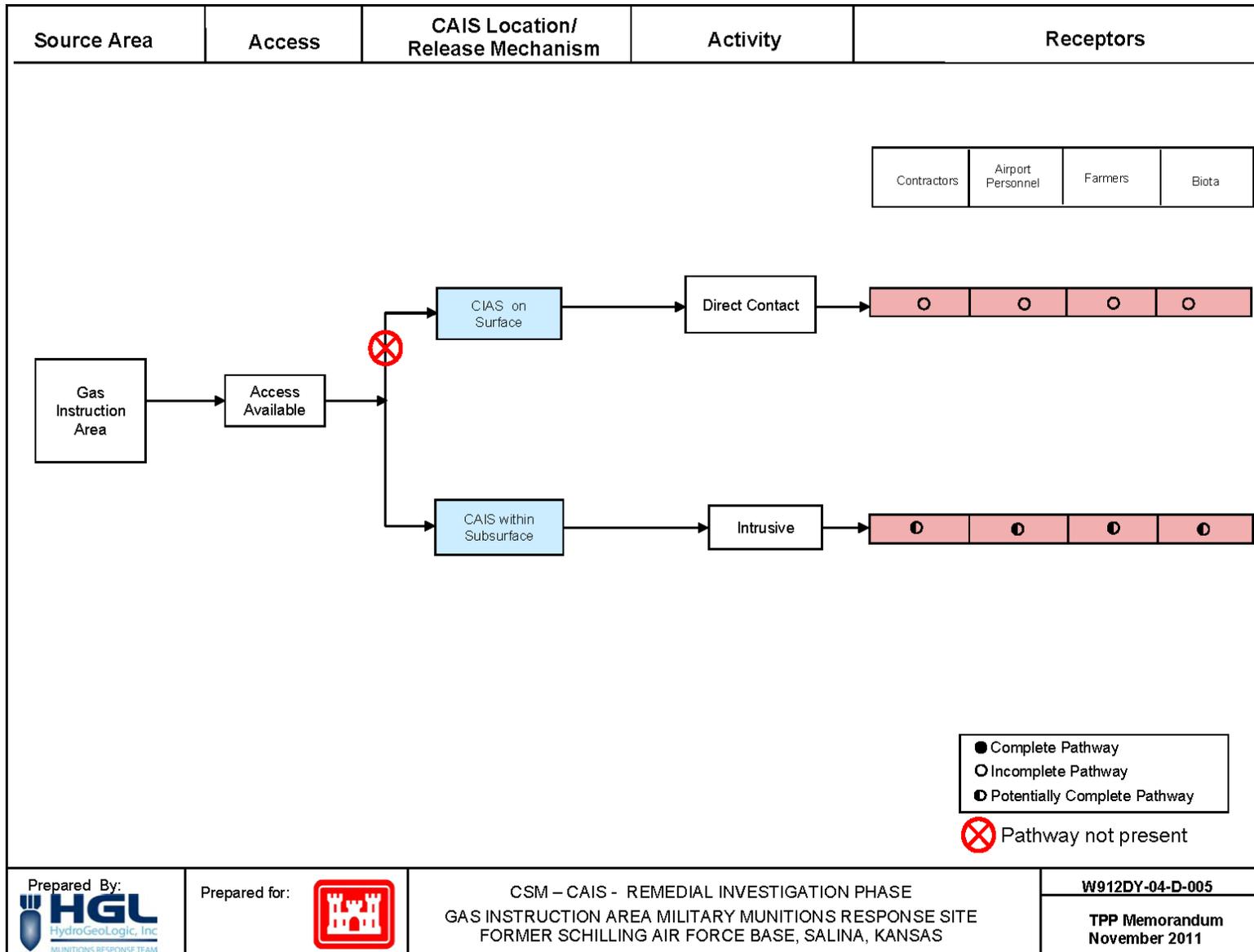


Figure 3

Data Quality Objective (DQO) Worksheet (EM200-1-2)

Site: Gas Instruction Area Munitions Response Site (MRS)

Project: Former Schilling Air Force Base (AFB), Salina, Kansas

DQO Statement Number: 1 of 1

DQO Element Number ⁽¹⁾	DQO Element Description ⁽¹⁾	Site-Specific DQO Statement
Intended Data Use(s):		
1	Project Objective(s) Satisfied	Evaluate presence/lack thereof of subsurface Chemical Agent Identification Sets (CAIS).
Intended Need Requirements:		
2	Data User Perspective(s)	Risk, Remedy
3	Contaminant or Characteristic of Interest	CAIS - K951/952 and K941 varieties. Small amounts of Mustard (H), and Lewisite (L) are associated with the CAIS types suspected at the site
4	Media of Interest	N/A
5	Required Locations or Areas	Subsurface magnetic targets identified during the SI DGM survey (i.e., 19 targets) and the high concentration anomaly area in the southern sector of the site.
6	Number of Samples Required	19 targets + 3 test trenches.
7	Reference Concentration of Interest or Other Performance Criteria	Intrusive Investigation in areas cited above.
Appropriate Sampling and Analysis Methods:		
8	Sampling Method	Intrusive Investigation.
9	Analytical Method	N/A

⁽¹⁾ Refer to EM 200-1-2, Para. 4.2.1

If CWM is recovered from the area, an FS may be executed to identify Applicable or Relevant and Appropriate Requirements (ARARs), Preliminary Remediation Goals (PRGs), and Remedial Action Objectives (RAOs) as well as to screen various technologies for the development of remedial alternatives. If CWM is not found, the FS option will not be executed and the goal will be to close out the site following the CERCLA process (i.e., PP, DD with no remediation required).

As part of the planning effort, HGL prepared a draft CWM probability assessment IAW “Chemical Warfare Materiel Response and Related Activities, Interim Guidance,” dated April 1, 2009. The draft assessment concluded that the probability of encountering CWM was “unlikely,” symbol “E.” The CWM probability assessment requires signature by the District Commander or his representative before it can be finalized. Assuming that the CWM probability does not change from the unlikely (symbol E) rating, the RI will not be conducted as a CWM response; rather, contingencies will be incorporated into the WP in the event that CWM is found. The contingencies are discussed further in Section 4.8.

3.0 MANAGEMENT OF GEOGRAPHIC INFORMATION SYSTEM DATA

HGL will develop an initial conceptual site model (CSM) with geographic information system (GIS) software based upon data available for the project site. GIS project data will be managed IAW Contract Data Item Description (DID) MR-005-07.01, Engineering Manual (EM) 200-1-2, EM 1110-1-4009, and applicable Interim Guidance Documents (IGDs). The GIS will be used to update the CSM as data are collected and analyzed throughout the project. The GIS will incorporate geospatial data and other information in the geodatabase provided by USAESCH as U.S. Government-furnished information. A pre-RI version of the CSM will be included in the WP. After the RI fieldwork has been completed, the results of the fieldwork will be incorporated into the GIS database and CSM. These results will include the location of CAISs and CWM-related items found during the investigation. At the conclusion of the project, the geodatabase will be delivered to the USAESCH in its native ArcGIS electronic format.

4.0 FIELD ACTIVITIES

HGL will develop and implement a detailed site-specific health and safety plan and ensure that all field personnel have the required Occupational Safety and Health Administration training and meet Department of Defense Explosive Safety Board (DDESB) standards for their respective positions/roles. Safety training will include daily tailgate safety briefs as well as site-specific safety training provided by HGL’s on-site Unexploded Ordnance (UXO) Safety Officer (UXOSO) who is experienced in CAIS removal / remediation projects. HGL’s safety plan will also include specifics on personnel protection equipment (PPE) and an on-site field decontamination station to support intrusive activities.

The field activities planned for the RI include the following tasks:

- ✓ Site preparation,
- ✓ Anomaly reacquisition,

- ✓ Anomaly investigation,
- ✓ CAIS accountability,
- ✓ Hazardous waste disposal, and
- ✓ Backfilling/site restoration.

These tasks are described in more detail below.

4.1 SITE PREPARATION

Minimal vegetation clearance will be required to support RI field activities. Several areas of the site contain surface debris including metal and building debris. An example of a surface debris area within the Instructional Gas Area MRS is shown in Figure 4.



Figure 4 - Example of Surface Debris at the Project Site

The areas identified for investigation (i.e., the 19 SI anomalies and the three test trenches) will be cleared of surface debris and vegetation. Low-lying vegetation and ground cover that does not impede a UXO technician's view of the ground surface or the investigation team's ability to safely traverse the area will be left in place. All debris and vegetation cleared from the site will be screened by one of HGL's UXO technicians to ensure that it does not contain CAIS or CAIS related material.

4.2 ANOMALY REACQUISITION

The location of the 19 anomalies identified in the 2010 SI (Appendix I) will be marked using a post-processed kinematic (PPK) global positioning system (GPS) unit (Trimble GeoXH or similar) capable of sub-meter accuracy. PPK GPS is preferred over real-time kinematic (RTK) GPS because the adjacent airport has requested that radio signal broadcasting not be conducted. RTK GPS relies on radio signal broadcasting, whereas PPK GPS does not. The anomaly flagging team will use a Geometrics G858 magnetometer system (or similar technology) to verify the target location. The technician operating the G858 system will first verify that the location has an anomaly approximating the magnitude reported on the dig sheet, and then locate the central peak of the anomaly by doing a sweep at right angles to the survey line with the G858. Anomalies,

including the calculated boundaries of the anomalies, will be flagged using nonmetallic pin flags. The anomaly reacquisition team will also mark the locations for the three test trenches in the southern portion of the site.

4.3 ANOMALY INVESTIGATION

The HGL field teams made up of UXO technicians trained and experienced in CWM/CAIS removals and hazardous toxic waste (HTW) technicians will utilize manual methods (i.e., digging with handheld tools) to investigate shallow targets down to approximately 2 feet below ground surface (bgs) and mechanized equipment (e.g., a track-hoe) to investigate anomalies deeper than 2 feet bgs. During manual and mechanized methods, the excavated soil will be placed onto plastic sheeting. Observers will watch for signs of CAIS including CAIS vials and/or shipping containers within the excavation and removed spoils. The observers will be in a position to halt excavation activities using hand signals in the case of any finds. Spoils piles from individual interrogations will be segregated to prevent potential cross-contamination.

The HGL field teams will maintain a minimum safe separation distance from each other during the intrusive activities. The UXOSO will be positioned on the rear and upwind side of the excavation area for observation.

Upon uncovering a target anomaly, the UXO technician team leader will positively identify the anomaly as CAIS, CAIS-related debris/scrap, or cultural debris. If CAIS, a positive determination will be made on its type through visual means. CAIS determined to be K951/K952 will be managed and treated by HGL as HTW per Army Guidance. CAIS determined to be CWM (i.e., K941) will be managed by the Army as an emergency response. Once the team clears each anomaly, the hole will be checked with a magnetic locator (Schonstedt GA-52cx) to ensure that no additional anomalies remain. Once clear of anomalies, the location will be marked for quality assurance (QA) review by the U.S. Army Corps of Engineers (USACE) Ordnance and Explosives Safety Specialist (OESS).

4.4 CAIS ACCOUNTABILITY

HGL will be responsible for the separation and collection of recovered chemical warfare materiel (RCWM)-related scrap. A detailed accounting of all RCWM materiel will be maintained by HGL. Data will include amounts, nomenclatures, locations, depths, digital photographs, and final disposition data.

HGL will manage and treat K951/K952 CAIS components as hazardous waste IAW the provisions of Appendix K, Treatment of Chemical Agent Identification Sets as Hazardous Waste, Interim Guidance, Chemical Warfare Materiel Responses and Related Activities, dated April 1, 2009.

Incidental finds of CWM including K941 CAIS will be managed by the Army as an emergency response. HGL will assist the Army as needed in the overpacking/packaging of glassware and items identified or suspected of containing chemical agents. HGL personnel will be responsible for opening non-suspect RCWM containers, collecting samples, and having them analyzed. HGL

will be responsible for screening other debris and containerizing potentially contaminated soils generated during the intrusive investigation.

4.5 HAZARDOUS WASTE DISPOSAL

HGL will manage and treat K951/K952 CAIS components as hazardous waste IAW the provisions of Appendix K, Treatment of Chemical Agent Identification Sets as Hazardous Waste, Interim Guidance, CWM Responses and Related Activities, dated April 1, 2009. Recovered K951/K952 CAIS and any waste, including secondary wastes, will be characterized and shipped as hazardous waste. HGL will be responsible for proper labeling, manifesting, transporting, and disposing of all waste IAW applicable federal, state and local laws and regulations.

4.6 ENVIRONMENTAL SAMPLING

During the 2010 CWM SI, 20 soil samples (plus 2 duplicates) were collected from biased locations to determine the presence of CA/ABP. Ten soil samples were collected within a grid-based pattern positioned over the location of the former gas instruction building. Ten additional samples were collected within the vicinity of the Gas Instruction Area MRS. Samples were collected from 12 to 16 inches bgs. All samples collected were analyzed for mustard, mustard breakdown products (1,4-dithiane and 1,4-thioxane), and Lewisite (inclusive of 2-chlorovinyl arsenious acid and 2-chlorovinyl arsenious oxide). The analytical results of the samples indicated that there had been no releases of CA/ABP to the Gas Instruction Area MRS. These results exhibit no potential for unacceptable risks to human health and the environment resulting from exposure to MCs in soil within this investigation area. The pathway analysis for CA/ABP based upon these results included as Figure 5.

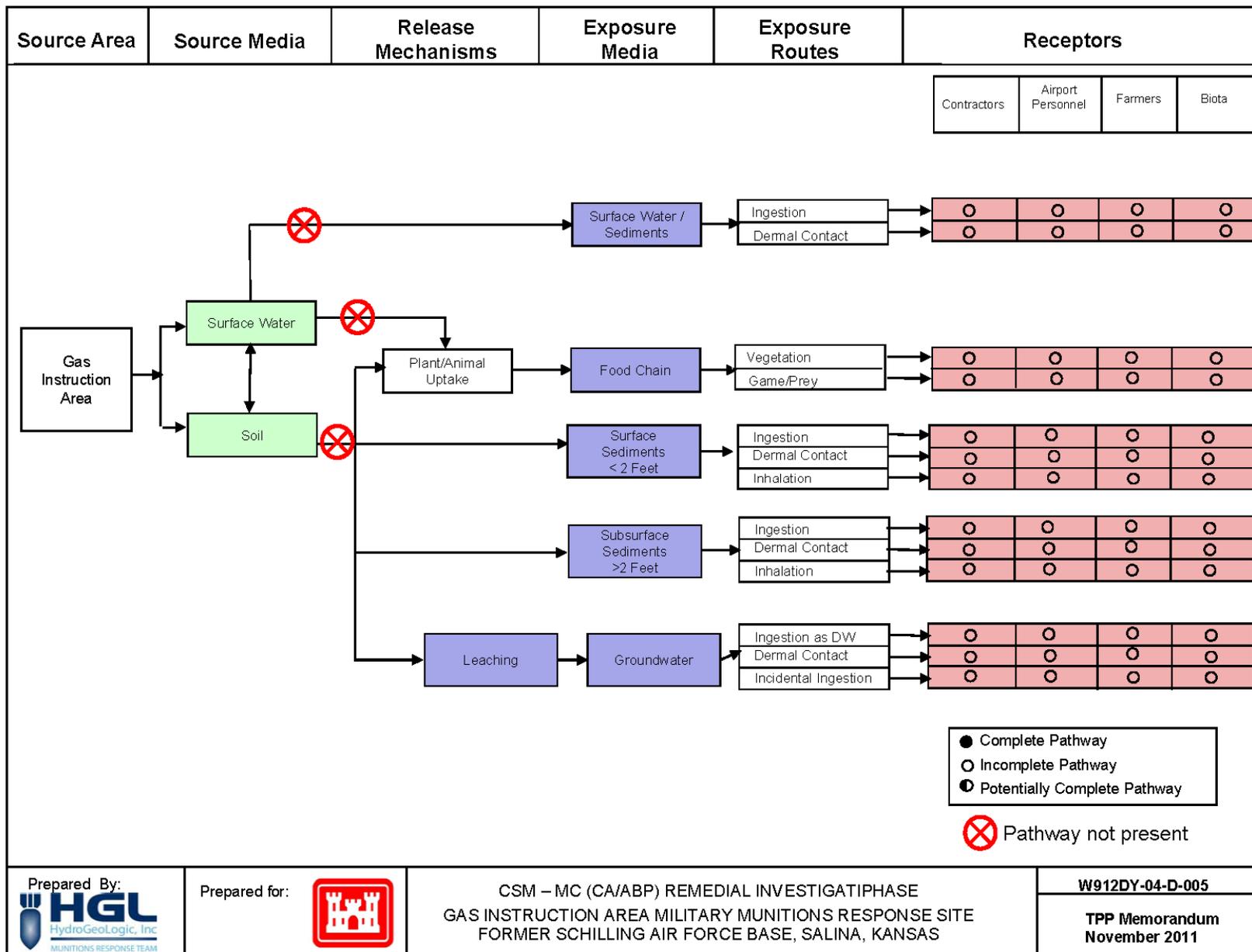
4.7 BACKFILLING/SITE RESTORATION

Prior to demobilization from the site, HGL will backfill any excavation holes with either the overburden removed, if not suspect or potentially contaminated, or with clean fill, as appropriate, and restore (e.g., re-grade, re-seed) the site to its original pre-investigation condition.

4.8 CWM CONTINGENCIES

Although CWM is not anticipated, contingencies for CWM will be included in the WP. These contingencies will include providing an emergency response to any CWM finds. Following the emergency response, the project will continue as a CWM RI. If this occurs, the WP will be updated and the proper safety and support equipment will be put in place before fieldwork can continue. The transition to a CWM RI will result in an estimated 2- to 3-month delay in the current project schedule as the WP is amended, a chemical safety plan drafted and approved, and the required safety equipment and procedures are put in place for a CWM RI. A determination will also be made on the need to conduct additional environmental sampling based upon an analysis of the material found. Proper safety precautions such as air and headspace modeling will be implemented as needed. As a contingency for sampling, HGL has TestAmerica Laboratories, Inc. (TAL) on the team. TAL has a current accreditation through the DoD Environmental Laboratory Accreditation Program (ELAP) for the analytical methods and target analytes that may be analyzed under this project. If additional sampling is required, a risk assessment may be

Figure 5



CSM – MC (CA/ABP) REMEDIAL INVESTIGATION PHASE
 GAS INSTRUCTION AREA MILITARY MUNITIONS RESPONSE SITE
 FORMER SCHILLING AIR FORCE BASE, SALINA, KANSAS

W912DY-04-D-005
 TPP Memorandum
 November 2011

required depending upon the sampling result. HGL will perform a human health risk assessment and an ecological risk assessment IAW EPA guidance and USACE EM 200-1-4, Volumes I and II, for those constituents of concern detected at the site.

5.0 REMEDIAL INVESTIGATION REPORT

After completion of the fieldwork, HGL will analyze the data collected and develop a comprehensive RI report. The RI report will be prepared IAW CERCLA guidance, Environmental and Munitions Center of Expertise (EM CX) Interim Guidance 06-04, Engineering Pamphlet (EP) 1110-1-18, EPA guidance, and the Army's RI/FS guidance document. The RI report will document the investigation and will include appropriate field data collected from the site. The report will characterize the nature, location, and concentration of CWM and CA/ABP at the project and describe any CWM-related issues that affect the current and future use of the site (if any) and provide recommendations for future action at this site.

All project supporting data will be assembled in electronic format and included in the RI report. The data will include all detailed survey and investigation data, CWM discovery data, and disposition data for hazardous waste. Copies of completed and signed certification and chain of custody forms will be included as appendices to the report. As part of the RI report, the Draft Military Munitions Response Prioritization Protocol score will be calculated and presented as an appendix. HGL will also deliver electronic GIS database files used in the development of any maps/figures in native vector format, and any other supporting characterization data in electronic format obtained or developed for the investigation.

6.0 FEASIBILITY STUDY REPORT

If necessary, HGL will develop a comprehensive FS report for the Gas Instructional Area MRS IAW Data Item Description (DID) Worldwide Environmental Remediation Services (WERS)-010.01, Engineering Pamphlet (EP) 1110-1-18 (USACE, 2000), and IGD 06-04 (USACE, 2006) in draft, draft final, and final versions. Approaches and technologies for remediating and/or managing CWM will be screened based on the CERCLA threshold and balancing criteria. During the FS, remedial technologies and their associated requirements will be identified, prescreened, and combined into alternatives for the MRS. The FS report will be submitted in conjunction with the RI report, as described earlier.

6.1 PROPOSED PLAN

HGL will prepare a PP written in nontechnical language that will be understandable by the general public. HGL will prepare the PP IAW CERCLA, Engineering Regulation (ER) 200-3-1 (USACE, 2004) and Errata Sheet 1 dated December 4, 2007, EP 1110-1-18 (USACE, 2000), and IGD 06-04 (USACE, 2006), and may include a brief summary description of the remedial alternatives evaluated in the FS if CWM is found. The PP will clearly outline the decision-making process, presenting the results of the data collections, rationale for interpreting analytical results, outcome of the risk assessments, and how all of these data relate to a remedial alternative. It will also include a summary of formal comments received from regulators, a summary explanation of any proposed ARAR waivers, and a discussion of the rationale that supports the preferred remedial alternative. HGL will submit a draft PP to the USACE within 14

days of the acceptance of the FS report. HGL will submit a draft final PP 14 days after receipt of comments on the draft PP. Following a 30-day public review period for the revised draft final PP, HGL will conduct a public meeting near the project site to discuss the PP with interested stakeholders. HGL will submit a final PP that incorporates and/or addresses public comments along with meeting minutes documenting the public discussions within 14 days following the public meeting.

7.0 DECISION DOCUMENT

A DD will be prepared IAW ER 200-3-1 and EM CX Interim Guidance 06-04. The DD will be prepared following completion of the PP to identify the remedial alternative chosen for implementation and will be based on information from the RI/FS and consideration of regulator/public comments and community concerns, which will be presented in the Responsiveness Summary. HGL will submit draft, draft final, and final versions of the DD.

8.0 COMMUNITY RELATIONS

At a minimum, three public meetings or forums will be held to inform the interested public about the project. The first public meeting will be scheduled during the planning phases of the project. The second public meeting will be held for the PP. A third meeting is allotted to brief the public when needed. The meetings will be held at a local public building or facility in Salina, Kansas, at a time convenient for the public. HGL will coordinate and schedule the meeting locations and will also develop any fact sheets, briefings, graphics, maps, posters, or handouts needed to inform the public about the RI process and the results. During the public meetings, subject matter experts from the HGL team will be available to answer any technical questions that may arise. Following each public meeting, a summary of the meetings will be drafted. Transcripts of the public meeting for the PP shall be prepared and submitted with the final PP.

9.0 PUBLIC INVOLVEMENT PLAN

A detailed Public Involvement Plan (PIP) will be developed IAW USACE guidance documents ER 200-3-1 and EP 1110-3-8, EM CX Interim Guidance 06-04, and guidance provided in the FUDS Public Involvement Toolkit and on the DoD Environment, Safety and Occupational Health Network and Information Exchange (DENIX) website. Provisions of the National Contingency Plan will apply, as the project is scheduled to last more than 120 days. The PIP will document the concerns of the public about the site identified during community interviews and will provide a detailed description of the public involvement activities planned based on USACE guidance and information obtained from the interviews. Public involvement activities will include a project fact sheets, and public meetings. All documents developed for the public will be forwarded to USAESCH Operational Security for review and approval prior to public release.

The PIP will also identify and provide contact information for key stakeholders, media outlets, and public meeting locations and will detail how stakeholders may become involved and provide feedback to the USACE. The PIP will be continually updated to provide the most current, complete information. HGL will submit a draft PIP at a time to be determined over the course of the project. A draft final PIP will be submitted 14 days after receipt of draft PIP comments, and a final version of the PIP will be submitted 7 days after receipt of draft final PIP comments.

10.0 ADMINISTRATIVE RECORD FILE

HGL will contribute relevant data to the Administrative Record (AR) file in coordination with the USAESCH and the USACE-Kansas City District IAW EP 1110-3-8, Chapter 4, Establishing and Maintaining Administrative Records, and standard operating procedures for FUDS records management dated January 2008. Documents will be reviewed and selected for inclusion in the AR file based on criteria provided in the stated guidance above. HGL will scan, optical character recognition process, and convert electronic files to portable document format (PDF). The files will be indexed and archived. All original documents in the AR file will be sent to USAESCH upon completion of the record automation process. Two compact disks (CDs) containing copies of all documents included in the AR file will be provided to both the USAESCH and USACE-Kansas City District.

11.0 SCHEDULE

The project schedule for the RI at the Gas Instruction Area MRS is included as Attachment C.

Attachment A

Technical Project Planning Meeting #1 Former Schilling Air Force Base Presentation Slides

The following slides have been provided as a copy of the TPP Meeting #1 presentation. Changes to the technical approach, schedule, proposed sampling, and any other changes made during the TPP meeting are reflected in the TPP Memorandum and the remainder of the associated documents. The slides on the following pages are shown as they were presented.

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Former Schilling Air Force Base Salina, Kansas

Technical Project Planning Meeting

Remedial Investigation Gas Instructional Area

28 October 2011



US Army Corps of Engineers
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Meeting Agenda

- ❖ Introduction
- ❖ Key Definitions
- ❖ TPP Objective
- ❖ Site Background
- ❖ Site Inspection (SI) Summary
- ❖ Conceptual Site Model (CSM)
- ❖ Remedial Investigation (RI) Purpose
- ❖ RI Process / Field Activities
- ❖ TPP Worksheets (RI Data Quality Objectives - DQOs)
- ❖ Reports / Documentation
- ❖ Community Relations Support
- ❖ Closing and Action Items Review



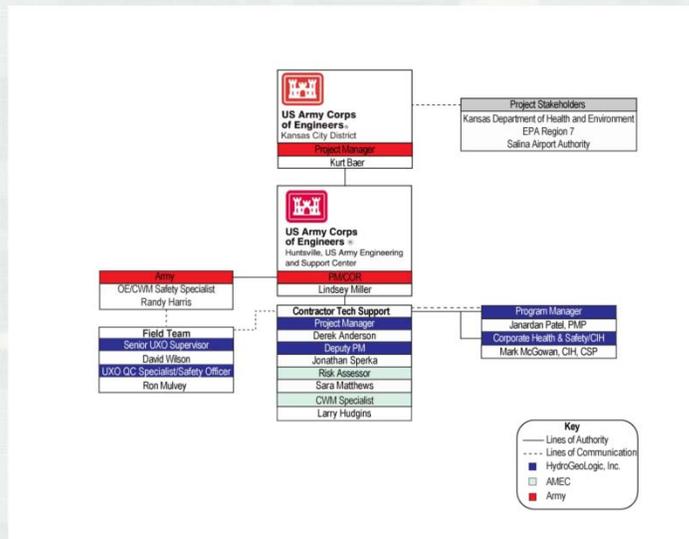
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Team Member Introduction

- ❖ Stakeholders
 - ❖ Government Agencies – Federal and state
 - ❖ Kansas City District COE (CENWK)
 - ❖ Kansas Dept. of Health and Environment (KDHE)
 - ❖ U. S. EPA Region 7
 - ❖ Regulators – KDHE, EPA Region 7
 - ❖ Property owner - Salina Airport Authority
- ❖ External technical resources (technical experts)
 - ❖ U.S. Army Engineering & Support Center, Huntsville
 - ❖ HGL / AMEC



Project Organization



TPP Meeting Objective

- *Primary Objective:* To solicit input from Project Stakeholders and to attain concurrence on the approach for the Remedial Investigation (RI) for the Gas Instructional Area Munitions Response Site.
- Stakeholders include:
 - ▶ Kansas City District COE (CENWK)
 - ▶ Kansas Dept of Health and Environment (KDEH)
 - ▶ US EPA Region 7
 - ▶ Salina Airport Authority (property owner)
 - ▶ US Army Engineering & Support Center, Huntsville



Key Definitions

CWM – Chemical Warfare Materiel-The Army defines CWM as an item configured as a munition that contains chemical agent. The term CWM includes V- and G-series nerve agent, H and HN-series blister agent, and lewisite in other than munition configurations. Due to their hazards, prevalence, and military-unique application, dilute nerve agent and neat chemical agent identification sets (CAIS) are also considered chemical warfare materiel. Chemical warfare materiel does not include: riot control agents; chemical herbicides (plant/weed killers); smoke and flame producing items, regardless of configuration; or soil, water, debris or other media contaminated with chemical agents or CAIS containing dilute agent (other than dilute nerve agent).



Key Definitions - Continued

CA – Chemical Agent is a chemical compound (to exclude experimental compounds) that, through its chemical properties, produces a lethal or other damaging effects on human beings and is intended for use in military operations to kill, seriously injure, or incapacitate persons through its physiological effects. Excluded are research, development, testing, and evaluation (RDT&E) dilute solutions; riot control agents; chemical defoliants and herbicides; smoke and other obscuration materials; flame and incendiary materials; and industrial chemicals.



Key Definitions – Continued

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

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

ABP – Agent Breakdown Product. ABPs are chemical compound that result from the decomposition of chemical agents, such as mustard, nitrogen mustard, and Lewisite.



Site Background – Gas Instructional Area

- ❖ Formerly Used Defense Site (FUDS) – Schilling AFB permanently closed in 1967
- ❖ Archives search report noted CAIS onsite – no record of final disposition
- ❖ Possible liquid mustard decontamination area (100-square yard area used for decontamination training)

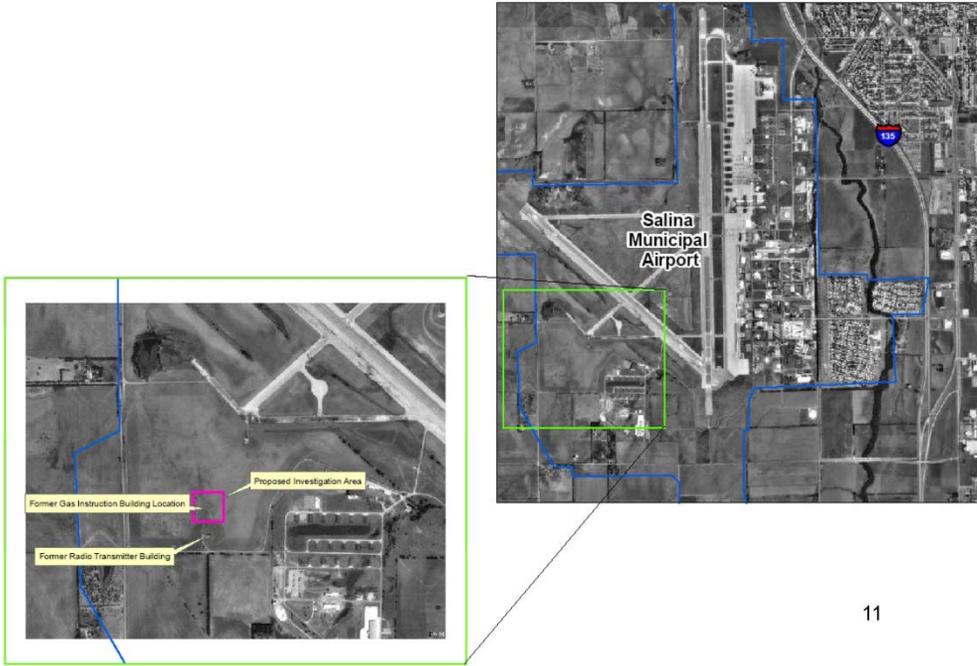


Site Background – Gas Instructional Area Continued

- ❖ Gas Instructional building no longer standing (was location 100-yards north of the radio transmitter building)
- ❖ Environmental Sampling (20 soil samples) collected during the SI indicated that there were “No releases of CA to the Gas Instructional Area MRS” and “No potential for unacceptable risks to human health and/or the environment”.



Area of Interest



11

Area of Interest

1954 Photo



12

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2010 SI Summary - DQOs

- ❖ Evaluate presence / lack thereof of CAIS (DGM survey)
- ❖ Evaluate presence / lack thereof of CA / Agent Breakdown Products (ABP) (Environmental Sampling)
- ❖ Completion of MRSPP Scoring Sheets
- ❖ Collection of EPA Hazard Ranking System (CA/ABP-related information)



2010 SI Summary – Field Activities

- ❖ Digital geophysical mapping (DGM) Survey
 - ❖ 6.42 acres covered
 - ❖ 19 subsurface anomalies of interest identified
- ❖ Environmental Sampling - 20 soil samples collected from locations where contamination was most likely to be found) indicated that there were “No releases of CA to the Gas Instructional Area MRS” and “No potential for unacceptable risks to human health and/or the environment”.



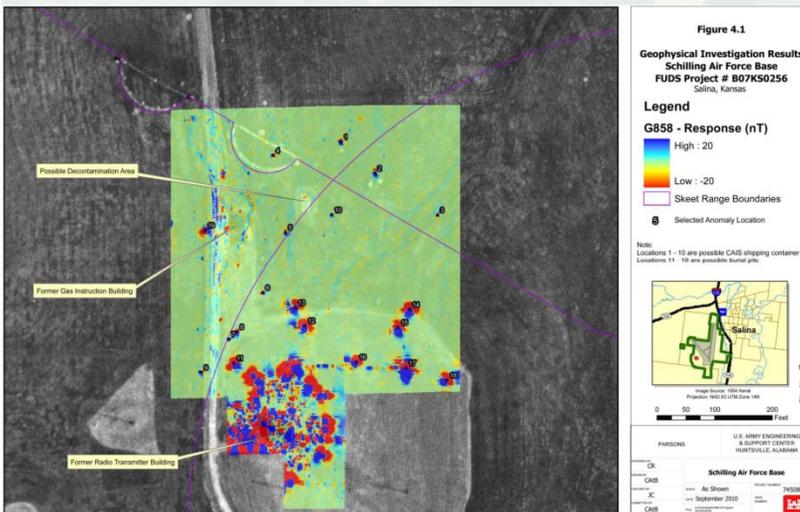
Conceptual Site Model



- Land use – buffer area for airport – used for farming
- Receptors – Airport personnel / farmers
- Digital geophysical mapping conducted over 6.4 acres (SI)
- Soil sampling – 20 samples (SI)



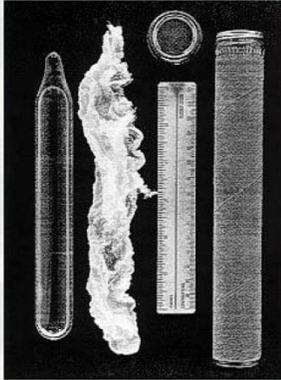
Conceptual Site Model



- 19 Anomalies
 - 9 similar in signature to CAIS containers
 - 10 similar in signature to multiple containers and/or debris
- High clutter area in southern end – suspected building debris



Potential CAIS



K951/K952 – Managed as HTW per Army Guidance



Shipping Container (pig) - Managed as MPPEH



K941 – Contains Mustard (H) - Managed as CWM per Army Guidance

See Handout for technical details on the CAIS



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Remedial Investigation (RI) Purpose

- ❖ Determine whether or not CAIS exists on the site.
 - ❖ Investigate 19 anomalies from SI, and
 - ❖ 3 test pits/trenches in SE end where high anomaly concentrations were detected

- ❖ Determine potential risks (if any) to human health and the environment

- ❖ If no CAIS found, pursue NFA through PP and DD



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RI Process / Field Activities

- ❖ Planning
 - ❖ TPP Session (today's meeting)
 - ❖ CWM probability assessment
 - ❖ Work Plan Development
- ❖ Field work
 - ❖ Anomaly identification
 - ❖ Anomaly investigation
 - ❖ CAIS accountability / HTW Disposal
 - ❖ Environmental Sampling & Analysis
- ❖ Documentation / Reporting



CWM Probability Assessment

- Draft CWM Probability Assessment complete
Result: “Unlikely” – Symbol E – which is defined as “Can assume will not occur but not impossible”

- As a result, project will include contingencies for CWM



Work Plan Elements

- ❖ Procedures for reacquiring anomalies
- ❖ Investigation procedures
 - ❖ Manual and excavator interrogations
 - ❖ Procedures in place to identify CWM, CAIS, and munitions related material
 - ❖ Safety procedures and precautions
 - ❖ Site security and access procedures
- ❖ Procedures for assessing risk
- ❖ Contingencies for CWM



Anomaly Reacquisition

- ❖ Focus on the 19 anomalies identified in the SI
- ❖ Include test pits / trenches in the southern area (suspect building debris area) – SI recommendation
 - For the RI, propose 3 trenches (10m by 1m by 1m)
- ❖ Anomalies and pit / trench areas will be marked with non-metallic pin flags
- ❖ RTK (i.e., radio-based) GPS will not be used
- ❖ Coordination with Airport Authority over exclusion zones – POC requested



Anomaly Investigation

- ❖ Manual methods (i.e., handheld tools) will be used to investigate shallow targets (2' bgs)
- ❖ Mechanized equipment (e.g., a track-hoe) will be used to investigate anomalies deeper than 2' bgs.
- ❖ Observers will be positioned to watch for signs of CAIS components within the excavation and removed spoils.
- ❖ Spoils piles from individual interrogations will be segregated to prevent potential cross-contamination.



Contingency If CWM Is Discovered

- HGL will be responsible for the separation and collection of recovered CWM related scrap. A detailed accounting of all RCWM materiel will be maintained by HGL.
- The K951/K952 CAIS components will be managed and treated as hazardous waste IAW Army guidance.
- Disposal of any CWM including K941 CAIS will be performed by the Army as an emergency response. HGL will assist the Army as needed.



TPP Worksheets

Refer to DQO work sheet handouts



Reports / Documents

- ❖ Work Plan
- ❖ RI Report
- ❖ FS Report (Optional)
- ❖ Proposed Plan (PP)
- ❖ Decision Document (DD)
- ❖ Public Involvement Plan (PIP)



Community Relations Support

- ❖ Three public meetings anticipated
 - ❖ 1st - Planning phase
 - ❖ 2nd - In support of the PP
 - ❖ 3rd – As needed
 - ❖ Held in public meeting / facility in Salina
- ❖ SME's in attendance at public meetings
- ❖ Community relations support outlined in Public Involvement Plan (PiP)



Moving Forward - Schedule

- TPP Meeting #1 (today)
- TPP Memorandum (Nov. 2011)
- Site-Specific Work Plan (Nov/Dec 2011)
- Field Work (Apr/May 2012)
- TPP Meeting #2 (May 2012)
- Draft RI Report (Sep 2012)



TPP Meeting Closure Issues

- ❖ **Concurrence –**
 - ❖ Technical Approach
- ❖ **Other Issues/Notes –**
 - ❖ Area Access Procedures
 - ❖ Timeframes to avoid fieldwork.
 - ❖ Crops / farming activities
 - ❖ Weather



Closing

- ❖ **Action item review**
- ❖ **Closing questions / concerns**



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Attachment B

Types and Components of Chemical Agent Identification Sets (CAIS) Former Schilling Air Force Base, Salina, Kansas

The following information was extracted from the 2010 CWM SI and presented at the TPP as technical background information on the CAIS suspected at the GAs Instruction Area MRS.

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**Types and Components of Chemical Agent Identification Sets (CAIS)
Former Schilling Air Force Base, Salina, Kansas**

CAIS Type	Description	Packaging	Contents		
			Chemical Type	No. of Containers	Volume Per Container
K951/K952	CAIS for outdoor identification training – M1 Instructional War Gas Identification Set	48 Pyrex®, flame-sealed, 7.5-inches by 1-inch ampoules. Each ampoule is packed in a cardboard screw cap container with agent type indicated on the cardboard container. Twelve cardboard containers each are packaged into 4 press fit metal cans 9¼ inches high. The cans are packed into a steel cylinder 6 5/8 inches in diameter, approximately 38 inches long, and 0.145 inches thick. The open end of the cylinder is closed by a flanged end cover which is secured by eight bolts. The only difference between the K951 and K952 is that the K951 was issued with blasting caps that were packed and shipped in a separate container. A shipping container weighs about 110 pounds when full.	Mustard (H)	12	2 mL of H diluted with 38 mL of chloroform.
			Lewisite (L)	12	2 mL of L diluted with 38 mL of chloroform
			Chloropicrin (PS)	12	20 mL of PS and 20 mL of chloroform
			Phosgene (CG)	12	40 mL

Contains hemetically sealed glass tube
Diameter - 1 in.
Length = 7 1/2 in.

Length = 38 in.
Diameter = 6 5/8 in.
Wall thickness = 0.145 in.



S



K
951/
K95
2
CAI

**Types and Components of Chemical Agent Identification Sets (CAIS)
Former Schilling Air Force Base, Salina, Kansas**

CAIS Type	Description	Packaging	Contents		
			Chemical Type	No. of Containers	Volume Per Container
K941	CAIS used for decontamination training – M1 Toxic Gas Set	24 round screw-top bottles with heat resistant paint indicating the contents. Four bottles are packed in a one-half inch layer of sawdust within a sealed metal can. The cans are pressure sealed, 6¼ inches high, and have a sardine-type key on the bottom. Six of these cans are placed into a steel shipping cylinder that is 6-5/8 inches in diameter, approximately 38 inches long, and 0.145 inches thick. The open end of the cylinder is closed by a flanged end cover which is secured by eight bolts. A shipping container weighs about 110 pounds when full.	Mustard (H), Sulfur Mustard (HS), or Distilled Mustard (HD)	24	3.5 ounces



K941 CAIS (M1 Toxic Gas Set)

Attachment C

**Former Schilling Air Force Base
Project Schedule**

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ID	Task Name	Duration	Start	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter
				Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
1	Project Award	1 day	Mon 9/5/11								
2	Kickoff Meeting	1 day	Thu 9/8/11								
3	Kickoff Meeting Minutes & Submit Project Schedule	2 days	Fri 9/9/11								
4	Technical Project Planning (TPP)	231 days	Fri 10/14/11								
5	Submit Pre-TPP Meeting Materials (TPP Meeting)	1 day	Fri 10/14/11								
6	USACE Review	10 days	Mon 10/17/11								
7	TPP Meeting #1	1 day	Fri 10/28/11								
8	Draft TPP Memorandum	1 day	Mon 11/21/11								
9	USACE Review	5 days	Tue 11/22/11								
10	Response to USACE Comments	12 days	Tue 11/29/11								
11	TPP Memorandum Approved	5 days	Thu 12/15/11								
12	Submit Pre-TPP Meeting Materials	1 day	Mon 2/6/12								
13	USACE Review	10 days	Tue 2/7/12								
14	TPP Meeting #2	1 day	Tue 2/21/12								
15	Draft TPP Memorandum	10 days	Wed 2/22/12								
16	USACE Review	10 days	Wed 3/7/12								
17	TPP Memorandum Approved	1 day	Wed 3/21/12								
18	Submit Pre-TPP Meeting Materials (TPP Meeting)	1 day	Wed 7/18/12								
19	USACE Review	10 days	Thu 7/19/12								
20	TPP Meeting #3	1 day	Thu 8/2/12								
21	Draft TPP Memorandum	5 days	Fri 8/3/12								
22	USACE Review	10 days	Fri 8/10/12								
23	Response to USACE Comments	5 days	Fri 8/24/12								
24	TPP Memorandum Approved	1 day	Fri 8/31/12								
25	GeoSpatial Data/GIS	125 days	Mon 12/19/11								
26	Pre-RI CSM GIS Deliverable	5 days	Mon 12/19/11								
27	Post-RI CSM GIS Deliverable	5 days	Mon 6/4/12								
28	Public Involvement Plan (PIP)	74 days	Mon 12/5/11								
29	Draft PIP	30 days	Mon 12/5/11								
30	USACE & CX Review (Concurrent)	10 days	Mon 1/16/12								
31	Response to USACE & CX Review Comments	10 days	Mon 1/30/12								
32	Draft Final PIP	5 days	Mon 2/13/12								

Project: Schilling-AFB-TPP
Date: Wed 12/14/11

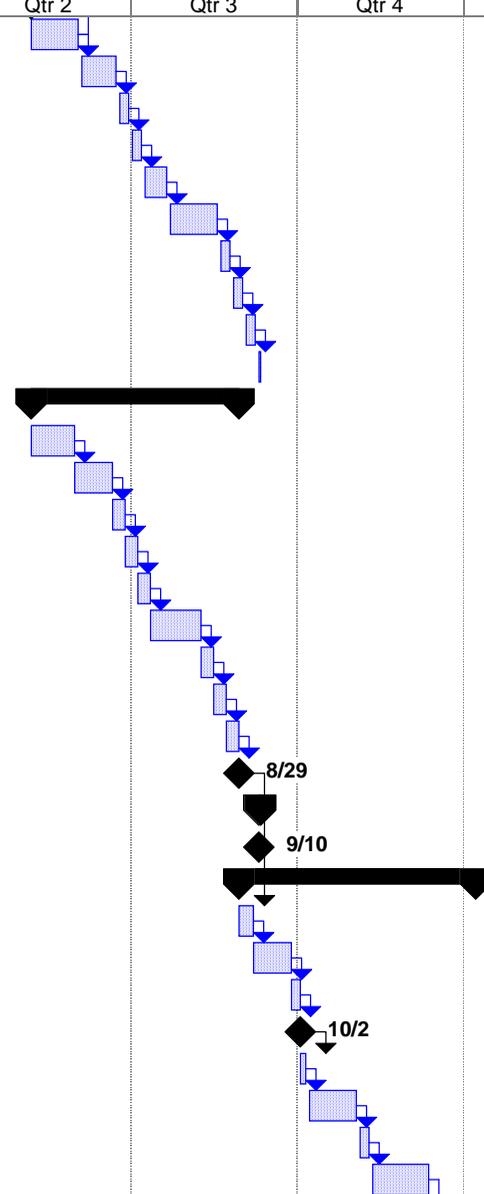
Split Milestone
 Progress Summary
 Project Summary External Milestone
 External Tasks Deadline

ID	Task Name	Duration	Start	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter
				Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
33	Backcheck DF PIP	10 days	Mon 2/20/12								
34	Final PIP	0 days	Fri 3/2/12								
35	Backcheck Final PIP	4 days	Mon 3/5/12								
36	Final PIP Approved	5 days	Fri 3/9/12								
37	Project Mgt Plan and QASP	87 days	Mon 10/3/11								
38	Draft PMP and QASP	20 days	Mon 10/3/11								
39	USACE Review	15 days	Mon 10/31/11								
40	Response to USACEComments	10 days	Mon 11/21/11								
41	Draft-Final PMP and QASP	5 days	Mon 12/5/11								
42	Backcheck DF PMP and QASP	3 days	Mon 12/12/11								
43	Stakeholder / Regulator Review	20 days	Thu 12/15/11								
44	Response to Comments	5 days	Thu 1/12/12								
45	Final PMP and QASP	5 days	Thu 1/19/12								
46	Backcheck Final PMP and QASP	3 days	Thu 1/26/12								
47	PMP and QASP Approved	1 day	Tue 1/31/12								
48	Work Plan	104 days	Mon 11/14/11								
49	Draft Work Plan	30 days	Mon 11/14/11								
50	USACE Review of Draft Work Plan	15 days	Mon 12/26/11								
51	Response to Comments	10 days	Mon 1/16/12								
52	Draft Final Work Plan	5 days	Mon 1/30/12								
53	Backcheck DF Work Plan	5 days	Mon 2/6/12								
54	Stakeholder and Regulator Review	20 days	Mon 2/13/12								
55	Response to Comments	10 days	Mon 3/12/12								
56	Final Work Plan	5 days	Mon 3/26/12								
57	Backcheck Final Work Plan	3 days	Mon 4/2/12								
58	Final Work Plan Approved	1 day	Thu 4/5/12								
59	RI Fieldwork	22 days	Mon 4/9/12								
60	Mobilize to site	1 day	Mon 4/9/12								
61	Intrusive investigations	15 days	Tue 4/10/12								
62	Backfill / site restoration	5 days	Tue 5/1/12								
63	Demobilize from site	1 day	Tue 5/8/12								
64	RI Report	91 days	Mon 5/7/12								

Project: Schilling-AFB-TPP
Date: Wed 12/14/11

Split  Milestone  Project Summary  External Milestone 
 Progress  Summary  External Tasks  Deadline 

ID	Task Name	Duration	Start	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter
				Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
65	Draft RI Report	20 days	Mon 5/7/12								
66	USACE & CX Review (Concurrent)	15 days	Mon 6/4/12								
67	Response to USACE & CX Review Comments	5 days	Mon 6/25/12								
68	Draft Final RI Report	5 days	Mon 7/2/12								
69	Backcheck DF RI Report	10 days	Mon 7/9/12								
70	Regulator Review	20 days	Mon 7/23/12								
71	Response to Regulator Comments	5 days	Mon 8/20/12								
72	Final RI Report	5 days	Mon 8/27/12								
73	Backcheck Final RI Report	5 days	Mon 9/3/12								
74	Final RI Report Approved	1 day	Mon 9/10/12								
75	Feasibility Study Report	83 days	Mon 5/7/12								
76	Draft FS Report	18 days	Mon 5/7/12								
77	USACE & CX Review (Concurrent)	15 days	Thu 5/31/12								
78	Response to USACE & CX Review Comments	5 days	Thu 6/21/12								
79	Draft Final FS Report	5 days	Thu 6/28/12								
80	Backcheck DF FS Report	5 days	Thu 7/5/12								
81	Regulator Review	20 days	Thu 7/12/12								
82	Response to Regulator Comments	5 days	Thu 8/9/12								
83	Final FS Report	5 days	Thu 8/16/12								
84	Backcheck Final FS Report	5 days	Thu 8/23/12								
85	Final FS Report Approved	0 days	Wed 8/29/12								
86	Community Relations Support	1 day	Mon 9/10/12								
87	Public Meeting to Present RI Report (Following Public F	1 day	Mon 9/10/12								
88	Proposed Plan	93 days	Thu 8/30/12								
89	Draft Proposed Plan	6 days	Thu 8/30/12								
90	USACE & CX Review (Concurrent)	15 days	Fri 9/7/12								
91	Response to Comments	3 days	Fri 9/28/12								
92	Draft Final Proposed Plan	0 days	Tue 10/2/12								
93	Backcheck DF Proposed Plan	3 days	Wed 10/3/12								
94	Regulator Review	20 days	Mon 10/8/12								
95	Response to Regulator Comments	5 days	Mon 11/5/12								
96	Public Review (30 calander days)	23 days	Mon 11/12/12								

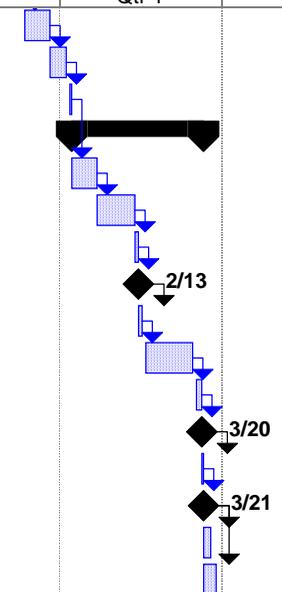


Project: Schilling-AFB-TPP
Date: Wed 12/14/11

Split Milestone Project Summary External Milestone

Progress Summary External Tasks Deadline

ID	Task Name	Duration	Start	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	1st Quarter	2nd Quarter
				Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2
97	Final Proposed Plan	10 days	Thu 12/13/12								
98	Backcheck Final Proposed Plan	7 days	Thu 12/27/12								
99	Final Action Proposed Plan	1 day	Mon 1/7/13								
100	Decision Document	53 days	Tue 1/8/13								
101	Draft Decision Document	10 days	Tue 1/8/13								
102	USACE & CX Review (Concurrent)	15 days	Tue 1/22/13								
103	Response to USACE & CX Review Comments	2 days	Tue 2/12/13								
104	Draft Final Decision Document	0 days	Wed 2/13/13								
105	Backcheck DF Decision Document	2 days	Thu 2/14/13								
106	Regulator Review	20 days	Mon 2/18/13								
107	Response to Regulator Comments	3 days	Mon 3/18/13								
108	Final Decision Document	0 days	Wed 3/20/13								
109	Backcheck Final Decision Document	1 day	Thu 3/21/13								
110	Final Decision Document Approved	0 days	Thu 3/21/13								
111	Admin Record Update	2 days	Fri 3/22/13								
112	Project Close-out	5 days	Fri 3/22/13								



Project: Schilling-AFB-TPP
Date: Wed 12/14/11

Split Milestone Project Summary External Milestone
 Progress Summary External Tasks Deadline

May 18, 2012

U.S. Army Engineering and Support Center
Huntsville
USAESCH
ATTN: OEC (Miller)
P.O. Box 1600
Huntsville, AL 35807-4301

Subject: Technical Project Planning Meeting Number 2, Update and Presentation Materials
Contract W912DY-10-D-0023, Delivery Order 006 Remedial Investigation Gas
Instruction Area Munitions Response Site Former Shilling Air Force Base, Salina,
Kansas, FUDS Project No. B07KS02560

Enclosure (1): Documentation of Technical Project Planning (TPP) Project Meeting 2 conducted
15 May 2012.

Dear Ms. Miller:

HydroGeoLogic (HGL) is providing the enclosed material has documentation of the second TPP
meeting for the subject contract.

If you have any questions or comments, please contact me at 703-326-7831.

Sincerely,



HGL
David Iseri, PMP, P.G.
Project Manager

cc: KDHE (1 hard copy, 1 CD)
EPA (1 hard copy, 1 CD)
USAESCH (2 hard copies, 1 CD)
CENWK (cover letter, 1 CD)

Enclosures: see cc: list

Subject: Documentation of Technical Project Planning Project Meeting 2 Held 15 May 2012

Site: Gas Instruction Area MRS, Former Schilling Air Force Base, Salina, Kansas, FUDS Project Number B07KS025607

Contract: Contract No. W912DY-10-D-0023, Delivery Order No. 006

Date: May 18, 2012

This document serves as a record of the second Technical Project Planning (TPP) meeting for the Remedial Investigation (RI) of the Gas Instruction Area Munitions Response Site (MRS) associated with the former Schilling Air Force Base (AFB) in Salina, Kansas. The TPP Team members listed below indicated concurrence with the technical approach described during the TPP meeting held at the Salina Airport Terminal Conference Room in Salina, Kansas, on May 15, 2012.

HydroGeoLogic, Inc. (HGL) and U.S. Army Engineering and Support Center, Huntsville (USAESCH) technical experts had previously collaborated to develop the technical approach using available site information, including the 2010 Chemical Warfare Materiel (CWM) Site Inspection (SI) report and other pertinent documents. The technical approach was provided to the stakeholders and discussed in detail at TPP session 2; no significant changes to the technical approach, as described in the Draft Final Work Plan, were requested.

The TPP meeting began at 1000 central time and, following introductions by USAESCH, HGL presented a brief history of the site, an explanation of the upcoming field work, and contingencies (see Attachment A for TPP Meeting Presentation Slides). The Draft Final Work Plan was previously reviewed by the United States Environmental Protection Agency (USEPA) and Kansas Department of Health and Environment (KDHE). USEPA and KDHE had no substantive comments on the Draft Final Work Plan and no additional comments at the TPP meeting.

The Salina Airport Authority Executive Director (Timothy Rogers) indicated he is the sole point of contact for the airport and to change our contact list. The revised contact list is included in this memorandum. Mr. Rogers indicated he was satisfied with the approach for the field work and offered a building near the site that the field team can use to charge and store equipment. Mr. Rogers showed the Team access points to the site on a map and also provided a historical map showing the location of the former radio tower infrastructure.

Mr. Rogers also brought the Team to the building that he offered for the field team's use. While at the site he pointed out access areas and indicated that we could use the bunkers for shelter during storms. He also indicated he would check with tenants to see if they could provide water

during the field work. Mr. Rogers indicated he would contact USAESCH with the information on the water access.

The TPP Team agreed to a preconstruction meeting to be held at the Salina Airport on July 9, 2012. The meeting adjourned at approximately 1130 hours.

**Meeting Attendees
Salina Municipal Airport
15 May 2012
Gas Instruction Area MRS
Former Schilling Air Force Base
Salina, Kansas**

Ms. Kim Meacham USAESCH Technical Manager	Ms. Lindsey Miller USAESCH Project Manager
Mr. Randy Harris USAESCH	Mr. Ken Rapplean USEPA
Mr. Jorge Jacobs Kansas Department of Health and Environment Project Manager	Mr. Timothy Rogers Salina Airport Authority Executive Director
Mr. David Iseri HGL Project Manager	Mr. Larry Hudgins AMEC Project Manager

**Key Contacts
Former Schilling Air Force Base
Salina, Kansas
RI Project**

Organization	Name	Telephone/Fax
U.S. Army Corps of Engineers Kansas City District (CENWK) CENWK-ED-EG 601 E 12th Street, Rm 439 Kansas City, MO 64106	Mr. Kurt Baer Project Manager Email: kurt.h.baer@usace.army.mil	(816) 389-3922 (816) 389-2023 fax
USAESCH ATTN: OE-CW (Miller) P.O. Box 1600 Huntsville, AL 35807-4301	Ms. Lindsey Miller Project Manager Email: lindsey.w.miller@usace.army.mil	(256) 895-1297
USAESCH ATTN: OEC Operations (Walters) P.O. Box 1600 Huntsville, AL 35807-4301	Mr. Wilson Walters Ordnance and Explosives Safety Specialist Email: wilson.c.walters@usace.army.mil	(256) 895-1290
USAESH ATTN: ED-CS-P (D'Auben) P.O. Box 1600 Huntsville, AL 35807-4301	Mr. Michael D'Auben Technical Manager Email: michael.j.d'auben@usace.army.mil	(256) 895-1460
USAESCH ATTN: ED-CS-P (Whisenant) P.O. Box 1600 Huntsville, AL 35807-4301	Mr. Bruce Whisenant Technical Manager Email: Bruce.k.whisenant@usace.army.mil	(256) 895-1633
AMEC Environment & Infrastructure 10300 Mull Court Huntersville, NC 28078	Mr. Larry Hudgins Project Manager Email: larry.hudgins@amec.com	(612) 325-3275
HGL 11107 Sunset Hills Road Suite 400 Reston, VA 20190	Mr. Janardan Patel Program Manager Email: jpatel@hgl.com	(703) 736-4509 (703) 471-4180 fax
HGL 11107 Sunset Hills Road Suite 400 Reston, VA 20190	Mr. Mark McGowan Corporate Health and Safety Manager Email: mmcgowan@hgl.com	(703) 736-4561
HGL 11107 Sunset Hills Road Suite 400 Reston, VA 20190	Mr. David Iseri Project Manager Email: diseri@hgl.com	(703) 326-4180 (703) 326-7831
HGL 522 Clover View Dr. Murray, Ut 84123	Mr. Ronald Mulvey Senior Unexploded Ordnance (UXO) Supervisor Email: rmulvey@hgl.com	(801)712-2304

Organization	Name	Telephone/Fax
Kansas Department of Health and Environment (KDHE) 1000 SW Jackson Street, Suite 410 Topeka, Kansas 66612-1367	Mr. Jorge Jacobs Environmental Scientist Email: jjacobs@kdheks.gov	(785) 296-8801
Salina Airport Authority 3237 Arnold Ave. Salina, KS 67401	Timothy Rogers (Executive Director) Email: trogers@salinaairport.com	(785) 827-3914 (785) 827-2221 fax
United States Environmental Protection Agency Region 7 901 N. 5 th Street Kansas City, KS 66101	Mr. Ken Rapplean Rapplean.kenneth@epa.gov	(913) 551-7769

ATTACHMENT A

TECHNICAL PROJECT PLANNING MEETING #2
FORMER SCHILLING AIR FORCE BASE
PRESENTATION SLIDES

The following slides have been provided as a copy of the TPP Meeting #2 presentation.

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Former Schilling Air Force Base Salina, Kansas

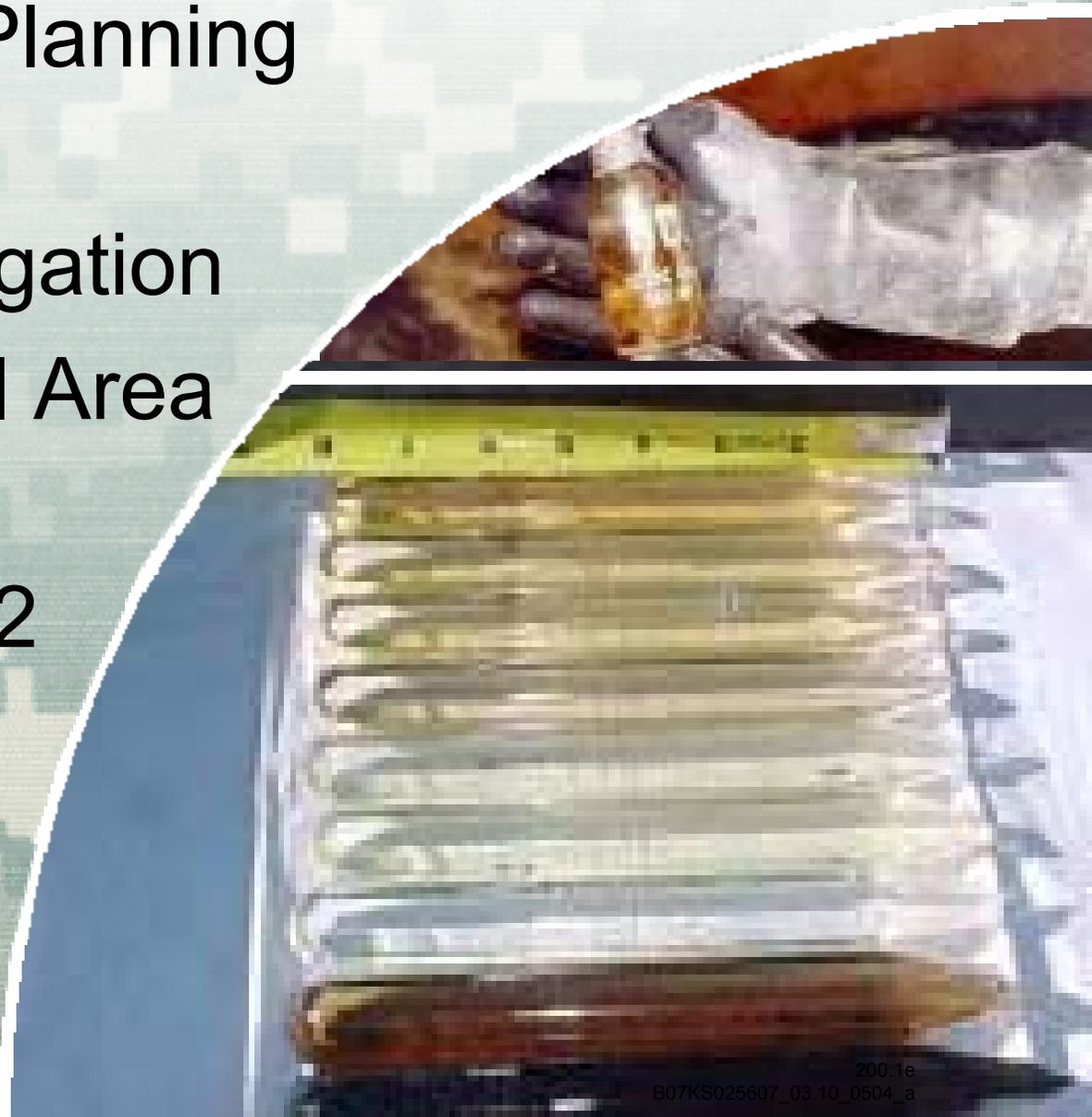
Technical Project Planning
Meeting 2

Remedial Investigation
Gas Instructional Area

15 May 2012



US Army Corps of Engineers
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Meeting Agenda

- ❖ TPP Meeting Objectives
- ❖ Team Member Check-in
- ❖ Review Project Objectives
- ❖ Review Work Plan-
 - ❖ Review of Field Operations
 - ❖ Review of Contingency Plan
 - ❖ Resolve Comments
- ❖ Review Project Schedule
- ❖ Community Relations Support /Admin Record
- ❖ Closing and Action Items Review



Site

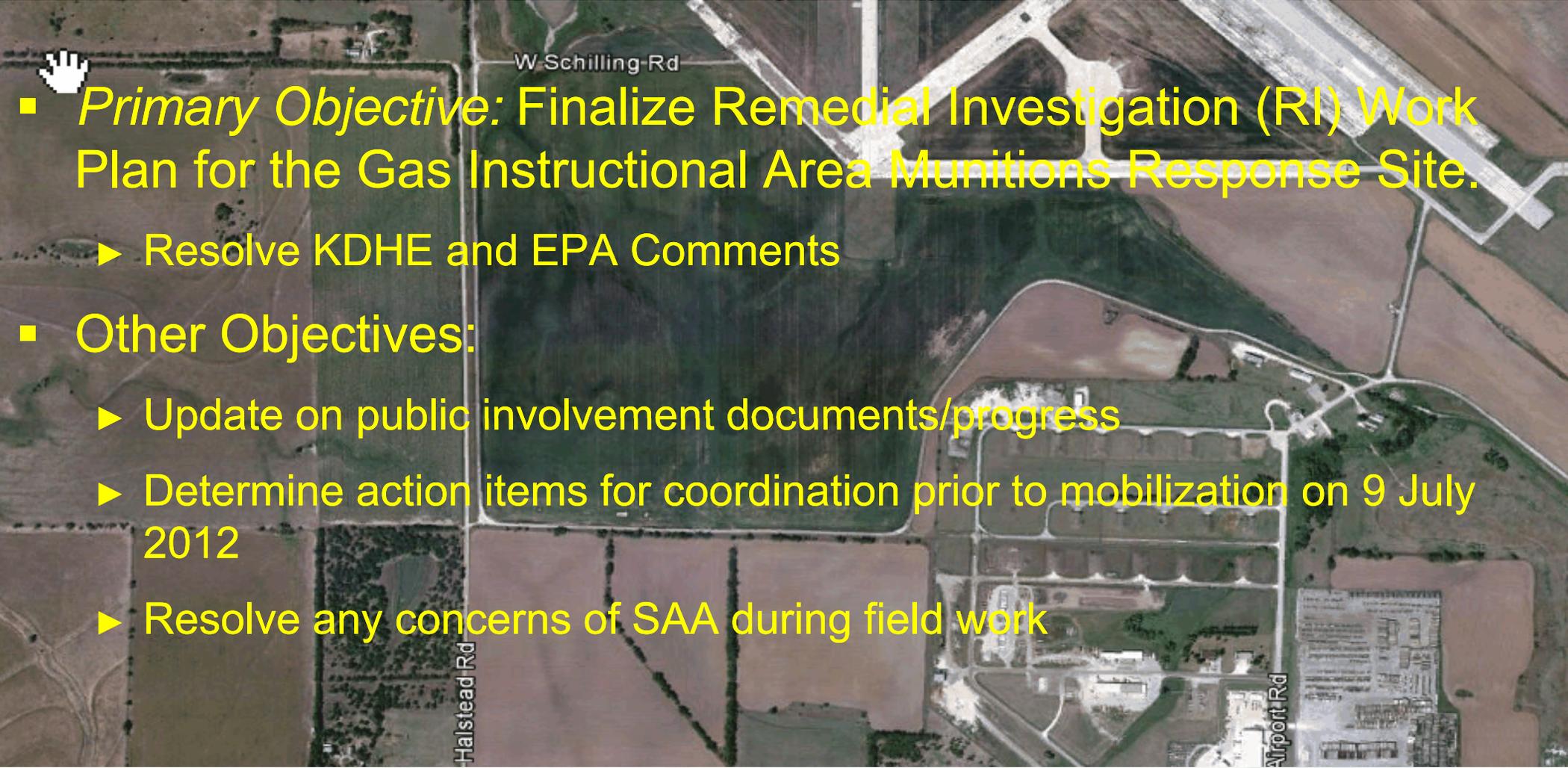


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TPP Meeting Objectives



- **Primary Objective: Finalize Remedial Investigation (RI) Work Plan for the Gas Instructional Area Munitions Response Site.**

- ▶ Resolve KDHE and EPA Comments

- **Other Objectives:**

- ▶ Update on public involvement documents/progress

- ▶ Determine action items for coordination prior to mobilization on 9 July 2012

- ▶ Resolve any concerns of SAA during field work



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Team Member Update (Check-In)

❖ Stakeholders

❖ Government Agencies – Federal and state

- ❖ Kansas City District COE (CENWK) - Mr. Kurt Baer, Project Manager
- ❖ Kansas Dept. of Health and Environment (KDHE) – Mr. Jorge Jacobs
- ❖ U. S. EPA Region 7 – Mr. Ken Rapplean

❖ Regulators – KDHE, EPA Region 7

❖ Property Owner - Salina Airport Authority

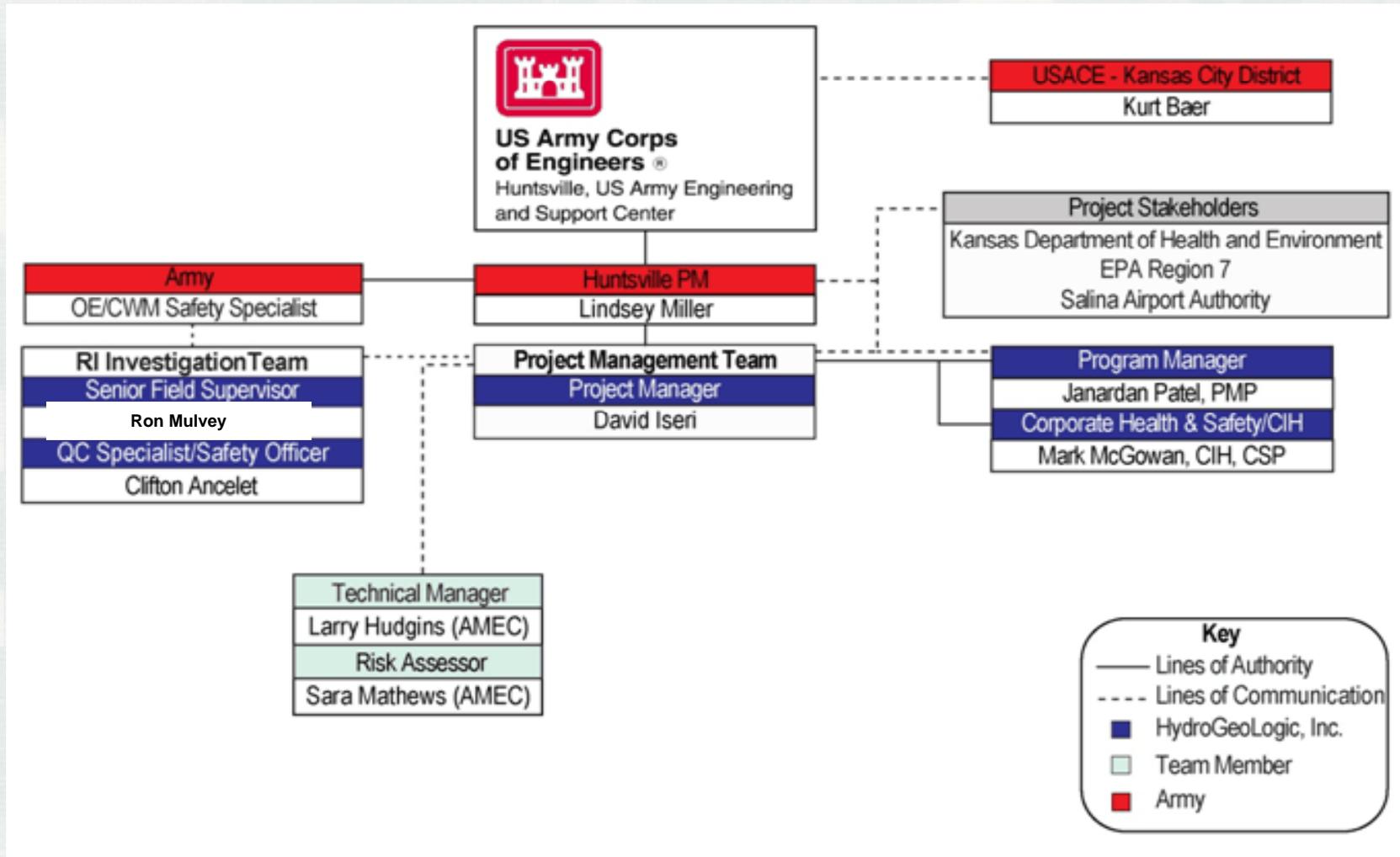
- ❖ Mr. Kenny Biecker, Manager of Facilities & Construction
- ❖ Mr. Gunnar Whiles, Manager of Operations

❖ External technical resources (technical experts)

- ❖ U.S. Army Engineering & Support Center, Huntsville – Lindsey Miller, Project Manager
- ❖ HGL / AMEC

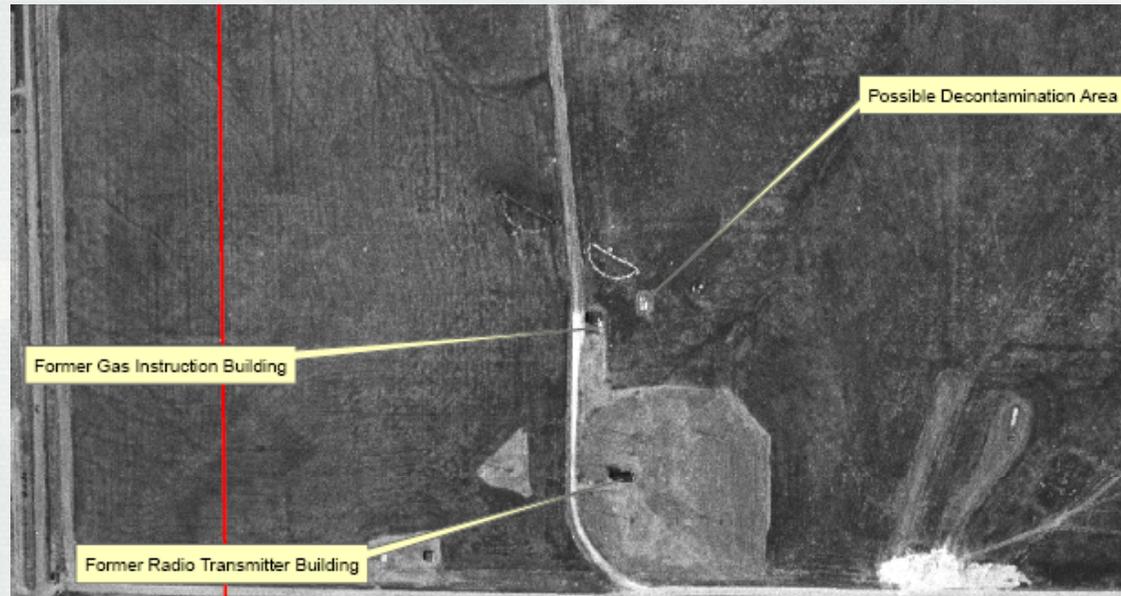


Project Organization



Site Background – Gas Instructional Area

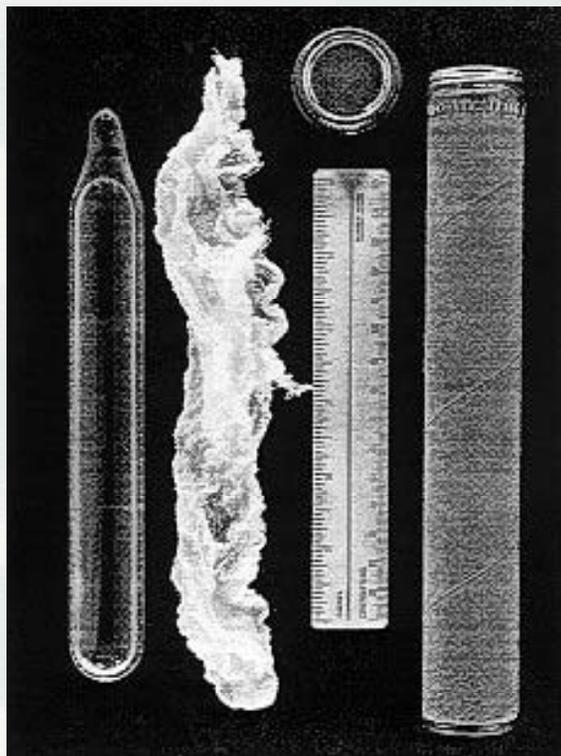
- ❖ Formerly Used Defense Site (FUDS) – Schilling AFB permanently closed in 1967
- ❖ Archives search report (ASR) noted CAIS onsite – no record of final disposition
- ❖ Possible liquid mustard decontamination area (100-square yard area used for decontamination training)
- ❖ Gas Instructional Building (was location 100-yards north of the radio transmitter building)



USACE Activities Related to Gas Instruction Area



Chemical Agent Identification Sets (CAIS)



K951/K952 – Managed as HTW

See Fact Sheet handout for technical details on the CAIS



Shipping Container (pig) - Managed as MPPEH



K941 – Contains Mustard (H) - Managed as CWM

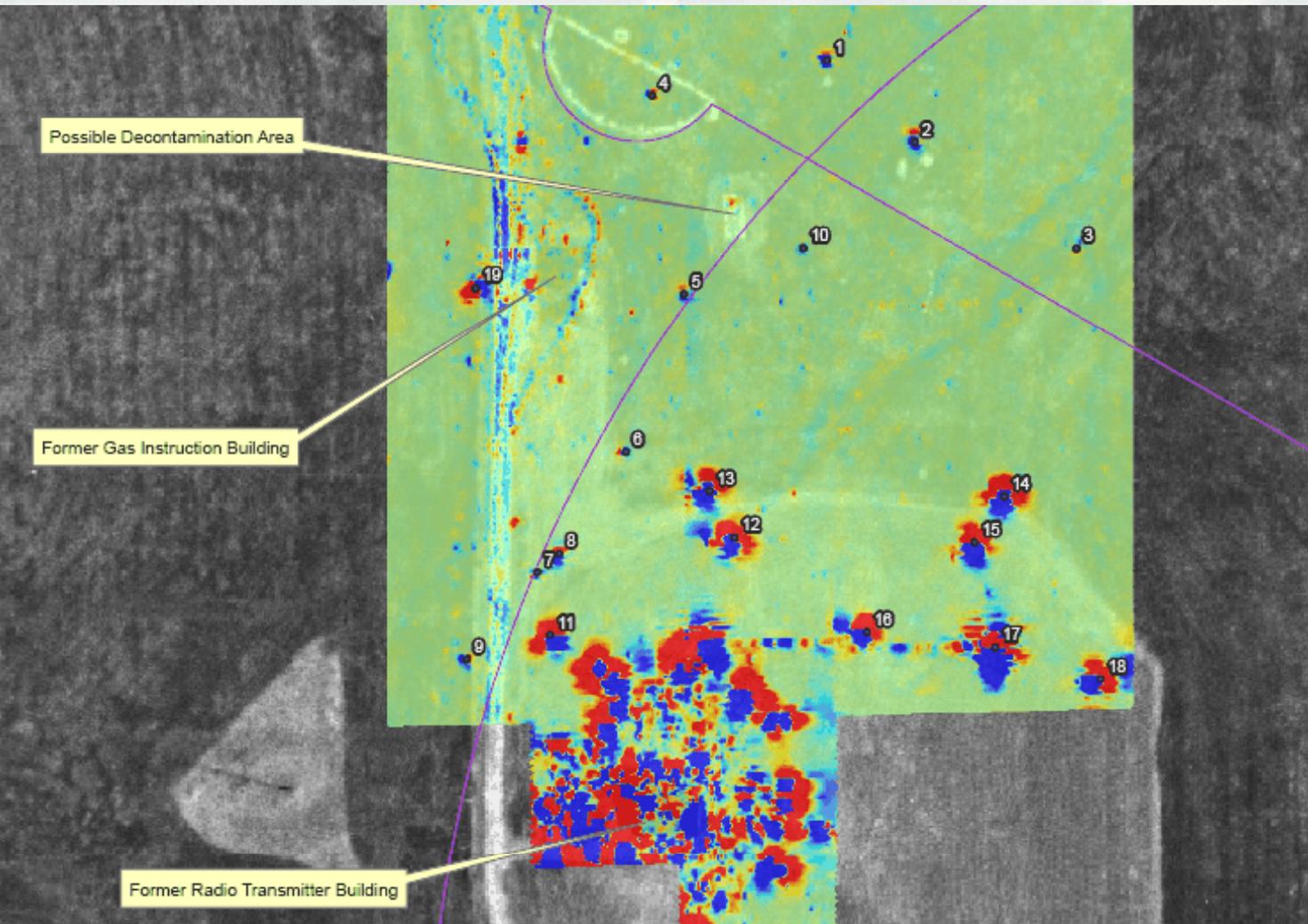


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2010 SI DGM Anomalies



- Digital geophysical mapping conducted over 6.4 acres
- Soil sampling – 20 surface soil samples
- 19 Anomalies
 - 9 similar in signature to CAIS containers
 - 10 similar in signature to multiple containers and/or debris
- High clutter area in southern end – suspected building debris



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SI Sampling

❖ Environmental Sampling (20 surface soil samples) collected during the SI indicated that there were “No releases of CA to the Gas Instructional Area MRS” and “No potential for unacceptable risks to human health and/or the environment”.

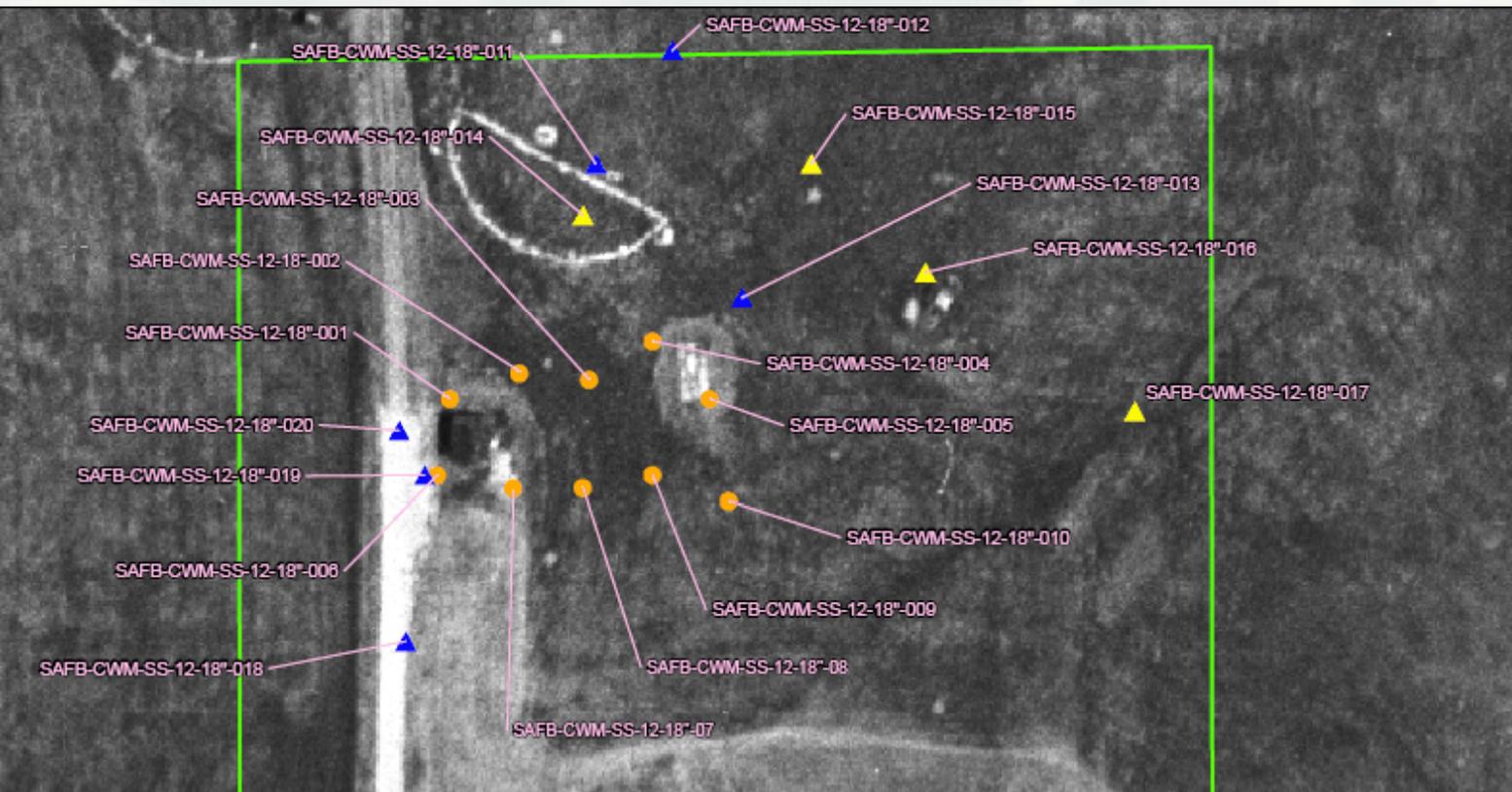


Figure 4.2

Sample Locations
Schilling Air Force Base
FUDS Project # B07KS0256
Salina, Kansas

Legend

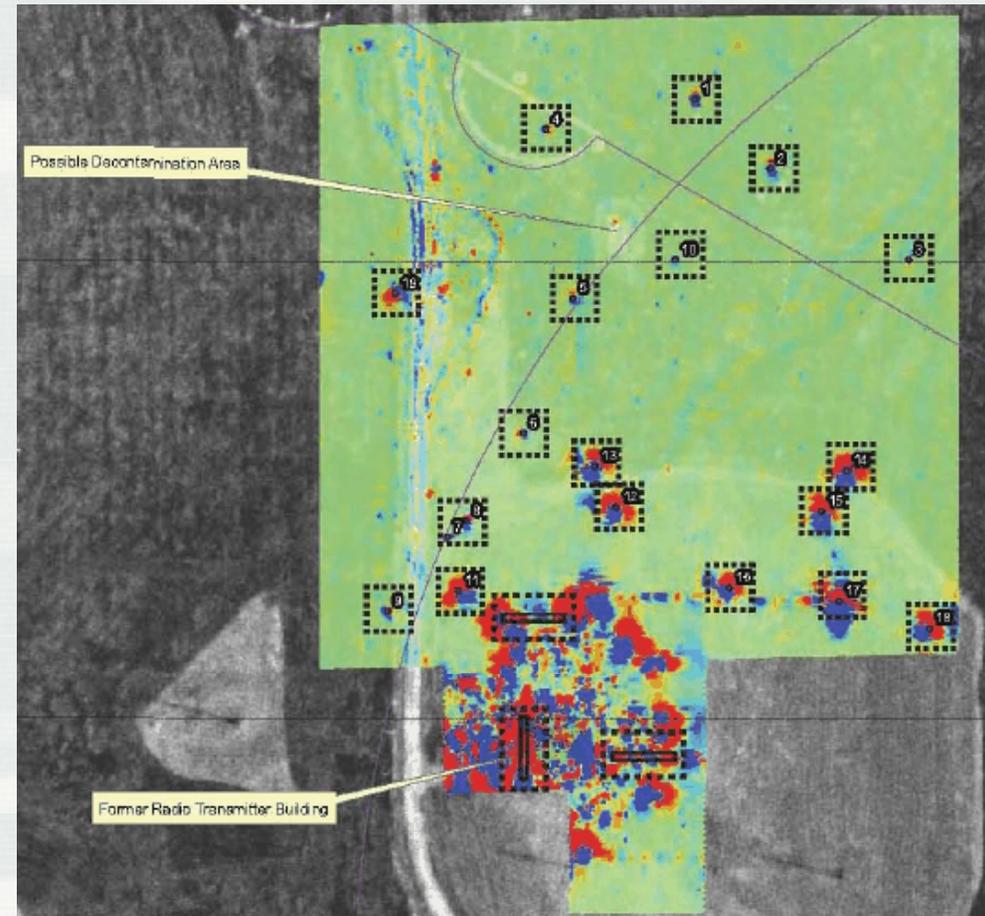
- Geophysical Investigation Area
- Predetermined Sample Locations (10)
- Discretionary Locations
 - Potential CAIS-burial Location (4)*
 - Random (6)

*Locations identified through DGM



Remedial Investigation (RI) Objectives

- ❖ Determine whether or not CAIS exists on the site.
 - ❖ Investigate 19 anomalies from SI, and
 - ❖ 3 test pits/trenches where high anomaly concentrations were detected
- ❖ Determine potential risks (if any) to human health and the environment
- ❖ If no CAIS found, pursue NFA through PP and DD



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Project Elements

❖ Planning

- ❖ TPP Session 1
- ❖ CWM Probability Assessment
- ❖ TPP Session 2 (Today)
- ❖ Work Plan Finalization
- ❖ Public Involvement Plan and Info Sheets

Completed
Elements

❖ Execution

- ❖ Field work (Starting Week of 9 July 2012)
- ❖ Anomaly identification
- ❖ Anomaly investigation
- ❖ CAIS accountability / HTW and Cultural Debris Disposal

❖ RI/(FS-if needed)/PP/DD



CWM Probability Assessment

❖ CWM Probability Assessment

- ▶ Historical documents - CAISs were present
- ▶ Disposal records not found
- ▶ Analytical data show no evidence of CAIS chemicals
- ▶ Current guidelines – Assume K941 CAISs were expended during training
- ▶ Conclusion: Probability of encountering CWM is unlikely
- ▶ The RI will be conducted as a non-CWM site with contingencies

❖ **HTW CAIS (K951/K952) also low probability**



Example of
debris observed
at site



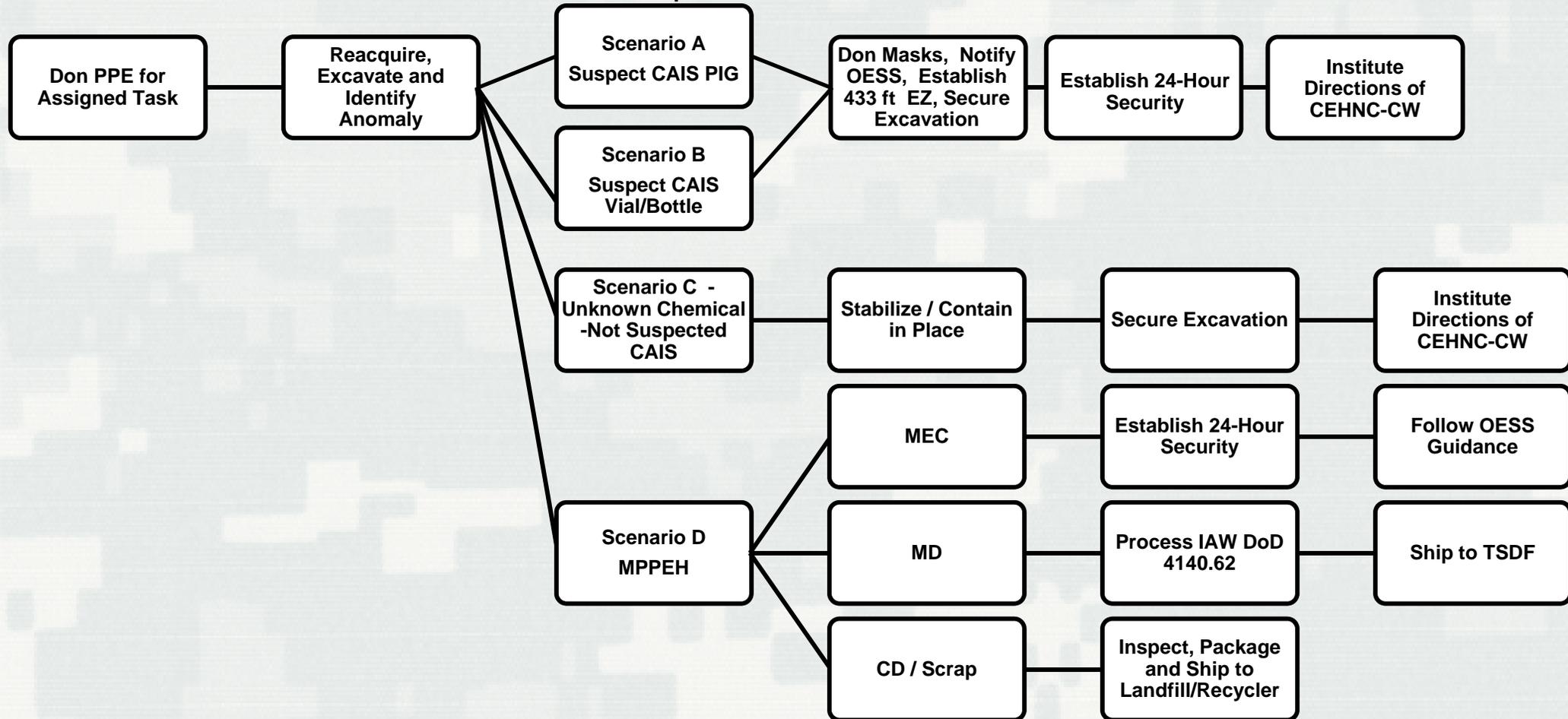
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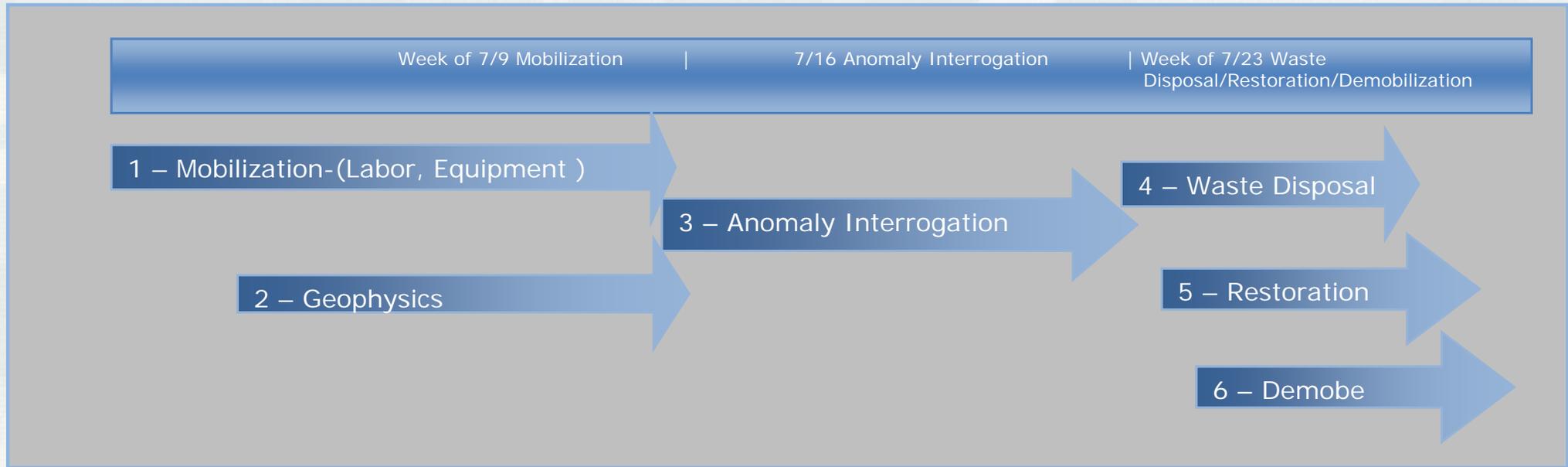
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Work Plan – Contingencies (unlikely events)

■ Four Scenarios Developed



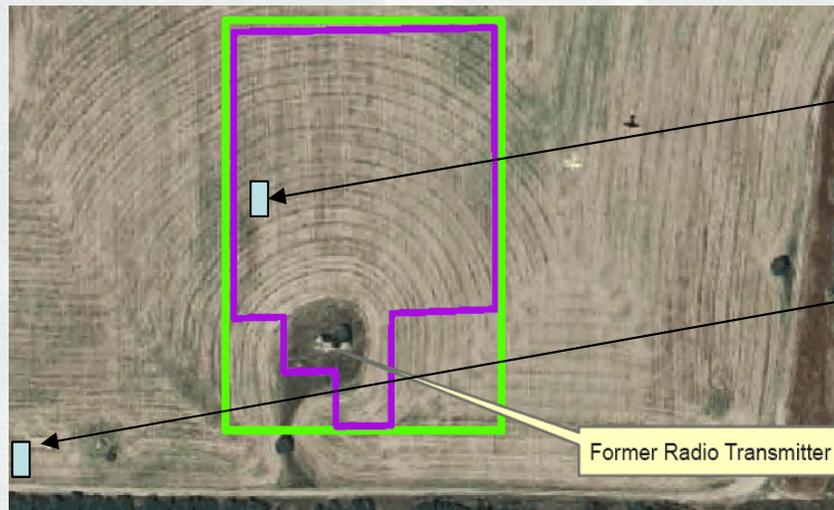
Work Plan Field Work (2012)



Storage



Excavator



Recovered
Material
Storage

Equipment
Storage

Former Radio Transmitter E



Work Plan Responses to Comments –

One comment from KDHE:

1. List of Figures, page v: Figure 1-3, Topographic Features, has been omitted from this list. Please add this figure to the list.

A. Change will be made as requested.



Community Relations Support

Activity	Time Frame
Update and Revise PIP	May 2012, and throughout project as appropriate
Update Information Repository	June 2012, and throughout project as appropriate
Public Meeting Notice (for Proposed Plan)	March 2013
Prepare and Distribute Fact Sheets and/or Technical Summaries	March 2012, December 2012
TPP Meetings	October 2011, April 2012, December 2012
Public Meeting (for Proposed Plan)	April 2013
Update Mailing List	March 2012, and throughout project as appropriate
Maintain USACE and Project Websites	Ongoing
Civic Group Programs/Special Briefings	As appropriate if need arises

❖ Public Meetings

❖ 1st - In support of the PP

❖ 2nd – As needed

❖ Public meetings / facility in Salina



Moving Forward - Schedule

- TPP Meeting #1 (October 2011)
- TPP Memorandum (Nov. 2011)
- TPP Meeting #2 (May 2012)
- Final Work Plan (June 2012)
- Field Work (July 2012)
- TPP Meeting #3 (December 2012)
- Final RI Report (December 2012)
- Proposed Plan Public Meeting (March or April 2013)
- Final Proposed Plan (May 2013)
- Final Decision Document (August 2013)



TPP Meeting Closure Issues

❖ Concurrence

- ❖ Responses to Comments

❖ Other Issues/Notes

❖ Area Access Procedures

- ❖ Safety Briefing(s) for Field Team
(where/when/contacts/communication/use of and identification of field vehicles)

- ❖ Hours of Work (Coordinate)

- ❖ Update of Contact Phone Numbers (Handout)

- ❖ Site Restoration (backfill, if needed – Other requirements?)



Closing

- ❖ Action item review
- ❖ Closing questions/comments

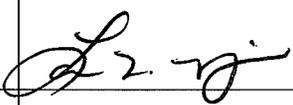
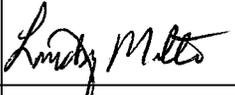
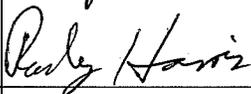
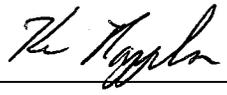
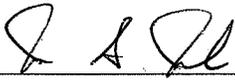


ATTACHMENT B
SIGN-IN SHEET

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Former Schilling AFB – Gas Instructional Area TPP Meeting Number 2 - 15 May 2012

Sign-in Sheet

Name	Organization	Signature	E-mail	Phone
David Iseri	HGL		cliseri@hgl.com cliseri@hgl.com	703-326-7831
LARRY HUDGINS	AMCC		LARRY.HUDGINS@AMCC.COM	(602) 325-3275
Kim Meacham	USAESCH		Kim.K.meacham@usace.army.mil	256-895-1667
Lindsey Miller	USAESCH		Lindsey.W.miller@usace.army.mil	256-895-1297
Randy HARRIS	USAESCH		Randal.G.HARRIS@USACE.Armymil	256-426-0657
Tim Rogers	Section Assistant Aurora, IL		trugent@cfair.org	781-827-3914
KEN RAPPLEAN	US EPA		RAPPLEAN.KENNETH@EPA.GOV	913-551-7769
JORGE JACOBS	KDHE		jjacobs@kdheks.gov	785-296-8801

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APPENDIX J

GIS DELIVERABLE

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Appendix J (GIS Deliverable) included on CD.

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APPENDIX K

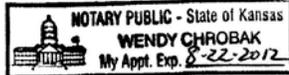
**SALINA JOURNAL PUBLISHER'S AFFIDAVIT –
WORK PLAN NOTICE OF AVAILABILITY**

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Publisher's Affidavit

I, Sue Austin, being duly sworn declare that I am the Inside Sales Marketing Consultant of THE SALINA JOURNAL, a daily newspaper published at Salina, Saline County, Kansas, and of general circulation in said county, which newspaper has been admitted to the mails as second class matter in said county, and continuously and uninterruptedly published for five consecutive years prior to first publication of attached notice, and that the Public Notice Notice has been correctly published in the entire issues of said newspaper one time, publication being given in the issue of July 15, 2012

Sue Austin
Subscribed and sworn to before me, this 16th day of July A.D. 20 12
[Signature]
Notary Public



Printers Fee: \$432.00

PUBLIC NOTICE

**THE U.S. ARMY CORPS OF ENGINEERS
ANNOUNCES THE AVAILABILITY OF THE
ADMINISTRATIVE RECORD FILE FOR THE
FORMER SCHILLING AIR FORCE BASE
GAS INSTRUCTION AREA PROJECT
SALINA PUBLIC LIBRARY, SALINA, KANSAS**

The U.S. Army Corps of Engineers (USACE) announces the availability for public review of the Administrative Record file that documents the Remedial Investigation Work Plan at the Former Schilling Air Force Base Gas Instruction Area Military Munitions Response Program project. USACE seeks to inform the public of the availability of the Administrative Record file at a public repository located at the Salina Public Library in Salina, Kansas.

The Administrative Record file includes documents that form the basis for the selection of a remedial response action for this project. Documents now in the Administrative Record file include a site inspection report, site inspection work plan, technical project planning documentation, and a project fact sheet. Other documents will be added to the Administrative Record file as the project work progresses. These additional documents may include, but are not limited to, additional technical reports, proposed plans, comments submitted by interested persons regarding reports, and USACE responses to significant comments.

The Administrative Record file is available for review Monday-Thursday from 9 a.m. to 9 p.m., Friday and Saturday from 9 a.m. to 6 p.m., and Sunday from 1 p.m. to 6 p.m. at:

Salina Public Library
301 W. Elm
Salina, Kansas 67401
Telephone: (785) 825-4624
<http://www.salinapubliclibrary.org/>

It also is available for review Monday-Friday from 8 a.m. to 5 p.m. at the USACE, Kansas City District office below:

Kurt H. Baer
USACE, Kansas City District
601 E. 12th St.
Kansas City, Missouri 64106
Telephone: (816) 389-3922

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