C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table A

MRS Background Information

DIRECTIONS: Record the background information below for the MRS to be evaluated. Much of this information is available from Service and DoD databases. If the MRS is located on a FUDS property, the suitable FUDS property information should be substituted. In the MRS Summary, briefly describe the UXO, DMM, or MC that are known or suspected to be present, the exposure setting (the MRS's physical environment), any other incidental nonmunitions-related contaminants (e.g. benzene, trichlorethylene) found at the MRS, and any potentially exposed human and ecological receptors. If possible, include a map of the MRS.

Munitions Response Site Name: Northern Portion Proving Ground

Component: USACE FUDS/USACE FUDS/NAD/New England District (NAE)

Installation/Property Name: NJ29799F692400 Fort Hancock

Location (City, County, State): HIGHLANDS, MONMOUTH, NJ

Site Name/Project Name (Project No.): Northern Portion Proving Ground (03)

Date Information Entered/Updated: 3/18/2024

Point of Contact (Name/Phone): Public Affairs, 978-318-8238

Project Phase (check only one):

ПРА	□si	RI	RI/FS	V RD	
RA-C		🔲 RA-O	RC		

Media Evaluated (check all that apply):

Groundwater	Sediment (human receptor)
Surface soil	Surface Water (ecological receptor)
Sediment (ecological receptor)	Surface Water (human receptor)

MRS Summary:

MRS Summary:	
MRS Description: Describe the munitions-related activities that occurred at the installation, the dates of operation, and the UXO, DMM, or MC known or suspected to be present.When possible, identify munitions, CWM, and MC by type:	The Northern Portion Proving Ground was used from 1874 to 1918 for testing weapons and ordnance; this was the Army's first proving ground and all experimental guns and carriages were tested here. MRS 03 is 30.2 acres and encompasses MRS Area 1A (portion of original MRS 1) and a portion of Potential Area of Interest (PAOI) 9-Gun Battery, defined in the 2014 Final Remedial Investigation (RI) Report. MRS Area 1A is 29 acres and covers the "new" firing battery and the B003 grid area identified in the 1998 EE/CA (Figure A-5-6, RI Report). Three MEC items (projectiles) were found during the RI, including a 3.5" armor piercing high explosive (AP HE) with base fuze, 1-Ib 1.44-in Mk 1, and a 75 mm with a fuze (Section 5.1.1, RI Report). An INPR amendment completed in 2014 realigned acres and MRS 03 was defined as 30.2 acres that comprised the 2014 RI evaluated MRS 1A and 9 Gun Battery.
	The ROD Documented unacceptable risk due to MEC and a proposed remedy of removal and LTM (Sections 2.7.2 and 2.11.1)
	Surface soil samples were collected in the B003 area of the MRS during the 2007 Site Inspection and the 2014 RI Addendum. No explosive compounds were detected in any of the samples, but the following metals were detected above background concentrations: antimony, arsenic, copper, lead, selenium, and thallium (Table 7-5, SI Report, RI Addendum #1 Section 5.3.4) and App B-1, RI Addendum #1 Report). No surface water or sediment samples were collected in the MRS, per the approved RI Work Plan. Five groundwater samples collected during the RI were used to represent conditions across all MRSs. No explosives were detected in any of the samples, and no metals were detected above background concentrations (Sections 4.2.3 and 5.3.3, RI Report). Baseline risk assessments conducted in the RI and RI Addendum concluded that metals in surface soil do not pose a threat to human receptors (Sections 6.2.3.6, 6.2.5, RI Report; Section 5.3.4, RI Addendum #1 Report). This is also documented in the Record of Decision (Sections 2.5.3 and 2.7.1). Therefore, the HHE module is assigned the alternative rating of No Known or Suspected Hazard.
	Both physical and historical evidence indicates that CWM was not present at this MRS (Sec 1.2.1 and 1.4.2, RI Report). Therefore, the CHE module has been assigned the alternative rating of No Known or Suspected CWM Hazard. Stakeholder coordination of the MRSPP evaluation occurred through the technical project planning process for the RI.
	The MRSPP worksheets were also provided in the RI Report and Addendums, which the stakeholders reviewed. Documentation of stakeholder coordination can be found in FUDSDocs at C02NJ000403_01.22_0500, C02NJ000403_03.01_0640_a. and C02NJ000403_03.01_0531_a
	Throughout the MRSPP, the reference to "Record of Decision" refers to the "FINAL RECORD OF DECISION Fort Hancock Formerly Used Defense Site Monmouth County, New Jersey FUDS Project Numbers: C02NJ000403, C02NJ000405, C02NJ000406, C02NJ000407, C02NJ000408, C02NJ000410, C02NJ000411, C02NJ000412, and C02NJ000413, September 2023, found on FUDSDocs at C02NJ000403_05.09_0001_a.
	Throughout the MRSPP, the reference to "RI Report" refers to the "Final MMRP Remedial Investigation Report, Remedial Investigation/Feasibility Study, Fort Hancock Formerly Used Defense Site, Monmouth County, New Jersey," dated January 2014, found on FUDSDocs at C02NJ000403_03.10_0500 and _0501.
	The reference for the SI Report is "Final Site Inspection Report for Fort Hancock," dated August 2007, found on FUDSDocs at C02NJ000403_01.09_1003. The reference to "RI Addendum #1 Report" refers to the "MMRP Remedial Investigation Addendum #1 Report, Remedial Investigation/Feasibility Study, Fort Hancock Formerly Used Defense Site, Monmouth County, New Jersey," available on FUDSDocs under document sequence C02NJ000403_03.10_0502.
	The 2014 INPR amendment can be found on FUDSDocs at C02NJ000403_01.08_1019a.
Description of Pathways for Human and Ecological Receptors:	For unacceptable explosive hazards, the MEC pathway is considered to be complete because there is a source, potential receptors, and the potential for interaction between them. Exposure pathways identified for human receptors include direct contact with surface MEC by handling and treading underfoot, and direct contact with subsurface MEC through intrusive activities (e.g., utility, construction, or maintenance workers, or recreational park user activities such as treasure hunting or digging for clams). At the Fort Hancock FUDS, there is a potential for wave action and storm surges during high winds, hurricanes, and

	strong storms to alter the terrain of the MRSs. (ROD Section 2.5.2)
Description of Receptors (Human and Ecological):	As described in the BLRA in the RI Report, based on the current land use, the following human receptors were identified: (1) Outdoor maintenance worker (represents a National Park Service [NPS] ranger who spends the majority of his/her time patrolling the area on foot); (2) Adult and child recreational user (represent members of the public who partake in recreational activities at Fort Hancock); and (3) NPS Archaeologist. (see Sections 6.2.1.2 and 6.3.1 RI Report and ROD Section 2.5.2)

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 1 EHE Module: Munitions Type Data Element Table

Directions: Below are 11 classifications of munitions and their descriptions. Check the scores that correspond with all the munitions types known or suspected to be present at the MRS. Notes: The terms practice munitions, small arms ammunition, physical evidence, and historical evidence are defined in Appendix C of the Primer.

Classification	evidence are defined in Appendix C of the Primer.	Scoro
Classification	Description	Score
Sensitive	*UXO that are considered most likely to function upon any interaction with exposed persons (e.g. submunitions, 40mm high-explosive [HE] grenades, white phosphorus [WP] munitions, high-explosive antitank [HEAT] munitions, and practice munitions with sensitive fuzes, but excluding all other practice munitions). *Hand grenades containing energetic filler. *Bulk primary explosives, or mixtrues of these with environmental media, such that the mixture poses an explosive hazard.	V 30
High explosive (used or damaged)	*UXO containing a high-explosive filler (e.g., RDX, Composition B), that are not considered "sensitive." *DMM containing a high- explosive filler that have: *Been damaged by burning or detonation *Deteriorated to the point of instability	25
Pyrotechnic (used or damaged)	*UXO containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades). *DMM containing a pyrotechnic filler other than white phosphorus (e.g., flares, signals, simulators, smoke grenades) that have: *Been damaged by burning or detonation *Deteriorated to the point of instability	20
High explosive (unused)	*DMM containing a high-explosirve filler that: *Have not been damaged by burning or detonation *Deteriorated to the point of instability	15
Propellant	*UXO containing mostly singe-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). *DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor) that are: *Damaged by burning or detonation *Deteriorated to the point of instability	15
Bulk secondary high explosives, pyrotechnics, or propellent	*DMM containing mostly single-, double-, or triple-based propellant, or composite propellants (e.g., a rocket motor). *DMM that are bulk secondary high explosives, pyrotechnic compositions, or propellant (not contained in a munition), or mixtures of these with environmental media such that the mixture poses an explosive hazard.	10
Pyrotechnic (not used or damaged)	*DMM containing a pyrotechnic filler (i.e., red phosphorus), other than white phosphorus filler, that: *Have not been damaged by burning or detonation *Are not deteriorated to the point of instability.	10
Practice	*UXO that are practce munitions that are not associated with a sensitive fuze. *DMM that are practice munitions that are not associated with a sensitive fuze and that have not: *Been damaged by burning or detonation *Deteriorated to the point of instability	5
Riot control	*UXO or DMM containing a riot control agent filler (e.g., tear gas).	3
Small arms	*Used munitions or DMM that are categorized as small arms ammunition. (Physical evidence or historical evidence that no other types of munitions [e.g., grenades, subcaliber training rockets, demolition charges] were used or are present on the MRS is required for selection of this category.)	2
Evidence of no munitions	*Following investigation of the MRS, there is a physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	0
Munitions Type	DIRECTIONS: Record the single highest score from above in the box to the right(maximum score = 30).	30

provided.) MEC items found in MRS 03 during the RI included the following projectiles: 3.5 inch APHE with base fuze, 1 lb Mk1, and 75 mm with fuze. Sensitive selected due to 3.5 inch rocket. (Section 5.1.1 and Appendix C-2, RI Report; photos of MEC items in Appendix C-4).

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 2 EHE Module: Source of Hazard Data Element Table

Directions: Below are 11 classifications describing sources of explosive hazards. Check the scores that correspond with all the sources of explosive hazards known or suspected to be present at the MRS.

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

	nisteried evidence are defined in Appendix e of the Finner.	
Classification	Description	Score
Former range	*The MRS is former military range where munitions (including practice munitions with sensitive fuzes) have been used. Such areas include impact or target areas and associated buffer and safety zones.	1 0
Former munitions treatment (i.e., OB/OD) unit	*The MRS is a location where UXO or DMM (e.g., munitions, bulk explosives, bulk pyrotechnic, or bulk propellants) were burned or detonated for the purpose of treatment prior to disposal.	8
Former practice munitions range	*The MRS is a former military range on which only practice munitions without sensitive fuzes were used.	G
Former maneuver area	*The MRS is a former maneuver area where no munitions other than flares, simulators, smokes and blanks were used. There must be evidence that no other munitions were used at the location to place an MRS into this category.	5
Former burial pit or other disposal area	*The MRS is a location where DMM were buried or disposed of (e.g., disposed of into a water body) without prior thermal treatment.	5
Former industrial operating facilities	*The MRS is a location that is a former munitions maintenance, manufacturing, or demilitarization facility.	4
Former firing points	*The MRS is a firing point, where the firing point is delineated as an MRS separate from the rest of a former military range.	4
Former missile or air defense artillery emplacements	*The MRS is a former missile defense or air defense artillery (ADA) emplacement not associated with a military range.	2
Former storage or transfer points	*The MRS is a location where munitions were stored or handled for transfer between different modes of transportation (e.g., rail to truck, truck to weapon system).	2
Former small arms range	*The MRS is a former military range where only small arms ammunition was used. (There must be evidence that no other types of munitions [e.g. grenades] were used or are present to place an MRS into this category.)	1
Evidence of no munitions	*Following investigation of the MRS, there is physical evidence that no UXO or DMM are present, or there is historical evidence indicating that no UXO or DMM are present.	Пo
Source of Hazard	DIRECTIONS: Record the single highest score from above in the box to the right(maximum score = 10).	10

DIRECTIONS: Document any MRS - specific data used in selecting the Source of Hazard classifications in the space provided.) MRS 03 was part of the United States Army's first official proving ground for testing weapons and ordnance. Firing points and targets are as identified in the Ordnance History-Fort Hancock (1874-1919) (Sections 1.2.2 and 1.3, RI Report).

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 3 EHE Module: Location of Munitions Data Element Table

Directions: Below are eight classifications of munitions locations and their descriptions. Check the scores that correspond with all the locations where munitions are known or suspected to be present at the MRS.

Notes: The terms confirmed, surface, subsurface, small arms ammunition, physical evidence, and historical evidence are defined in Appendix C of the Primer.

Classification	Description	Score
Confirmed surface	*Physical evidence indicates that there are UXO or DMM on the surface of the MRS. *Historical evidence (i.e., a confirmed report such as an explosive ordanance disposal [EOD], police, or fire department report that an incident or accident that involved UXO or DMM occurred) indicates there are UXO or DMM on the surface of the MRS.	25
Confirmed subsurface, active	*Physical evidence indicates the presence of UXO or DMM n the subsurface of the MRS, and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future by naturally occurring phenomena (e.g., drought, flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, constructions, dredging) atthe MRS are likely to expose UXO or DMM. *Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are likely to cause UXO or DMM to be exposed, in the future, by naturally occurring phenomena (e.g., drought flooding, erosion, frost heave, tidal action), or intrusive activities (e.g., plowing, construction, dredging) at the MRS are likely to expose UXO or DMM.	2 0
Confirmed subsurface, stable	*Physical evidence indicates the presence of UXO or DMM in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, in the future, by naturally occurrin phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed. *Historical evidence indicates that UXO or DMM are located in the subsurface of the MRS and the geological conditions at the MRS are not likely to cause UXO or DMM to be exposed, the the future, by naturally occurring phenomena, or intrusive activities at the MRS are not likely to cause UXO or DMM to be exposed.	15
Suspected (physical evidence)	*There is physical evidence (e.g., munitions debris such as fragments, penetrators, projectiles, shell casings, links, fins), other than the documented presence of UXO or DMM, indicating that UXO or DMM may be present at the MRS.	10
Suspected (historical evidence)	*There is historical evidence indicating that UXO or DMM may be present at the MRS.	5
Subsurface, ohysical constraint	*There is physical or historical evidence indicating that UXO or DMM may be present in the subsurface, but there is a physical constraint (e.g., pavement, water depth over 120 feet) preventing direct access to the UXO or DMM.	2
Small arms (regardless of ocation)	*The presence of small arms ammunition is confirmed or suspected, regardless of other factors such as geological stability. (There must be evidence that no other types of munitions [e.g., grenades] were used or are present at the MRS to place an MRS into this category.)	1
Evidence of no munitions	*Following investigation of the MRS, there is physical evidence that there are no UXO or DMM present, or there is historical evidence indicating that no UXO or DMM are present.	۵
Location of Munitions	DIRECTIONS: Record the single highest score from above in the box to the right(maximum score = 25).	20

space provided.) MD and MEC, including Mk1 (1 lb), and 3.5-inch and a 75mm projectile, were found in the subsurface in MRS 03 during the RI (Section 5.1.1 and Appendix C-2, RI Report). The MRS is located on an active recurved sand spit that changes size and shape from dune and wave action, gaining sand in some areas and losing in others (Section 2.1.4, RI Report).

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 4 EHE Module: Ease of Access Data Element Table

Directions: Below are four classifications of barrier types that can surround an MRS and their descriptions. The barrier type is directly related to the ease of public access to the MRS. Check the score that corresponds with the ease of access to the MRS

 Notes: The term barrier is defined in Appendix C of the Primer.

 Classification
 Description
 Score

 barrier
 *There is no barrier preventing access to any part of the MRS (i.e., Image)
 Image)

No barrier	*There is no barrier preventing access to any part of the MRS (i.e., all parts of the MRS are accessible.	V 10
Barrier to MRS access is incomplete	*There is a barrier preventing access to parts of the MRS, but not the entire MRS.	8
Barrier to MRS access is complete but not monitored	*There is a barrier preventing access to all parts of the MRS, but there is no surveillance (e.g., by a guard) to ensure that the barrier is effectively preventing access to all parts of the MRS.	5
Barrier to MRS access is complete and monitored	*There is a barrier preventing access to all parts of the MRS, and there is active, continual surveillance (e.g., by a guard, video monitoring) to ensure that the barrier is effectively preventing access to all parts of the MRS.	Do
Ease of Access	DIRECTIONS: Record the single highest score from above in the box to the right(maximum score = 10).	10

DIRECTIONS: Document any MRS - specific data used in selecting the Ease of Access classifications in the space provided.) The MRS is open to the public, upon entry into the Sandy Hook Unit of Gateway National Recreation Area (a national park). (Sections 1.2, 2.1.1, and 2.1.7, RI Report).

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 5 EHE Module: Status of Property Data Element Table

Directions: Below are three classifications of the status of a property within the Department of Defense (DoD) and their descriptions. Check the score that corresponds with the status of property at the MRS.

Notes:		
Classification	Description	Score
Non-DoD control	*The MRS is at a location that is no longer owned by, leased to, or otherwise possessed or used by DoD. Examples are privately owned land or water bodies; land or water bodies owned or controlled by state, tribal, or local governments; and land or water bodies managed by other federal agencies. *The MRS is at a location that is owned by DoD, but that DoD has leased to another entity and for which DoD does not control access 24 hours per day.	⊠ 5
Scheduled for transfer from DoD control	*The MRS is on land or is a water body that is owned, leased, or otherwise posessed by DoD, and DoD plans to transfer that land or water body to the control of another entity (e.g., a state, tribal, or local government; a private party; another federal agency) within 3 years from the date the Protocol is applied.	3
DoD control	*The MRS is on land or is a water body that is owned, leased, or otherwise possessed by DoD. With respect to property that is leased or otherwise possessed, DoD must control access to the MRS 2 hours per day, every day of the calendar year.	Do
Status of Property	DIRECTIONS: Record the single highest score from above in the box to the right(maximum score = 5).	5

DIRECTIONS: Document any MRS - specific data used in selecting the Status of Property classifications in the space provided.) The MRS is located on the Sandy Hook Peninsula of New Jersey. This peninsula, which encompasses approximately 1,700 acres, is known as the Sandy Hook Unit of the Gateway National Recreation Area and is a National Historic Landmark. The location of the MRS is currently managed by the Department of the Interior (NPS) and is used for a variety of recreational purposes year-round (Section 1.2, RI Report).

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 6 EHE Module: Population Density Data Element Table

Directions: Below are three classifications for population density and their descriptions. Deterimine the population density per square mile that most closely corresponds with the population of the MRS, including the area within a two-mile radius of the MRS's perimeter. Check the most appropriate score.

Notes: Use the U.S. Census Bureau tract data available to capture the highest population density within a two-mile radius of the perimeter of the MRS.

Classification	Description	Score
> 500 persons per square mile	*There are more than 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	5
100-500 persons per square mile	*There are 100 to 500 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	3
< 100 persons per square mile	*There are fewer than 100 persons per square mile in the U.S. Census Bureau tract in which the MRS is located.	1
Population Density	DIRECTIONS: Record the single highest score from above in the box to the right(maximum score = 5).	5

DIRECTIONS: Document any MRS - specific data used in selecting the Population Density classifications in the space provided.) The 2020 population density of Monmouth County, NJ is 1,344.7 persons per square mile (http://quickfacts.census.gov/qfd/states/34/34025.html)

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 7 EHE Module: Population Near Hazard Data Element Table

Directions: Below are six classifications describing the number of inhabited structures near the MRS. The number of inhabited buildings relates to the potential population near the MRS. Determine the number of inhabited structures within two miles of the MRS boundary and check the score that corresponds with the number of inhabited structures.

Notes: The term inhabited structures is defined in Appendix C of the Primer.

Classification	Description	Score
26 or more inhabited structures	*There are 26 or more inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	☑5
16 to 25 inhabited structures	*There are 16 to 25 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	4
11 to 15 inhabited structures	*There are 11 to 15 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	3
6 to 10 inhabited structures	*There are 6 to 10 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	2
1 to 5 inhabited structures	*There are 1 to 5 inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	1
0 inhabited structures	*There are no inhabited structures located up to 2 miles from the boundary of the MRS, within the boundary of the MRS, or both.	Пo
Population Near Hazard	DIRECTIONS: Record the single highest score from above in the box to the right(maximum score = 5).	5

DIRECTIONS: Document any MRS - specific data used in selecting the Population Near Hazard classifications in the space provided.) Inhabited structures include NPS and USCG buildings, residences, a school and daycare facility, and beach houses for use by recreational visitors (Section 2.1.7, RI Report; Google Earth used to calculate total number of inhabited structures within two-mile radius).

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 8 EHE Module: Types of Activities/Structures Data Element Table

Directions: Below are five classifications of activities and/or inhabited structures and their descriptions. Review the types of activities that occur and/or structures that are present within two miles of the MRS and check the scores that correspond with all the activities/structure classifications at the MRS.

Notes: The term inhabited structure is defined in Appendix C of the Primer.			
Classification	Description	Score	
Residential, educational, commercial, or subsistence	*Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with any of the following purposes: residential, educational, child care, critical assets (e.g., hospitals, fire and rescue, police stations, dams), hotels, commercial, shopping centers, playgrounds, community gathering areas, religious sites, or sites used for subsistence hunting, fishing, and gathering.	⊠ 5	
Parks and recreational areas	*Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with parks, nature preserves, or other recreational uses.	☑4	
Agricultural, forestry	*Activities are conducted, or inhabited structures are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with agriculture or forestry.	3	
Industrial or warehousing	*Activities are conducted, or inhabited strucutres are located up to two miles from the MRS's boundary or within the MRS's boundary, that are associated with industrial activities or warehousing.	2	
No known or recurring activities	*There are no known or recurring activities occuring up to two miles from the MRS's boundary or within the MRS's boundary.	1	
Types of Activities/Structu res	DIRECTIONS: Record the single highest score from above in the box to the right(maximum score = 5).	5	

DIRECTIONS: Document any MRS - specific data used in selecting the Types of Activities/Structures classifications in the space provided.) Types of activities/structures within 2 miles include National Park Service (NPS) and U.S. Coast Guard (USCG) buildings, residences, a school and daycare facility, and beach houses for use by recreational visitors. An active USCG Station is positioned on the northwest corner of the peninsula (approximately 68 acres) (Section 2.1.7, RI Report).

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 9 EHE Module: Ecological and/or Cultural Resources Data Element Table

Directional Balaw are four classifications of coolegical and/or cultural resources and their

Directions: Below are four classifications of ecological and/or cultural resources and their descriptions. Review the types of resources present and check the score that corresponds with the ecological and/or cultural resources present on the MRS.

Notes: The terms ecological resources and cultural resources are defined in Appendix C of the Primer.

Classification	Description	Score
Ecological and cultural resources present	*There are both ecological and cultural resources present on the MRS.	☑5
Ecological resources present	*There are ecological resources present on the MRS.	3
Cultural resources present	*There are cultural resources present on the MRS.	3
No ecological or cultural resources present	*There are no ecological resources or cultural resources present on the MRS.	Пo
Ecological and/or Cultural Resources	DIRECTIONS: Record the single highest score from above in the box to the right(maximum score = 5).	5

DIRECTIONS: Document any MRS - specific data used in selecting the Ecological and/or Cultural Resources classifications in the space provided.) This MRS exhibits a diverse fauna that depend on a wide variety of habitats including forest, wetland, dune shrubland, dune grassland, and beach as well as intertidal marine habitats. Beach and dune flora is predominantly characterized by grasses, forbs and stunted shrubs. Based on previous archaeological investigations, Fort Hancock may include archaeological artifacts, features and locations that are associated with the former military use of Fort Hancock. The Fort Hancock and Sandy Hook Proving Ground Historic District, which includes all of the Fort's structures, and the Sandy Hook Lighthouse are National Historic Landmarks (Sections 1.2 and 2.1.8, RI Report).

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 10 EHE

Directions: 1. From Tables 1-9,		Source	Score	Value
record the data element scores in the Score boxes to the right. 2. Add the Score boxes for each of the three factors and record this number in the Value boxes to the	Explosive Hazard Factor Data Elements			
	Munitions Type	Table 1	30	10
	Source of Hazard	Table 2	10	40
right. 3. Add the three Value boxes and record this number in	Accessibility Factor Data E	Accessibility Factor Data Elements		
the EHE Module Total below. 4.	Location of Munitions	Table 3	20	
Check the appropriate range for the EHE Module Total below. 5.	Ease of Access	Table 4	10	35
Circle the EHE Module Rating that	Status of Property	Table 5	5	
corresponds to the range selected and record this value in the EHE	Receptor Factor Data Elemo			
Module Rating box found at the bottom of the table.	Population Density	Table 6	5	
	Population Near Hazard	Table 7	5	
Notes: An alternative module rating may be assigned when a module letter rating is	Types of Activities/Structures	Table 8	5	20
inappropriate. An alternative module rating is used when more information is needed to score	Ecological and/or Cultural Resources	Table 9	5	
one or more data elements, contamination at an MRS was	EHE Module Total 95			
previously addressed, or there is	EHE Module Total	EHE Module Rating		
no reason to suspect contamination was ever present at	92 to 100	A		
an MRS.	82 to 91	E	3	
	71 to 81	(2	
	60 to 70	[)	
	48 to 59	E		
	38 to 47	F	=	
	0 to 37	G		
		Evaulation Pending		
		Evaulation	Pending	
		Evaulation	-	
	Alternative Module Ratings		Required or Suspect	ed

EHE Module Description (4000 characters max):

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 11 CHE Module: CWM Configuration Data Element Table

Directions: Below are seven classification of CWM configuration and their descriptions. Check the scores that correspond with all the CWM configurations known or suspected to be present at the MRS.

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

Classification	Description	Score
CWM, that are either UXO, or explosively configured damaged DMM	The CWM known or suspected of being present at the MRS are: *CWM that are UXO (i.e., CWM/UXO) *Explosively configured CWM that are DMM (i.e., CWM/DMM) that have been damaged.	30
CWM mixed with UXO	*The CWM known or suspected of being present at the MRS are undamaged CWM/DMM or CWM not configured as a munition that are commingled with conventional munitions that are UXO.	25
CWM, explosive configuration that are undamaged DMM	*The CWM known or suspected of being present at the MRS are explosively configured CWM/DMM that have not been damaged.	20
CWM/DMM, not explosively configured or CWM, bulk container	The CWM known or suspected of being present at the MRS are: *Nonexplosively configured CWM/DMM either damaged or undamabed *Bulk CWM (e.g., ton container).	15
CAIS K941 and CAIS K942	*The CWM/DMM known or suspected of being present at the MRS are CAIS K941-toxic gas set M-1 or CAIS K942-toxic gas set M2/E11.	12
CAIS (chemical agent identification sets)	*CAIS, other than CAIS K941 and K942, are known or suspected of being present at the MRS.	10
Evidence of no CWM	*Following investigation, the physical evidence indicates that CWM are not present at the MRS, or the historical evidence indicates that CWM are not present at the MRS.	Ø
CWM Configuration	DIRECTIONS: Record the single highest score from above in the box to the right(maximum score = 30).	0

DIRECTIONS: Document any MRS - specific data used in selecting the CWM Configuration classifications in the space provided.) Both physical and historical evidence indicates that CWM was not present at this MRS (Sections 1.2.1 and 1.4.2, RI Report). Therefore, Tables 12 through 19 are intentionally omitted according to Army Guidance.

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 20 CHE

Directions: 1. From Tables 11-19,		Source	Score	Value
record the data element scores in the Score boxes to the right. 2.	CWM Hazard Factor Data E	lements		
Add the Score boxes for each of the three factors and record this	CWM Configuration	Table 11	0	0
number in the Value boxes to the	Sources of CWM	Table 12		0
right. 3. Add the three Value boxes and record this number in	Accessibility Factor Data E	lements		
the CHE Module Total box below.	Location of CWM	Table 13		
4. Check the appropriate range for the CHE Module Total below. 5.	Ease of Access	Table 14		0
Check the CHE Module Rating that corresponds to the range	Status of Property	Table 15		
selected and record this value in	Receptor Factor Data Elem	ents		
the CHE Module Rating box found at the bottom of the table.	Population Density	Table 16		
	Population Near Hazard	Table 17		
Notes: An alternative module rating may be assigned when a module letter rating is	Types of Activities/Structures	Table 18		0
inappropriate. An alternative module rating is used when more information is needed to score	Ecological and/or Cultural Resources	Table 19		
one or more data elements,	CHE Module Total 0			0
contamination at an MRS was previously addressed, or there is	CHE Module Total	CHE Module Rating		
no reason to suspect contamination was ever present at	92 to 100	ŀ	4	
an MRS.	82 to 91	E	3	
	71 to 81	(2	
	60 to 70	Γ)	
	48 to 59	E		
	38 to 47	F	=	
	0 to 37	G		
		Evaulation Pending		
	Alternative Module Ratings	No Longer	Required	
		No Known or Suspec		ted CWN
	CHE Module Rating No Known or Suspected CWM Hazard			

CHE Module Description (4000 characters max):

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 21 Groundwater

Contaminant Hazard Factor (CHF)

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

Contaminant	Maximum Concentration (µg/L)	Comparison Value (µg/L)	Ratios	
CHF Scale	CHF Value	Sum The Ratios	0	
CHF > 100	H (High)	[Maximum Concentr	ation of Contaminant]	
100 > CHF > 2	M (Medium)	$CHF = \sum $		
2 > CHF	L (Low)	[Comparison Valu	e for Contaminant]	
CONTAMINANT HAZARD FACTOR	DIRECTIONS: Record the CHI to the right (maximum value =			
	Migratory Pathway Factor			
Classification	Descr	iption	Value	
Evident	Analytical data or observable evide the groundwater is present at, mov	nce indicates that contamination in in in toward, or has moved to a	Пн	

Potential	Contamination in the groundwater has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	Шм	
Confined	Information indicates a low potential for contaminant migration from the source via the groundwater to a potential point of exposure (possible due to the presence of geological structures or physical controls).	۵L	
MIGRATORY PATHWAY FACTOR	DIRECTIONS: Record the single highest value from above in the box to the right (maximum value = H).		
	Receptor Factor		
		N/ 1	

point of exposure

Classification	Description	Value
Identified	Identified receptors have access to groundwater to which contamination has moved or can move.	Пн
Potential	Potential for receptors have access to groundwater to which contamination has moved or can move.	Шм
Limited	Little or no potential for receptors to have access to groundwater to which contamination has moved or can move.	ΠL
RECEPTOR FACTOR	Check the value that corresponds most closely to the groundwater receptors at the MRS.	
No Known or Suspected Groundwater MC Hazard		\checkmark

DIRECTIONS: Document any MRS - specific data used in selecting the ground water contaminants in the space provided.

Detections are not indicative of munitions activities and would not impact the MRS Score. (Sec 4.2.3 and 5.3.3, RI Report)

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 22 Surface Water - Human Endpoint

Contaminant Hazard Factor (CHF)

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

numan enupoints present in the surface water, select the box at the bottom of the table.			
Contaminant	Maximum Concentration (µg/L)	Comparison Value (µg/L)	Ratios
CHF Scale	CHF Value	Sum The Ratios	0
CHF > 100	H (High)	[Maximum Concentr	ation of Contaminant]
100 > CHF > 2	M (Medium)	CHF = 2	
2 > CHF	L (Low)	[Comparison Valu	e for Contaminant]
CONTAMINANT HAZARD FACTOR	DIRECTIONS: Record the CHI to the right (maximum value =		
	Migratory Pa	thway Factor	
Classification	Descr	iption	Value
Evident	Analytical data or observable evide the surface water is present at, mo point of exposure	nce indicates that contamination in ving toward, or has moved to a	Пн
	Contamination in the surface water		Π

MIGRATORY PATHWAY FACTOR	DIRECTIONS: Record the single highest value from above in the box to the right (maximum value = H).		
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possible due to the presence of geological structures or physical controls).	۵L	
Potential	appreciably, or information is not sufficient to make a determination of Evident or Confined.	Шм	

Classification	Description	Value	
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	Пн	
Potential	Potential for receptors have access to surface water to which contamination has moved or can move.	Пм	
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.		
RECEPTOR FACTOR	Check the value that corresponds most closely to the surface water receptors at the MRS.		

No Known or Suspected Surface Water (Human Endpoint) MC Hazard

DIRECTIONS: Document any MRS - specific data used in selecting the surface water contaminants in the space provided.

Per the Final RI Work Plan, no surface water samples were collected in this MRS (see Section 4.2.2 of the RI Report).

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 23 Sediment - Human Endpoint

Contaminant Hazard Factor (CHF)

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

enup	endpoints present in the sediment, select the box at the bottom of the table.			
Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios	
CHF Scale	CHF Value	Sum The Ratio	s 0	
CHF > 100	H (High)	[Maximum Concer	tration of Contaminant]	
100 > CHF > 2	M (Medium)	CHF = <u> </u>		
2 > CHF	L (Low)	[Comparison Va	lue for Contaminant]	
CONTAMINANT HAZARD FACTOR	DIRECTIONS: Record the CHI to the right (maximum value =		< l	
	Migratory Pa	thway Factor		
Classification	Descr	iption	Value	
Evident	Analytical data or observable evide the sediment is present at, moving exposure			
Potential	Contamination in the sediment has source (i.e., tens of feet), could mo or information is not sufficient to ma	ve but is not moving appreciably,	Шм	

	Confined.	
Confined	Information indicates a low potential for contaminant migration from the source via the sediment to a potential point of exposure (possible due to the presence of geological structures or physical controls).	
MIGRATORY PATHWAY FACTOR	DIRECTIONS: Record the single highest value from above in the box to the right (maximum value = H).	
	Receptor Factor	
Classification	Description	Value
Identified	Identified receptors have access to sediment to which contamination has moved or can move.	Пн
Potential	Potential for receptors have access to sediment to which contamination has moved or can move	Шм

contamination has moved or can move. Little or no potential for receptors to have access to sediment to ٦L Limited which contamination has moved or can move RECEPTOR Check the value that corresponds most closely to the FACTOR sediment receptors at the MRS.

No Known or Suspected Sediment (Human Endpoint) MC Hazard

DIRECTIONS: Document any MRS - specific data used in selecting the sediment contaminants in the space provided.

Per the Final RI Work Plan, no sediment samples were collected in this MRS (see Section 4.2.2 of the RI Report).

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 24 Surface Water - Ecological Endpoint

Contaminant Hazard Factor (CHF)

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

coological chapoling present in the surface water, select the box at the bottom of the table.					
Contaminant	Maximum Concentration (µg/L)	Comparison Value (µg/L)	Ratios		
CHF Scale	CHF Value	Sum The Ratios	0		
CHF > 100	H (High)	[Maximum Concentr	ation of Contaminant]		
100 > CHF > 2	M (Medium)	CHF =			
2 > CHF	L (Low)	[Comparison Valu	ue for Contaminant]		
CONTAMINANT HAZARD FACTOR	DIRECTIONS: Record the CHI to the right (maximum value =				
Migratory Pathway Factor					
Classification	Classification Description				

Classification	Description	Value
Evident	Analytical data or observable evidence indicates that contamination in the surface water is present at, moving toward, or has moved to a point of exposure	Пн
Potential	Contamination in the surface water has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, or information is not sufficient to make a determination of Evident or Confined.	Пм
Confined	Information indicates a low potential for contaminant migration from the source via the surface water to a potential point of exposure (possible due to the presence of geological structures or physical controls).	
MIGRATORY PATHWAY FACTOR	DIRECTIONS: Record the single highest value from above in the box to the right (maximum value = H).	

Receptor Factor					
Classification	Description	Value			
Identified	Identified receptors have access to surface water to which contamination has moved or can move.	Пн			
Potential	Potential for receptors have access to surface water to which contamination has moved or can move.	Шм			
Limited	Little or no potential for receptors to have access to surface water to which contamination has moved or can move.				
RECEPTOR FACTOR	Check the value that corresponds most closely to the surface water receptors at the MRS.				

No Known or Suspected Surface Water (Ecological Endpoing) MC Hazard

DIRECTIONS: Document any MRS - specific data used in selecting the surface water contaminants in the space provided.

Per the Final RI Work Plan, no surface water samples were collected in this MRS (see Section 4.2.2 of the RI Report).

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 25 Sediment - Ecological Endpoint

Contaminant Hazard Factor (CHF)

Directions: Record the maxium concentrations of all contaminants in the MRS's sediment and their comparison values (from Appendix B of the Primer) in the table below. Additional contaminants can be recorded on Table 27. Calculate and record the ratios for each contaminant by dividing the maximum concentration by the comparison value. Determine the CHF by adding the contaminant ratios together, including any additional sediment contaminants recorded on Table 27. Based on the CHF, use the CHF Scale to determine and record the CHF Value. If there is no known or suspected MC hazard with ecological endpoints present in the sediment, select the box at the bottom of the table. Contaminant **Maximum Concentration** Comparison Value (mg/kg) Ratios (mg/kg) **CHF Scale CHF** Value Sum The Ratios 0 [Maximum Concentration of Contaminant] CHF > 100 H (High) $CHF = \sum$ 100 > CHF > 2 M (Medium) [Comparison Value for Contaminant] 2 > CHFL (Low) **DIRECTIONS:** Record the CHF Value from above in the box CONTAMINANT **HAZARD FACTOR** to the right (maximum value = H). **Migratory Pathway Factor** Classification Description Value Analytical data or observable evidence indicates that contamination in Шн Evident the sediment is present at, moving toward, or has moved to a point of exposure Contamination in the sediment has moved only slightly beyond the source (i.e., tens of feet), could move but is not moving appreciably, Шм Potential or information is not sufficient to make a determination of Evident or Confined. Information indicates a low potential for contaminant migration from Confined the source via the sediment to a potential point of exposure (possible due to the presence of geological structures or physical controls). MIGRATORY **DIRECTIONS:** Record the single highest value from above PATHWAY in the box to the right (maximum value = H). FACTOR **Receptor Factor** Classification Description Value Identified receptors have access to sediment to which contamination Identified ЦН has moved or can move. Potential for receptors have access to sediment to which Шм Potential contamination has moved or can move. Little or no potential for receptors to have access to sediment to ΠL Limited which contamination has moved or can move RECEPTOR Check the value that corresponds most closely to the FACTOR sediment receptors at the MRS. No Known or Suspected Sediment (Ecological Endpoint) MC Hazard

DIRECTIONS: Document any MRS - specific data used in selecting the sediment contaminants in the space provided.

Per the Final RI Work Plan, no sediment samples were collected in this MRS (see Section 4.2.2 of the RI Report).

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 26 Surface Soil

Contaminant Hazard Factor (CHF)

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

Contaminant	Maximum Concentration (mg/kg)	Comparison Value (mg/kg)	Ratios	
Molybdenum	2.30	390	0.00589744	
Selenium	3.60	390	0.0092	
Cobalt	3.10	23	0.13478261	
Arsenic	114	34	3.35294118	
Lead	2180	400	5.45	
Thallium	6.50	0.78	8.33333333	
Antimony	34.90	31	1.12580645	
Copper	384	3100	0.1239	
Silver	7.60	390	0.01948718	
CHF Scale	CHF Value	Sum The Ratios	18.55534819	
CHF > 100	H (High)	[Maximum Concentra	ation of Contaminan	
100 > CHF > 2	M (Medium)	CHF = <u> </u>		
2 > CHF	L (Low)	[Comparison Valu	e for Contaminant]	
ONTAMINANT	NANT DIRECTIONS: Record the CHF Value from above in the box			
	Migratory Pa	thway Factor		
Classification	Descr	ription	Value	
vident	Analytical data or observable evide the surface soil is present at, movir of exposure	Пн		
Potential	Contamination in the surface soil h source (i.e., tens of feet), could mo or information is not sufficient to ma Confined.	⊠м		
	Information indicates a low potentia the source via the surface soil to a			
Confined	(possible due to the presence of ge controls).	eological structures or physical	LLL	
MGRATORY PATHWAY	(possible due to the presence of ge	eological structures or physical gle highest value from above	L_IL M	
MGRATORY PATHWAY	(possible due to the presence of ge controls). DIRECTIONS: Record the sing in the box to the right (maxim	eological structures or physical gle highest value from above	M	
MGRATORY PATHWAY	(possible due to the presence of ge controls). DIRECTIONS: Record the sing in the box to the right (maxim Recepto	eological structures or physical gle highest value from above um value = H).	M Value	
MIGRATORY PATHWAY ACTOR Classification	(possible due to the presence of ge controls). DIRECTIONS: Record the sing in the box to the right (maxim Receptor Identified receptors have access to contamination has moved or can m	gle highest value from above num value = H). or Factor ription o surface soil to which nove.		
AIGRATORY PATHWAY ACTOR Classification dentified	(possible due to the presence of generation of the single on the box to the right (maxime in the box to the right (maxime Receptor Description of the single of the single of the single of the box to the right (maxime second se	gle highest value from above um value = H). or Factor ription o surface soil to which nove. s to surface soil to which nove.	Value	
Confined	(possible due to the presence of ge controls). DIRECTIONS: Record the sing in the box to the right (maxim Receptor Identified receptors have access to contamination has moved or can m Potential for receptors have access	gle highest value from above um value = H). or Factor ription o surface soil to which hove. s to surface soil to which hove. o have access to surface soil to	Value H	
AIGRATORY PATHWAY ACTOR Classification dentified Potential	(possible due to the presence of generation of the single on the box to the right (maxime in the box to the right (maxime Receptor Description of the single of the single of the single of the box to the right (maxime second se	gle highest value from above fum value = H). or Factor ription o surface soil to which hove. s to surface soil to which hove. o have access to surface soil to can move. o have access to surface soil to can move.	Value ☐ H ☑ M	

provided. Results for SI Sample FHK-NP-SS-06-03 are summarized in Table 7-5 (p. 3 of 5) of the 2007 SI Report.

Results for additional samples are summarized in Appendix B-1 of the 2014 RI Addendum Report #1.

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 28 Determining the HHE Module Rating

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

			Training box b		
Media (Source)	Contamina ntHazard Factor Value	Migratory Pathway Factor Value	Receptor Factor Value	Three- Letter Combinatio n (Hs-Ms- Ls)	Media Rating (A-G)
Groundwater (Table 21)					
Surface Water - Human Endpoint (Table 22)					
Sediment - Human Endpoint (Table 23)					
Surface Water - Ecological Endpoint (Table 24)					
Sediment - Ecological Endpoint (Table 25)					
Surface Soil (Table 26)	М	М	М	MMM	D
DIRECTIONS (co	ont.): 4. Select t	the single	HHE M	ODULE RATING	D
highest Media Ra	ating (A is highe	est; G is HHF Module		HHE Ratings (fo	or reference only)
lowest) and enter the letter in the HHE Module Rating box.		Combination		Rating	
Notes: An alterna	ative module rat	ing may be	ННН		A
Notes: An alternative module rating may be assigned when a module letter rating is inappropriate. An alternative module rating is used when more information is needed to score one or more data elements, contamination at an MRS was previously			ННМ,НМН,МНН		В
			HHL,HLH,LHH,HMM,MHM,MMH		С
			HML,HLM,MHL,MLH,LHM,LMH,M MM		D
addressed, or there is no reason to suspect contamination was ever present at an MRS.		HLL,LHL,LLH,MML,MLM,LMM		E	
		MLL,LML,LLM		F	
			LLL		G
					Evaluation Pending
			Alternative Module Ratings		No Longer Required
					No Known or Suspected MC Hazard
			· · · · · · · · · · · · · · · · · · ·		

HHE Module Description (4000 characters max):

Baseline risk assessments conducted in the 2014 RI and 2016 RI Addendum concluded that metals in surface soil do not pose a threat to human receptors (Sections 6.2.3.6, 6.2.5, RI Report; Section 5.3.4, RI Addendum #1 Report). Therefore, the HHE module is assigned the alternative rating of No Known or Suspected Hazard.

C02NJ0004 Fort Hancock - 03 - MMRP - Northern Portion Proving Ground Table 29 MRS Priority

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

MRS Priority or Alternative MRS Rating at the bottom of the table. An MRS assigned Priority 1 has the highest relative priority; an MRS assigned Priority 8 has the lowest relative priority. Only an MRS with CWM known or suspected to be present can be assigned Priority 1; an MRS that has CWM known or suspected to be present cannot be assigned Priority 8

EHE Rating Priority CHE Rating Priority HHE Rating Priority							
	FIIOTILY				FIOIIty		
		A					
A	2	В	2	А	2		
В	3	С	3	В	3		
С	4	D	4	С	4		
D	5	Е	5	D	5		
E	6	F	6	E	6		
F	7	G	7	F	7		
G	8			G	8		
Evaluation Pending		Evaluation Pending		Evaluation Pending			
No Longer Required		No Longer Required		No Longer Required			
No Known or Suspected Explosive Hazard		No Known or Suspected CWM Hazard		No Known or Suspected MC Hazard			
MRS Priority or Alternative MRS Rating 2							