FINAL

Technical Project Planning (TPP) Meeting Memorandum for the Formerly Used Defense Site (FUDS) Malta Test Station

FUDS Project # **C02NY089802**

Prepared Under: **Contract No. W912DY-04-D-0017**
Delivery Order # 00170001

Prepared for:

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July 2006

TECHNICAL PROJECT PLANNING (TPP) MEMORANDUM

MILITARY MUNITIONS RESPONSE PROGRAM (MMRP)
SITE INSPECTION (SI) OF

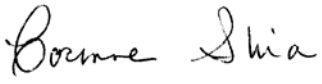
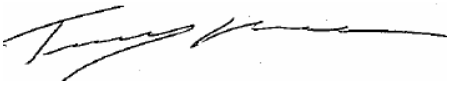
MALTA TEST STATION

FOR FORMERLY USED DEFENSE SITES (FUDS)
DERP-FUDS PROJECT NUMBER C02NY089802

MEETING MINUTES

DATE: 23 May 2006
LOCATION: Malta, NY
TOPIC: Technical Project Planning (TPP) Meeting #1 for Malta Test Station
TITLE OF PROGRAM: Military Munitions Response Program (MMRP)
CONTRACT: W912DY-04-D-0017; Delivery Order # 00170001
DIRECTIVE AGENCY: U.S. Army Corps of Engineers (USACE)-Baltimore District, Rob Williams
CO-CHAIRPERSON/FACILITATOR: Alion Team Project Manager, Corinne Shia

NOTE: *This TPP Memorandum is a record of the discussions that took place on the above referenced date about said site. Signature of this TPP Memorandum does **not** signify agreement with any or all items, only that this is an accurate record of what was discussed.*

Hamid Rafiee, USACE Baltimore District (Design Team Leader)	Gregory J. Goepfert, USACE New York District (Project Manager)
	
Corinne Shia, Alion Team (Project Manager)	Timothy Reese, Alion Team (Project Manager)
Jon Kelley, Luther Forest Technology Campus (Property Owner Representative)	John Strang, New York State Department of Environmental Conservation (NYSDEC) (Site Project Manager)

NOTE: A U.S. Environmental Protection Agency (EPA) representative was invited but was not present at the TPP meeting; therefore, a signature line for EPA has not been included. A representative from the General Electric Company (GE) was invited to the TPP meeting, but declined to attend in writing.

Introduction

This TPP Memorandum details the events of the TPP meeting held at the site of the former Malta Test Station, presently known as the Luther Forest Technology Campus, in the towns of Malta and Stillwater, New York on 23 May 2006. Participants at the meeting included representatives from USACE Baltimore District, USACE New York District, the Luther Forest Technology Campus Economic Development Corporation (LFTCEDC), the New York State Department of Environmental Conservation (NYSDEC), Wright Malta Corporation, the New York State Energy Research and Development Authority (NYSERDA), C. T. Male Associates, Continental Placer Inc., the Saratoga Economic Development Corporation (SEDC), New York State Department of Health (NYSDOH), and the Alion Team (see attendance list). This TPP Memorandum describes the purpose and objectives of the TPP, the meeting attendees, the materials and documentation discussed/reviewed during the TPP, the list of handouts, other TPP documentation, changes/deletions/modifications to the TPP material, and discussion items.

TPP Purpose and Objectives

The purpose of the TPP meeting was to solicit input from stakeholders on the project objectives, data needs, and planning, sampling, and analysis approaches that satisfy FUDS SI for the Malta Test Station site.

Objectives include:

- Present the proposed sampling plan
- Obtain feedback on the proposed plan and other site-specific information from the property owner, state regulators, and other interested parties/stakeholders.
- Determine action items for the path forward.

Attendance List

Name	Organization	Project Role	Phone Number	Email Address
Hamid Rafiee	USACE Baltimore District	Design Team Leader	410-962-7546	hamid.rafiee@usace.army.mil
Gregory Goepfert	USACE New York District	Project Manager	917-790-8235	Gregory.J.Goepfert@nan02.usace.army.mil
John Strang	NYSDEC	Site Project Manager	518-402-9622	jrstrang@gw.dec.state.ny.us
John Swartwout	NYSDEC	DSMOA Coordinator	518-402-9620	Jbswarto@gw.dec.state.ny.us
Jon Kelley	LFTCEDC	Property Owner Representative	518-587-0945	jkelley@saratogaedc.com
Raymond Kayzak	LFTCEDC	Site Manager	518-587-0945	RPKazyak@aol.com

Name	Organization	Project Role	Phone Number	Email Address
Jon Dawes	LFTCEDC		518-587-0945	jdawes@Lutherforest.org
John Munsey	C. T. Male Associates	Environmental Consultant	518-786-7496	j.munsey@ctmale.com
Aimee Gates	C. T. Male Associates	Environmental Consultant	518-786-7551	a.gates@ctmale.com
Bill Miller	Continental Placer	Former RI/FS Manager	518-458-9203	wmiller@continentalplacer.com
Todd Butler	Wright Malta Corporation	Engineer	518-463-6674	
Daniel Sleasman	Wright Malta Corporation	Attorney	518-433-0518	dmslaw@nycap.com
Kent Blair	U.S. Army	Invited Guest	315-772-5281	Kent.blair@us.army.mil
Mitchell Khosrova	NYSERDA	Attorney	518-862-1090 x3380	mK2@nyserda.org
Mike Hallock	NYSDOH	Representative	518-793-3893	meh19@health.state.ny.us
Scott Reid	LG-SEDC	SEDC Counsel	518-581-8800	sreid@lemeygreisler.com
Stuart Carr	Human Factors Applications, Inc. (HFA)	UXO Technician	919-406-2162	
Corinne Shia	Alion Team	Project Manager	703-259-2157	cshia@alionscience.com
Timothy Reese	Alion Team	Project Manager	410-538-8202 X101	treese@eaest.com
Katie Drewett	Alion Team	Task Manager	410-771-4950	kdrewett@eaest.com

Materials and Documentation Discussed/Reviewed During TPP

The following documents were discussed during the TPP to provide the attendees with a familiarity of the site, an understanding for the basis of the TPP, site history, and the source of background information:

- 1980 Inventory Project Report (INPR), amended November 2005 (USACE New York District)
- 1989 Aerial Photo Report (EPA)
- 1991 Archaeological Survey (Hartgen Archaeological Association)

- 1992 Cultural Resources Survey (Hartgen Archaeological Association)
- 1992 Literature Search Report (LSR) (Geraghty & Miller)
- 1995 Remedial Investigation (RI) Report (EPA)
- 1999 Superfund Preliminary Site-Closeout Report (EPA)
- 2005 Final Programmatic Work Plan for Formerly Used Defense Sites (FUDS) Military Munitions Response Program (MMRP) Site Inspections at Multiple Sites in the Northeast Region (Alion)
- 2006 Environmental Assessment (C. T. Male Associates)

Handouts

The following handouts were distributed to the attendees of the TPP meeting for discussion:

- Agenda
- Read-Ahead Package
- Slide Presentation (Attachment 1)
- Data Quality Objective (DQO) Worksheets (Attachment 2)
- TPP Phase I Memorandum for Record (MFR) Worksheet (Attachment 3)
- Working Draft Conceptual Site Model (CSM) (Attachment 4)
- Map of Proposed Sampling Locations (Attachment 5)
- Revised Schedule (Attachment 6)
- TPP Evaluation Form

The Agenda set the stage for the meeting. A copy of the slide presentation was provided to the attendees to facilitate review of information and note taking. DQO worksheets, the Working Draft CSM, and a Read-Ahead Package (including a draft map of the proposed sampling locations) were distributed for review and discussion. The TPP Phase I MFR Worksheet was filled out with participation and input from the stakeholders. At the conclusion of the TPP meeting, the SI schedule was reviewed, and the TPP evaluation form was distributed to attendees to provide feedback on the TPP process and meeting.

Discussion Items

Mr. Gregory Goepfert, Project Manager for USACE New York District, began the meeting with a brief introduction of the purpose of the meeting and led introductions between members. Ms. Corinne Shia, Project Manger for the Alion Team, led the presentation and associated discussions for the Alion Team. The following items were presented:

Overview of MMRP/SI—Mr. Goepfert provided an overview of the MMRP and the planned SI. Alion currently is under contract with USACE to conduct 39 SIs in the Northeast Region of the United States. This limited focused SI will assess areas historically identified as being used for ordnance activities and is confined to a surface inspection only for munitions and explosives of concern (MEC) along with sampling for residual munitions constituents (MC). The primary objective of the SI is to determine if the site is to be recommended for No Department of

Defense Action Indicated (NDAI) or if further work and investigation are required. Another TPP will be planned after data are collected and analyzed. At that meeting, the SI findings and recommendations will be presented.

Overview of TPP Process—The purpose and objective for the TPP meeting was discussed. A key aspect of any TPP is the opportunity for all stakeholders to communicate their needs or concerns. At the beginning of the meeting, each attendee was asked to introduce themselves and identify the agency or group they represent.

The discussion below summarizes the key topics addressed and the associated action items for the former Malta Test Station site.

Site Owner/Potential Stakeholders—The Luther Forest Technology Campus Economic Development Corporation (LFTCEDC) is the current owner of the approximately 165-acre site. LFTCEDC owns an additional 1,800 acres adjacent to the site, formerly an easement. Mr. Jon Kelley, representative of the LFTCEDC could not comment on any ordnance issues associated with the former safety leasehold. All right of entry (ROE) documentation will be sent to Mr. Scott Reid, the counsel for the Saratoga Economic Development Corporation (SEDC), with Mr. Kelley as the signature. Mr. Kelley will provide the deeds for the approximately 165-acre property and adjacent lands to Mr. Goepfert of the USACE New York District.

Action Items:

- Mr. Goepfert, USACE New York District, will provide all ROE documentation to Mr. Reid.
- Mr. Kelley, LFTCEDC, will provide Mr. Goepfert with deeds for the 165-acre site and adjacent lands.

Previous Investigations/Additional Reports— An Archive Search Report (ASR) and Supplemental ASR have not been completed for the Malta Test Station. The Alion Team asked the meeting attendees if they were aware of any previous investigations at the site. Mr. Bill Miller was the manager of the recent remedial investigation/feasibility study (RI/FS for this site). During the RI/FS, the investigation team searched significantly for buried containers/waste at the site and dug 87 test pits. The team found and removed several compressed gas tanks filled with liquid rocket fuels from the site. The Alion Team asked the group if perchlorate had been analyzed for during any of the sampling events and if sample data were validated. Mr. Miller indicated that perchlorate had not been analyzed for during the recent investigation but, Mr. John Strang, NYSDEC, informed the group that the General Electric Company (GE), a previous owner of the site and the potentially responsible party (PRP), has tested for perchlorate in groundwater prior to the RI/FS. Mr. Strang suggested that the perchlorate data may be in the GE Semi-Annual Reports. Mr. John Munsey of C. T. Associates and the Alion Team requested a copy of the report. Mr. Munsey indicated that perchlorate had not been analyzed for during the 2006 Environmental Assessment and the sample data were not validated. During the 1995 RI/FS however, sample data were validated in accordance with EPA guidance.

The Alion Team asked the group if they had any additional documentation for the Malta Test Station including a 1991/1992 Archaeological/Cultural Resources Survey, 1992 Literature Search Report, and 1989 EPA Aerial Photo Report. Mr. Munsey informed the team that to obtain the additional reports a licensing agreement would need to be executed with Mr. Kelley (representing LFTCEDC). Mr. Goepfert inquired as to whether there was a list of all documentation on the site available. Mr. Kelley agreed to provide USACE/Alion Team with any applicable documentation, as well as a list of documentation for the site (if available).

Action Items:

- Mr. Strang, NYSDEC, will provide Mr. Munsey and the Alion Team with the GE Semi-Annual Report potentially containing perchlorate data.
- Mr. Goepfert, USACE New York District, will work with Mr. Kelley to obtain a licensing agreement for the use of additional reports on the Malta Test Station.
- Mr. Kelley, LFTCEDC, will then provide USACE/Alion Team with any applicable documentation and a list of documentation for the site (if available)

Future Use—The current owner (LFTCEDC) plans to develop the former Malta Test Station site into a technology campus. Therefore, the site owner/stakeholders are interested in streamlining the SI process. Mr. Munsey asked the USACE/Alion Team how the SI would approach the Environmental Protection Agency (EPA) Hazard Ranking Score (HRS) for the site (i.e., would the HRS be based only on munitions and not hazardous toxic and radioactive waste [HTRW] hazards). USACE/Alion Team assured the group that only munitions and explosives of concern (MEC) and munitions constituents (MC) would be evaluated during the SI. The MEC/MC would include rocket fuel and perchlorate that were used historically at the site. If the MEC/MC study indicates that further work is needed at the site, the timeframe to complete follow on study phases may not be consistent with the site's development plan. Mr. Munsey indicated that one item that is time critical for the development plan is the electrical planning stage. LFTCEDC would like to know if MEC/MC is present on or beneath the ground before utilities are laid. Mr. Goepfert and the Alion Team assured the group that the team is willing to work with the owner/stakeholders to move the project along as quickly as possible to try and remain consistent with the development goals and associated schedule.

Wells/Local Water Supply—Mr. Munsey indicated that there is one public water supply system that is in proximity to the site. This existing water supply is known as Saratoga Water Services. This system has two sources of groundwater, the Knapp Road Well Field to the south, and Cold Springs Road well field to the north. The groundwater generally lies approximately 15-25 feet (ft) below grade, but is deeper in some areas. Residential consumers in the area are supplied by one of the systems located in a deep (200-400 ft), highly permeable aquifer. During the RI/FS both aquifers/supply systems were determined to be disconnected hydrogeologically from any groundwater contamination at the site. Mr. Munsey also noted that there are atleast two private water wells on site that serve the LFTCEDC.

The USACE/Alion Team asked the owner/stakeholders if there were any existing monitoring wells onsite. Mr. Munsey indicated that many monitoring wells were located on the property. Mr. Munsey recommended contacting Mr. Steve Meier of GE for additional information on the

monitoring wells. The USACE/Alion Team suggested that the monitoring wells could be used for groundwater sampling, instead of installing more wells onsite, depending on their proximity to MC hazards. For access to the existing monitoring wells, USACE/Alion Team was requested to contact Mr. Kelley, who will in turn contact GE. If existing monitoring wells cannot be used for the groundwater sampling during the SI, the Alion Team will collect groundwater onsite using a Geoprobe.

Action Items:

- USACE/Alion Team will contact Mr. Kelley, LFTCEDC, who will contact Mr. Meier, GE, for additional information on the monitoring wells onsite and will coordinate with Mr. Kelley for access to the wells, if necessary.

MEC Findings and Discoveries—Ms. Corinne Shia asked the group if any munitions had been found on the site. Mr. Ray Kazyak, site engineer, indicated that many shell casings and a 120 mm shell had been found. Mr. Kazyak said he would show the team the locations where items had been found in the past during the site walk following the TPP meeting. Mr. Miller indicated that geophysical anomalies had been identified onsite during the RI, but not all anomalies were field verified. Mr. Munsey, C. T. Male Associates, asked the Alion Team what kind of magnetometer would be used to perform the geophysical survey. Mr. Stuart Carr, an Unexploded Ordnance (UXO) Technician, told the group that a Schondstat magnetometer will be used for the survey and could typically pick up 3 in. round ferrous materials to a depth of 2 ft. For non-ferrous material, a Fischer magnetometer, which detects all metals, will be used.

The USACE/Alion Team asked the group if any ordnance removals had occurred at the site. Mr. Kent Blair, of the U.S. Army, informed the group that the ordnance stored in the magazines onsite had been shipped to Seneca Army Depot in the mid-1990s. The magazines contained tank rounds, mortars, propellant, and various other munitions/munitions related material. The USACE/Alion Team asked if a list of the munitions present in the magazines had been prepared. Mr. Blair will provide a munitions inventory list of what was removed.

Action Items:

- USACE/Alion Team will contact Mr. Blair, U.S. Army, to try and locate and obtain an inventory of the munitions historically present on the site.

Utilities—Mr. Goepfert inquired whether there were underground utilities at the site and whether any of the utilities were public. Mr. Kazyak indicated that station utilities were present at the site and none were publicly owned. These utilities include electric, water, sewer, and rocket fuel feed lines that could contain rocket fuel. Mr. Goepfert asked if there was an existing geophysical study of underground utilities on the site. Mr. Munsey suggested the team review existing documentation, hold discussions with Mr. Kazyak, and potentially use private utility locators prior to any subsurface sampling.

Action Items:

- The Alion Team will review existing data, review the subject areas with LFTCEDC representatives, and will locate utilities prior to subsurface sampling activities.

- Mr. Goepfert, USACE New York District, will ensure utilities search procedures are included in the ROE

Site Safety/Field Constraints—The USACE/Alion Team asked if there were any health and safety issues or field constraints associated with the site that the team should be aware of prior to field activities. One meeting member mentioned that ticks inhabit the project area in from early spring until late fall. Mr. Kazyak indicated that the use of two-way radios and cell phones is prohibited at the site. If team personnel need the use of a telephone they will exit the property before use or will use the land line located in the office building onsite with approval from the site owners. A daily tailgate safety briefing will be held prior to and following any field activities on the site.

The site is eligible for inclusion in the National Register of Historic Places as determined by the New York State Office of Parks Recreation and Historic Preservation. Mr. Goepfert has communicated with the State Historic Preservation Officer (SHPO), and it appears that a Section 106 consultation will not be necessary at the level of effort envisioned for this site inspection.

Action Items:

- USACE New York District will coordinate an agreement with the site owners for the use of the land line, if necessary.

Schedule— Ms. Shia reviewed the proposed schedule for the SI and asked the group if five working days for the TPP Memorandum and 20 working days for the Site-Specific Work Plan were sufficient document review periods. The group agreed to meet the five-day review period for the TPP Memorandum and expressed interest in expediting the Site-Specific Work Plan review period if possible. The USACE/Alion Team agreed to assess the potential to streamline the SI process.

Action Item:

- Mr. Goepfert, New York District to request USACE Huntsville to remove this site from being an Independent Technical Review (ITR) site. An ITR site requires additional review time for project deliverables (Task Completed).

Field Activities—The USACE/Alion Team will coordinate field efforts with the LFCTEDC. Mr. Kazyak, Site Manager, LFCTEDC, will be the point of contact for coordinating access to the site for field activities and will likely accompany the Alion Team during the sampling events.

Action Items:

- USACE/Alion Team will coordinate field efforts with Mr. Kazyak prior to field activities.
- Mr. Kazyak, LFTCEDC, will likely accompany the Alion Team onsite during the sampling events.

Public Relations—A meeting member raised the question of whether or not public relations were necessary during this process (i.e., public meeting to explain the work to be done onsite).

Mr. Goepfert indicated that the there was no requirement for public affairs involvement during the SI phase. Mr. Goepfert indicated that an SI fact sheet would be sent to members of the meeting. This fact sheet also could be sent to town officials and other interested parties prior to the field event. Mr. Kelley indicated that he would prepare a list of potential fact sheet recipients for Mr. Goepfert. Some of the meeting members expressed concern for the lack of public involvement in the process and asked that the team be sensitive to potential public concerns. In the event that a removal action is necessary, the stakeholders requested that property owner notify town officials prior to removal. Mr. Mitchell Khosrova, NYSERDA, requested that Mr. Kevin Hunt, NYSERDA, also be contacted in the event that a removal action becomes necessary.

The procedures were outlined in the event that ordnance is found onsite and the UXO Technician deems the item to be unsafe. In this situation, the Alion team will contact the property owner representative (Mr. Kelley, LFTCDC) and Mr. Kelley will be requested to call 911. The Alion team will also contact the geographic USACE Project Manager (Mr. Goepfert) and Baltimore District / Military Munitions Design Center. Baltimore District will notify the Military Munitions Center of Expertise (CX) Huntsville USACE. Mr. Goepfert and Mr. Kelley indicated that they would meet with the local police department for a courtesy discussion, prior to field activities, to notify them of this SI project and the potential for an emergency response action.

Action Items:

- Mr. Goepfert, New York District, will send the SI fact sheet to meeting attendees.
- Mr. Kelley, LFCTEDC, will provide Mr. Goepfert with a list of additional addresses to send the fact sheet.
- Mr. Kelley will coordinate a courtesy meeting with the Mr. Goepfert and the local police department to discuss the upcoming SI.

Site Safety Briefing—Mr. Carr, UXO Technician, HFA, led a safety briefing for all those attending the site walk. Attendees signed an Abbreviated Accident Prevention Plan (AAPP) prior to the site walk.

Site Walk—Mr. Kazyak, LFCTEDC, led a site walk through the former Malta Test Station and pointed out areas of potential concern for MEC/MC.

Path Forward

- Meeting participants will review and comment on the TPP Memorandum; Alion will revise as appropriate.
- Meeting members will sign the TPP Memorandum as an accurate record of what was discussed at the meeting. Alion will then finalize the TPP Memorandum.
- The Alion Team will complete the Draft Site-Specific Work Plan for Malta Test Station and submit it to USACE and stakeholders by July 28, 2006 or sooner in order to streamline the process.
- USACE Baltimore District/USACE New York District will work with stakeholders to obtain the necessary ROE for the Alion Team to conduct the SI sampling activities.

ATTACHMENTS

(Meeting Handouts and Other TPP Documentation)

ATTACHMENT 1

(Slide Presentation)

US Army Corps
of Engineers
Baltimore District

Malta Test Station
Military Munitions Response Program
Site Inspection

Technical Project Planning Meeting
May 23, 2006
Malta, NY

US Army Corps
of Engineers
Baltimore District

Agenda

- Introduction
- Site Inspection Overview
- Technical Project Planning (TPP) Process
- Closing Remarks
- TPP Evaluation

US Army Corps of Engineers
Baltimore District

SI Objectives & Approach

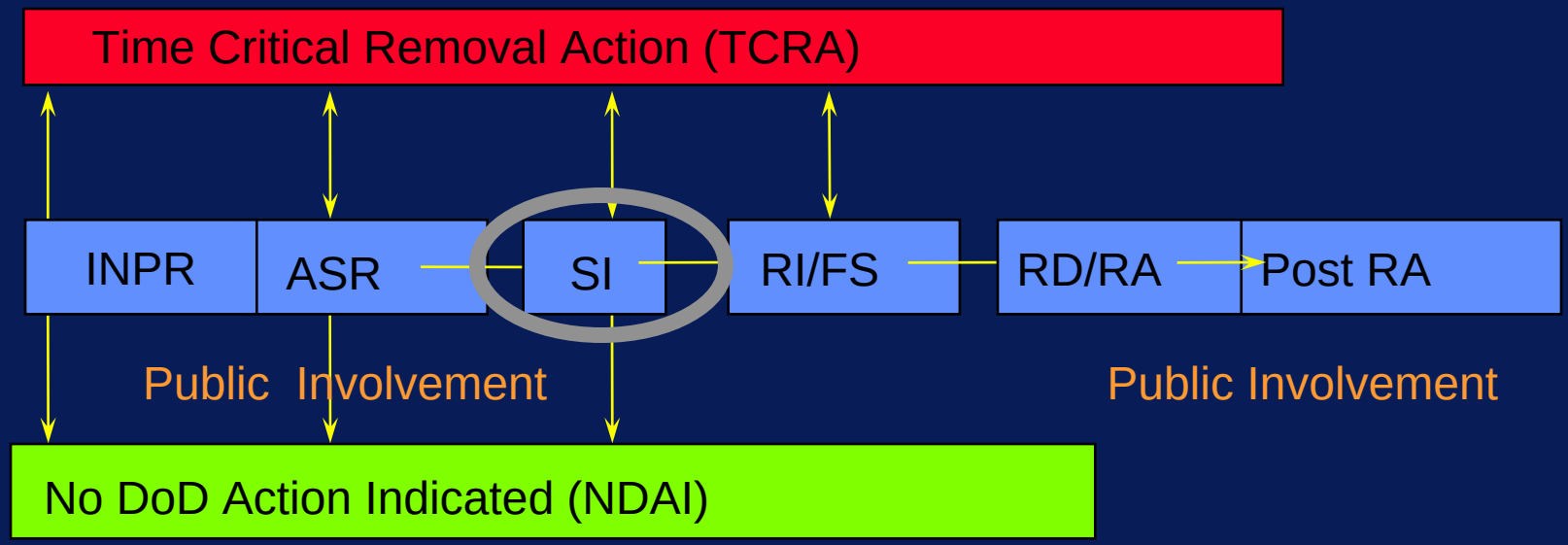
- **Primary Objective**
  - Determine whether site warrants further response action under CERCLA, or NDAI
- **Secondary Objectives**
  - Confirm the presence/absence of MEC/MC
  - Determine the need for an emergency response action or a TCRA
  - Collect data to characterize site and determine risks
  - Collect data for Hazard Ranking System (HRS)
  - Collect data to complete the Munitions Response Site Priority Protocol (MRSPP)

- **Approach**
  - Focus on areas with MEC/MC operations, e.g., range, firing point, OB-OD, or burial area
  - Additional areas identified by stakeholders
  - Areas not having historical evidence of MEC/MC activities are not assessed

The SI is a limited scope study!

US Army Corps of Engineers
Baltimore District

The MMRP Response Process Parallels the CERCLA Process



- Inventory Project Report (INPR) – Completed
- Archive Search Report (ASR) – Not Completed
- The Site Inspection (SI) Phase - 18 Month Schedule

US Army Corps of Engineers
Baltimore District

Project Team Composition

Local USACE District – New York

Other Agencies

MMRP Design Center - Baltimore

Stakeholders

Admin/Technical Support

MMRP Contractor - Alion Team

US Army Corps of Engineers
Baltimore District

TPP Overview

TPP is a four-phase process:

- **Phase I - Identify the project.**
  (90% of TPP effort)

  Stakeholders?
  Project definition/CSM?
  Customer goals?

- **Phase 2 - Determine data needs.**

  What *do* we know?
  What *don't* we know?

- **Phase 3 - Develop data collection options.**
- **Phase 4 - Finalize data collection program.**

  How best to get the information we need?

(Phases 3 & 4 mostly pre-defined for MMRP projects.)

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Baltimore District

Phase I - Define the Project

- Project Definition
  - ~165 acres of developed land in Malta and Stillwater, New York
  - R&D facility for rocket and weapons testing for > 50 years
- Site History
  - Established in 1945 by lease from Thomas Luther. In 1955, U.S. Army acquired site in fee
  - General Electric Company (GE) was contractor/operator for ~25 structures
  - USAF/NASA used the site from 1955-1960 space vehicle reentry simulation
  - Determined to be excess in 1960 , conveyed in 1964 to New York Atomic and Space Development Authority (NYSASDA) later succeeded by New York State Energy Research Development Authority (NYSERDA)
- Previous Investigations
  - 1980 USACE Inventory Project Report (INPR), amended November 2005
  - 1995 EPA Remedial Investigation (RI) Report
  - 1999 EPA Superfund Preliminary Site-Closeout Report
  - 2006 Luther Corporation Environmental Site Assessment

US Army Corps of Engineers
Baltimore District

Phase I - Define the Project (Cont'd)

- Stakeholders
  - NYSERDA
  - Luther Forest Technology Economic Development Corp.
  - Saratoga Economic Development Corp.
  - Wright Malta Corp.
  - GE Corp.
- CSM (see Handout)
- Site Closeout Statement
  - Achieve the walk-away goal, or final condition of the site, which includes safe access following any remediation, maintenance, and monitoring for activities that are consistent with the current use of the site

US Army Corps of Engineers
Baltimore District

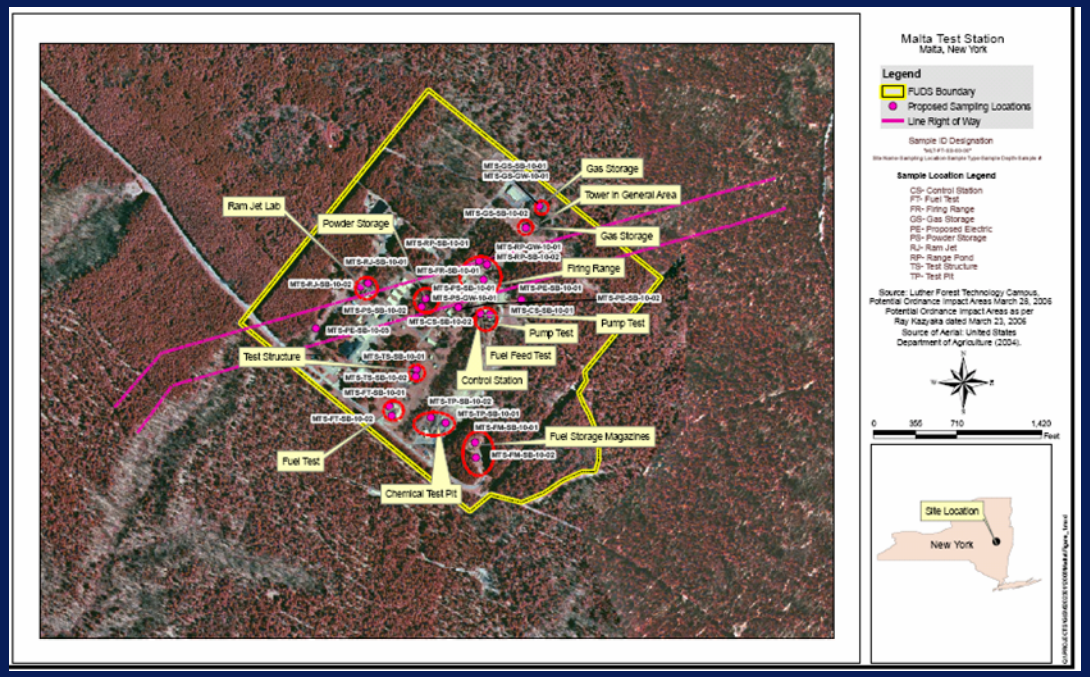
Phases 2 - 4 Determine Data Needs, Options, & Program

- Phase 2: Determine Data Needs
  - No ASR or Supplemental ASR completed for the site
  - Current official ownership needs to be ascertained
  - Site-specific data for MC not identified
  - No additional MEC discoveries known onsite
- Phase 3: Define Data Collection Options
  - Non-Measurement Data
  - Field Sampling Data
- Phase 4: Finalize Data Collection Program (see Handout)
  - Project objective
  - Data needs (contaminants, media, location and number of samples, performance criteria)
  - Sampling and analysis methods

US Army Corps of Engineers
Baltimore District

Proposed Field Work (See Handout)

- MC Sampling
  - 21 Surface / Subsurface Soil
  - 5 Groundwater
- MEC Investigation
  - Geophysical reconnaissance
  - Meandering path



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The Path Forward

- Schedule Review **(See Handout)**
- Complete TPP Worksheets **(See Handout)**
- Prepare Draft & Final TPP Memorandum
- Prepare Draft and Final Site Specific Work Plan Addendum
- Closing Remarks
- TPP Meeting Evaluation **(See Handout)**

US Army Corps
of Engineers
Baltimore District

Malta Test Station
Military Munitions Response Program
Site Inspection: Abbreviated Accident Prevention Plan

Technical Project Planning Meeting
May 23, 2006
Malta, NY

US Army Corps of Engineers
Baltimore District

Abbreviated Accident Prevention Plan (AAPP)

- Purpose
  - Safety procedures for sites with suspected or confirmed MEC where a site visit is being performed
  - Reinforces plans in the programmatic work plan
- Procedures
  - All site visit attendees to attend safety briefing, sign, and comply with the AAPP
  - Site visit conducted under OE Safety Specialist leadership

US Army Corps of Engineers
Baltimore District

Malta Site Visit: Summary Requirements

See CEHNC-OE-CX Memorandum dated Mar 16. 2006 (Procedures for PA/ SI teams that encounter UXO…)

- **Never stray from the cleared path or road**
- **Never touch or move anything suspicious**
- **Never collect "Souvenirs"**
- **Report all Suspicious items to the property owner and have him/her call emergency response authority**
- **Any UXO items located MUST be reported. If the property owner does not call inform the property owner that you will.**

ATTACHMENT 2

(DQO Worksheets)

Data Quality Objective Worksheet

Site: **Malta Test Station**
Project: FUDS MMRP SI Project Number **C02NY089802**
DQO Statement Number: **1 of 6**

DQO Element Description	Site-Specific DQO Statement
Intended Data Use(s):	
Project Objective(s) Satisfied	Determine the presence or absence of MEC
Data Needs Requirements:	
Data User Perspective(s)	Risk-MEC, Compliance
Contaminant or Characteristic of Interest	Conduct a site reconnaissance and visual search using a trained Unexploded Ordnance (UXO) Technician with a handheld analog magnetometer searching for physical evidence to indicate the presence of MEC (i.e., MEC on surface, munitions debris, soil discoloration etc.).
Media of Interest	Soil
Required Sampling Locations or Areas	Areas where MEC has been identified historically
Number of Samples Required	Not Applicable (N/A)
Reference Concentration of Interest or Other Performance Criteria	Institutional knowledge indicates that projectiles used at the Malta Test Station were solid (i.e. lead, sand, other) filled surrogates used in the evaluation of various military components. During the site visit on May 23, 2006, certain areas within Malta (i.e. Firing Range, Control Station, and Fuel Storage Magazines) were noted to have numerous munitions, munition fragments, or metallic debris present by visual observation and as anomalous detections via the Schonstedt. The Alion UXO Technician determined, based on institutional knowledge, these items to be surrogates or munitions/metal fragments in those cases where a determination could be made. During SI field work, the USACE UXO Technician and Alion UXO Technician will assess any items found prior to determining the potential hazard of the item. If the item (MEC) indicates possible risks to workers or other receptors, then a RI/FS may be recommended. If no anomalies are found, or if the UXO Technicians indicate that there is

Data Quality Objective Worksheet	
Site: **Malta Test Station** Project: FUDS MMRP SI Project Number **C02NY089802** DQO Statement Number: **1 of 6**	
DQO Element Description	**Site-Specific DQO Statement**
	no potential hazard from MEC, then MEC found previously may be considered an anomaly and No Department of Defense Action Indicated (NDAI) may be recommended. In each of these instances, all lines of evidence (e.g., historic data, field data, etc.) will be used to make a final decision for an NDAI or RI/FS.
Appropriate Sampling and Analysis Methods:	
Sampling Method and Depths	Geophysics with a handheld analog magnetometer.
Analytical Method	N/A

Data Quality Objective Worksheet

Site: **Malta Test Station**
Project: FUDS MMRP SI Project Number **C02NY089802**
DQO Statement Number: **2 of 6**

DQO Element Description	Site-Specific DQO Statement
Intended Data Use(s):	
Project Objective(s) Satisfied	Eliminate from further consideration those releases that pose no significant threat to public health or the environment by using data collected by others (if available) and collecting adequate samples to assess the presence or absence of Munitions Constituents (MC) at the site.
Data Needs Requirements:	
Data User Perspective(s)	Risk-MC, Compliance
Contaminant or Characteristic of Interest	Metals and explosives
Media of Interest	Soil, Groundwater
Required Sampling Locations or Areas	Areas where MEC has been identified historically
Number of Samples Required	21 Soil, 5 Groundwater
Reference Concentration of Interest or Other Performance Criteria	In most cases, contamination findings that exceed federal or state Maximum Contamination Levels (MCLs), or Risk Based Concentrations (RBCs) (based on current land use), or background levels (may be based on previous studies) posing a risk to receptors will be sufficient to signal the need for a detailed investigation of the nature and extent of contamination (RI/FS) for a particular MMRP site.
Appropriate Sampling and Analysis Methods:	
Sampling Method and Depths	Soil-direct push depth 6 inches, Groundwater-use existing wells
Analytical Method	The following analytical methods are proposed: Explosives Method - SW8330A, SW8330M, SW8330M; Metals Method - SW6010B, SW7471. Explosives Prep Method – 8330A; Metals Prep Method – 3050B/3050M.

Data Quality Objective Worksheet

Site: **Malta Test Station**
Project: FUDS MMRP SI Project Number **C02NY089802**
DQO Statement Number: **3 of 6**

DQO Element Description	Site-Specific DQO Statement
Intended Data Use(s):	
Project Objective(s) Satisfied	Determine the potential need for an emergency response action and/or a TCRA for MEC by collecting data from previous investigations/reports, conducting site visits, and performing analog geophysical activities.
Data Needs Requirements:	
Data User Perspective(s)	Risk-MEC, Compliance
Contaminant or Characteristic of Interest	Conduct a site reconnaissance and visual search using a trained UXO Technician with a handheld analog magnetometer searching for physical evidence to indicate the presence of MEC requiring a TCRA
Media of Interest	Soil
Required Sampling Locations or Areas	Areas where MEC has been identified historically
Number of Samples Required	N/A
Reference Concentration of Interest or Other Performance Criteria	If there is a complete pathway between source and receptor and the MEC constitutes an imminent threat to the local populace or site personnel, the Alion Team will immediately notify the property owner, the geographic and the Military Munitions Design Center USACE Project Managers. The Military Munitions Design Center Project Manager will then coordinate with the Military Munitions Design Center Ordnance and Explosives Safety Lead and the Military Munitions Center of Expertise (CX) Huntsville USACE. Local law enforcement will be contacted by the property owner.
Appropriate Sampling and Analysis Methods:	
Sampling Method and Depths	Geophysics with a handheld analog magnetometer.
Analytical Method	N/A

Data Quality Objective Worksheet	
Site: **Malta Test Station**	
Project: FUDS MMRP SI Project Number **C02NY089802**	
DQO Statement Number: **4 of 6**	
DQO Element Description	**Site-Specific DQO Statement**
Intended Data Use(s):	
Project Objective(s) Satisfied	Collect, or develop, additional data, as appropriate, for Hazard Ranking System (HRS) scoring by Environmental Protection Agency (EPA).
Data Needs Requirements:	
Data User Perspective(s)	Risk-MEC and MC, Compliance
Contaminant or Characteristic of Interest	Data for HRS worksheet parameters will be compiled by gathering basic identifying information, general site description, site type, waste description, demographics, water use, sensitive environments, and response actions.
Media of Interest	Soil, Groundwater
Required Sampling Locations or Areas	Areas where MEC has been identified historically
Number of Samples Required	N/A
Reference Concentration of Interest or Other Performance Criteria	The HRS levels of contamination are Level I (concentrations that meet the criteria for actual contamination and are at or above media-specific benchmark levels), Level II (concentrations that either meet the criteria for actual contamination but are less than media-specific benchmarks, or meet the criteria for actual contamination based on direct observation), and Potential (no observed release is required but targets must be within the target distance limit). These levels are weighted for each target by EPA (Level I carries the greatest weight) and scores of 28.5 or above are then eligible for listing on the National Priorities List (NPL).
Appropriate Sampling and Analysis Methods:	
Sampling Method and Depths	Data gathering prior to field activities as well as additional data gathered during field reconnaissance and sampling. Refer to NPL Characteristics Data Collection Form, version 3.0, December 2001.

Data Quality Objective Worksheet	
Site: **Malta Test Station**	
Project: FUDS MMRP SI Project Number **C02NY089802**	
DQO Statement Number: **4 of 6**	
DQO Element Description	**Site-Specific DQO Statement**
Analytical Method	N/A

Data Quality Objective Worksheet

Site: **Malta Test Station**
Project: FUDS MMRP SI Project Number **C02NY089802**
DQO Statement Number: **5 of 6**

DQO Element Description	Site-Specific DQO Statement
Intended Data Use(s):	
Project Objective(s) Satisfied	Collect data, as appropriate, to characterize a MEC/MC release and determines if an Remedial Investigation and Feasibility Study (RI/FS) is necessary.
Data Needs Requirements:	
Data User Perspective(s)	Risk-MEC and MC, Compliance
Contaminant or Characteristic of Interest	MEC and MC
Media of Interest	Soil, Groundwater
Required Sampling Locations or Areas	Areas where MEC has been identified historically
Number of Samples Required	N/A
Reference Concentration of Interest or Other Performance Criteria	If one piece of MEC is found with the magnetometer or if physical evidence indicating the presence of MEC is found during the visual inspection, then RI/FS may be recommended. If any samples for MC exceed the PMMQL (action levels) and are greater than background levels (for metals), RI/FS will be recommended.
Appropriate Sampling and Analysis Methods:	
Sampling Method and Depths	For MEC, geophysics with a handheld analog magnetometer; For MC, soil-direct push depth 6”and groundwater samples using existing wells onsite
Analytical Method	N/A

Data Quality Objective Worksheet

Site: **Malta Test Station**
Project: FUDS MMRP SI Project Number **C02NY089802**
DQO Statement Number: **6 of 6**

DQO Element Description	Site-Specific DQO Statement
Intended Data Use(s):	
Project Objective(s) Satisfied	Collect the additional data necessary to the complete the Munitions Response Site Prioritization Protocol (MRSPP).
Data Needs Requirements:	
Data User Perspective(s)	Risk-MEC and MC, Compliance
Contaminant or Characteristic of Interest	Explosive Hazard Evaluation (EHE), Chemical Warfare Material Hazard Evaluation (CHE), and Health Hazard Evaluation (HHE). For the EHE and CHE modules, factors evaluated include the details of the hazard, accessibility to the Munitions Response Site (MRS), and receptor information. HHE factors include an evaluation of MC and any non-munitions-related incidental contaminants present, receptor information, and details pertaining to environmental migration pathways. Typical information compiled includes details pertaining to historical use, current/future use and ownership, cultural/ecological resources, and structures.
Media of Interest	Soil, Groundwater
Required Sampling Locations or Areas	Areas where MEC has been identified historically
Number of Samples Required	N/A
Reference Concentration of Interest or Other Performance Criteria	An MRS priority is determined by USACE based on integrating the ratings from the EHE, CHE, and HHE modules. Refer to Federal Register/Vol. 70, No. 192/Wednesday, October 5, 2005/Rules and Regulations.
Appropriate Sampling and Analysis Methods:	
Sampling Method and Depths	Data gathering prior to field activities as well as additional data gathered during

Data Quality Objective Worksheet	
Site: **Malta Test Station** Project: FUDS MMRP SI Project Number **C02NY089802** DQO Statement Number: **6 of 6**	
DQO Element Description	**Site-Specific DQO Statement**
	field reconnaissance and sampling. Refer to Federal Register/Vol. 70, No. 192/Wednesday, October 5, 2005/Rules and Regulations.
Analytical Method	N/A

ATTACHMENT 3

(TPP Phase I MFR Worksheet)

Technical Project Planning

Draft Phase I MFR Worksheet

Author(s): Alion Team
Latest Revision Date: 31 May 2006

Reviewer:
Review Date:

Location: Malta, New York
Site(s): Malta Test Station
Project: MMRP Project C02NY089802

(Attach Phase I MFR to PMP)

TPP Team	**EM 200-1-2, Paragraph 1.1.1**	
Decision Maker		
Customer	USACE	
Project Manager	Gregory Goepfert- USACE New York District; Robert Williams-USACE Baltimore District	
Team Leaders	Corinne Shia—Alion Team, Tim Reese—Alion Team	
Regulators	NYSDEC, USEPA, NYSDOH	
Stakeholders	Luther Forest Technology Economic Development Corp (LFTCEDC) (Owner) Saratoga Economic Development Corp. Wright Malta Corp. GE Corp. NYSERDA	
Data Types	**Data User**	**Data Gatherer**
Compliance / Regulatory (CR)	USACE – Baltimore / New York / Huntsville Districts	Alion Team
Demographics/Land Use (LU)	USACE – Baltimore / New York / Huntsville Districts	Alion Team
Site Conditions (SC)	USACE – Baltimore / New York / Huntsville Districts	Alion Team
Munitions and Explosives of Concern (MEC)	USACE – Baltimore / New York / Huntsville Districts	Alion Team

CUSTOMER'S GOALS	EM 200-1-1, Paragraph 1.1.2	
Future Land Use(s) @ Site	**Issues and Regulatory Compliance Status**	**Site-specific Closeout Goal (if applicable)**
Land Development	Potential for metals, explosives and perchlorate in soil as well as munitions and explosives of concern (MEC)	

Site Closeout Statement
Achieving the walk-away goal, or final condition of the site, as envisioned by the customer. The final condition of the site includes safe access following any remediation, maintenance, and monitoring for activities that are consistent with the current and future land use (land development) of the site.
Customer's Schedule Requirements
The USACE and Alion Team will work with LFTCEDC to identify and implement schedule accelerations where possible to complete the project prior to October 2007.
Customer's Site Budget
N/A
IDENTIFY SITE APPROACH

EXISTING SITE INFORMATION & DATA EM 200-1-2, Paragraph 1.1.3 and 1.2.1		
Attachment(s) to Phase I MFR	**Located at Repository**	**Preliminary Conceptual Site Model**
1980 INPR, amended November 2005	USACE - New York	Yes
1989 Aerial Photo Report (EPA)	LFTCEDC	No
1991 Archaeological Survey (Hartgen Archaeological Association)	LFTCEDC	No
1992 Cultural Resources Survey (Hartgen Archaeological Association)	LFTCEDC	No
1992 Literature Search Report (LSR) (Geraghty & Miller)	LFTCEDC	No
1995 EPA Remedial Investigation (RI) Report	USACE - New York	Yes
1999 EPA Superfund Preliminary Site-Closeout Report	USACE - New York	Yes
2006 Luther Corporation Environmental Site Assessment	USACE - New York	Yes
POTENTIAL POINTS OF COMPLIANCE EM 200-1-2, Paragraph 1.2.1.3		
NYSDEC Regulations (within boundaries of areas of concern)		
Region II USEPA (within boundaries of areas of concern)		
MEDIA OF POTENTIAL CONCERN EM 200-1-2, Paragraph 1.2.1.4		
Surface and Subsurface Soil		
Groundwater		
SITE OBJECTIVES EM 200-1-2, Paragraph 1.2.2		
See attached		
REGULATOR AND STAKEHOLDER PERSPECTIVES EM 200-1-1, Paragraph 1.2.3		
Regulators	Community Interests	Others
PROBABLE REMEDIES EM 200-1-2, Paragraph 1.2.4		
Detonation or removal of suspect MEC found during the site investigation.		
Removal of residual MEC from the site, treatment of MC via removal, onsite treatment, and engineering/institutional controls as appropriate to reduce the risk to future site users.		

EXECUTABLE STAGES TO SITE CLOSEOUT **EM 200-1-2, Paragraph 1.2.5**
Site Inspection
Remedial Investigation/Feasibility Study or NDAI
Proposed Plan
ROD/Decision Document
Remedial Design
Remedial Action
Removal Action (if necessary)
SITE CONSTRAINTS AND DEPENDENCIES **EM 200-1-2, Paragraph 1.3.1**
Administrative Constraints and Dependencies
SI needs to be completed by October 2007 to meet program needs. Access agreements
need to be in place prior to sampling. Acceptance of Programmatic Work Plan and Site-specific
Work Plan Addendum.
Technical Constraints and Dependencies
Need MEC avoidance for sampling. Need to work with the stakeholders to gain access to site.
Need to abide by Health and Safety Plan
Legal and Regulatory Milestones and Requirements
No agreements or permits in place between USACE or Owner and Regulatory Personnel
Regulatory evaluation of SI work plan and reporting of SI results and recommendations
CURRENT EXECUTABLE STAGE **EM 200-1-2, Paragraph 1.3.3**
Site Inspection

Basic (For Current Projects)	**Optimum** (For Future Projects)	**Excessive** (Objectives that do not lead to site closeout)
Sample collection effort minimal for MC MEC analysis		

Acronyms

EM-Engineer Manual (see www.usace.army.mil/inet/usace-docs/)

NDAI--No Department of Defense Action Indicated

RA--Removal Action

RAC--Risk Assessment Code type impact analysis conducted during INPR, ASR, and Supplemental ASR

TPP-Technical Project Planning

MEC - Munitions and Explosives of Concern

MC - Munitions Constituents

PROJECT OBJECTIVES WORKSHEET

SITE: **C02NY089802**

PROJECT: **Malta Test Station, Malta, NY**

Site Objective [a]					Data Needs [d]	Data Collection Methods	Project Objective Classification [e]
Number	Executable Stage [b]		Description [c]	Source			
	Current	Future					
1	Yes		Presence/Absence of MEC and MC	Prior Reports	CR, LU, SC, UXO	MEC Visual inspection, MC Sampling	Basic
2	Yes		Eliminate from further consideration those releases that pose no significant threat to public health or the environment by collecting adequate samples to assess the presence or absence of MC at the site		CR, LU, SC, UXO	MEC Visual inspection, MC Sampling	Basic
3	Yes		Determine the potential need for a TCRA by collecting data from previous investigations/reports, site visits, and geophysics		CR, LU, SC, UXO	MEC Visual inspection, MC Sampling	Basic
4	Yes		Collect, or develop, additional data, as appropriate, for Hazard Ranking System (HRS) scoring by Environmental Protection Agency (EPA)		LU, SC, UXO	MEC Visual inspection, MC Sampling	Basic
5	Yes		Collect data, as appropriate, to characterize the release for effective and rapid initiation of the Remedial Investigation and Feasibility Study (RI/FS)		CR, LU, SC, UXO	MEC Visual inspection, MC Sampling	Basic
6	Yes		Collect the additional data necessary to the complete the Munitions Response Site Prioritization Protocol (MRSPP)		CR, LU, SC, UXO	MEC Visual inspection, MC Sampling	Basic

a Refer to EM 200-1-2, Paragraph 1.2.2

b Refer to EM 200-1-2, Paragraph 1.2.5

c For example, Meeting with Customer/stakeholder/Regulator, State Regulation____,

d Data Needs: **CR**-Compliance/Regulatory, **LU**-Land Use/Demographics, **SC**-Site Conditions, and **UXO**-OE UXO

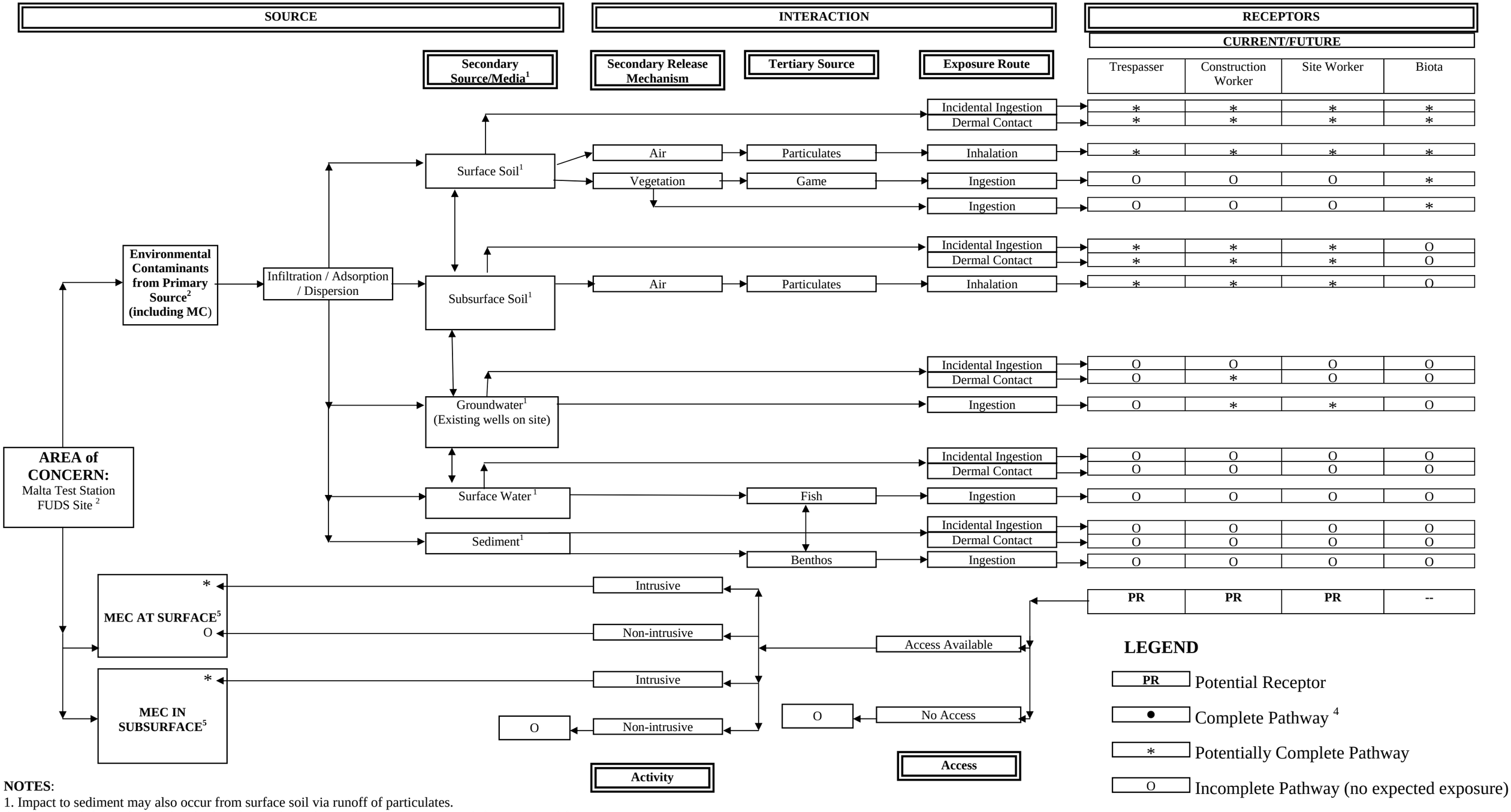
e Classification of project objectives can only occur after the current project has been identified. Refer to EM 200-1-2, Paragraph 1.3.3.

Acronyms

EM-Engineer Manual (see www.usace.army.mil/inet/usace-docs/)
NDAI--No Department of Defense Action Indicated
RA--Removal Action
RAC--Risk Assessment Code
type impact analysis conducted
during INPR, ASR, and
Supplemental ASR
TPP-Technical Project Planning
MEC - Munitions and Explosives of Concern
MC - Munitions Constituents

ATTACHMENT 4

(Working Draft CSM)



NOTES:

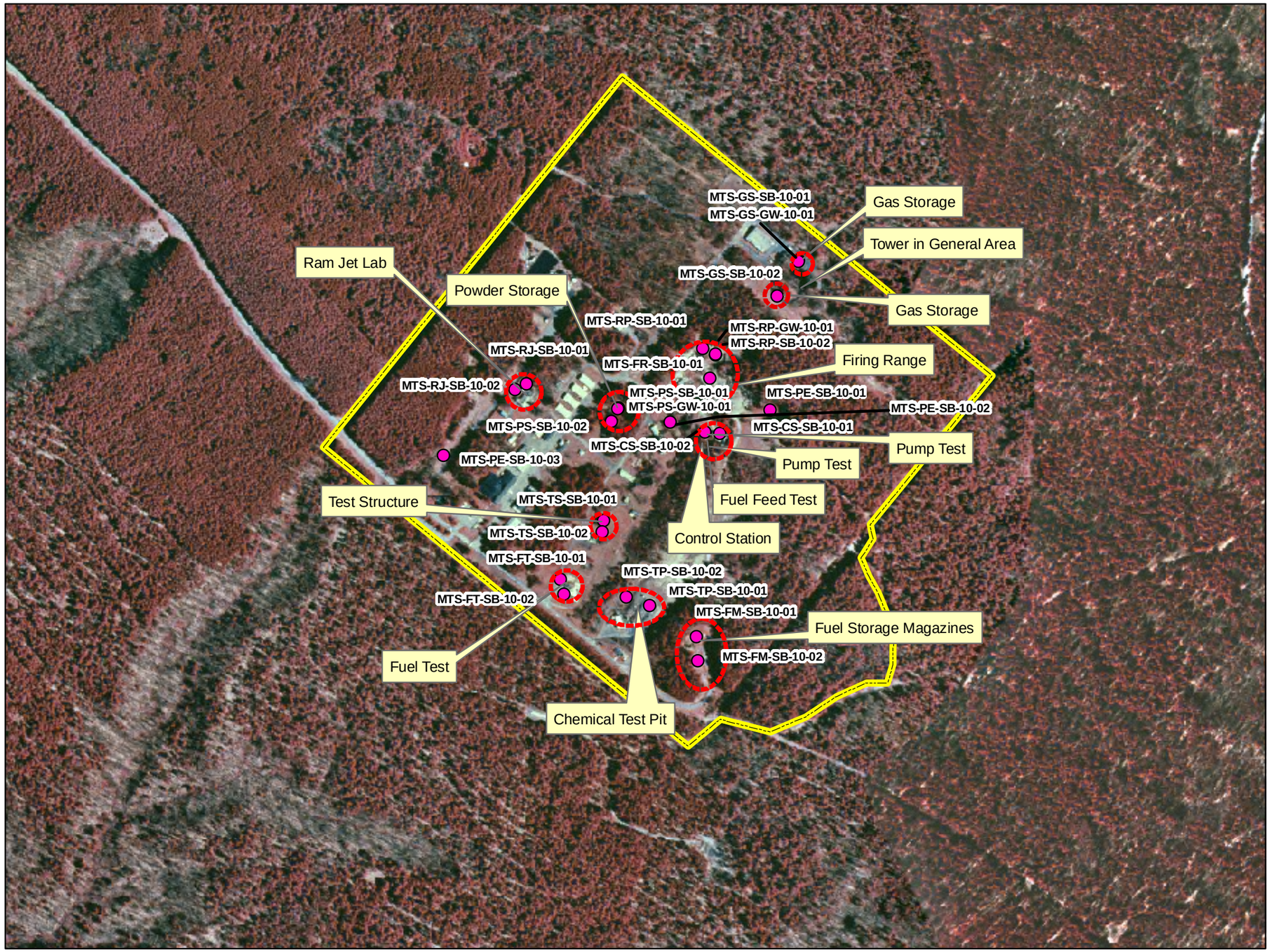
1. Impact to sediment may also occur from surface soil via runoff of particulates.
A separate risk for surface soil and subsurface soil may be combined to represent risk from total soil from some receptors. Impact to surface water may also occur from infiltration of groundwater.
2. Primary sources will vary but are expected to include test pads, target berms and storage tanks.
3. CSM will be refined as more data is obtained and finalized in the Site Inspection Report.
4. For a pathway to be complete, it must include a source, an exposure medium, an exposure route, and a receptor. A complete pathway may also include a release mechanism and a transport medium.
5. Interaction between a potential receptor and MEC has two components: access and activity.

DIAGRAM OF THE INTEGRATED CONCEPTUAL SITE MODEL FOR MALTA TEST STATION MMRP FUDS SITE[3] **(WORKING DRAFT)**

Reference: **USACE. 2003. EM 1110-1-1200. Conceptual Site Models for Ordnance and Explosives (OE) and Hazardous, Toxic, and Radioactive Waste (HTRW) Projects**

ATTACHMENT 5

(Map of Proposed Sampling Locations)



Malta Test Station

Malta, New York

Legend

- FUDS Boundary
- Proposed Sampling Locations

Sample ID Designation

"MLT-FT-SS-00-00"

Site Name-Sampling Location-Sample Type-Sample Depth-Sample #

Sample Location Legend

CS- Control Station
FT- Fuel Test
FR- Firing Range
GS- Gas Storage
PE- Proposed Electric
PS- Powder Storage
RJ- Ram Jet
RP- Range Pond
TS- Test Structure
TP- Test Pit

Source: Luther Forest Technology Campus, Potential Ordnance Impact Areas March 28, 2006
Potential Ordnance Impact Areas as per Ray Kazyaka dated March 23, 2006

Source of Aerial: United States Department of Agriculture (2004).

N
W E
S

0 350 700 1,400
Feet

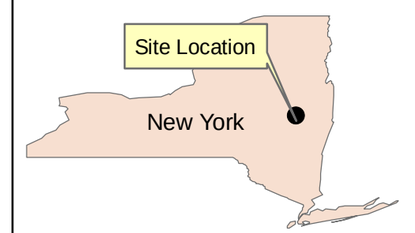


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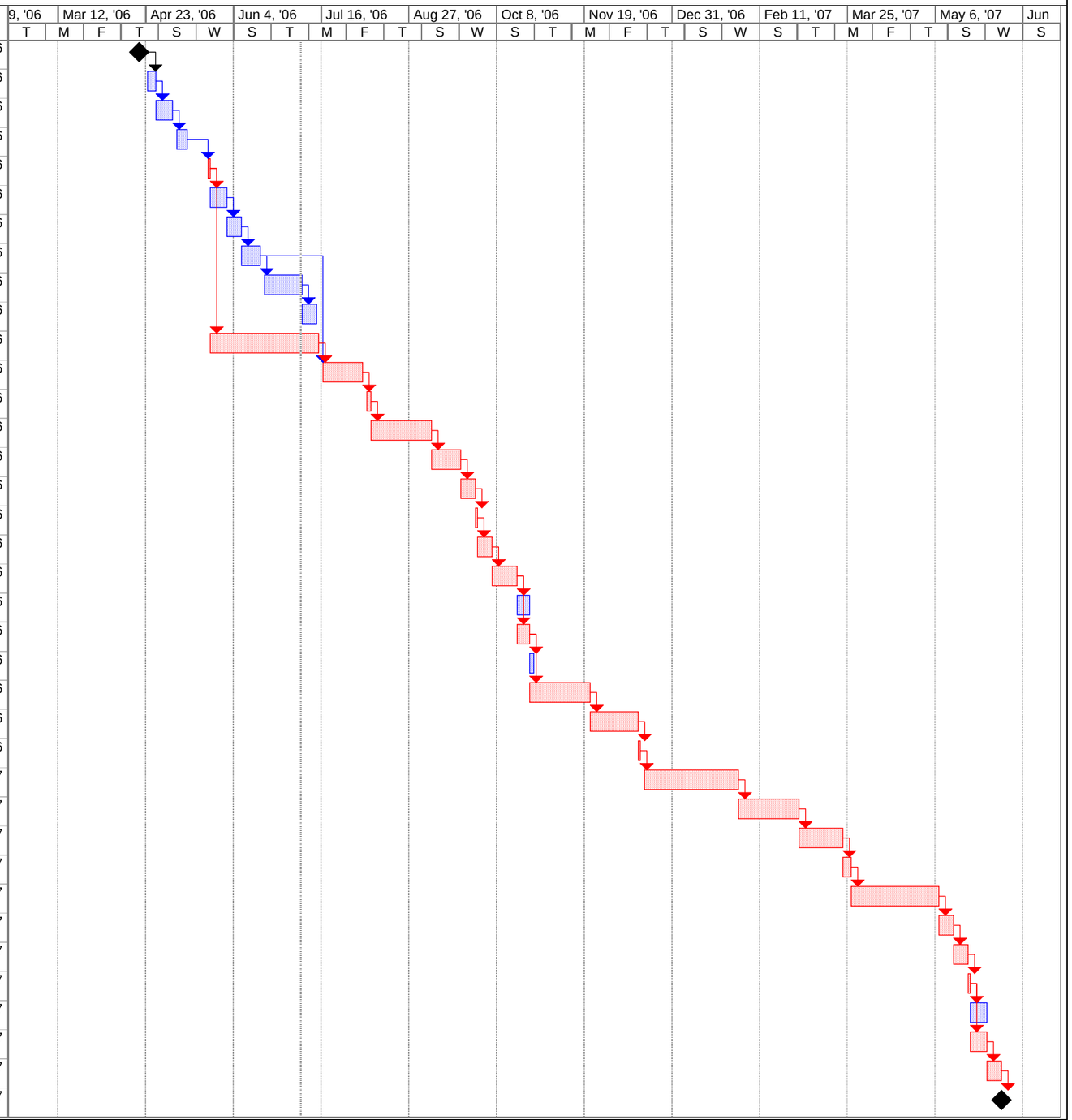
Figure 5. Proposed Sample Locations.

ATTACHMENT 6

(Revised Schedule)

MALTA TEST STATION

ID	Task Name	Duration	Start	Finish
1	SITE AWARD	0 days	Thu 4/20/06	Thu 4/20/06
2	ADDITIONAL HISTORICAL DATA RESEARCH	4 days	Mon 4/24/06	Thu 4/27/06
3	PREPARE 'READ AHEAD' PACKAGE, DRAFT CSM, & DRAFT TPP SLIDES	6 days	Fri 4/28/06	Fri 5/5/06
4	BALTIMORE USACE REVIEW 'READ AHEAD' PACKAGE	5 days	Mon 5/8/06	Fri 5/12/06
5	TPP # 1	1 day	Tue 5/23/06	Tue 5/23/06
6	TPP # 1 MEMORANDUM (DRAFT) PREPARATION	5 days	Wed 5/24/06	Wed 5/31/06
7	TPP # 1 MEMO SUBMITTED TO USACE FOR DISTRIBUTION TO STAKEHOLDERS	5 days	Thu 6/1/06	Wed 6/7/06
8	TPP # 1 MEMO STAKEHOLDER & USACE REVIEW & COMMENT PERIOD	7 days	Thu 6/8/06	Fri 6/16/06
9	TPP # 1 MEMO ALION RESPOND TO COMMENTS & PREPARATION OF FINAL TPP	13 days	Mon 6/19/06	Thu 7/6/06
10	TPP # 1 RESPONSE TO COMMENTS REVIEW / MEMORANDUM CONCURRENCE	5 days	Fri 7/7/06	Thu 7/13/06
11	COLLECTION OF ADDITIONAL DATA FROM SITE OWNERS FOLLOWING TPP #1	36 days	Wed 5/24/06	Fri 7/14/06
12	PREPARE DRAFT SS-WP w/ADDITIONAL SITE OWNER DATA	15 days	Mon 7/17/06	Fri 8/4/06
13	DRAFT SS-WP SUBMITTED TO USACE FOR DISTRIBUTION TO STAKEHOLDERS	2 days	Mon 8/7/06	Tue 8/8/06
14	REVIEW & COMMENT PERIOD FOR DRAFT SS-WP BY USACE & STAKEHOLDERS	20 days	Wed 8/9/06	Wed 9/6/06
15	RESPOND TO COMMENTS ON SS-WP	10 days	Thu 9/7/06	Wed 9/20/06
16	USACE & STAKEHOLDERS REVIEW RESPONSES	5 days	Thu 9/21/06	Wed 9/27/06
17	CONFERENCE CALL (IF NEEDED) WITH COMMENTERS TO FINALIZE SS-WP	1 day	Thu 9/28/06	Thu 9/28/06
18	PRODUCE FINAL SS-WP	5 days	Fri 9/29/06	Thu 10/5/06
19	MOBILIZATION TO SITE	7 days	Fri 10/6/06	Tue 10/17/06
20	FIELD WORK - MEC SURVEY, GEOPHYSICS, AND MC SAMPLING	4 days	Wed 10/18/06	Mon 10/23/06
21	WALKOVER SURVEY OF PROPOSED ELECTRIC TRANSMISSION LINE	4 days	Wed 10/18/06	Mon 10/23/06
22	DEMOBILIZATION FROM SITE	2 days	Tue 10/24/06	Wed 10/25/06
23	DATA TO LABORATORY	20 days	Tue 10/24/06	Tue 11/21/06
24	DATA TO VALIDATOR	15 days	Wed 11/22/06	Thu 12/14/06
25	DATA TO ALION TEAM	1 day	Fri 12/15/06	Fri 12/15/06
26	DRAFT SI REPORT	30 days	Mon 12/18/06	Wed 1/31/07
27	REVIEW PERIOD OF DRAFT SI REPORT BY USACE	20 days	Thu 2/1/07	Thu 3/1/07
28	RESPOND TO USACE COMMENT & PRODUCE DRAFT FINAL SI REPORT	15 days	Fri 3/2/07	Thu 3/22/07
29	DRAFT FINAL REPORT SUBMITTED TO USACE FOR DISTRIBUTION TO STAKEHOLDERS	2 days	Fri 3/23/07	Mon 3/26/07
30	REVIEW & COMMENT PERIOD FOR DRAFT FINAL REPORT BY USACE & STAKEHOLDERS	30 days	Tue 3/27/07	Mon 5/7/07
31	RESPOND TO COMMENTS ON DRAFT FINAL REPORT	5 days	Tue 5/8/07	Mon 5/14/07
32	USACE & STAEHOLDER REVIEW RESPONSES	5 days	Tue 5/15/07	Mon 5/21/07
33	TPP # 2 (IF NEEDED) WITH STAKEHOLDERS/COMMENTERS TO FINALIZE SI REPORT	1 day	Tue 5/22/07	Tue 5/22/07
34	TPP # 2 MEMORANDUM PREPARATION	5 days	Wed 5/23/07	Wed 5/30/07
35	PRODUCE FINAL SI REPORT	5 days	Wed 5/23/07	Wed 5/30/07
36	USACE ACCEPTANCE OF FINAL SI REPORT	5 days	Thu 5/31/07	Wed 6/6/07
37	PROJECT CLOSEOUT	0 days	Wed 6/6/07	Wed 6/6/07



Date: Thu 7/6/06
Malta Final TPP Schedule 070606.mp

Task
Critical Task
Progress
Milestone
Summary
Rolled Up Task
Rolled Up Critical Task
Rolled Up Milestone
Rolled Up Progress
Split
External Tasks
Project Summary
Group By Summary
Deadline

NOTES: 1) Duration is in weekdays. 2) Holidays are not counted in duration.

SCHEDULE FOR SITE INSPECTION OF MALTA TEST STATION SITE NO. C02NY0898

FINAL

Response to Comments –Technical Project Planning (TPP) Meeting Memorandum for the Formerly Used Defense Site (FUDS) Malta Test Station (May 2006)

FUDS Project # **C02NY089802**

Prepared Under: **Contract No. W912DY-04-D-0017**
Delivery Order # 00170001

Prepared for:

U.S. Army Engineering and Support Center, Huntsville
4280 University Square
Huntsville, AL 35807
and
U.S. Army Corps of Engineers, Baltimore District
City Crescent Building
10 South Howard Street, 10th Floor
Baltimore, Maryland 21201

Prepared by:

Alion Science and Technology
1000 Park Forty Plaza
Suite 200
Durham, North Carolina 27713

July 2006

PROJECT: FORMER MALTA TEST STATION MMRP SITE INSPECTION (SI) C02NY089802			
DESIGN REVIEW COMENTS			
		REVIEW: DRAFT TPP Memo DATE: 7 June 2006 NAME: Gregory J. Goepfert (USACE – New York District)	
ITEM	DRAWING NO OR REFERENCE	COMMENT	ACTION
1	Signature Block	My signature block should say "Gregory J. Goepfert"; that is my official signature	A-Concur. Revised as requested.
2	Page 3	I believe Mr. Butler's name is "Todd" not "Ted"	A-Concur. Revised as requested.
3	Page 5, Site Owner/Potential Stakeholder's Paragraph	My recollection of Mr. Kelly's words were that he "….could not comment on any ordnance issues associated with the former safety leasehold" vs. "…is not aware of ordnance issues associated with adjacent land."	A-Concur. Revised as requested.
4	Page 6	Site's [add apostrophe]	A-Concur. Revised as requested.
5	Page 6-7	Wells/Local Water Supply: diction, last sentence-- …depending on their proximity to MC hazards.	A-Concur. Revised as requested.
6	Page 8, Safety/Field Constraints: last sentence	A *daily* tailgate safety briefing… Last paragraph: rewrite as follows: *The site is eligible for inclusion in the National Register of Historic Places. Mr. Goepfert has communicated with the State Historic Preservation Officer (SHPO), and it appears that a Section 106 consultation will not be necessary at the level of effort envisioned for this site inspection.*	A-Concur. Revised as requested.
7	Page 9, Public Relations, 2nd Paragraph, 2nd Sentence	Rewrite as follows: In this situation, the Alion team will contact the USACE Project Manager (Mr. Goepfert), who will in turn contact the property owner representative (Mr. Kelley, LFTCDC) and Baltimore District, USACE; Mr. Kelley will be requested to call 911. [last sentence is fine]	A-Concur with change to comment per Baltimore District. The paragraph has been revised as follows: "The procedures were outlined in the event that ordnance is found onsite and the UXO Technician deems the item to be unsafe. In this situation, the Alion team will contact the property owner representative (Mr. Kelley, LFTCDC) and Mr. Kelley will be requested to call 911. The Alion team will also contact the geographic USACE Project Manager (Mr. Goepfert) and Baltimore District / Military Munitions Design Center. Baltimore District will notify the Military Munitions Center of Expertise (CX) Huntsville USACE." [last sentence did not change]

8	Site Closeout Statement, Draft Phase 1 MFR Worksheet	We typically do not commit to remediation of a site based on "future land use", especially since we don't know who the future site owner may be, and the use of the site may require more extensive cleanup (e.g., residential) vs. the site's current use (i.e., commercial/industrial). We can say that our goal is to address any military munitions or munitions constituent hazards (if any) through remediation, maintenance and monitoring, subject to the availability of funds. The hazards must be associated with Department of Defense control of the site.	A-Concur. The Site Closeout Statement has been re-written as follows: "To address military munitions or munitions constituent hazards (if any) through remediation, maintenance, and monitoring, subject to the availability of funds. The hazards must be associated with the Department of Defense control of the site."

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DESIGN REVIEW COMENTS			
		REVIEW: DRAFT TPP Memo DATE: 15 June 2006 NAME: John S. Munsey (C.T. Male Associates)	
ITEM	DRAWING NO OR REFERENCE	COMMENT	ACTION
1	General	Please add reference to the fact that General Electric (GE) was invited to the meeting, but declined to attend in writing	A-Concur. The following sentence has been added to the note at the bottom of the signature page: "A representative from the General Electric Company (GE) was invited to the TPP meeting, but declined to attend in writing."
2	Page 1, Introduction	LFTC and Malta Test Station are located in the Towns of Malta and Stillwater	A-Concur. Revised as requested.
3	Page 5, Previous Investigations	In the next to last sentence delete the word "extensively".	A-Concur. Revised as requested.
4	Page 8, Wells/Local Water Supply, 1st Paragraph	It is one public water supply system that is in proximity to the site. This existing water supply is known as Saratoga Water Services. This system has two (2) sources of groundwater, the Knapp Road Well Field to the south, and the Cold Springs Road well field to the north. I would estimate that groundwater generally lies ~15-25 feet below grade, but is deeper in some areas. Replace the word "hydrologically" with "hydrogeologically". Please note that there are also two (2) private water wells on site that serve the LFTC Campus Center.	A-Concur. The paragraph has been revised as follows: Mr. Munsey indicated that there is one public water supply system that is in proximity to the site. This existing water supply is known as Saratoga Water Services. This system has two sources of groundwater, the Knapp Road Well Field to the south, and Cold Springs Road well field to the north. The groundwater generally lies approximately 15-25 feet (ft) below grade, but is deeper in some areas. Residential consumers in the area are supplied by one of the systems located in a deep (200-400 ft), highly permeable aquifer. During the RI/FS, both aquifers/supply systems were determined to be disconnected hydrogeologically from any groundwater contamination at the site. Mr. Munsey also noted that there are at least two private water wells on site that serve the LFTCEDC.
5	Page 7, Action Items, at top of page	Please note that Mr. Meier (not Miller) is with GE.	A-Concur. Revised as requested.
6	Page 7, MEC findings	Please note that Mr. Miller indicated that not all geophysical anomalies identified during the RI were field verified.	A-Concur. The following sentence has been added to the paragraph: "Mr. Miller indicated that geophysical anomalies had been identified onsite during the RI, but

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ITEM	DRAWING NO OR REFERENCE	COMMENT	ACTION
			not all anomalies were field verified."
7	Page 7, Utilities:	Please delete the fifth sentence. It does not make sense to me.	A-Concur. Revised as requested.
8	Page 7, Action Items (bottom of page)	Add to first bullet that Alion will review existing data and review the subject areas with LFTCEDC representatives	A-Concur. The action item has been revised as follows: "The Alion Team will review existing data, review the subject areas with LFTCEDC representatives, and will locate utilities prior to subsurface sampling activities."
9	Page 8, 1st Paragraph	Ticks come out in early spring and persist till late Fall	A-Concur. The sentence has been revised as follows: "One meeting member mentioned that ticks inhabit the project area in from early spring until late fall."
10	Page 8 2nd Paragraph	Rewrite the first sentence to state that the Malta Test Station is eligible for inclusion on the State Register of Historic Sites, as determined by OPRHP	A-Concur. The paragraph has been revised as follows: "The site is eligible for inclusion in the National Register of Historic Places as determined by the New York State Office of Parks Recreation and Historic Preservation. Mr. Goepfert has communicated with the State Historic Preservation Officer (SHPO), and it appears that a Section 106 consultation will not be necessary at the level of effort envisioned for this site inspection."
11	Page 9, Path Forward, 3rd Bullet	Add by July 28, 2006 or sooner in order to streamline the process	A-Concur. Revised as requested.
12	DQO 1	We found more than "one piece of MEC" while we were in the field on the day of the TPP meeting. It is suggested that a more reasoned reference concentration be explained, based on known site specific conditions.	A-Concur. The DQO has been revised as follows: Institutional knowledge indicates that projectiles used at the Malta Test Station were solid (i.e. lead, sand, other) filled surrogates used in the evaluation of various military components. During the site visit on May 23, 2006, certain areas within Malta (i.e. Firing Range, Control Station, and Fuel Storage Magazines) were noted to have numerous munitions, munition fragments, or metallic debris present by visual

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		REVIEW: DRAFT TPP Memo DATE: 15 June 2006 NAME: John S. Munsey (C.T. Male Associates)	
ITEM	DRAWING NO OR REFERENCE	COMMENT	ACTION
			observation and as anomalous detections via the Schonstedt. The Alion UXO Technician determined, based on institutional knowledge, these items to be surrogates or munitions/metal fragments in those cases where a determination could be made. During SI field work, the USACE UXO Technician and Alion UXO Technician will assess any items found prior to determining the potential hazard of the item. If the item (MEC) indicates possible risks to workers or other receptors, then a RI/FS may be recommended. If no anomalies are found, or if the UXO Technicians indicate that there is no potential hazard from MEC, then MEC found previously may be considered an anomaly and No Department of Defense Action Indicated (NDAI) may be recommended. In each of these instances, all lines of evidence (e.g., historic data, field data, etc.) will be used to make a final decision for an NDAI or RI/FS.
13	DQO 3	It is unclear how using a handheld analog magnetometer that one would be able to make a determination of an "imminent threat". It is known that there will be geophysical anomalies, measured with any magnetometer on the subject site. Please explain.	A- Concur. The commenter is correct in that the handheld analog magnetometer will not determine if an item is an imminent threat. The UXO Technician will evaluate the item to determine if it constitutes an imminent threat. The section has been rewritten to be clearer.
14	DQO 5	Please consider modifying the project objective to more clearly state a release associated with ordnance or MEC	A- Concur. The project objective has been modified to the following: Collect data, as appropriate, to characterize a MEC/MC release and determines if an Remedial Investigation and Feasibility Study (RI/FS) is necessary.

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DESIGN REVIEW COMENTS			
		REVIEW: DRAFT TPP Memo DATE: 15 June 2006 NAME: John S. Munsey (C.T. Male Associates)	
ITEM	DRAWING NO OR REFERENCE	COMMENT	ACTION
			.
15	Draft Phase I MFR Worksheet	LFTCEDC desires to develop the entire Malta Test Station consistent with the SEQR record and local zoning. A short term goal is to enable the construction of the electric transmission line (ETL) through the Campus Center (construction planned to initiate Spring 2007 or earlier). How can this objective be met, consistent with the FUDS process?	A- Concur. This constraint will be included under "Customer's Schedule Requirements" as follows: To enable the construction of the electric transmission line (ETL) through the Campus Center (construction planned to initiate Spring 2007 or earlier). Please note that this SI will not alleviate the need for LFTCEDC from procuring a MEC contractor to provide MEC construction support of the ETL.
16	SI by October 2007	It is respectfully requested that the SI be completed prior to October 2007 (as stated under "administrative constraints and dependencies" table) and May 1, 2007 (as shown on GANT chart), consistent with LFTCEDC's request to streamline the process, to maximum extent practicable.	A- Concur. This information will be included under "Customer's Schedule Requirements". The USACE and Alion Team will work with LFTCEDC to identify and implement schedule accelerations where possible.
17	GANT Chart	Add a task that shows the early clearance for the installation of ETL through the Malta Test Station.	A- Concur. The task has been added to the project schedule to indicate analog magnetometry will be used at this site to identify anomalies Please note that this activity will not result in a surface or subsurface clearance of the ETL. LFTCEDC is responsible for procuring a MEC contractor to provide construction support of the ETL in terms of identification and possible removal of ordnance or ordnance items.

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DESIGN REVIEW COMENTS			
		REVIEW: TPP Memo DATE: 14 June 2006 NAME: Hamid Rafiee (USACE – New York District)	
ITEM	DRAWING NO OR REFERENCE	COMMENT	ACTION
1	2nd Page, TPP Purpose and Objectives	Technical Project Planning (TPP) purpose should be to **identify project objectives and designing data collection programs at HTRW sites or MMRP** sites. The TPP process helps ensure that the requisite type, quality, and quantity of data are obtained to satisfy project objectives that lead to **informed decisions and site closeout**. I believe the purpose was the first bold line rather than introduce FUDS program.	A-Concur. Revised as requested. From: The purpose of the TPP meeting was to provide the property owner(s), state regulators, and other interested parties/stakeholders with an understanding of the Formerly Used Defense Site (FUDS) program, an overview of the TPP process, and the necessary steps to complete the MMRP Site Inspection (SI) at the former Malta Test Station site. To: The purpose of the TPP meeting was to solicit input from stakeholders on the project objectives, data needs, and planning, sampling, and analysis approaches that satisfy FUDS SI for the Malta Test Station site.
2	Page 5, Last Paragraph	Need to close parenthesis by end of 4th line.	A-Concur. Revised as requested.

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DESIGN REVIEW COMENTS			
		REVIEW: DRAFT TPP Memo DATE: 7 June 2006 NAME: John Strang (USACE – New York District)	
ITEM	DRAWING NO OR REFERENCE	COMMENT	ACTION
1	Page 3	Correct spelling from Mike Halloch to Mike Hallock	A-Concur. Revised as requested
2	Page 4, Under Discussion Items, first sentence, second line	…a brief introduction to the purpose of the meeting and led introductions between members. (remove the word began).	A-Concur. Revised as requested
3	Page 6, last paragraph, third line	Correct Mr. Steve Meyer to Mr. Steve Meier of GE.	A-Concur. Revised as requested
4	Page 6, last paragraph, last line	….instead of installing more wells onsite, depending on the wells proximity…. (replacing of with on).	A-Concur. Revised as requested

ACTION CODES: A-ACCEPTED/CONCUR; D-ACTION DEFERRED; W-WITHDRAWN; N-NON-CONCUR; V-VE POTENTIAL/VEP ATTACHED