

FINAL

FIRST FIVE-YEAR REVIEW REPORT FOR

FOR

NANTUCKET BEACH FORMERLY USED DEFENSE SITE

PROJECT NO. D01MA045601

NANTUCKET ISLAND, MASSACHUSETTS

Prepared for:



U.S. Army Corps of Engineers
New England District

This Page Intentionally Left Blank

FINAL
FIRST FIVE YEAR REVIEW

Nantucket Beach Formerly Used Defense Site
Project No. D01MA045601
Nantucket Island, Massachusetts

Prepared for:

U.S. Army Corps of Engineers
New England District

Contract: W912DR-15-D-0015
Delivery Order 0003

Prepared by:

ERT, Inc.
Laurel, Maryland 20701
(301) 323-0620



Digitally signed by
ATILANO.JOHN.ANTHONY.II.1172226
082
Date: 2021.09.03 13:52:36 -04'00'

09/03/21

JOHN A. ATILANO II
Colonel, Corps of Engineers
District Engineer

Date

COMPLETION OF SENIOR TECHNICAL REVIEW

This document has been produced within the framework of the ERT, Inc. (ERT) quality management system. As such, a senior technical review has been conducted. This included review of all elements addressed within the document, proposed or utilized technologies and alternatives and their applications with respect to project objectives and framework of U.S. Army Corps of Engineers regulatory constraints under the current project, within which this work has been completed.



ELECTRONIC SIGNATURE

6/25/20

Thomas Bachovchin, PG
Senior Technical Reviewer

Date

COMPLETION OF INDEPENDENT TECHNICAL REVIEW

This document has been produced within the framework of ERT's quality management system. As such, an independent technical review, appropriate to the level of risk and complexity inherent in the project, has been conducted. This included a review of assumptions; alternatives evaluated; the appropriateness of data used and level of data obtained; and reasonableness of the results, including whether the product meets the project objectives. Comments and concerns resulting from review of the document have been addressed and corrected as necessary.



6/24/20

James Stuby, P.G
Independent Technical Reviewer

Date

Table of Contents

| | | |
|-----|---|----|
| 1.0 | INTRODUCTION | 1 |
| 1.1 | Site Background | 1 |
| 1.2 | Five-Year Review Summary Form | 2 |
| 2.0 | RESPONSE ACTION SUMMARY | 3 |
| 2.1 | Basis for Taking Action | 3 |
| 2.2 | Response Actions Summary | 3 |
| 2.3 | Status of Implementation | 3 |
| 3.0 | PROGRESS SINCE THE LAST REVIEW | 6 |
| 4.0 | FIVE YEAR REVIEW PROCESS | 7 |
| 4.1 | Community Notification, Involvement & Site Interviews | 7 |
| 4.2 | Data Review | 8 |
| 4.3 | Site Inspection | 9 |
| 5.0 | TECHNICAL ASSESSMENT | 10 |
| 6.0 | ISSUES & RECOMMENDATIONS | 11 |
| 7.0 | PROTECTIVENESS STATEMENT | 12 |
| 8.0 | NEXT REVIEW | 13 |
| 9.0 | REFERENCE LIST | 14 |
| | APPENDIX A – SITE FIGURE | 15 |
| | APPENDIX B – SITE INSPECTION INTERVIEWS and CHECKLIST | 16 |
| | APPENDIX C – EOD REPORTS | 17 |
| | APPENDIX D –ANNUAL LTM REPORTS | 19 |

LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|-------|--------------------------------------|
| CENAE | USACE New England District |
| DD | Decision Document |
| DoD | Department of Defense |
| EOD | Explosive Ordnance Disposal |
| FUDS | Formerly Used Defense Site |
| FYR | Five Year Review |
| LTM | Long-term Management |
| LUC | Land Use Control |
| LUCIP | Land Use Control Implementation Plan |
| MD | Munitions Debris |
| MEC | Munitions and Explosives of Concern |
| MRS | Munitions Response Site |
| NCF | Nantucket Conservation Foundation |
| NCP | National Contingency Plan |
| RAO | Remedial Action Objective |
| RI | Remedial Investigation |
| USACE | U.S. Army Corps of Engineers |
| UU/UE | Unlimited Use/Unrestricted Exposure |
| UXO | Unexploded Ordnance |

1.0 INTRODUCTION

The purpose of a Five-Year Review (FYR) is to evaluate the implementation and performance of a remedy in order to determine if the remedy is and will continue to be protective of human health and the environment. The methods, findings, and conclusions of reviews are documented in the FYR. In addition, the FYR report identifies issues found during the review, if any, and documents recommendations to address them.

The U.S. Army Corps of Engineers (USACE) is preparing this FYR pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Section 121, consistent with the National Contingency Plan (NCP)(40 CFR Section 300.430(f)(4)(ii)), and considering U.S. Environmental Protection Agency (USEPA), Department of Defense (DoD), and Formerly Used Defense Sites (FUDS) policy.

The Former Nantucket Ordnance Site Formerly Used Defense Site (FUDS) will be referred to as the Nantucket Beach FUDS. This is the first FYR for the Nantucket Beach FUDS; the triggering action for this statutory review is the date of the Final Decision Document (USACE, 2016), signed on 16 January 2016. The FYR has been prepared for this site because explosive safety risks remain above levels that allow for unlimited use and unrestricted exposure (UU/UE).

The FYR was led by the USACE New England District (CENAE). Participants included the USACE Baltimore District and the USACE contractor ERT, Inc. ERT's review team included a lead environmental scientist and a UXO Technician III. The review began in July 2019.

1.1 Site Background

The Nantucket Beach FUDS is located on Nantucket Island in Nantucket, Massachusetts (Appendix A, Figure 1). The U.S. Government leased the Nantucket Beach FUDS between September 1943 and 30 June 1946 and the military used the Nantucket Beach FUDS as a practice aerial rocket range. Training ceased on 1 September 1945. This was one of three ranges on Nantucket used by the Navy pilots for training purposes.

The Nantucket FUDS is divided into two Munitions Response Sites (MRSs), the Aerial Rocket Range Target #1 MRS and the Aerial Rocket Range Fan. The Aerial Rocket Range Target #1 MRS is approximately 97 acres and includes the delineated impact area around former Target #1 where munition debris (MD) was identified during the RI. Historically, military munitions have been encountered and responded to during munitions emergency responses.

For the Aerial Rocket Range Fan MRS, the 2012 RI found no unexploded ordnance, discarded military munitions, or MD, and the baseline risk assessment concluded that there were no explosive or environmental hazards present within this MRS. The DD recommended No Further Action for this MRS.

1.2 Five-Year Review Summary Form

| SITE IDENTIFICATION | | |
|--|--|-------------------------------|
| Site Name: Nantucket Beach, Former Nantucket Ordnance Site | | |
| DoD ID: D01MA0456 | | |
| Region: USEPA Region 1 | State: MA | City/County: Nantucket |
| SITE STATUS | | |
| NPL Status: Non-NPL | | |
| Multiple OUs? No | Has the site achieved construction completion? Yes | |
| REVIEW STATUS | | |
| Lead agency: Other Federal Agency U.S. Army Corps of Engineers (USACE) | | |
| Author name: Carol Ann Charette, Project Manager | | |
| Author affiliation: USACE | | |
| Review period: 7/31/2019 - 1/16/2021 | | |
| Date of site inspection: October 8, 2020 | | |
| Type of review: Statutory | | |
| Review number: 1 | | |
| Triggering action date: 1/16/2016 | | |
| Due date (five years after triggering action date): 1/16/2021 | | |

2.0 RESPONSE ACTION SUMMARY

2.1 Basis for Taking Action

Past military munitions training activities conducted at the Aerial Rocket Range Target #1 MRS resulted in munitions contamination (5-inch and 3.5-inch rockets, 2.25-inch sub-caliber rockets, and miscellaneous rocket components) within the MRS boundaries. The Aerial Rocket Range Target #1 MRS current and future land use is primarily residential and recreational. USACE determined that remedial action was necessary to protect human health and the environment from the potential hazards associated with military munitions that may remain based on the current and intended future use of the MRS.

2.2 Response Actions Summary

Decision Document

As described in the Decision Document (USACE, 2015), given the quantity of military munitions (e.g., aerial rockets and associated components) estimated to remain within the Aerial Rocket Range Target #1 MRS in the subsurface and, to a limited extent, on the surface, residents, Nantucket Conservation Foundation (NCF) personnel, contractors or maintenance workers, visitors, and recreational users of the property may encounter military munitions while engaging in either surface, or ground disturbing or intrusive activities. The aerial rockets and associated components encountered during the RI were evaluated by qualified personnel and determined to be inert. However the history of the site included EOD mobilizing to this site to address high explosive munitions and explosives of concern (MEC). Based on this history, remedial actions were determined to be necessary.

The goal of the selected remedy is to ensure the protection of human health and the environment. To achieve this goal, the following Remedial Action Objective (RAO) was established:

- To reduce the probability of residents, NCF personnel, contractor or maintenance workers, visitors, and recreational users from approaching, moving, disturbing, or handling munitions encountered during residential, construction or maintenance, and recreational activities performed on the ground surface or that include ground disturbing or intrusive activities.

2.3 Status of Implementation

Land Use Controls

The specific Land Use Controls (LUCs) components of the selected remedy are:

- Development and distribution of 3Rs (Recognize, Retreat, Report) explosives safety educational materials (e.g., brochures, fact sheets), and Soil Handling Management Guidance, to property owners, local responders, and Town officials.
- Installation and maintenance of signage at strategic access points in the MRS to alert users of the site's history and potential to encounter military munitions.
- Implementation of a targeted 3Rs Explosive Safety Education Program that is focused on the property owners, local responders, and Town officials.

The *Land Use Control and Long-Term Management Implementation Plan for Nantucket Beach Formerly Used Defense Site* (USACE 2018) provides detailed descriptions of the LUC

implementation. A Soil Handling/Management Guidance document was also developed that provides information to property owners and others involved in soil handling activities within the MRS that might include, but are not limited to: soil excavation for construction, gardening, landscaping, vegetation clearing/grubbing, and stump grinding and removal.

In accordance with the DD, additional information regarding the Nantucket Beach FUDS can be found at <http://www.nae.usace.army.mil/Missions/Projects-Topics/Nantucket-Beach>.

The LUCs are intended to remain in-place to address residual hazards and manage risks in the long-term. LUC enforcement, review of site conditions, and maintenance activities for this alternative is a means of performing long-term management following achievement of response complete, and these activities will be performed as long as there is a possibility that the munitions hazard remains.

Six (6) munitions awareness signs were originally installed at the Nantucket Beach FUDS (Figure 1) as part of a 2015 interim action conducted during the RI phase. In 2017, USACE began conducting annual sign inspections and UXO awareness training under the Long-term Management (LTM) phase. These have been conducted in the spring (June) prior to the start of the summer tourist season.

Implementation of the LUCs is outlined in the *Land Use Control and Long-Term Management Implementation Plan for Nantucket Beach Formerly Used Defense Site, Project No. D01MA045601, Nantucket, MA* (USACE, 2018). LUCs, as identified in the DD, have been fully implemented at the site. The signs are placed at public access points as there is no public access to the beach within the MRS, other than private residential walkways onto the beach. People who access the beach at the sign locations may walk down the beach onto the MRS. Sign maintenance, distribution of explosive safety educational materials, and explosive safety training is ongoing.

The previous annual Long Term Monitoring inspection was conducted June 24, 2019 (*Letter Report, Sign Inspection and UXO Awareness Training, Nantucket*, May 2020, Final). ERT conducted a public presentation for life guards and first responders including local police and fire department personnel and other interested parties on UXO Awareness; performed an evaluation of site conditions and inspected/maintenance signage associated with the MRS; and documented ordnance responses from the State Bomb Squad or EOD since the previous inspection. The 2019 LTM report recommended repair/replacement of two signs; one due to vandalism, and one due to significant erosion undercutting the sign. Annual reports from 2014 through 2019 are included in Appendix D-2.

The most recent annual LTM UXO training was provided on June 25, 2020. The sign inspection was conducted on October 8, 2020. The 2020 LTM inspection was conducted concurrent with this FYR site inspection due to COVID-related travel recommendations; the report of these annual LTM activities is presented as Appendix D-1. The Annual LTM report provides the detail of the UXO training, attendees, conditions of signage and general site conditions with regard to erosional impacts to the signs, and the repair/replacement activities recommended in the 2019 LTM report.

Current site conditions were evaluated as part of this report. Appendix A, Figure 1, provides a site figure that indicates the footprint of the area physically evaluated during the inspection. ERT surveyed the public areas from the eastern end of the implemented LUCs (signage) at the Tom Nevers Ballfield to the western end at Russell Way Road, and all public areas in between. These

areas were assessed for site conditions in terms of erosion and potential impacts to the proper functioning of the LUCs.

The conditions are described relative to the signage for easier geographical reference (see site figure, page B-2 of Appendix D-1). Relative to the 2019 Annual LTM visit, site conditions indicate some areas of erosion, or potential future erosion that may affect the proper function of the LUCs in terms of signs remaining in place. The vicinity of the Tom Nevers sign showed increased erosion and that sign had fallen over the cliff as noted above. During the 2020 site visit, ERT intended to replace the Tom Nevers sign that had since fallen off the eroding cliff/bluff, but the shipping of the new sign was delayed and the repair could not be effected; it will be repaired during the next site visit in June 2021, at a new location will be away from the cliff area where there will be no impact on LUC implementation. Minor erosion in the vicinity of the New South Road sign was observed but is not considered to have any impact at this time. The severe beach erosion around the Russell Way sign resulted in its re-location during the October 2020 visit. The Sign Inspection and Site Conditions forms provided in Appendix D-1, pages B-3 and C-2, respectively, provide additional detail on site conditions.

During ERT's inspection, there were no munition finds protruding from the cliffs or in any other areas. No munitions were encountered on or along the roadways or parking lots. There were no indications of past munition finds in the cliffs or during maintenance of unpaved roads or parking lots. While these areas are included in the inspection because they represent beach access points, some of them, such as the Tom Nevers area, are outside the MRS boundary.

USACE also queried the Nantucket Planning and Land Use Specialist (PLUS) Department for construction permits over the past five years to determine whether intrusive activities had been conducted in the area. One private owner on New South Road had a detached garage built in 2018. The owner was well aware of the past military history of his property and noted (see interview Appendix B-1) that the garage was constructed in a previously cleared area; no munitions or munitions debris were encountered. No other indications of relevant intrusive activity conducted by private property owners was uncovered in the PLUS permits.

The Director of Land Management (Chris Iller) for the Nantucket Conservation Foundation, an owner of large areas of the site, provided information regarding NCF construction activities. Mr Iller indicated that there have been no intrusive construction type activities, but rather surficial landscaping and maintenance type activities to promote grasslands growth (March 30, 2021 email communication, see Appendix B). There have been no munitions-related finds during this activity.

There were no other indications of major construction activities having occurred within the MRS that impacted the function of the LUCs and LTM program. There were no indications of additional areas of munition finds based on intrusive construction-type activities within the MRS, or indications that additional LUCs, such as signage, were required due to construction activities.

These LTM reports, and other relevant project information, are available at the Information Repository and from the USACE New England District website shown in Section 4.1.

3.0 PROGRESS SINCE THE LAST REVIEW

This is the first FYR.

4.0 FIVE YEAR REVIEW PROCESS

4.1 Community Notification, Involvement & Site Interviews

The Public Involvement Plan for the Former Nantucket Ordnance Site (USACE, 2012) provides a framework for community involvement in the activities being performed at the Aerial Rocket Range Target #1 MRS.

Project information is available at the Information Repository and from the USACE New England District website at <http://www.nae.usace.army.mil/Missions/Projects-Topics/Nantucket-Beach>. The Information Repository is located at:

Nantucket Atheneum

1 India Street
PO Box 808
Nantucket, Massachusetts 02554
Phone: (508) 228-1110
Fax: (508) 228-1973
Web: www.nantucketatheneum.org

A public notice was published in the Inquirer and Mirror on March 5, 2020, stating the five-year review process had begun and inviting the public to submit any comments to USACE; no comments were received. The results of the review and the report will be made available on the USACE New England website and at the Site information repository location listed above. The current property owners for the site are shown in Table 1.

Table 1. Property Owners

| Property Owner | Parcel IDs |
|-----------------------------------|---------------------------|
| Nantucket Conservation Foundation | 77 29, 77 2, 76 1, 91 2.2 |
| Current Landowner (Private) | 77 3.1 |
| Current Landowner (Private) | 90 9 |
| Current Landowner (Private) | 91 1 |
| Current Landowner (Private) | 91 118 |
| Current Landowner (Private) | 91 119 |
| Current Landowner (Private) | 91 2.4 |

During the FYR process, interviews were conducted to document any perceived problems or successes with the remedy that has been implemented to date. Table 2 presents a log of all calls. The results of these interviews are included in the Site Inspection Checklist form (Appendix B). The individuals interviewed represent a variety of people associated with Nantucket, including residents and local authorities. As indicated in the interviews in Appendix B, all were aware of the project, and none of the individuals had significant concerns or substantive issues.

Table 2. Interview Call Log

| Name | Organization | Phone # | Address | Result |
|-------------------------|---|---------------------|--|---|
| Joanne Dearden | Project Manager MassDEP Boston Office | 617-292-5788 | 1 Winter Street, Boston, MA 02108 | MassDEP has provided input via written comments on this document |
| Eric Savetsky | Nantucket Land Bank Commission | 508-228-7240 | 22 Broad Street Nantucket, Massachusetts 02554 | Interviewed 11 Sept 2020 |
| Sgt. Brendan Coakley | Nantucket Police Department | 508-325-4100 | 35 Washington Street Nantucket, Massachusetts 02554 | Interviewed 08 Oct 2020 |
| Private Information | Resident, Lot Owner (within MRS) | Private Information | | Interviewed 09 Sept 2020 and updated 05 April 2021 |
| C. Elizabeth Gibson | Nantucket Town Manager | 508- 228- 7255 | Town Building 16 Broad Street, 1st Floor Nantucket, Massachusetts 02554 | Left message 09 Sept 2020. No reply |
| Sheila Lucey | Harbor Master, Nantucket Police Department | 508-325-4100 | 35 Washington Street Nantucket, Massachusetts 02554 | Left message 09 Sept 2020. No reply |
| Gregg Tivnan | Assistant Town Manager | 508-228-7254 | 16 Broad Street, Nantucket, MA 02554 | Left message 11 Sept 2020. No reply |
| Private Information | Resident, Lot Owner (within MRS) | Private Information | | Did not wish to be interviewed. |

4.2 Data Review

Site related documents reviewed for this FYR are listed in the References. Regulations, policy, and guidance that were used to complete this FYR are also listed in the References. EOD reports of emergency responses concerning the removals of munitions found at the site since completion of the RI are summarized in Table 3 and included in Appendix C.

Note that all reported EOD responses on Nantucket Island are included in Table 3, since the location of the response is not always provided by the EOD response teams. The finds indicated below do not change any conclusions about risk at the site.

Table 3. Summary of Emergency Response Calls

| Location | Ordnance Description | Date | Response Action - Disposition |
|--|-----------------------------|----------|--|
| Unclear where item was found; no specific location given | Two 90-mm HE projectiles | 5-Sep-16 | Moved to local disposal site and disposed by EOD. 8-Sep-16. No EOD Report Available. |

| | | | |
|--|--|-----------|---|
| Sconset Dump (appears to be just east of the MRA) | 5-inch rocket warhead | 10-Feb-18 | Disposed by EODMU12 Detachment Newport. 11-Feb-18. EOD Report 18-003 8027 |
| Unclear where item was found; no specific location given | 2.75-inch training rocket | 12-Mar-18 | Disposed by EODMU12 Detachment Newport. No EOD Report Available. |
| On New South Road between the intersection of Rugged and New South roads and the Tom Nevers ballfields (not within the MRS, but within the MRA). | "unexploded military shell" 2.25-inch scar rocket per email from USACE. | 30-Jul-18 | None provided |
| Unclear where item was found; no specific location given | Two 5-inch Zuni rockets | 24-Oct-18 | Disposed by EODMU12 Detachment Newport. No EOD Report Available. |
| Unclear where item was found; no specific location given | Three 2.75-inch SCAR rockets | 1-Nov-18 | Disposed by EODMU12 Detachment Newport. No EOD Report Available. |
| Unclear where item was found; no specific location given | 3 additional UXOs protruding from bluff in same vicinity | 25-Mar-20 | EOD Detachment Newport consolidated at local disposal area--disposed by detonation. 25-Mar-20 No EOD Report Available. |

4.3 Site Inspection

The inspection of the Site was conducted on October 8, 2020. In attendance were the ERT Deputy Project Manager and Senior UXO Manager. The purpose of the inspection was to assess the protectiveness of the remedy. The Site Inspection checklist is presented in Appendix B.

5.0 TECHNICAL ASSESSMENT

QUESTION A: Is the remedy functioning as intended by the decision documents?

Question A Summary:

Yes. In accordance with the DD, LUCs are intended to manage exposure hazards to the public through public awareness. People have been following the 3 R's, and calling 911 when items have been encountered. Although 13 individual munitions items (see Table 3 and Appendix C) have been found in or near the MRS, no injuries have been reported. Each of the interested parties interviewed (Appendix B) indicated that they are aware of the project, indicating that the educational element of the LUCs, including the UXO Awareness training and the signage are doing what was intended. The discoveries of the miscellaneous munitions items that have been found in or near the MRS, were primarily the result of people calling 911 consistent with the 3Rs. These things indicate that the LUCs are functioning as intended. Visual inspection and maintenance of the existing signage and an evaluation of current site conditions are documented in the Appendix D-1 2020 LTM Report. The findings of the inspection indicate that the LUCs are working as intended. Explosive safety informational materials that have been distributed include the brochure appended to the Final LUCIP (distributed to all LUCIP Table 3-1 recipients in early 2020), and brochures handed out during the 2019 UXO training seminar.

Therefore, the LUCs, including the explosive safety training, UXO warning signs, and explosive safety educational materials, are functioning as intended by the Decision Document. No problems or issues with the remedy, impacting its protectiveness, have been identified.

QUESTION B: Are the exposure assumptions, toxicity data, cleanup levels, and RAOs used at the time of the remedy selection still valid?

Question B Summary:

Yes. The RAO is to reduce the probability of residents, NCF personnel, contractor or maintenance workers, visitors, and recreational users from approaching, moving, disturbing, or handling munitions encountered during residential, construction or maintenance, and recreational activities performed on the ground surface or that include ground disturbing or intrusive activities. The RAO addresses hazards under current and potential future land use (note that the current land use is not anticipated to change).

With regard to MEC the exposure assumptions and RAOs have not changed and are still valid. There have been no changes to the land use or site conditions since the signing of the Decision Document. The remedy is achieving the RAO.

QUESTION C: Has any other information come to light that could call into question the protectiveness of the remedy?

Question C Summary:

No other information has come to light that calls into question the protectiveness of the remedy. Numerous intense storms have occurred during the past five years without changing conditions in a way that would affect the understanding of the site or the protectiveness of the remedy.

6.0 ISSUES & RECOMMENDATIONS

| Issues/Recommendations |
|--|
| OU(s) without Issues/Recommendations Identified in the Five-Year Review: |
| Aerial Rocket Range Target #1 MRS and the Aerial Rocket Range Fan. Recommendations: The signs that could not be repaired or replaced during the October 2020 site visit will be repaired or replaced during the next site visit in June 2021. |

7.0 PROTECTIVENESS STATEMENT

| Protectiveness Statement(s) | |
|---|--------------------------------------|
| <i>Operable Unit:</i> | <i>Protectiveness Determination:</i> |
| Aerial Rocket Range Target #1 MRS | Protective |
| <i>Protectiveness Statement:</i> | |
| The remedy is protective of human health. The current site-wide LUCs have been fully implemented, are functioning as intended, and all human risks are currently being managed. | |

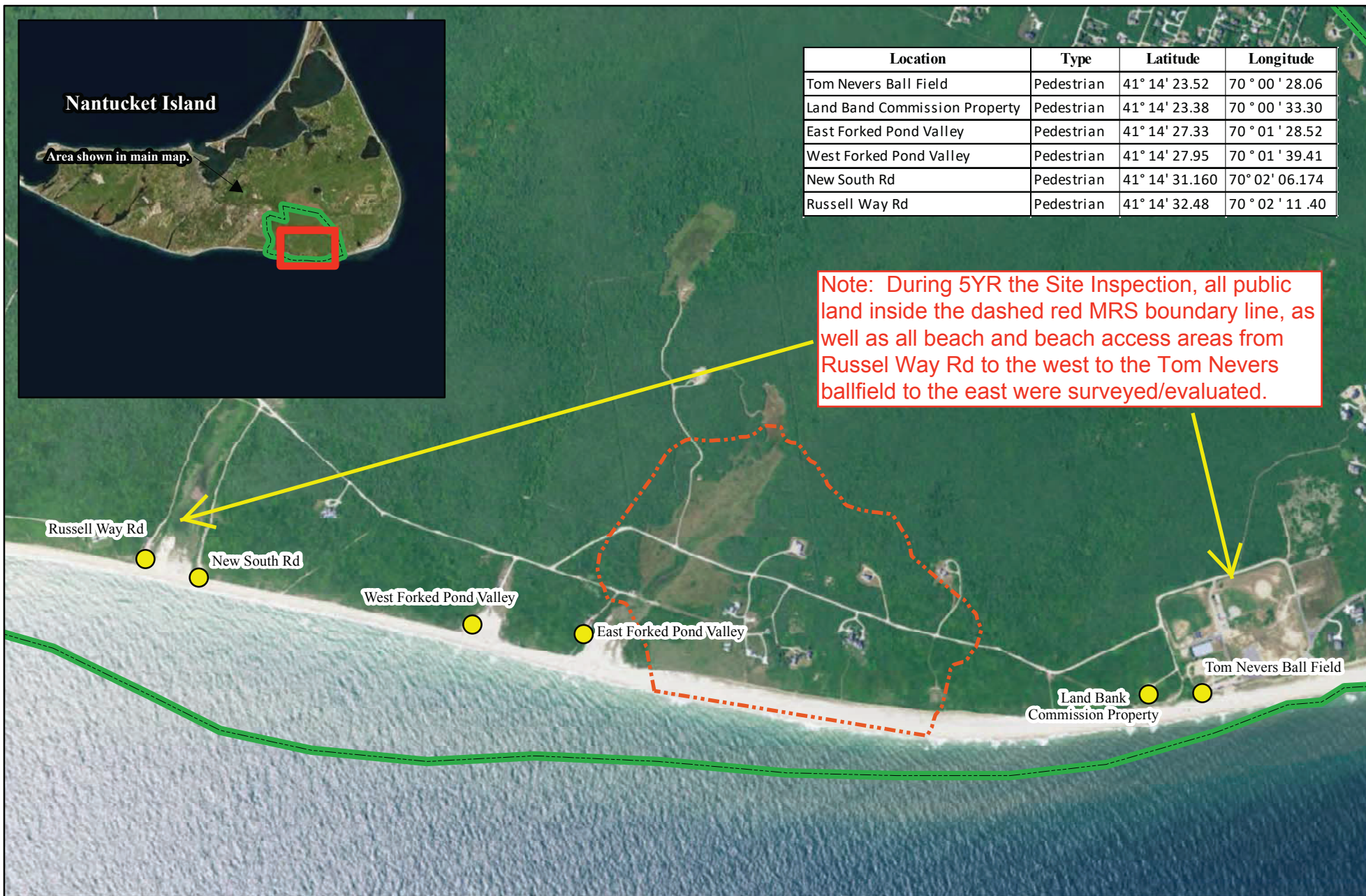
8.0 NEXT REVIEW

The next five-year review report for the Aerial Rocket Range Target #1 MRS and the Aerial Rocket Range Fan is required five years from the completion date of this review. This is projected to be January 2026.

9.0 REFERENCE LIST

- DoD M4715.20 and Updates, *Defense Environmental Restoration Program (DERP) Management* (DoD, 2012). March.
- USACE. 2011. EP 200-1-18, *Five-Year Reviews of Military Munitions Response Projects* (USACE, 2011).
- USACE. 2016. *Final Decision Document (DD) Nantucket Beach, Former Nantucket Ordnance Site A.K.A. Tom Nevers Rocket Projectile Target; Tom Nevers Area Formerly Used Defense Site Project Number D01MA045601 and D01MA45602, Aerial Rocket Range Target #1 Munitions Response Site, Aerial Rocket Range Fan Munitions Response Site, Nantucket, Massachusetts*. December.
- USACE. 2018. *Land Use Control and Long-Term Management Implementation Plan for Nantucket Beach Formerly Used Defense Site*. July.
- USEPA. 2001. *OSWER 9355.7-03B-P, Comprehensive Five-Year Review Guidance*. June.
- USEPA. 2016. *Memorandum: Transmittal of the Five-Year Review Recommended Template*. 20 January.
- Weston Solutions, Inc. (Weston). 2013. *Final Remedial Investigation Report for the Nantucket Beach, Former Nantucket Ordnance Site A.K.A. Tom Nevers Rocket Projectile Target; Tom Nevers Area, Formerly Used Defense Site, Prepared for the U.S. Army Corps of Engineers (USACE), Baltimore District, Baltimore, Maryland*. 26 November.

APPENDIX A – SITE FIGURE



US Army Corps
of Engineers
BUILDING STRONG.



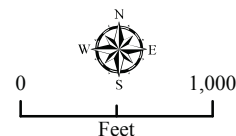
April 2017

Legend

● Sign Locations

--- Aerial Rocket Range
Target #1 MRS

--- Formerly Used Defense Site
(FUDS) Boundary



Data sources: ESRI Online, USACE

FIGURE 1 Site Location

Nantucket Beach FUDS
Nantucket, Massachusetts

N:\GIS\Northeast\Massachusetts\Nantucket\MXD\SignLocations.mxd

APPENDIX B – SITE INSPECTION INTERVIEWS and CHECKLIST

Community Interview Questionnaire Sheets

(9-11-2020 interview by ERT)

Name: Eric Savetsky (508) 228-7240, Nantucket Land Bank Commission

1. A FUDS Long Term Management (signage) is in effect at the Former Nantucket Ordnance Site also known as Tom Nevers Rocket Projectile Target; Tom Nevers Area Formerly Used Defense Site, Aerial Rocket Range Target #1 Munitions Response Site, and Aerial Rocket Range Fan Munitions Response Site. Have you heard about this project? If so, what is your overall impression of the project?

Mr. Savetsky said he is aware of the significant past work with regard to munitions. He knows about the signs – the Land Bank Commission owns property west of the FUDS site and has participated in the past investigations. He noted he has not seen the signs, but has heard nothing negative about them.

2. Are you aware of any community concerns regarding the site or its operation and administration? If so, please give details

His biggest concern is the potential for material (UXO and other debris) from the property falling out of the bluff and onto the beach due to erosion, creating public hazards.

3. Do you feel well informed about the site's activities and progress?

Yes.

4. Have you talked with any Army Corps of Engineers, state, or environmental officials about the ongoing LTM at the Former South Beach FUDS? If you have, were they responsive to your concerns or questions?

Yes, indirectly, spoke to contractors of USACE. He noted he has been contacted many times by USACE representatives during the past activities.

5. Do you have any comments, suggestions, or recommendations regarding the site's management or operation?

Mr Savetsky suggested more active monitoring of the site for UXO, but did not provide specifics of this request.

Community Interview Questionnaire Sheet **(9-9-2020 original interview, 4-5-21 follow up by ERT)**

Name: Private resident/owner, NEW SOUTH RD, Nantucket

Telephone (C): NA **Work (W):**

1. A FUDS Long Term Management program (in the form of signage) is in effect at the Former Nantucket Ordnance Site also known as Tom Nevers Rocket Projectile Target; Tom Nevers Area Formerly Used Defense Site, Aerial Rocket Range Target #1 Munitions Response Site, and Aerial Rocket Range Fan Munitions Response Site. Have you heard about this project? If so, what is your overall impression of the project?

The resident was in his house at the time of the interview. He is aware of the signs but has not seen them. He does not mind if they are there or if they are taken away. He has copies of some of the reports that were produced after the removal action and understands the project well. He remembers that prior to the project, his neighbor would pull rockets out of the eroding cliff and take them away until there were enough that the bomb squad would come and blow them up.

2. Are you aware of any community concerns regarding the site or its operation and administration? If so, please give details

No, he does not think there are many concerns currently. He was concerned 20 years ago when building his house, and decided to get a metal detector and sweep the site prior to construction. All he found was an old headlight and a license plate. More recently (early 2018) he had a detached garage built on his property under a Nantucket Planning and Land Use Services permit. He described this project as being in an area 'already cleared', and further noted that he was well aware of the UXO/3Rs situation; no munitions or munitions debris was found during the project.

3. Do you feel well informed about the site's activities and progress?

Yes. As far as he's concerned the project ended last year or the year before.

4. Have you talked with any Army Corps of Engineers, state, or environmental officials about the ongoing LTM at the Former Nantucket Ordnance Site FUDS? If you have, were they responsive to your concerns or questions?

Not recently, but did interact with USACE when the cleanup was in progress. He said that someone allowed him to "push the button" to detonate some ordnance at one point, but provided no details.

5. Do you have any comments, suggestions, or recommendations regarding the site's management or operation?

No. He did not think any of the ordnance was very dangerous, being mostly unused propellant rather than explosives. He thanked us for asking for his comments.

Community Interview Questionnaire Sheets

(10-8-2020 interview by ERT)

Name: Sgt. Brendan Coakley, Nantucket Police Department

Telephone (W): (508) 325-4100

1. A FUDS Long Term Management program (in the form of signage) is in effect at the Former Nantucket Ordnance Site A.K.A. Tom Nevers Rocket Projectile Target; Tom Nevers Area Formerly Used Defense Site, Aerial Rocket Range Target #1 Munitions Response Site, and Aerial Rocket Range Fan Munitions Response Site. Have you heard about this project? If so, what is your overall impression of the project?

Sgt Coakley is aware of the project. He heard about it prior to becoming an officer by local media, and through training as an officer.

2. Are you aware of any community concerns regarding the site or its operation and administration? If so, please give details

No, he does not think there are many concerns currently. He remembers hearing complaints at the time of the aerial geophysical survey (helicopter) from local residents who were concerned about the noise of the low-flying aircraft and at that time was unclear of its purpose.

3. Do you feel well informed about the site's activities and progress?

Yes. He feels USACE is doing almost “too good of a job” in that even though public concern is low he keeps hearing about the project’s progress, at least annually.

4. Have you talked with any Army Corps of Engineers, state, or environmental officials about the ongoing LTM at the Former Nantucket Ordnance Site FUDS? If you have, were they responsive to your concerns or questions?

Yes, he has attended the UXO Awareness training offered by USACE and its subcontractors, and they have always been responsive.

5. Do you have any comments, suggestions, or recommendations regarding the site's management or operation?

No. He says “we don’t feel alone” when having to deal with UXO issues on the island because USACE has been responsive.



Thomas Bachovchin <thomas.bachovchin@ertcorp.com>

Unexploded ordinance Nantucket

1 message

Chris Iller <ciller@nantucketconservation.org>
To: Thomas Bachovchin <Thomas.Bachovchin@ertcorp.com>
Cc: Cormac Collier <ccollier@nantucketconservation.org>

Tue, Mar 30, 2021 at 9:42 AM

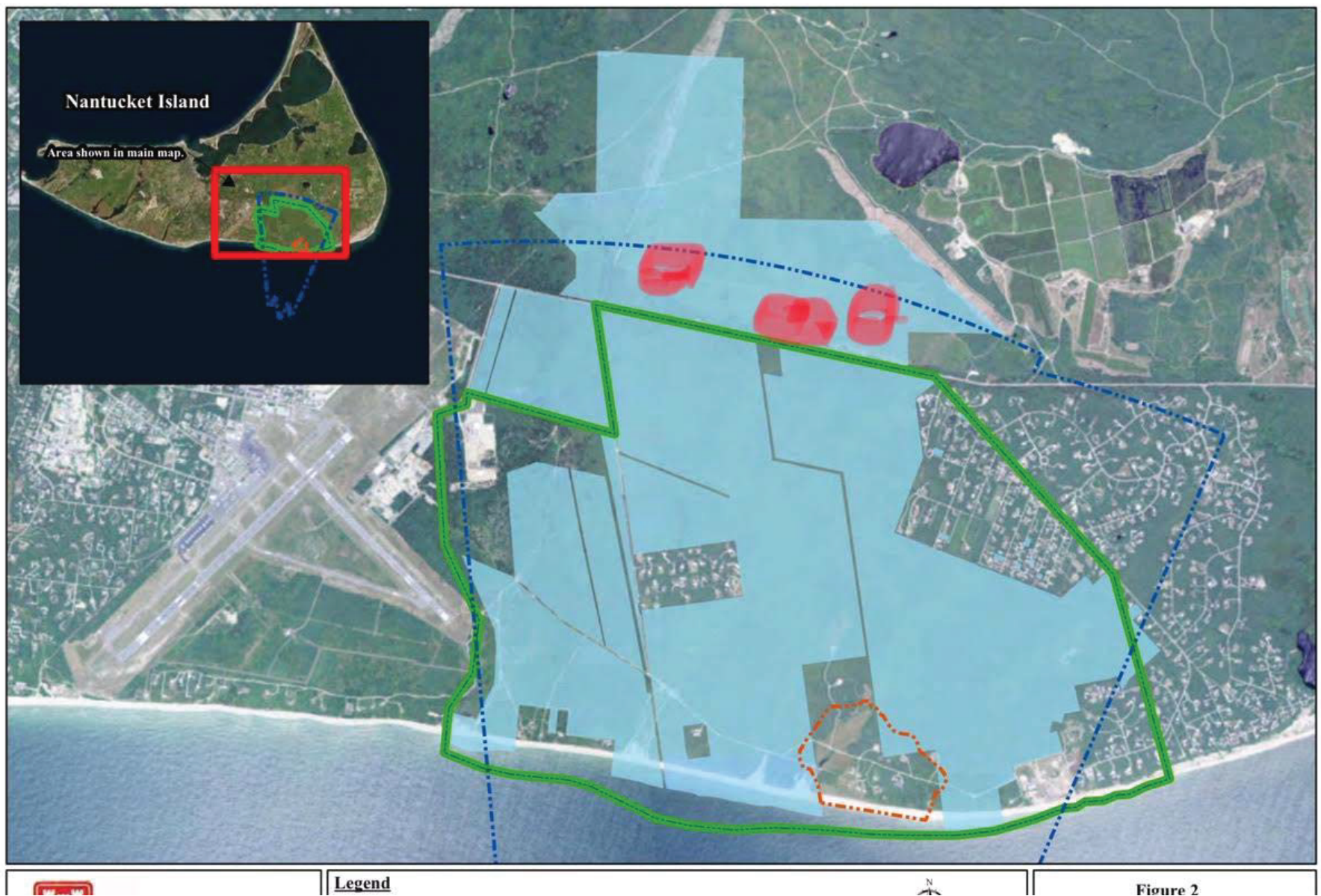
Good morning

The only new soil disturbance that's been going on in the light blue shaded area by the foundation is disc harrowing. Our science and stewardship department have implemented eight plots. 2.2 acres, each plot of light disc harrowing(red circles at the top of the map). One pass by a harrow to promote grasslands returning in what we call the Serengeti.

Other than that it's just been routine surface mowing of our fire breaks in those areas. No other soil disturbance at this time. I would still reach out to the town to see if any new construction has occurred in the Wigwam rd. area (the housing development right in the middle of the map). And to the east in Tom Nevers.

I hope this helps

Chris Iller, Nantucket Conservation Foundation -
Land Director Communication



Appendix B

Five-Year Review Site Inspection Checklist

[This page intentionally left blank.]

Five-Year Review Site Inspection Checklist

Purpose of the Checklist

The site inspection checklist provides a useful method for collecting important information during the site inspection portion of the five-year review. The checklist serves as a reminder of what information should be gathered and provides the means of checking off information obtained and reviewed, or information not available or applicable. The checklist is divided into sections as follows:

- I. Site Information
- II. Interviews
- III. On-site Documents & Records Verified
- IV. O&M Costs
- V. Access and Institutional Controls
- VI. General Site Conditions
- VII. Landfill Covers
- VIII. Vertical Barrier Walls
- IX. Groundwater/Surface Water Remedies
- X. Other Remedies
- XI. Overall Observations

This checklist was developed by EPA and the U.S. Army Corps of Engineers (USACE). It focuses on the two most common types of remedies that are subject to five-year reviews: landfill covers, and groundwater pump and treat remedies. Sections of the checklist are also provided for some other remedies. The sections on general site conditions would be applicable to a wider variety of remedies. The checklist should be modified to suit your needs when inspecting other types of remedies, as appropriate.

Please note that “O&M” is referred to throughout this checklist. At sites where Long-Term Response Actions are in progress, O&M activities may be referred to as “system operations” since these sites are not considered to be in the O&M phase while being remediated under the Superfund program.

Five-Year Review Site Inspection Checklist (Template)

“N/A” refers to “not applicable.”)

| I. SITE INFORMATION | |
|--|--|
| Site name: Aerial Rocket Range Target #1 MRS and the Aerial Rocket Range Fan MRS. | Date of inspection: 8 October 2020 |
| Location and Region: Nantucket Island, Mass. | EPA ID: |
| Agency, office, or company leading the five-year review: ERT, Inc., for USACE | Weather/temperature: 60s to 70s F, clear, windy |
| Remedy Includes: (Check all that apply) <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Landfill cover/containment <input type="checkbox"/> Access controls <input checked="" type="checkbox"/> Institutional controls <input type="checkbox"/> Groundwater pump and treatment <input type="checkbox"/> Surface water collection and treatment <input checked="" type="checkbox"/> Other: Educational Signage </div> <div> <input type="checkbox"/> Monitored natural attenuation <input type="checkbox"/> Groundwater containment <input type="checkbox"/> Vertical barrier walls </div> </div> | |
| Attachments: <input type="checkbox"/> Inspection team roster attached <input type="checkbox"/> Site map attached | |
| II. INTERVIEWS (Check all that apply) SEPARATELY PRESENTED BEFORE CHECKLIST | |
| 1. O&M site manager _____ <div style="display: flex; justify-content: space-between;"> <div>Name</div> <div>Title</div> <div>Date</div> </div> Interviewed <input type="checkbox"/> at site <input type="checkbox"/> at office <input type="checkbox"/> by phone Phone no. _____ Problems, suggestions; <input type="checkbox"/> Report attached _____ _____ Interviews conducted and compiled separately _____ | |
| 2. O&M staff _____ <div style="display: flex; justify-content: space-between;"> <div>Name</div> <div>Title</div> <div>Date</div> </div> Interviewed <input type="checkbox"/> at site <input type="checkbox"/> at office <input type="checkbox"/> by phone Phone no. _____ Problems, suggestions; <input type="checkbox"/> Report attached _____ _____ | |

| | | | | |
|----|---|-------------|------------|-----------------|
| 3. | Local regulatory authorities and response agencies (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply. | | | |
| | Agency _____ | | | |
| | Contact _____ | _____ | _____ | _____ |
| | Name _____ | Title _____ | Date _____ | Phone no. _____ |
| | Problems; suggestions; <input type="checkbox"/> Report attached _____ | | | |
| | _____ | | | |
| | Agency _____ | | | |
| | Contact _____ | _____ | _____ | _____ |
| | Name _____ | Title _____ | Date _____ | Phone no. _____ |
| | Problems; suggestions; <input type="checkbox"/> Report attached _____ | | | |
| | _____ | | | |
| | Agency _____ | | | |
| | Contact _____ | _____ | _____ | _____ |
| | Name _____ | Title _____ | Date _____ | Phone no. _____ |
| | Problems; suggestions; <input type="checkbox"/> Report attached _____ | | | |
| | _____ | | | |
| 4. | Other interviews (optional) <input type="checkbox"/> Report attached. | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| III. ON-SITE DOCUMENTS & RECORDS VERIFIED (Check all that apply) | | | | |
|---|---|--|--|--|
| 1. | O&M Documents <input type="checkbox"/> O&M manual <input type="checkbox"/> As-built drawings <input type="checkbox"/> Maintenance logs Remarks _____ | <input type="checkbox"/> Readily available <input type="checkbox"/> Readily available <input type="checkbox"/> Readily available | <input type="checkbox"/> Up to date <input type="checkbox"/> Up to date <input type="checkbox"/> Up to date | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A |
| 2. | Site-Specific Health and Safety Plan <input type="checkbox"/> Contingency plan/emergency response plan Remarks _____ | <input type="checkbox"/> Readily available <input type="checkbox"/> Readily available | <input checked="" type="checkbox"/> Up to date <input type="checkbox"/> Up to date | <input type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A |
| 3. | O&M and OSHA Training Records Remarks _____ | <input type="checkbox"/> Readily available | <input type="checkbox"/> Up to date | <input checked="" type="checkbox"/> N/A |
| 4. | Permits and Service Agreements <input type="checkbox"/> Air discharge permit <input type="checkbox"/> Effluent discharge <input type="checkbox"/> Waste disposal, POTW <input type="checkbox"/> Other permits _____ Remarks _____ | <input type="checkbox"/> Readily available <input type="checkbox"/> Readily available <input type="checkbox"/> Readily available <input type="checkbox"/> Readily available | <input type="checkbox"/> Up to date <input type="checkbox"/> Up to date <input type="checkbox"/> Up to date <input type="checkbox"/> Up to date | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A |
| 5. | Gas Generation Records Remarks _____ | <input type="checkbox"/> Readily available | <input type="checkbox"/> Up to date | <input checked="" type="checkbox"/> N/A |
| 6. | Settlement Monument Records Remarks _____ | <input type="checkbox"/> Readily available | <input type="checkbox"/> Up to date | <input checked="" type="checkbox"/> N/A |
| 7. | Groundwater Monitoring Records Remarks _____ | <input type="checkbox"/> Readily available | <input type="checkbox"/> Up to date | <input checked="" type="checkbox"/> N/A |
| 8. | Leachate Extraction Records Remarks _____ | <input type="checkbox"/> Readily available | <input type="checkbox"/> Up to date | <input checked="" type="checkbox"/> N/A |
| 9. | Discharge Compliance Records <input type="checkbox"/> Air <input type="checkbox"/> Water (effluent) Remarks _____ | <input type="checkbox"/> Readily available <input type="checkbox"/> Readily available | <input type="checkbox"/> Up to date <input type="checkbox"/> Up to date | <input checked="" type="checkbox"/> N/A <input checked="" type="checkbox"/> N/A |
| 10. | Daily Access/Security Logs Remarks: Site is open to the public. | <input type="checkbox"/> Readily available | <input type="checkbox"/> Up to date | <input checked="" type="checkbox"/> N/A |

| IV. O&M COSTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|------------|---|------------|----------|--|---|------|------|------------|--|------------|----------|--|---|------|------|------------|--|------------|----------|--|---|------|------|------------|--|------------|----------|--|---|------|------|------------|--|------------|----------|--|---|------|------|------------|--|
| 1. | O&M Organization <input type="checkbox"/> State in-house <input type="checkbox"/> Contractor for State <input type="checkbox"/> PRP in-house <input type="checkbox"/> Contractor for PRP <input type="checkbox"/> Federal Facility in-house <input type="checkbox"/> Contractor for Federal Facility <input type="checkbox"/> Other: Signs currently inspected and maintained by ERT, Inc. for USACE. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | O&M Cost Records <input type="checkbox"/> Readily available <input type="checkbox"/> Up to date <input checked="" type="checkbox"/> Funding mechanism/agreement in place (ERT contracted by USACE) Original O&M cost estimate _____ <input type="checkbox"/> Breakdown attached <div style="text-align: center;">Total annual cost by year for review period if available</div> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">From _____</td> <td style="width: 20%;">To _____</td> <td style="width: 40%;"></td> <td style="width: 20%; text-align: right;"><input type="checkbox"/> Breakdown attached</td> </tr> <tr> <td style="text-align: center;">Date</td> <td style="text-align: center;">Date</td> <td style="text-align: center;">Total cost</td> <td></td> </tr> <tr> <td>From _____</td> <td>To _____</td> <td></td> <td style="text-align: right;"><input type="checkbox"/> Breakdown attached</td> </tr> <tr> <td style="text-align: center;">Date</td> <td style="text-align: center;">Date</td> <td style="text-align: center;">Total cost</td> <td></td> </tr> <tr> <td>From _____</td> <td>To _____</td> <td></td> <td style="text-align: right;"><input type="checkbox"/> Breakdown attached</td> </tr> <tr> <td style="text-align: center;">Date</td> <td style="text-align: center;">Date</td> <td style="text-align: center;">Total cost</td> <td></td> </tr> <tr> <td>From _____</td> <td>To _____</td> <td></td> <td style="text-align: right;"><input type="checkbox"/> Breakdown attached</td> </tr> <tr> <td style="text-align: center;">Date</td> <td style="text-align: center;">Date</td> <td style="text-align: center;">Total cost</td> <td></td> </tr> <tr> <td>From _____</td> <td>To _____</td> <td></td> <td style="text-align: right;"><input type="checkbox"/> Breakdown attached</td> </tr> <tr> <td style="text-align: center;">Date</td> <td style="text-align: center;">Date</td> <td style="text-align: center;">Total cost</td> <td></td> </tr> </table> | | | From _____ | To _____ | | <input type="checkbox"/> Breakdown attached | Date | Date | Total cost | | From _____ | To _____ | | <input type="checkbox"/> Breakdown attached | Date | Date | Total cost | | From _____ | To _____ | | <input type="checkbox"/> Breakdown attached | Date | Date | Total cost | | From _____ | To _____ | | <input type="checkbox"/> Breakdown attached | Date | Date | Total cost | | From _____ | To _____ | | <input type="checkbox"/> Breakdown attached | Date | Date | Total cost | |
| From _____ | To _____ | | <input type="checkbox"/> Breakdown attached | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | Date | Total cost | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| From _____ | To _____ | | <input type="checkbox"/> Breakdown attached | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | Date | Total cost | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| From _____ | To _____ | | <input type="checkbox"/> Breakdown attached | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | Date | Total cost | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| From _____ | To _____ | | <input type="checkbox"/> Breakdown attached | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | Date | Total cost | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| From _____ | To _____ | | <input type="checkbox"/> Breakdown attached | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | Date | Total cost | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | Unanticipated or Unusually High O&M Costs During Review Period Describe costs and reasons: The Tom Nevers Ball Field sign was intended for replacement because significant erosion caused it to fall off the cliff/bluff. However, due to shipping damage it could not be replaced this time. The sign at East Forked Pond Valley had been vandalized and was repaired as planned. The sign at Land Bank Commission was found to have been vandalized (sawn off) and could not be replaced at this time. The area of the Russell Way Road sign was found to have undergone significant erosion and it was relocated. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V. ACCESS AND INSTITUTIONAL CONTROLS <input checked="" type="checkbox"/> Applicable <input type="checkbox"/> N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A. Fencing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | Fencing damaged <input type="checkbox"/> Location shown on site map <input type="checkbox"/> Gates secured <input checked="" type="checkbox"/> N/A Remarks _____ _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B. Other Access Restrictions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | Signs and other security measures <input type="checkbox"/> Location shown on site map <input checked="" type="checkbox"/> N/A Remarks: 3Rs Educational awareness signs are present at access points (see Attachment D for Annual LTM report details). | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|--|---|--|--|
| C. Institutional Controls (ICs) | | | |
| 1. | Implementation and enforcement Site conditions imply ICs not properly implemented <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Site conditions imply ICs not being fully enforced <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Type of monitoring (e.g., self-reporting, drive by): In-person inspection _____ Frequency: Annual _____ Responsible party/agency ___ ERT under contract to USACE _____ Contact: Carol Charette, USACE Project Manager _____ Reporting is up-to-date <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Reports are verified by the lead agency <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Specific requirements in deed or decision documents have been met <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Violations have been reported <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A Other problems or suggestions: <input checked="" type="checkbox"/> Report attached (Appendix D) As described above, two signs could not be replaced during the inspection. _____ | | |
| 2. | Adequacy | <input checked="" type="checkbox"/> ICs are adequate | <input type="checkbox"/> ICs are inadequate <input type="checkbox"/> N/A |
| Remarks: LUCs are in place and functioning as intended. _____ | | | |
| D. General | | | |
| 1. | Vandalism/trespassing <input type="checkbox"/> Location shown on site map <input type="checkbox"/> No vandalism evident Remarks: The East Forked Pond Valley Sign was vandalized prior to the 2019 site visit. The Land Bank Commission Sign was vandalized prior to 2020 site visit. (see Attachment D for Annual LTM report details). | | |
| 2. | Land use changes on site <input checked="" type="checkbox"/> N/A Remarks: None. | | |
| 3. | Land use changes off site <input checked="" type="checkbox"/> N/A Remarks: _____ | | |
| VI. GENERAL SITE CONDITIONS | | | |
| A. Roads <input type="checkbox"/> Applicable <input type="checkbox"/> N/A | | | |
| 1. | Roads damaged <input type="checkbox"/> Location shown on site map <input type="checkbox"/> Roads adequate <input type="checkbox"/> N/A Remarks: All roads leading to the signs are unimproved. _____ | | |

| | | | |
|--|--|--|--|
| B. Other Site Conditions | | | |
| Remarks: The beach is a dynamic environment where dunes may migrate towards signs or storms may alter the landscape over time (see Attachment D for Annual LTM report details). _____ _____ _____ _____ | | | |
| VII. LANDFILL COVERS <input type="checkbox"/> Applicable <input checked="" type="checkbox"/> N/A | | | |
| A. Landfill Surface | | | |
| 1. | Settlement (Low spots) Areal extent _____ Depth _____ Remarks _____ _____ | <input type="checkbox"/> Location shown on site map <input type="checkbox"/> Settlement not evident | |
| 2. | Cracks Lengths _____ Widths _____ Depths _____ Remarks _____ _____ | <input type="checkbox"/> Location shown on site map <input type="checkbox"/> Cracking not evident | |
| 3. | Erosion Areal extent _____ Depth _____ Remarks _____ _____ | <input type="checkbox"/> Location shown on site map <input type="checkbox"/> Erosion not evident | |
| 4. | Holes Areal extent _____ Depth _____ Remarks _____ _____ | <input type="checkbox"/> Location shown on site map <input type="checkbox"/> Holes not evident | |
| 5. | Vegetative Cover <input type="checkbox"/> Grass <input type="checkbox"/> Cover properly established <input type="checkbox"/> No signs of stress <input type="checkbox"/> Trees/Shrubs (indicate size and locations on a diagram) Remarks _____ _____ | | |
| 6. | Alternative Cover (armored rock, concrete, etc.) <input type="checkbox"/> N/A Remarks _____ _____ | | |
| 7. | Bulges Areal extent _____ Height _____ Remarks _____ _____ | <input type="checkbox"/> Location shown on site map <input type="checkbox"/> Bulges not evident | |

| | | |
|---|--|---|
| 8. | Wet Areas/Water Damage <input type="checkbox"/> Wet areas <input type="checkbox"/> Ponding <input type="checkbox"/> Seeps <input type="checkbox"/> Soft subgrade Remarks _____ | <input type="checkbox"/> Wet areas/water damage not evident <input type="checkbox"/> Location shown on site map <input type="checkbox"/> Location shown on site map <input type="checkbox"/> Location shown on site map <input type="checkbox"/> Location shown on site map Areal extent _____ Areal extent _____ Areal extent _____ Areal extent _____ |
| 9. | Slope Instability Areal extent _____ Remarks _____ | <input type="checkbox"/> Slides <input type="checkbox"/> Location shown on site map <input type="checkbox"/> No evidence of slope instability |
| B. Benches <input type="checkbox"/> Applicable <input type="checkbox"/> N/A (Horizontally constructed mounds of earth placed across a steep landfill side slope to interrupt the slope in order to slow down the velocity of surface runoff and intercept and convey the runoff to a lined channel.) | | |
| 1. | Flows Bypass Bench Remarks _____ | <input type="checkbox"/> Location shown on site map <input type="checkbox"/> N/A or okay |
| 2. | Bench Breached Remarks _____ | <input type="checkbox"/> Location shown on site map <input type="checkbox"/> N/A or okay |
| 3. | Bench Overtopped Remarks _____ | <input type="checkbox"/> Location shown on site map <input type="checkbox"/> N/A or okay |
| C. Letdown Channels <input type="checkbox"/> Applicable <input type="checkbox"/> N/A (Channel lined with erosion control mats, riprap, grout bags, or gabions that descend down the steep side slope of the cover and will allow the runoff water collected by the benches to move off of the landfill cover without creating erosion gullies.) | | |
| 1. | Settlement Areal extent _____ Remarks _____ | <input type="checkbox"/> Location shown on site map <input type="checkbox"/> No evidence of settlement Depth _____ |
| 2. | Material Degradation Material type _____ Remarks _____ | <input type="checkbox"/> Location shown on site map <input type="checkbox"/> No evidence of degradation Areal extent _____ |
| 3. | Erosion Areal extent _____ Remarks _____ | <input type="checkbox"/> Location shown on site map <input type="checkbox"/> No evidence of erosion Depth _____ |

| | |
|---|---|
| 4. | Undercutting <input type="checkbox"/> Location shown on site map <input type="checkbox"/> No evidence of undercutting Areal extent _____ Depth _____ Remarks _____ _____ |
| 5. | Obstructions Type _____ <input type="checkbox"/> No obstructions <input type="checkbox"/> Location shown on site map Areal extent _____ Size _____ Remarks _____ _____ |
| 6. | Excessive Vegetative Growth Type _____ <input type="checkbox"/> No evidence of excessive growth <input type="checkbox"/> Vegetation in channels does not obstruct flow <input type="checkbox"/> Location shown on site map Areal extent _____ Remarks _____ _____ |
| D. Cover Penetrations <input type="checkbox"/> Applicable <input type="checkbox"/> N/A | |
| 1. | Gas Vents <input type="checkbox"/> Active <input type="checkbox"/> Passive <input type="checkbox"/> Properly secured/locked <input type="checkbox"/> Functioning <input type="checkbox"/> Routinely sampled <input type="checkbox"/> Good condition <input type="checkbox"/> Evidence of leakage at penetration <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____ _____ |
| 2. | Gas Monitoring Probes <input type="checkbox"/> Properly secured/locked <input type="checkbox"/> Functioning <input type="checkbox"/> Routinely sampled <input type="checkbox"/> Good condition <input type="checkbox"/> Evidence of leakage at penetration <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____ _____ |
| 3. | Monitoring Wells (within surface area of landfill) <input type="checkbox"/> Properly secured/locked <input type="checkbox"/> Functioning <input type="checkbox"/> Routinely sampled <input type="checkbox"/> Good condition <input type="checkbox"/> Evidence of leakage at penetration <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____ _____ |
| 4. | Leachate Extraction Wells <input type="checkbox"/> Properly secured/locked <input type="checkbox"/> Functioning <input type="checkbox"/> Routinely sampled <input type="checkbox"/> Good condition <input type="checkbox"/> Evidence of leakage at penetration <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____ _____ |
| 5. | Settlement Monuments <input type="checkbox"/> Located <input type="checkbox"/> Routinely surveyed <input type="checkbox"/> N/A Remarks _____ _____ |

| | | |
|--|--|--|
| E. Gas Collection and Treatment <input type="checkbox"/> Applicable <input type="checkbox"/> N/A | | |
| 1. | Gas Treatment Facilities <input type="checkbox"/> Flaring <input type="checkbox"/> Thermal destruction <input type="checkbox"/> Collection for reuse <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____ _____ | |
| 2. | Gas Collection Wells, Manifolds and Piping <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____ _____ | |
| 3. | Gas Monitoring Facilities (e.g., gas monitoring of adjacent homes or buildings) <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____ _____ | |
| F. Cover Drainage Layer <input type="checkbox"/> Applicable <input type="checkbox"/> N/A | | |
| 1. | Outlet Pipes Inspected <input type="checkbox"/> Functioning <input type="checkbox"/> N/A Remarks _____ _____ | |
| 2. | Outlet Rock Inspected <input type="checkbox"/> Functioning <input type="checkbox"/> N/A Remarks _____ _____ | |
| G. Detention/Sedimentation Ponds <input type="checkbox"/> Applicable <input type="checkbox"/> N/A | | |
| 1. | Siltation Areal extent _____ Depth _____ <input type="checkbox"/> N/A <input type="checkbox"/> Siltation not evident Remarks _____ _____ | |
| 2. | Erosion Areal extent _____ Depth _____ <input type="checkbox"/> Erosion not evident Remarks _____ _____ | |
| 3. | Outlet Works <input type="checkbox"/> Functioning <input type="checkbox"/> N/A Remarks _____ _____ | |
| 4. | Dam <input type="checkbox"/> Functioning <input type="checkbox"/> N/A Remarks _____ _____ | |

| | | | |
|--|--|---|--|
| H. Retaining Walls | | <input type="checkbox"/> Applicable | <input type="checkbox"/> N/A |
| 1. | Deformations | <input type="checkbox"/> Location shown on site map | <input type="checkbox"/> Deformation not evident |
| | Horizontal displacement_____ | Vertical displacement_____ | |
| | Rotational displacement_____ | | |
| | Remarks_____ | | |
| 2. | Degradation | <input type="checkbox"/> Location shown on site map | <input type="checkbox"/> Degradation not evident |
| | Remarks_____ | | |
| I. Perimeter Ditches/Off-Site Discharge | | <input type="checkbox"/> Applicable | <input type="checkbox"/> N/A |
| 1. | Siltation | <input type="checkbox"/> Location shown on site map | <input type="checkbox"/> Siltation not evident |
| | Areal extent_____ | Depth_____ | |
| | Remarks_____ | | |
| 2. | Vegetative Growth | <input type="checkbox"/> Location shown on site map | <input type="checkbox"/> N/A |
| | <input type="checkbox"/> Vegetation does not impede flow | | |
| | Areal extent_____ | Type_____ | |
| | Remarks_____ | | |
| 3. | Erosion | <input type="checkbox"/> Location shown on site map | <input type="checkbox"/> Erosion not evident |
| | Areal extent_____ | Depth_____ | |
| | Remarks_____ | | |
| 4. | Discharge Structure | <input type="checkbox"/> Functioning | <input type="checkbox"/> N/A |
| | Remarks_____ | | |
| VIII. VERTICAL BARRIER WALLS | | <input type="checkbox"/> Applicable | <input checked="" type="checkbox"/> N/A |
| 1. | Settlement | <input type="checkbox"/> Location shown on site map | <input type="checkbox"/> Settlement not evident |
| | Areal extent_____ | Depth_____ | |
| | Remarks_____ | | |
| 2. | Performance Monitoring | Type of monitoring_____ | |
| | <input type="checkbox"/> Performance not monitored | | |
| | Frequency_____ | <input type="checkbox"/> Evidence of breaching | |
| | Head differential_____ | | |
| | Remarks_____ | | |

| | |
|--|--|
| IX. GROUNDWATER/SURFACE WATER REMEDIES <input type="checkbox"/> Applicable <input checked="" type="checkbox"/> N/A | |
| A. Groundwater Extraction Wells, Pumps, and Pipelines <input type="checkbox"/> Applicable <input type="checkbox"/> N/A | |
| 1. | Pumps, Wellhead Plumbing, and Electrical <input type="checkbox"/> Good condition <input type="checkbox"/> All required wells properly operating <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____ _____ _____ |
| 2. | Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____ _____ _____ |
| 3. | Spare Parts and Equipment <input type="checkbox"/> Readily available <input type="checkbox"/> Good condition <input type="checkbox"/> Requires upgrade <input type="checkbox"/> Needs to be provided Remarks _____ _____ _____ |
| B. Surface Water Collection Structures, Pumps, and Pipelines <input type="checkbox"/> Applicable <input type="checkbox"/> N/A | |
| 1. | Collection Structures, Pumps, and Electrical <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____ _____ _____ |
| 2. | Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____ _____ _____ |
| 3. | Spare Parts and Equipment <input type="checkbox"/> Readily available <input type="checkbox"/> Good condition <input type="checkbox"/> Requires upgrade <input type="checkbox"/> Needs to be provided Remarks _____ _____ _____ |

| | | | |
|----------------------------|---|-------------------------------------|------------------------------|
| C. Treatment System | | <input type="checkbox"/> Applicable | <input type="checkbox"/> N/A |
| 1. | Treatment Train (Check components that apply) <input type="checkbox"/> Metals removal <input type="checkbox"/> Oil/water separation <input type="checkbox"/> Bioremediation <input type="checkbox"/> Air stripping <input type="checkbox"/> Carbon adsorbers <input type="checkbox"/> Filters _____ <input type="checkbox"/> Additive (e.g., chelation agent, flocculent) _____ <input type="checkbox"/> Others _____ <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> Sampling ports properly marked and functional <input type="checkbox"/> Sampling/maintenance log displayed and up to date <input type="checkbox"/> Equipment properly identified <input type="checkbox"/> Quantity of groundwater treated annually _____ <input type="checkbox"/> Quantity of surface water treated annually _____ Remarks _____ _____ | | |
| 2. | Electrical Enclosures and Panels (properly rated and functional) <input type="checkbox"/> N/A <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____ _____ | | |
| 3. | Tanks, Vaults, Storage Vessels <input type="checkbox"/> N/A <input type="checkbox"/> Good condition <input type="checkbox"/> Proper secondary containment <input type="checkbox"/> Needs Maintenance Remarks _____ _____ | | |
| 4. | Discharge Structure and Appurtenances <input type="checkbox"/> N/A <input type="checkbox"/> Good condition <input type="checkbox"/> Needs Maintenance Remarks _____ _____ | | |
| 5. | Treatment Building(s) <input type="checkbox"/> N/A <input type="checkbox"/> Good condition (esp. roof and doorways) <input type="checkbox"/> Needs repair <input type="checkbox"/> Chemicals and equipment properly stored Remarks _____ _____ | | |
| 6. | Monitoring Wells (pump and treatment remedy) <input type="checkbox"/> Properly secured/locked <input type="checkbox"/> Functioning <input type="checkbox"/> Routinely sampled <input type="checkbox"/> Good condition <input type="checkbox"/> All required wells located <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____ _____ | | |
| D. Monitoring Data | | | |
| 1. | Monitoring Data <input type="checkbox"/> Is routinely submitted on time <input type="checkbox"/> Is of acceptable quality | | |
| 2. | Monitoring data suggests: <input type="checkbox"/> Groundwater plume is effectively contained <input type="checkbox"/> Contaminant concentrations are declining | | |

| | | | |
|---|---|--|--|
| D. Monitored Natural Attenuation | | | |
| 1. | Monitoring Wells (natural attenuation remedy) <input type="checkbox"/> Properly secured/locked <input type="checkbox"/> Functioning <input type="checkbox"/> Routinely sampled <input type="checkbox"/> Good condition <input type="checkbox"/> All required wells located <input type="checkbox"/> Needs Maintenance <input type="checkbox"/> N/A Remarks _____ _____ | | |
| X. OTHER REMEDIES | | | |
| If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction. | | | |
| XI. OVERALL OBSERVATIONS | | | |
| A. Implementation of the Remedy | | | |
| <p>Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.).</p> <p>In accordance with the DD, the LUCs are intended to manage exposure hazards to the public through public awareness. People have been following the 3 R's, and calling 911 when items have been encountered. The signs are placed at typical access points. Although some munitions items (see Table 3 and Appendix C) have been found in or near the MRS, no injuries have been reported. Visual inspection and maintenance of the existing signage and an evaluation of current site conditions are documented in the Appendix D 2020 LTM Report.</p> <p>_____</p> <p>_____</p> | | | |
| B. Adequacy of O&M | | | |
| <p>Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy.</p> <p>The LUCs are intended to manage exposure hazards to the public through public awareness. Although some munitions items (see Table 3 and Appendix C) have been found in or near the MRS, no injuries have been reported, indicating people have been following the 3 R's, and calling 911 when items have been encountered. System operations involves visual inspection and maintenance of the existing signage and an evaluation of current site conditions (as documented in the Appendix D 2020 LTM Report).</p> <p>Coupled with annual UXO awareness training, the remedy is accomplishing a reduction of the probability of the public handling munitions encountered and it is protective in the long term.</p> <p>_____</p> | | | |

| | |
|---|--|
| C. | Early Indicators of Potential Remedy Problems |
| <p>Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs, that suggest that the protectiveness of the remedy may be compromised in the future.</p> <p>There are erosion issues in this dynamic seashore environment. The area of the Tom Nevers Ball Field sign experienced significant erosion causing the sign to fall off the cliff/bluff. Similarly, the area of the Russell Way Road sign was found to have undergone significant erosion (the sign had to be relocated). However, annual inspection of the signs is adequate to ensure any impacted sign will be repaired/replaced as soon as practical.</p> | |
| D. | Opportunities for Optimization |
| <p>Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.</p> <p>Annual inspection of the signs is adequate to ensure any impacted sign will be repaired/replaced as soon as practical. _____</p> | |

APPENDIX C – EOD REPORTS

Local Police/Fire Departments as well as the MA State Police Bomb Squad and Navy EOD, were contacted regarding reported incidents. USACE continues to attempt to obtain all EOD reports for all projects currently undergoing land use controls. Unfortunately obtaining complete reports or any report at all has been an ongoing challenge as EOD reports are not produced for all EOD responses. Reports that are provided are usually inadequate as well. Most do not provide specific information such as the site/project name and/or grid coordinate location of the munition response. Many are labeled as found on Nantucket, which can be anywhere on the island and not particularly related to our project and not within or near our project footprint. Our requests and the challenge of obtaining all reports with complete information has been elevated up the USACE chain of command; if and when these EOD reports are obtained, they will be provided.

Summary of Emergency Response Calls

| Location | Ordnance Description | Date | Response Action - Disposition |
|--|--|-------------|---|
| No specific location given | Two 90-mm HE projectiles | 5-Sep-16 | Moved to local disposal site and disposed by EOD. 8-Sep-16 No EOD Report Available. |
| Sconset Dump | 5-inch rocket warhead | 10-Feb-18 | Disposed by EODMU12 Detachment Newport. 11-Feb-18 EOD Report 18-003 8027 |
| No specific location given | 2.75-inch training rocket | 12-Mar-18 | Disposed by EODMU12 Detachment Newport No EOD Report Available. |
| On New South Road between the intersection of Rugged and New South roads and the Tom Nevers ballfields | "unexploded military shell" 2.25-inch scar rocket per email from USACE. | 30-Jul-18 | None provided |
| No specific location given | Two 5-inch Zuni rockets | 24-Oct-18 | Disposed by EODMU12 Detachment Newport No EOD Report Available. |
| No specific location given | Three 2.75-inch SCAR rockets | 1-Nov-18 | Disposed by EODMU12 Detachment Newport No EOD Report Available. |
| No specific location given-- "in a small clearing approx 100 yards from a local residence" | 3 additional UXOs protruding from bluff in same vicinity | 25-Mar-20 | EOD Detachment Newport consolidated at local disposal area--disposed by detonation. 25-Mar-20 No EOD Report Available. |

EMERGENCY 8027

| | | | |
|--|--|---|---|
| 1. Control Number 18-003 | 2. Date/Time Reported: 11FEB2018/ 0500hrs | 3. Reported By/Phone Number: Massachusetts State Bomb Squad (978) 273-7333 SGT Bill Qualls | 4. Location Nantucket Island, MA |
| 5a. Situation Reported On the 11 th of February 2018 the Massachusetts State Bomb Squad requested EODMU12 DET NEWPORT for the verification and disposition of a suspected ordnance item found on the beach in Nantucket Island, MA. | | | 5b. Emergency Level: <input checked="" type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 |
| 6. Response Personnel: <input type="checkbox"/> LT Coombs <input type="checkbox"/> EODCS Mitchell <input checked="" type="checkbox"/> EODC Dyer <input type="checkbox"/> EODC Szot | | 6a. Date/Time Departed: 11FEB2018 / 0500hrs | 6b. Date/Time Completed: 11FEB2018 / 1700 |
| | | | 6c. Pick-up Man Hours (Per Person): 24 hours |
| 7. Disposal Personnel: <input type="checkbox"/> LT Coombs <input type="checkbox"/> EODCS Mitchell <input checked="" type="checkbox"/> EODC Dyer <input type="checkbox"/> EODC Szot | | 7a. Demo Man Hours(per Person): .5 hours | 8. Total Man Hours: 25 hours |
| 9. EPA COORDINATION: I have contacted the applicable state environmental agency and have received a oral/written permit/approval to dispose of the items listed in section 5. (Filled out by <u>Owner of Range</u> , not required for level 1 emergency, recommended for level 2 emergency, time permitting.) | | | |
| <div style="display: flex; justify-content: space-between;"><div>_____ (Printed Name)</div><div>_____ (Title)</div><div>_____ (Agency)</div></div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"><div>_____ (Signature)</div><div>_____ (Date)</div></div> | | | |
| 10. Disposition: <input type="checkbox"/> RSP'd <input checked="" type="checkbox"/> BIP <input type="checkbox"/> PUCA <input type="checkbox"/> Destroyed <input type="checkbox"/> Recovered for Intel | | | |
| Date Destroyed: 11 FEB 2018 | | Disposal Site: <u>Nantucket Island, MA</u> | |
| Destroyed By: EOD1 ST. JOHN | | Signature: _____ | |
| Witnessed By: EODC DYER | | Signature: _____ | |
| <input checked="" type="checkbox"/> Items transported to range for disposal. | | | |
| <input type="checkbox"/> Items transported to EOD Retrograde Magazine, awaiting range availability, authorized delay IAW MMR. | | | |
| 11. Name, Grade, Signature of OIC Theodore Coombs LT, USN, OIC | | 12. Telephone # Comm: 401-832-3302 DSN: 920-3301 Cell : 401-862-6864 Fax : 401-832-6157 | |
| | | 13. Date 11 FEB 2018 | |

Event Summary:

On the 11th of February 2018 the Massachusetts State Bomb requested EODMU12 DET NEWPORT for the verification and disposition of a suspected ordnance item found on the beach in Nantucket Island, MA. Det Newport departed NAVSTA Newport at 0500 and met Massachusetts State Police at Nantucket Island at 0900. The item was identified as a 5inch Rocket Warhead and deemed not suitable for transport. Det Newport coordinated with Massachusetts State Bomb Squad to dispose of on site. No media interest. The detachment returned to base at 1700. NFTR.

Items destroyed:

1. ONE 5" Rocket Warhead



APPENDIX D –
D-1: ANNUAL 2020 LTM REPORT
D-2: ANNUAL LTM REPORTS for 2017, 2018, 2019



LETTER REPORT

TO: Carol Charette, USACE-CENAE, Todd Beckwith, USACE-CENAB

FROM: Thomas Bachovchin, ERT

DATE: October 08, 2020

SUBJECT: Annual Long Term Monitoring (LTM) Letter Report, Sign Inspection and UXO Awareness Training, Aerial Rocket Range Target #1 MRS, Nantucket Island

ERT, under contract with the U.S. Army Corps of Engineers (USACE), New England District, is implementing land use controls (LUCs) at the Former Nantucket Beach FUDS, project number D01MA045601, to address the Aerial Rocket Range Target #1 Munitions Response Site (MRS). This annual Long Term Monitoring report documents activities carried out on Nantucket Island in accordance with the LUC Implementation Plan (LUCIP) and Performance Work Statement for contract W912DR-15-D-0015-0003.

The site visit, planned for June 2020, prior to the open beach season, was impacted by the Covid-19 pandemic and could not be conducted at that time. As a result, the Unexploded Ordnance (UXO) Awareness Training was conducted remotely, via the internet. The training was conducted as follows:

- On July 1, 2020, ERT conducted a UXO Awareness Training presentation via Google Meet. Multiple parties were invited, including the Massachusetts Department of Environmental Protection (MassDEP), the Nantucket Conservation Foundation, first responders (local police and fire department personnel) and all other personnel shown in the LUCIP distribution list (Table 3-1 of the LUCIP).

ERT was eventually able to conduct a site visit on October 8, 2020. The previous year's site visit was conducted on June 24, 2019. The 2020 LTM inspection was conducted concurrent with the Five Year Review (FYR) site inspection due to COVID-related travel recommendations. The objectives of the site visit were to:

- Perform evaluation of current site conditions and sign inspection and maintenance of signs associated with the MRS.
- Replace and/or repair signs as needed.
- Review and document ordnance responses from the State Bomb Squad or Explosive Ordnance Detachment since the last inspection.

UXO Awareness Training



The presentation was conducted via Google Meet on July 01, 2020, by Mr. Michael Watson, ERT MMRP Health and Safety Officer. The PowerPoint presentation had previously been approved by USACE for the initial UXO Awareness presentation in June 2017. Due to the nature of the internet presentation, it was not possible to obtain a sign-in sheet. As a result, an attendance sheet was developed for personnel who attended virtually and is included in Attachment A. Several persons could not attend the presentation and asked for DVDs of the presentation; these were forwarded. The attendance included in Attachment A indicates those who requested DVDs.

Sign Inspection and Maintenance

In the interest of minimizing trips because of Covid-19 concerns, the October visit combined the implementation of the recommendations from last year's annual sign inspection (*Annual Long Term Monitoring Letter Report, Sign Inspection and UXO Awareness Training, USACE, May 2020*) and the sign inspection and maintenance for 2020. That is, the October 2020 trip included addressing signs that required repair or new installation per the LTM Letter Report of 2019 activities, as well as inspecting and cleaning the remaining signs.

On October 08, 2020, ERT's Mr. David Cote and Mr. Jim Stuby, conducted the inspection and maintenance. The weather conditions were sunny and very windy with a temperature of approximately 70 degrees F. Each sign, its location and general vicinity were evaluated in terms of site conditions.

In summary, ERT repaired the Russell Way sign, which had undergone severe erosion around the pedestal such that it could no longer be viewed by a person standing on the eroded ground surface. ERT intended to replace the Tom Nevers sign that has since fallen off the eroding cliff/bluff, but the new sign was damaged in shipping and the repair could not be effected. The Land Bank Commission sign had been vandalized (sign was saw-cut) and will need to be replaced. The remaining signs were inspected and cleaned.

Formal recommendations for each sign are included in the Attachment B form.

Site Conditions

Current site conditions were evaluated as part of this report.

Attachment B provides a site figure that indicates the footprint of the area physically evaluated during the inspection. ERT surveyed the public areas from the eastern end of the implemented LUCs (signage) at the Tom Nevers Ballfield to the western end at Russell Way Road, and all public areas in between. These areas were assessed for site conditions in terms of erosion and potential impacts to the proper functioning of the LUCs.

As indicated in Attachment C and as discussed above, relative to the 2019 visit, site conditions indicate some areas of erosion, or potential future erosion that may affect the proper function of the LUCs in terms of signs remaining in place.

Site conditions are described relative to the signage for easier geographical reference (see site figure, Attachment B). The vicinity of the Tom Nevers sign showed increased erosion and that sign had fallen over the cliff as noted above. During the 2020 site visit, ERT intended to replace the Tom Nevers sign that had since fallen off the eroding cliff/bluff, but the shipping of the new



sign was delayed and the repair could not be effected; it will be repaired during the next site visit in June 2021, at a new location will be away from the cliff area where there will be no impact on LUC implementation. Minor erosion in the vicinity of the New South Road sign was observed but is not considered to have any impact at this time. The severe beach erosion around the Russell Way sign resulted in its re-location during the October 2020 visit. The Sign Inspection and Site Conditions forms provided on pages B-3 and C-2, respectively, provide additional detail on site conditions.

During ERT's inspection, there were no munition finds protruding from the cliffs or in any other areas. No munitions were encountered on or along the roadways or parking lots. There were no indications of past munition finds in the cliffs or during maintenance of unpaved roads or parking lots. While these areas are included in the inspection because they represent beach access points, some of them, such as the Tom Nevers area, are not within the reduced MRS footprint.

USACE also queried the Nantucket Planning and Land Use Specialist (PLUS) Department for construction permits over the past five years to determine whether intrusive activities had been conducted in the area. One private owner on New South Road had a detached garage built in 2018. The owner was well aware of the past military history of his property and noted that the garage was constructed in a previously cleared area; no munitions or munitions debris were encountered. No other indications of relevant intrusive activity conducted by private property owners was uncovered in the PLUS permits.

The Director of Land Management (Chris Iller) for the Nantucket Conservation Foundation, an owner of large areas of the site, provided information regarding NCF construction activities. Mr Iller indicated that there have been no intrusive construction type activities, but rather surficial landscaping and maintenance type activities to promote grasslands growth (March 30, 2021 email communication). There have been no munitions-related finds during this activity.

Post Inspection Interviews

The scope of the annual LTM includes conducting interviews with community members about the site conditions. As presented in Attachment D, ERT conducted these interviews via phone.

Explosive Ordnance Detail (EOD) Activity

Local Police/Fire Departments as well as the MA State Police Bomb Squad and Navy EOD, were contacted regarding incidents since the last annual LTM inspection (June 2019). Attachment E contains a table describing ordnance finds since those reported in the last annual LTM report. USACE continues to attempt to obtain all EOD reports for all projects currently undergoing land use controls. Unfortunately obtaining complete reports or any report at all has been an ongoing challenge as EOD reports are not produced for all EOD responses. Reports that are provided are usually inadequate as well. Most do not provide specific information such as the site/project name and/or grid coordinate location of the munition response. Many are labeled as found on Nantucket, which can be anywhere on the island and not particularly related to our project and not within or near our project footprint. Our requests and the challenge of obtaining all reports with complete information has been elevated up the USACE chain of command; if and when these EOD reports are obtained, they will be provided.



This letter report is organized as follows:

Attachment A – UXO Awareness Training Attendance

Attachment B – Site Figure, Sign Inspection Form, and Photo Documentation Log

Attachment C – Site Conditions Form

Attachment D – Interview Forms

Attachment E – EOD or MA State Bomb Squad Activity



Attachment A

UXO Awareness Training Attendance

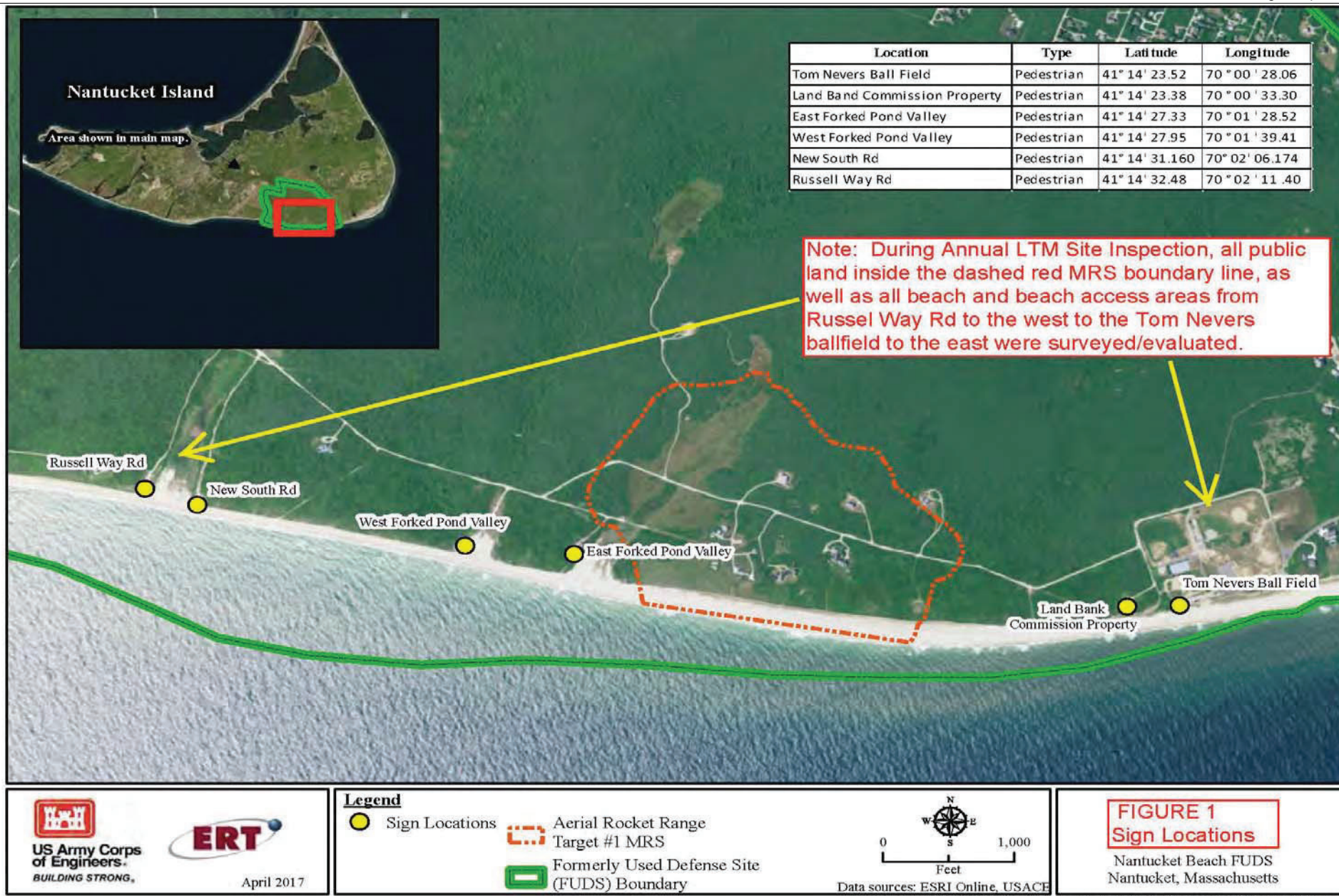


| NANTUCKET UXO AWARENESS TRAINING – JULY 1, 2020 PROVIDED REMOTELY THROUGH GOOGLE MEET | | | |
|--|--|----------------|--|
| Name | Title/organization | Phone | Email |
| Janine Mauldin | Sergeant - Nantucket Police Department | (508) 228-1212 | jmauldin@police.nantucket-ma.gov |
| Brendan Coakley | Emergency Management Coordinator | NA | bcoakley@police.nantucket-ma.gov |
| Elizabeth Gibson | Town of Nantucket, Town Manager | (508) 228-7255 | townmanager@nantucket-ma.gov |
| | | | |
| Could Not Attend – Requested (and were provided) DVDs of the Presentation | | | |
| Stephen Arceneaux | Deputy Director of Operations DPW | NA | sarceneaux@nantucket-ma.gov |
| Diane Lang | Stewardship Manager Coscata Coatue Wildlife Refuge | NA | dlang@thetrustees.org |
| Chris Iller | Director of Land Management Nantucket Conservation Foundation | (508)-560-9656 | ciller@nantucketconservation.org |
| <i>Note: some attendees were not identified through the Google Meet application and may include those above who had committed to attend.</i> | | | |



Attachment B

Site Figure, Sign Inspection Form, and Photo Documentation Log





| I. Site Information | | | | |
|---|---|---|---|---|
| Site Name: Nantucket Beach FUDS – Project no. D01MA045601 | | Date(s) of Inspection: October 08, 2020 | | |
| Location and Region: Nantucket, MA | | | | |
| II. Sign Inspection | | | | |
| Sign Location | Condition (poor, fair, good, excellent) | Maintenance Required (cleaning, repair, replacement) | Maintenance Performed (type and date) | Notes: (include photograph documentation before and after maintenance) |
| Tom Nevers Ball Field | Missing | New sign to be installed | New sign was damaged in shipping and could not be installed | New sign will need to be installed in new location away from bluff. RECOMMEND: Replace Sign (Photos #1, #2, #3) |
| Land Bank Commission Property | Missing | New sign to be installed | N/A | Vandalized by sawing off sign leaving pedestal behind. New sign will need to be installed. RECOMMEND: Replace Sign (Photos #4, #5) |
| East Forked Pond Valley | Excellent | Cleaning, wiped down with Windex | Cleaning, October 08, 2020 | Sign location is before beach entrance trail. Pedestal in excellent condition, no erosion issues. RECOMMEND: No Action (Photos #6, #7, #8, #9) |
| West Forked Pond Valley | Excellent | N/A | Replaced sign atop pedestal October 08, 2020 | Replaced sign atop existing pedestal. No erosion issues. RECOMMEND: No Action (Photos #10, #11, #12) |
| New South Road | Good | Cleaning, wiped down with Windex | Cleaning, October 08, 2020 | Sign and pedestal in good condition, potential erosion issues in the future. RECOMMEND: No Action (Photos #13, #14, #15, #16) |
| Russell Way Road | Good | Cleaning of sign, relocated on new pedestal | Replaced sign atop new pedestal, October 08, 2020 | Severe erosion at pedestal base, making sign difficult to view. Sign relocated 50 ft away atop new pedestal. RECOMMEND: No Action (Photos #17, #18, #19, #20) |

Tom Nevers Ball Field Sign
Inspection October 08, 2020



1. Condition in 2019.



2. Severe erosion (2020).



3. Old Sign Fallen Down Bluff (was discarded).

Land Bank Commission Property Sign
Inspection October 08, 2020



4. Condition in 2019.



5. Sign Vandalized in 2020 (sawn off, only post remains)

East Forked Pond Valley Sign Inspection October 08, 2020



6. General Area.



7. Maintenance.



8. Underside Condition.



9. Topside Condition.

West Forked Pond Valley Sign
Inspection October 08, 2020



10. Condition in 2019: Sign facing missing.



11. Sign Repaired in 2020.



12. General Area.

New South Road Sign
Inspection October 08, 2020



13. General Area.



14. Topside Condition.



15. Underside Condition.



16. Potential Future Erosion, Facing West.

Russell Way Road Sign
Inspection October 08, 2020



17. As Encountered in 2020.



18. Severe Erosion around Pedestal Rendered it Difficult to View.



19. Sign Relocated approximately 50 feet Away.



20. Relocated Sign Using New Pedestal.



Attachment C
Site Conditions Form



| I. Site Information | | |
|---------------------------------------|---|---|
| Site Name: Nantucket Beach FUDS | | Date(s) of Inspection: October 08, 2020 |
| Location and Region: Nantucket, MA | | |
| II. SITE CONDITIONS | | |
| Location (vicinity of sign) | Site Conditions of Note (e.g., significant erosion since last site inspection, observations of munitions, or other observations that impact LUC implementation) | Notes: (include photograph documentation) |
| Area of Tom Nevers Ball Field | Severe erosion undercut previous sign location. Beach cliff looks to be eroding significantly, exposing miscellaneous old building materials and rubbish. | New sign was damaged in shipping and could not be installed, but new location away from cliff will minimize any further LUC implementation impacts. |
| Area of Land Bank Commission Property | Minimal erosion to the west of sign. Potential for future erosion of area, but no issues observed in 2020. | Potential future impact on LUC implementation noted in 2019 was not apparent in 2020. |
| Area of East Forked Pond Valley | No significant observations impacting LUCs implementation. | No findings that impact LUC implementation. |
| Area of West Forked Pond Valley | No significant observations impacting LUCs implementation. | No findings that impact LUC implementation. |
| Area of New South Road | Beach area showing some signs of erosion. | Potential future impact on LUC implementation. |
| Area of Russell Way Road | Severe erosion around pedestal rendered sign difficult to view. | New location of sign behind dune will minimize any impact on LUC implementation. |



Attachment D
Interview Forms



| I. Site Information | | |
|--|--------------------------|--|
| Site Name: Nantucket Beach FUDS | | Date(s) of Inspection: NOTE—THE INTERVIEW FORMS ARE CONTAINED IN APPENDIX C OF THE FIVE YEAR REVIEW REPORT |
| Location and Region: Nantucket, MA | | |
| II. INTERVIEW ACTIVITY | | |
| Individual Interviewed | Date of Interview | Brief Description of Discussion (include reports of onsite intrusive activities, EOD response action, etc.) |
| Eric Savetsky, Nantucket Land Bank Commission, 508-228-7240 | 9/11/20 | Phone interview, see questionnaire |
| Private Resident/Lot owner | 9/09/20, 4/05/21 | Phone interview, see questionnaire |
| Brendan Coakley, Nantucket Police Department, 508-325-4100 | 10/08/20 | Phone interview, see questionnaire |
| Numerous attempts to reach other relevant parties were unsuccessful. | | |
| | | |



Attachment E

EOD or MA State Bomb Squad Activity



NOTE:

Local Police/Fire Departments as well as the MA State Police Bomb Squad and Navy EOD, were contacted regarding incidents since the last annual LTM inspection (June 2019). The table describes ordnance finds since the ones reported in the last annual LTM report. USACE continues to attempt to obtain all EOD reports for all projects currently undergoing land use controls. Unfortunately obtaining complete reports or any report at all has been an ongoing challenge as EOD reports are not produced for all EOD responses. Reports that are provided are usually inadequate as well. Most do not provide specific information such as the site/project name and/or grid coordinate location of the munition response. Many are labeled as found on Nantucket, which can be anywhere on the island and not particularly related to our project and not within or near our project footprint. Our requests and the challenge of obtaining all reports with complete information has been elevated up the USACE chain of command; if and when these EOD reports are obtained, they will be provided.

| Location | Ordnance Description | Date | Response Action - Disposition | COMMENTS |
|--|--|-----------|---|-------------------------|
| Unclear where item was found; no specific location given | Two 5-inch Zuni rockets | 24-Oct-18 | Disposed by EODMU12 Detachment Newport | No EOD Report Available |
| Unclear where item was found; no specific location given | Three 2.75-inch SCAR rockets | 1-Nov-18 | Disposed by EODMU12 Detachment Newport | No EOD Report Available |
| Unclear where item was found; no specific location given | 3 additional UXOs protruding from bluff in same vicinity | 25-Mar-20 | EOD Detachment Newport consolidated at local disposal area--disposed by detonation. | No EOD Report Available |



14401 Sweitzer Lane, Suite 300
Laurel, MD 20707
Phone: 301-361-0620
Fax: 301-361-0659
www.ERTCorp.com

TRIP REPORT

TO: Carol Charette, USACE-CENAE, Todd Beckwith, USACE-CENAB
FROM: Jennifer Harlan, ERT
DATE: June 26, 2017
SUBJECT: Trip Report, Nantucket Island

ERT, under contract with the U.S. Army Corps of Engineers (USACE), New England District, is implementing land use controls (LUCs) at Former Nantucket Ordnance Site to address the Aerial Rocket Range Target #1 Munitions Response Site (MRS). This trip report documents activities carried out on Nantucket in accordance with the Draft Land Use Control Implementation Plan (LUCIP) and Performance Work Statement for contract W912DR-15-D-0015-0003.

ERT staff arrived by ferry from Hyannis on Nantucket Island at approximately 9:40 am on June 21, 2017. The objectives of the visit were to:

- Give a public presentation to local residents on UXO safety at the Nantucket Beach FUDS.
- Perform inspection and maintenance of six signs associated with the MRS.

UXO Awareness Training

The presentation was conducted at the Nantucket Inn (1 Miller Lane, Nantucket) by Mr. Howard “Yorky” Knowles, Senior UXO Manager at ERT. The PowerPoint presentation approved by USACE was used, and Mr. Knowles delivered the presentation at 12:00pm, which was complete by 12:30pm. The sign in sheet is included in Attachment A, but attendees are briefly listed below:

- Charles D. Larson, Deputy Director, Nantucket Department of Public Works
- Christopher M. Carnevale, Detective, Training Coordinator, Nantucket Police Department
- Tom Lennon, Director of Finance & Administration, Nantucket Conservation Foundation, Inc.

Attendees requested an electronic copy of the presentation be emailed to them. The presentation was recorded using two cameras by James Stuby of ERT. ERT will provide an electronic version of the presentation recording under separate cover.

Sign Inspection and Maintenance

After the presentation, Mr. Stuby and Mr. Knowles drove to Tom Nevers Ball field to begin the inspection of the six signs, working east to west. Mr. Larson wanted to see the signs himself and traveled with ERT in his own vehicle during the inspection. The signs were inspected between



14401 Sweitzer Lane, Suite 300
Laurel, MD 20707
Phone: 301-361-0620
Fax: 301-361-0659
www.ERTCorp.com

1:00 pm and 2:30 pm in windy and foggy weather. Documentation of the inspection is shown in Table 1 below. Photos of each of the signs are shown in Attachment B.

ERT departed Nantucket Island at approximately 4:00 pm.

Table 1: Sign Inspection Form

| I. Site Information | | | | |
|---|---|--|---|--|
| Site Name: Nantucket Beach FUDS | | Date(s) of Inspection: June 21, 2017 | | |
| Location and Region: Nantucket, MA | | | | |
| II. Sign Inspection | | | | |
| Sign Location | Condition (poor, fair, good, excellent) | Maintenance Required (cleaning, repair, replacement) | Maintenance Performed (type and date) | Notes: (include photograph documentation before and after maintenance) |
| Russell Way Road | Good | See notes | Cleaned panel | Sand around base of sign has eroded to expose cylindrical concrete base. Sand could be replaced but the bank is eroding overall and so it would be a temporary solution. May be advisable to move sign north away from eroding bank. |
| New South Road | Good | None | Cleaned panel | Slight damage to lower right quadrant of panel – two small indentations. Damage does not reduce effectiveness of the sign. See photos. |
| West Forked Pond Valley | Excellent | None | Cleaned panel | Sign appears to be brand new. |
| East Forked Pond Valley | Excellent | None | Cleaned panel | Sign appears to be brand new. |
| Land Bank Commission Property | Excellent | None | none | Sign appears to be brand new. |
| Tom Nevers Ball Field | Excellent | None | none | Sign appears to be brand new. |
| III. Additional Notes | | | | |
| None. | | | | |



Appendix A
Presentation Sign-in Sheet

Nantucket Inn, Nantucket, Massachusetts, June 21, 2017

Note: Contact information is requested so that USACE may provide notice of future presentations and to notify you of updates on the site.

[illegible]



Appendix B

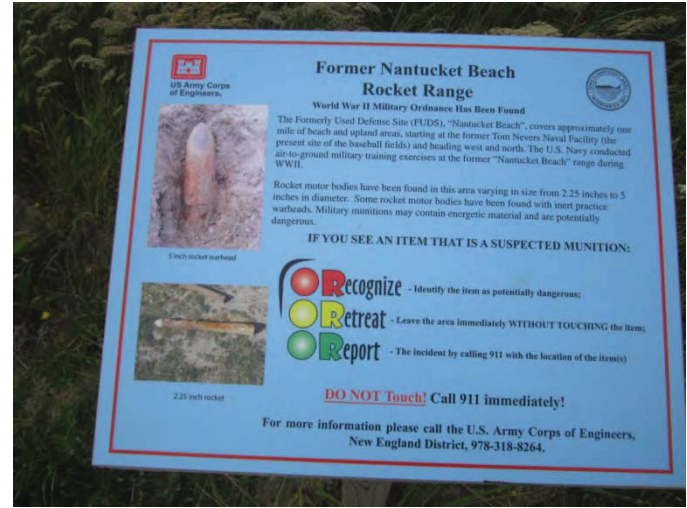
Photo Documentation

Tom Nevers Ball Field Sign

Inspection June 21, 2017



Sign in excellent condition, facing southwest.



Close up of the panel (no need to clean)



View of under side from rear.



Facing west from paved lot towards sign in center next to white car.

Land Bank Commission Property Sign

Inspection June 21, 2017



Sign in excellent condition, facing approximately north.



Close up of the panel (no need to clean).



View of under side from rear.

East Forked Pond Valley Sign

Inspection June 21, 2017



View of sign in good condition (left), facing southwest.



Another view of sign.



Close up of panel, prior to cleaning.



Close up of panel, after cleaning.



View of under side from rear.

West Forked Pond Valley Sign

Inspection June 21, 2017



View of sign in good condition.



Another view of sign.



Close up of panel, prior to cleaning.



Close up of panel, after cleaning.



View of under side from rear.

New South Road Sign Inspection June 21, 2017



View of sign in good condition, facing southwest.



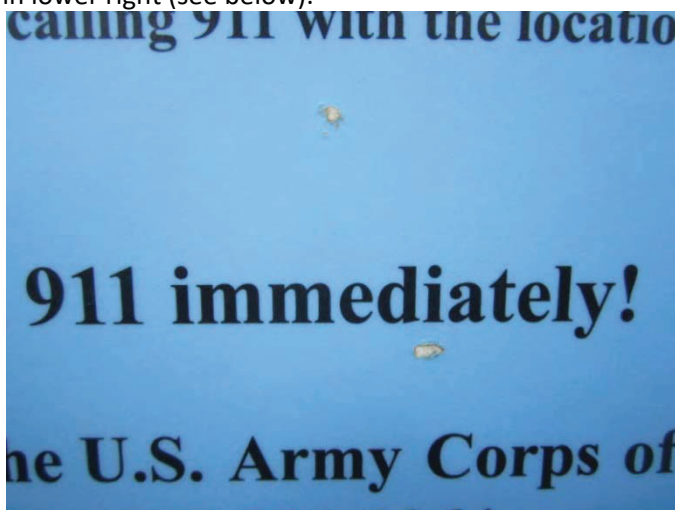
Another view of sign.



Close up of panel, prior to cleaning, with minor damage in lower right (see below).



Close up of panel, after cleaning.



Two points of minor damage to the panel.



View of under side from rear.

Russel Way Road Sign

Inspection June 21, 2017



View of sign in good condition, facing east. Note eroding bluff in background.



Close up of exposed concrete at base of sign.



Close up of panel, prior to cleaning.



Close up of panel, after cleaning.



View of under side from rear.



LETTER REPORT

TO: Carol Charette, USACE-CENAE, Todd Beckwith, USACE-CENAB

FROM: Thomas Bachovchin, ERT

DATE: December 6, 2018 - Final

SUBJECT: Letter Report, Sign Inspection and UXO Awareness Training, Nantucket Island

ERT, under contract with the U.S. Army Corps of Engineers (USACE), New England District, is implementing land use controls (LUCs) at the Former Nantucket Ordnance Site to address the Aerial Rocket Range Target #1 Munitions Response Site (MRS). This letter report documents activities carried out on Nantucket Island in accordance with the LUC Implementation Plan (LUCIP) and Performance Work Statement for contract W912DR-15-D-0015-0003.

ERT staff arrived on Nantucket Island on June 5, 2018. The objectives of the visit were to:

- Conduct a public presentation to local interested parties on Unexploded Ordnance (UXO) Awareness at the Nantucket Beach FUDS, project number D01MA045601.
- Perform sign inspection and maintenance of six signs associated with the MRS.

UXO Awareness Training

The presentation was conducted at the Nantucket Inn (1 Miller Lane, Nantucket) by Mr. Howard “Yorky” Knowles, ERT Senior UXO Manager. The PowerPoint presentation, approved by USACE for the initial UXO Awareness presentation in June 2017, was presented by Mr. Knowles to six attendees. The sign in sheet is included in Attachment A.

Other potential interested parties invited by USACE requested a copy of the DVD of the presentation (recorded during the June 2017 event). These were mailed out to the following:

- Nantucket Police Department, C/O Janine Mauldin
- Nantucket Police Department, Harbormaster, C/O Sheila Lucey
- Nantucket Fire Department, Fire Chief Steve Murphy

Sign Inspection and Maintenance

After the presentation, Mr. Knowles inspected the six signs, finishing at approximately 4:00 pm. The weather conditions were partly cloudy with a temperature of approximately 80 degrees F. Each sign, its location and general vicinity were evaluated in terms of site conditions.



In summary, as shown in Attachments B and C, all signs were in excellent or good condition with no need for repair, replacement, or relocation. General site conditions in the vicinity of each sign, including beach erosion, were not significantly different from those observed during last year's inspection (June 2017). There were no observed site condition changes that would impact the proper function of the LUCs.

Post Inspection Interviews

Part of the scope of the LUCIP is to conduct interviews with community members about the site conditions. ERT conducted these interviews as presented in Attachment D.

This letter report is organized as follows:

Attachment A – UXO Awareness Training Sign-in Sheet

Attachment B – Site Figure, Sign Inspection Form, and Photo Documentation Log

Attachment C – Site Conditions Form

Attachment D – Interviews Form

Attachment E – Explosive Ordnance Detail (EOD) Activity Form



Attachment A

UXO Awareness Training Sign-in Sheet

**Nantucket Beach Formerly Used Defense Site
Project No. D01MA045601**

Attendees of UXO Safety Public Meeting

Nantucket Inn, Nantucket, Massachusetts, June 5, 2018

Note: Contact information is requested so that USACE may provide notice of future presentations and to notify you of updates on the site.

[illegible]



Attachment B

Site Figure, Sign Inspection Form, and Photo Documentation Log





| I. Site Information | | | | |
|---|---|---|--|---|
| Site Name: Nantucket Beach FUDS – Project no. D01MA045601 | | Date(s) of Inspection: June 5, 2018 | | |
| Location and Region: Nantucket, MA | | | | |
| II. Sign Inspection | | | | |
| Sign Location | Condition (poor, fair, good, excellent) | Maintenance Required (cleaning, repair, replacement) | Maintenance Performed (type and date) | Notes: (include photograph documentation before and after maintenance) |
| Russell Way Road | Good | Cleaned with water and detergent mixture using rag | NA | Sand around base has eroded exposing approximately 3-4 inches of cylindrical concrete base. However, this is only a slight deterioration since June 2017 and it is still in good condition overall. |
| New South Road | Good | Cleaned with water and detergent mixture using rag | NA | Minor damage to lower right quadrant of sign (see photo); it has not significantly deteriorated since June 2017 and is still in good condition. |
| West Forked Pond Valley | Excellent | Cleaned with water and detergent mixture using rag | NA | Sign still appears new |
| East Forked Pond Valley | Excellent | Cleaned with water and detergent mixture using rag | NA | Sign still appears new |
| Land Bank Commission Property | Excellent | Cleaned with water and detergent mixture using rag | NA | Sign still appears new |
| Tom Nevers Ball Field | Excellent | Cleaned with water and detergent mixture using rag | NA | Sign still appears new. There was an empty ceramic pipe lying near the sign; it appeared to bridge a small trench. |

Tom Nevers Ball Field Sign
Inspection June 05, 2018



Sign facing southwest.



Close up (excellent condition).



View of underside from rear.



General vicinity location sign (ceramic pipe lying in background).

Land Bank Commission Property Sign
Inspection June 05, 2018



Sign facing north.



Close up (excellent condition).



View of underside from rear.



Sign and pathway to beach.

East Forked Pond Valley Sign

Inspection June 05, 2018



Sign facing southwest.



Close up (excellent condition).



View of underside from rear.



Vicinity-path to beach.

West Forked Pond Valley Sign
Inspection June 05, 2018



Sign facing west.



Close up (excellent condition).



View of underside from rear.



Vicinity-path to beach.

New South Road Sign
Inspection June 05, 2018



Sign facing southwest.



Close up showing minor chips that do not impact the message, no deterioration since last year (still in good condition).



View of underside from rear.



Beach erosion in the vicinity, facing east.

Russell Way Road Sign

Inspection June 05, 2018



Sign facing east. Note bluff in background; no significant deterioration of bluff relative to June 2017.



Same view from June 2017.



Close up (good condition).



View of underside from rear.



Minor erosion at base. Relatively slight deterioration relative to June 2017.



Same view from June 2017.



Attachment C
Site Conditions Form



| I. Site Information | | |
|---|--|--|
| Site Name: Nantucket Beach FUDS | | Date(s) of Inspection: June 5, 2018 |
| Location and Region: Nantucket, MA | | |
| II. Sign Inspection | | |
| Location (vicinity of sign) | Site Conditions of Note (e.g., significant erosion since last site inspection, observations of munitions, or other observations that impact LUC implementation) | Notes: (include photograph documentation) |
| Russell Way Road | No significant findings that impact LUC implementation. | Nearby bluff is showing signs of erosion, but not significantly different from June 2017. Photos in Attachment B show approximate 2017 and 2018 conditions for comparison. |
| New South Road | No significant findings that impact LUC implementation. | Beach showing signs of erosion, but not significantly different from June 2017. |
| West Forked Pond Valley | No significant findings that impact LUC implementation. | NA |
| East Forked Pond Valley | No significant findings that impact LUC implementation. | NA |
| Land Bank Commission Property | No significant findings that impact LUC implementation. | NA |
| Tom Nevers Ball Field | No significant findings that impact LUC implementation. | NA |



Attachment D

Interviews Forms



| I. Site Information | | |
|---|--------------------------|--|
| Site Name: Nantucket Beach FUDS | | Date(s) of Inspection: |
| Location and Region: Nantucket, MA | | |
| II. Interview Activity | | |
| Individual Interviewed | Date of Interview | Brief Description of Discussion (include reports of onsite intrusive activities, EOD response action, etc.) |
| Stephen Barnett, Homeowner | 8/22/18 | Phone interview, see questionnaire |
| Steve Murphy, Nantucket Fire Department | 8/22/18 | Phone interview, see questionnaire |
| David Worth, Nantucket Conservation Foundation | 8/22/18 | Phone interview, see questionnaire |
| Sergeant Jack Moran, Massachusetts State Police | 8/22/2018 & 8/28/2018 | No Response |
| Gregg Tivnan, Nantucket Township | 8/22/2018 & 8/28/2018 | No Response |
| | | |



Community Interview Questionnaire Sheets

Name: Stephen Barnett

Current Landowner on Nantucket Beach FUDS
Contacted 22 August, 2018

Telephone (H): 508 257 9948 **Work (W):** _____

1. A FUDS Long Term Management (LTM) is being conducted at the Former Nantucket Ordnance Site in Nantucket, MA. Have you heard about this project? If so, do you remember when and how you learned of it?

Mr. Barnett indicated he had heard about this project. Stephen first learned about the issue of ordnance presence on his property when he discovered it while digging. He contacted the police when this happened. He has since been in contact with USACE since the inception of the Remedial Investigation project.

2. Have you talked with any Army Corps of Engineers, state, or environmental officials about the ongoing FUDS LTM at the Nantucket Ordnance Site?

Mr. Barnett indicated that he had not.

3. If you have, were they responsive to your concerns or questions?

Mr. Barnett explained the only contact with the Corps of Engineers, state or environment officials was when we reached out to him.

Note, this was during the LUCIP process. During the Remedial Investigation, Mr. Barnett was heavily involved.

4. Do you know how the community receives information about local events and news (i.e., radio, television, online news sources or newspapers)?

Mr. Barnett indicated he had not heard the signs existed. The only information he receives about the project is when he is contacted by USACE. He attended a town hearing meeting that took place a few years ago, which he mentioned was informative.

5. Is there anything else you would like to mention about this project?

Mr. Barnett said he is content with the existing program, and feels more secure now that USACE is handling the munitions because USACE tested munitions instead of just destroying them.



Community Interview Questionnaire Sheets

Name: Steve Murphy

Address: 131 Pleasant Street, Nantucket, MA 02554

Fire Chief of Nantucket Fire Department

Contacted 22 August, 2018 and 23 August, 2018

Telephone (H): _____ Work (W): 508-228-2323

1. A FUDS Long Term Management (LTM) is being conducted at the Former Nantucket Ordnance Site in Nantucket, MA. Have you heard about this project? If so, do you remember when and how you learned of it?

Mr. Murphy explained he was aware of the project, and he had first heard about it approximately one year ago when he was contacted by USACE.

2. Have you talked with any Army Corps of Engineers, state, or environmental officials about the ongoing FUDS LTM at the Nantucket Ordnance Site?

Mr. Murphy has not had any recent contact with Army Corps of Engineers, state, or environmental officials. *(USACE notes that there has been much interaction with the Nantucket Fire Department throughout the course of the project, and that the Department is aware of the various activities associated with the project).*

3. If you have, were they responsive to your concerns or questions?

Not applicable; there has been no contact.

4. Do you know how the community receive information about local events and news (*i.e.*, radio, television, online news sources or newspapers)?

Mr. Murphy mentioned whenever he heard about the site it was through the newspaper.

5. Is there anything else you would like to mention about this project?

Mr. Murphy had a question regarding the storage of munitions until EOD arrives on site to destroy the item. He was not sure how the ordnance was housed until it could be exploded. He said he was aware of an informal procedure but had not heard of a formal procedure for this operation.

Community Interview Questionnaire Sheets

Name: David Worth

Acting Executive Director – Nantucket Conservation Foundation

Contacted 21 August, 2018 and 23 August, 2018

Address: Nantucket, MA 02554

Telephone (H): _____ Work (W): 508-228-2884

1. A FUDS Long Term Management (LTM) is being conducted at the Former Nantucket Ordnance Site in Nantucket, MA. Have you heard about this project? If so, do you remember when and how you learned of it?

Mr. Worth indicated he was acting director as Jim Lentowski had recently retired. *(USACE notes that Mr. Lentowski was the previous primary point of contact for NCF and was heavily involved in all phases of the project).* Mr. Worth mentioned he was aware of the project and he originally heard about it through the newspaper an unknown amount of years ago.

2. Have you talked with any Army Corps of Engineers, state, or environmental officials about the ongoing FUDS LTM at the Nantucket Ordnance Site?

Mr. Worth has not had any contact with Army Corps of Engineers, state, or environmental officials.

3. If you have, were they responsive to your concerns or questions?

Not applicable; there has been no contact.

4. Do you know how the community receive information about local events and news (*i.e.*, radio, television, online news sources or newspapers)?

Mr. Worth said usually through the newspaper or from other colleagues.

5. Is there anything else you would like to mention about this project?

Mr. Worth was concerned about a recent shell that was found in a main roadway. He was curious as to how it could have appeared there. He also was wondering how much liability there would be if they opened their land more to the public. He requested results from the study done on Nantucket Beach regarding anomaly data and any maps that were generated specific to his property.

ERT directed him to the USACE website that contains all relevant documents to help answer his questions.



Attachment E

Explosive Ordnance Detail (EOD) Activity Form



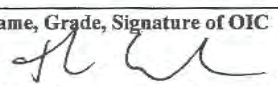


NOTE:

The attached EOD report is for an ordnance item found at or in the vicinity of the Sconset Dump. While the specific location is unclear, it appears this is outside the Nantucket Beach FUDS boundary. However, it is included here for tracking purposes only.



EMERGENCY 8027

| | | | |
|---|--|---|---|
| 1. Control Number 18-003 | 2. Date/Time Reported: 11FEB2018/ 0500hrs | 3. Reported By/Phone Number: Massachusetts State Bomb Squad (978) 273-7333 SGT Bill Qualls | 4. Location Nantucket Island, MA |
| 5a. Situation Reported On the 11 th of February 2018 the Massachusetts State Bomb Squad requested EODMU12 DET NEWPORT for the verification and disposition of a suspected ordnance item found on the beach in Nantucket Island, MA. | | | 5b. Emergency Level: <input checked="" type="checkbox"/> Level 1 <input type="checkbox"/> Level 2 |
| 6. Response Personnel: <input type="checkbox"/> LT Coombs <input type="checkbox"/> EODCS Mitchell <input checked="" type="checkbox"/> EODC Dyer <input type="checkbox"/> EODC Szot <input checked="" type="checkbox"/> EOD1 St John <input type="checkbox"/> EOD1 Martin | | 6a. Date/Time Departed: 11FEB2018 / 0500hrs | 6b. Date/Time Completed: 11FEB2018 / 1700 |
| | | | 6c. Pick-up Man Hours (Per Person): 24 hours |
| 7. Disposal Personnel: <input type="checkbox"/> LT Coombs <input type="checkbox"/> EODCS Mitchell <input checked="" type="checkbox"/> EODC Dyer <input type="checkbox"/> EODC Szot <input checked="" type="checkbox"/> EOD1 St John <input type="checkbox"/> EOD1 Martin | | 7a. Demo Man Hours(per Person): .5 hours | 8. Total Man Hours: 25 hours |
| 9. EPA COORDINATION: I have contacted the applicable state environmental agency and have received a oral/written permit/approval to dispose of the items listed in section 5. (Filled out by <u>Owner of Range</u> , not required for level 1 emergency, recommended for level 2 emergency, time permitting.) | | | |
| (Printed Name) _____ (Title) _____ (Agency) _____ | | | |
| (Signature) _____ (Date) _____ | | | |
| 10. Disposition: <input type="checkbox"/> RSP'd <input checked="" type="checkbox"/> BIP <input type="checkbox"/> PUCA <input type="checkbox"/> Destroyed <input type="checkbox"/> Recovered for Intel | | | |
| Date Destroyed: 11 FEB 2018 | | Disposal Site: <u>Nantucket Island, MA</u> | |
| Destroyed By: EOD1 ST. JOHN | | Signature:  | |
| Witnessed By: EODC DYER | | Signature:  | |
| <input checked="" type="checkbox"/> Items transported to range for disposal. | | | |
| <input type="checkbox"/> Items transported to EOD Retrograde Magazine, awaiting range availability, authorized delay IAW MMR. | | | |
| 11. Name, Grade, Signature of OIC  Theodore Coombs LT, USN, OIC | | 12. Telephone # Comm: 401-832-3302 DSN: 920-3301 Cell: 401-862-6864 Fax: 401-832-6157 | 13. Date 11 FEB 2018 |

Event Summary:

On the 11th of February 2018 the Massachusetts State Bomb requested EODMU12 DET NEWPORT for the verification and disposition of a suspected ordnance item found on the beach in Nantucket Island, MA. Det Newport departed NAVSTA Newport at 0500 and met Massachusetts State Police at Nantucket Island at 0900. The item was identified as a 5inch Rocket Warhead and deemed not suitable for transport. Det Newport coordinated with Massachusetts State Bomb Squad to dispose of on site. No media interest. The detachment returned to base at 1700. NFTR.

Items destroyed:

1. ONE 5" Rocket Warhead





LETTER REPORT

TO: Carol Charette, USACE-CENAE, Todd Beckwith, USACE-CENAB

FROM: Thomas Bachovchin, ERT

DATE: May 07, 2020

SUBJECT: Letter Report, Sign Inspection and UXO Awareness Training, Nantucket Island

ERT, under contract with the U.S. Army Corps of Engineers (USACE), New England District, is implementing land use controls (LUCs) at the Former Nantucket Ordnance Site to address the Aerial Rocket Range Target #1 Munitions Response Site (MRS). This annual Long Term Monitoring report documents activities carried out on Nantucket Island in accordance with the LUC Implementation Plan (LUCIP) and Performance Work Statement for contract W912DR-15-D-0015-0003.

ERT staff arrived on Nantucket Island on June 24, 2019. The objectives of the visit were to:

- Conduct a public presentation to the Nantucket Conservation Foundation, first responders including local police and fire department personnel and other interested parties on Unexploded Ordnance (UXO) Awareness at the Nantucket Beach FUDS, project number D01MA045601.
- Perform evaluation of current site conditions and sign inspection and maintenance of six signs associated with the MRS.
- Review and document ordnance responses from the State Bomb Squad or Explosive Ordnance Detachment since the last inspection.

UXO Awareness Training

The presentation was conducted at the White Elephant Village Resort, Nantucket by Mr. Michael Watson, ERT MMRP Health and Safety Officer. The PowerPoint presentation, approved by USACE for the initial UXO Awareness presentation in June 2017, was presented by Mr. Watson to ten (10) attendees. None of the interested parties requested a copy of the DVD of the presentation.

The sign-in sheet is included in Attachment A.

Sign Inspection and Maintenance

After the presentation, Mr. Watson and David Cote, ERT, inspected the six signs, finishing at



approximately 4:30 pm. The weather conditions were sunny with a temperature of approximately 80 degrees F. Each sign, its location and general vicinity were evaluated in terms of site conditions.

In summary, as shown in Attachment B, 4 of the 6 signs were in excellent or good condition with no need for repair, replacement, or relocation. However, the top portion of one sign was missing (West Forked Pond Valley) and the location of another has been impacted by severe erosion (Tom Nevers Field). The top portion of the West Forked Pond Valley sign will be replaced. A more appropriate location for the Tom Nevers sign will be determined in the field and it will be re-located. Formal recommendations for each sign are included in the Attachment B forms.

Site Conditions

Current site conditions were evaluated as part of this report. As indicated in Attachment C and as discussed above, relative to the 2017 visit, site conditions indicate erosion has impacted the vicinity of the Tom Nevers Field sign. This erosion has affected the proper function of the LUCs in terms of that sign remaining in place. Nearby, in the vicinity of the Land Bank Commission Property sign, there is a potential future impact on LUC implementation, but it is not a significant concern at this time. No other severe erosion conditions were noted for the MRS.

Post Inspection Interviews

Part of the scope of the LUCIP is to conduct interviews with community members about the site conditions. ERT conducted these interviews via phone and they are presented in Attachment D.

EOD Activity

Local Police/Fire Departments as well as the MA State police Bomb Squad and Navy EOD, were contacted regarding incidents since the June 2018 inspection. However, after several attempts, no additional reports were obtained; these will be included as received. Attachment E contains information concerning a July 2018 munitions-related find, however, no formal EOD or State bomb squad reports were available for this incident.

This letter report is organized as follows:

Attachment A – UXO Awareness Training Sign-in Sheet

Attachment B – Site Figure, Sign Inspection Form, and Photo Documentation Log

Attachment C – Site Conditions Form

Attachment D – Interview Forms

Attachment E – Explosive Ordnance Detail (EOD) or MA State Bomb Squad Activity Form



Attachment A

UXO Awareness Training Sign-in Sheet

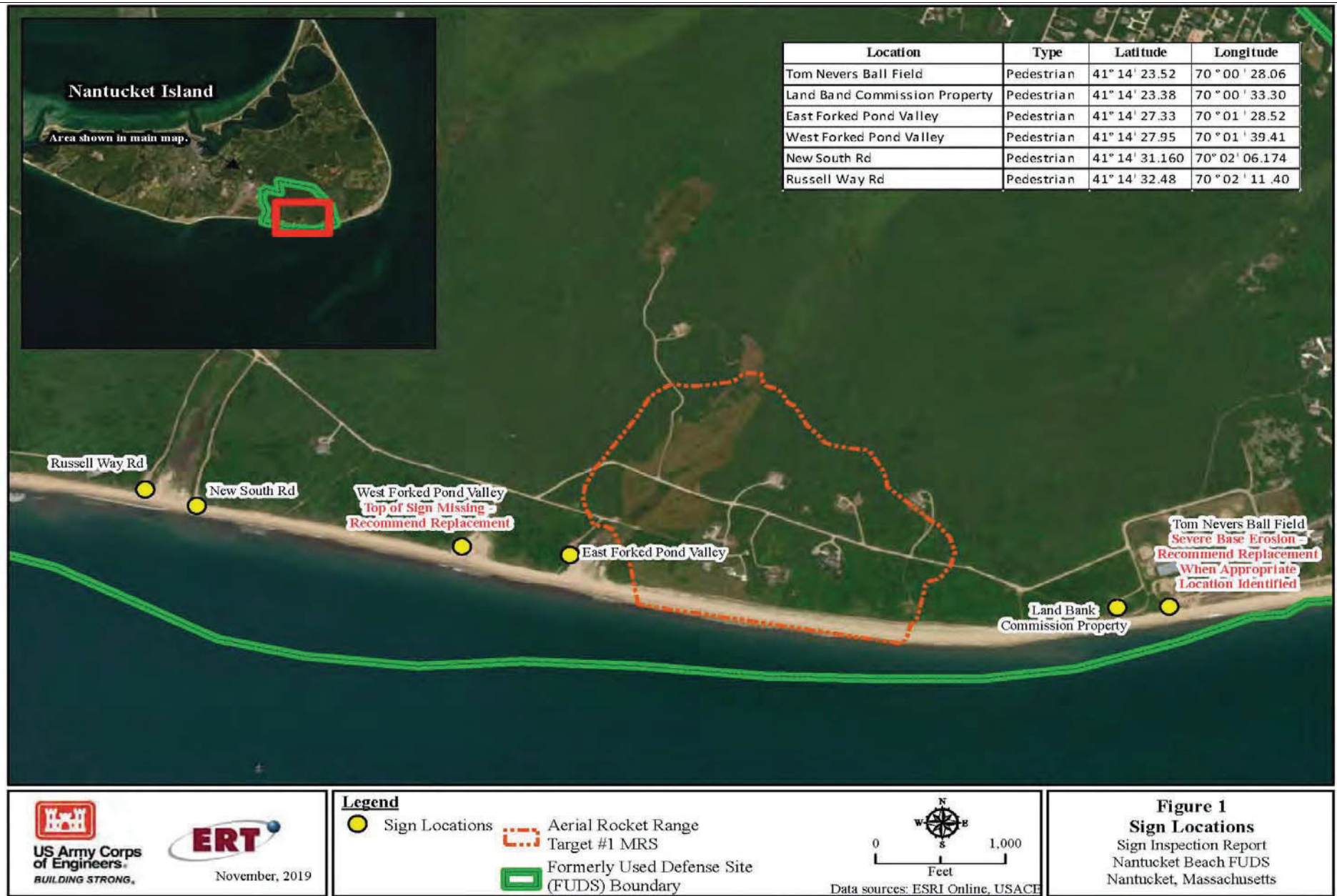


| <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> Unexploded Ordnance Awareness Training Nantucket Beach Formerly Used Defense Site (FUDS) White Elephant Village, Nantucket, Massachusetts June 25th, 2019, 9:00 AM </div> <div style="text-align: right;"> US Army Corps of Engineers BUILDING STRONG. </div> </div> | | | | | |
|--|------------------|-----------------------------|------------------------|----------------------------------|--|
| Contact information is requested so that USACE may provide notice of future presentations and to notify you of updates on the site. | | | | | |
| | Name | Title/Organization | Phone | Email | Address |
| 1 | JEFFREY POLLOCK | PROPERTY FOREMAN NLB | 508 951 8676 | JPollock@NANTUCKETLANDBANK.ORG | 22 BROAD ST NANTUCKET MA 02584 |
| 2 | Chris Illen | Director of Land Management | 508 560-9656 | cillen@nantucketconservation.org | 7 Pine Crest Dr. Nantucket MA 02554 |
| 3 | DAVE VISCO | Equipment Supervisor | 508 360 1053 | davevisco1958@gmail.com | 4 Rachel Dr Nantucket MA 02554 |
| 4 | * Rob McNeil | DPW | 508-228 7244 | rmcneil@nantucket-ma.gov | 188 Madaket Rd. |
| 5 | Chris Roseo | DPW | 508-228-7244 | Croses@nantucket-ma.gov | 188 Madaket Rd. |
| 6 | GRAEME DUKOVICH | DPW | 508-228-7200 ext. 7520 | gdukovich@nantucket-ma.gov | 188 Madaket Rd. |
| 7 | Tashaia Gary | DPW | 508 228 7244 | Tgary@nantucket-ma.gov | 188 Madaket Road |
| 8 | Vanessa Williams | DPW | 508-228-7244 | VWilliams@nantucket-ma.gov | 188 Madaket Road |
| 9 | Taylor Donovan | Land Bank | 908-839 0431 | sid49101@monmouth.edu | 125 Somerset Rd. |
| 10 | William D. Jones | DPW | 508-228-7364 | wdjones@nantucket-ma.gov | 9 Alexander |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |



Attachment B

Site Figure, Sign Inspection Form, and Photo Documentation Log





| I. Site Information | | | | |
|---|---|---|--|---|
| Site Name: Nantucket Beach FUDS – Project no. D01MA045601 | | Date(s) of Inspection: June 24, 2019 | | |
| Location and Region: Nantucket, MA | | | | |
| II. Sign Inspection | | | | |
| Sign Location | Condition (poor, fair, good, excellent) | Maintenance Required (cleaning, repair, replacement) | Maintenance Performed (type and date) | Notes: (include photograph documentation before and after maintenance) |
| Tom Nevers Ball Field | Poor | Cleaning, wiped down with Windex | Cleaning, June 24, 2019 | While sign and footer in good condition, severe erosion places sign about 3 feet from edge of bluff. Erosion created an undercut of approx. 12ft. Concrete footer exposed at beach level. RECOMMEND: re-locate when appropriate location identified (Photos #2, #3, #4) |
| Land Bank Commission Property | Excellent | Cleaning, wiped down with Windex | Cleaning, June 24, 2019 | Sign location is before beach entrance trail, south of parking area. Pedestal in excellent condition, no erosion issues. RECOMMEND: no action |
| East Forked Pond Valley | Excellent | Cleaning, wiped down with Windex | Cleaning, June 24, 2019 | Sign location is before beach entrance trail. Pedestal in excellent condition, no erosion issues. RECOMMEND: no action |
| West Forked Pond Valley | Sign Missing | N/A | N/A | Sign is missing, but pedestal still in good condition. Located on the west side of beach entrance trail, south of parking area. No erosion issues. RECOMMEND: replace sign on existing pedestal (Photos #13, #14) |
| New South Road | Good | Cleaning, wiped down with Windex | Cleaning, June 24, 2019 | Sign is before beach entrance trail facing parking area. Sign and pedestal in good condition, no erosion issues. RECOMMEND: no action |
| Russell Way Road | Good | Cleaning, wiped down with Windex | Cleaning, June 24, 2019 | Sign location is at top of sand dune, prior to beach entrance. Minor erosion at base, exposing 2-3 inches of concrete footer. Sign and pedestal in good condition. RECOMMEND: no action |

Tom Nevers Ball Field Sign
Inspection June 24, 2019



1. Sign facing southwest.



2. Severe erosion.



3. Erosion view from beach.



4. Erosion overview.

Land Bank Commission Property Sign
Inspection June 24, 2019



5. Sign facing north.



6. Close up (excellent condition).



7. Sign approach.



8. Sign and pathway to beach.

East Forked Pond Valley Sign Inspection June 24, 2019



9. Sign facing southwest.



10. Approach to sign.



11. View from beach.



12. Pedestal in excellent condition.

West Forked Pond Valley Sign
Inspection June 24, 2019



13. Sign facing missing.



14. Side view.



15. Pedestal in good condition.

New South Road Sign Inspection June 24, 2019



16. Sign facing southwest.



17. Approach to sign from parking lot.



18. Side view.



19. Beach view, facing east.

Russell Way Road Sign
Inspection June 24, 2019



20. Sign facing east. Note bluff in background; slight bluff erosion relative to June 2018.



21. Slight erosion around pedestal.



22. Side view.



23. Pedestal closeup.



Attachment C
Site Conditions Form



| I. Site Information | | |
|---|--|--|
| Site Name: Nantucket Beach FUDS | | Date(s) of Inspection: June 24, 2019 |
| Location and Region: Nantucket, MA | | |
| II. Site Conditions | | |
| Location (vicinity of sign) | Site Conditions of Note (e.g., significant erosion since last site inspection, observations of munitions, or other observations that impact LUC implementation) | Notes: (include photograph documentation) |
| Russell Way Road | Bluff is showing minor signs of erosion, but not significantly different from June 2018. | No findings that impact LUC implementation. |
| New South Road | Beach showing minor signs of erosion, but not significantly different from June 2018. | No findings that impact LUC implementation. |
| West Forked Pond Valley | No significant observations. | No findings that impact LUC implementation. |
| East Forked Pond Valley | No significant observations. | No findings that impact LUC implementation. |
| Land Bank Commission Property | Minimal erosion to the west. Potential for future erosion of sign area. | Potential future impact on LUC implementation if sign is affected, but not a concern at this time. |
| Tom Nevers Ball Field | Severe erosion undercutting sign. Beach cliff looks to be eroding significantly, exposing miscellaneous old building materials and rubbish. | Impact on LUC implementation in that erosion will soon cause loss of sign. |



Attachment D
Interview Forms



| I. Site Information | | |
|---|--------------------------|--|
| Site Name: Nantucket Beach FUDS | | Date(s) of Inspection: |
| Location and Region: Nantucket, MA | | |
| II. Interview Activity | | |
| Individual Interviewed | Date of Interview | Brief Description of Discussion (include reports of onsite intrusive activities, EOD response action, etc.) |
| Andrew Wing, Homeowner | 7/29/19 | Phone interview, see questionnaire |
| Rob McNeil, Director, Department of Public Works | 7/29/19 | Phone interview, see questionnaire |
| Chris Iller, Director of Land Management, Nantucket Conservation Foundation | 7/29/19 | Phone interview, see questionnaire |
| Attempts to reach other interested parties were unsuccessful. | | |
| | | |



Community Interview Questionnaire Sheets (7-29-19 interview by ERT)

Name: Andrew Wing (Private Resident)

Address: 10 New South Rd., Nantucket, MA 02554

Telephone (H): 508-633-5179 **Work (W):** _____

1. A FUDS Long Term Management (LTM) is being conducted at the Former Nantucket Ordnance Site in Nantucket, MA. Have you heard about this project? If so, do you remember when and how you learned of it?

Mr. Wing indicated that he was aware of the “fairly extensive project.” He has lived on the island for 30 years and has seen people working on the beach as well as news articles about helicopter scans and other things.

2. Have you talked with any Army Corps of Engineers, state, or environmental officials about the ongoing FUDS LTM at the Nantucket Ordnance Site?

Yes, but Mr. Wing did not provide a specific name.

3. If you have, were they responsive to your concerns or questions?

Yes, they were responsive. In the past, Mr. Wing had spoken to individuals performing clean-up activities on site. They provided plenty of documentation to answer his questions.

4. Do you know how the community receives information about local events and news (*i.e.*, radio, television, online news sources or newspapers)?

Mr. Wing noted local radio, social media, and local newspapers as sources.

5. Is there anything else you would like to mention that we have not talked about? If in answering this question you provide “historical” information, please identify the source of this information.

Mr. Wing mentioned that his neighbors have previously found ordnance while digging on their property, but that they have always called the police and had it removed properly.



Community Interview Questionnaire Sheets (7-29-19 interview by ERT)

Name: Rob McNeil, Director, Department of Public Works

Address: 188 Madeket Rd., Nantucket, MA 02554

Telephone (H): 508-228-7254 **Work (W):** _____

1. A FUDS Long Term Management (LTM) is being conducted at the Former Nantucket Ordnance Site in Nantucket, MA. Have you heard about this project? If so, do you remember when and how you learned of it?

Mr. McNeil explained that he first learned of the FUDS-LTM when interviewing for his position at the Department of Public Works (DPW).

2. Have you talked with any Army Corps of Engineers, state, or environmental officials about the ongoing FUDS LTM at the Nantucket Ordnance Site?

Yes.

3. If you have, were they responsive to your concerns or questions?

Yes. Mr. McNeil has spoken with representatives from the Navy EOD who were responsive. He also mentioned that other members of the DPW staff had spoken with USACE representatives.

4. Do you know how the community receives information about local events and news (*i.e.*, radio, television, online news sources or newspapers)?

Mr. McNeil stated that this was “typically, through the town manager’s office.”

5. Is there anything else you would like to mention that we have not talked about? If in answering this question you provide “historical” information, please identify the source of this information.

No.



Community Interview Questionnaire Sheets (7-29-19 interview by ERT)

Name: Chris Iller, Director of Land Management, Nantucket Conservation Foundation

Address: 7 Pine Crest Dr. Nantucket, MA 02554

Telephone (H): 508-560-9656 **Work (W):** _____

1. A FUDS Long Term Management (LTM) is being conducted at the Former Nantucket Ordnance Site in Nantucket, MA. Have you heard about this project? If so, do you remember when and how you learned of it?

Mr. Iller stated that he had known about the project for a long time. His grandfather was a WWII veteran and had informed him of the FUDS as a child.

2. Have you talked with any Army Corps of Engineers, state, or environmental officials about the ongoing FUDS LTM at the Nantucket Ordnance Site?

Yes, Mr. Iller indicated that he had attended the most recent UXO awareness presentation presented by ERT on June 24, 2019.

3. If you have, were they responsive to your concerns or questions?

Yes, Mr. Iller stated that the presentation was informative and eased any concerns he may have had.

4. Do you know how the community receives information about local events and news (*i.e.*, radio, television, online news sources or newspapers)?

Mr. Iller stated that the 'new' radio station was informative, and mentioned that Facebook and the local paper were also effective.

5. Is there anything else you would like to mention that we have not talked about? If in answering this question you provide "historical" information, please identify the source of this information.

Mr. Iller stated that "No, I feel good after hearing the UXO Awareness presentation."



Attachment E

Explosive Ordnance Detail (EOD) or MA State Bomb Squad Activity Forms

NOTE:

The photo below was described as an “unexploded military shell”, determined to be a 2.25-inch scar rocket. It was found on July 30, 2018, since the previous site visit, and was properly disposed by EOD personnel (the requested EOD report will be submitted once available). The location was reportedly on New South Road, roughly halfway between the intersection of Rugged and New South roads and the Tom Nevers ballfields.

It is included here for tracking purposes only.

