

**ENVIRONMENTAL SITE CLOSURE SURVEY**

For use of this form, see ATP 3-34.5/MCRP 4-11B; the proponent agency is TRADOC.

**SURVEY TYPE DEFINITIONS**

<b>Initial Survey (I)</b>	Any survey conducted by the closing base camp or unit's environmental officer and/or the theater support group or major subordinate command environmental staff to determine actions needed for transfer or closures. This survey needs to be completed sufficiently in advance of transfer or closure to allow the identified environmental follow-up items to be completed prior to the actual closure or transfer of the base.
<b>Preliminary Survey (P)</b>	A survey conducted by the theater support group or major subordinate command environmental staff to identify all environmental closure actions that must be completed prior to the base camp or unit being granted final clearance. A preliminary survey is normally scheduled 30 days prior to site closure or transfer.
<b>Final Survey (F)</b>	Final clearance survey conducted by theater support group or major subordinate command environmental staff as part of the overall site clearance process.

**REFERENCES**FM 21-10, *Field Hygiene and Sanitation*.

Environmental Final Governing Standards (as applicable).

Applicable negotiated standards with transfer entity or receiving host nation.

Overseas Environmental Baseline Guidance Document.

Annex L: Environmental to the governing operation plan (as applicable).

**DISPOSITION**

(Fill in the number of years and the number of days in the spaces provided.)

Completed surveys will be maintained at the theater support group or major subordinate command environmental staff for 5 years.Copies will be forwarded to the theater command environmental section no later than 30 days after site transfer or closure.**1. SITE INFORMATION**

Continue

Click this button to add a continuation page if more space is needed for any item.

a. SITE NAME AND DESIGNATION	Bagram Airfield, Parwan Province, Afghanistan	
b. SITE LOCATION	(Full military grid reference system or latitude and longitude coordinates of site outline or boundary. Not the center of mass.) See Bagram Coordinates attachment	
c. SITE USE	Bagram Air Field is a strategic support base in Afghanistan supporting USFOR-A, ASG-A and SOTF-A and numerous Contractors and OGAs	
d. PREVIOUS UNITS ASSIGNED TO THE BASE	Continual US Military presence.	
e. MAP SHEET, SERIES, EDITION, AND SCALE	Digital Globe / TIGR / BuckEye	
f. TYPE OF SURVEY	(Select one.) F <input type="button" value="v"/>	
g. CLEARING BASE CAMP AND UNIT	USFOR-A / ASG-A	
h. BASE CAMP AND UNIT ENVIRONMENTAL OFFICER	(Full name, rank, and duty position.) (b)(6)	
i. TELEPHONE NUMBER	(b)(6)	
j. DATE-TIME GROUP OF SURVEY	May 17-21, 2021	
k. NAME, RANK, AND DUTY POSITION OF SURVEYORS	(b)(6)	
l. UNIT AND ORGANIZATION OF SURVEYORS	USFOR-A / ASG-A ERT Environmental Managers	
m. FINAL ENVIRONMENTAL CLEARANCE GRANTED	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
n. DATE-TIME GROUP WHEN FINAL CLEARANCE WAS GRANTED	5 June 2021	
o. SIGNATURE OF SURVEYOR GRANTING FINAL CLEARANCE	(b)(6)	



**2. SURVEY ITEM CHECKLIST**

(The checklist items for each level of the survey are indicated with an I for initial, P for preliminary, and F for final. Personnel conducting the survey should select the appropriate letter for the level of survey they are completing. Surveyors should be as descriptive as possible to ensure that the information is complete.)

**a. UNIT OPERATIONS**

(1) List the name of the assigned unit or organization of the environmental officer.	(Select one.) F <input type="checkbox"/> (b)(6) ASG-A Environmental
(2) Has the unit or organization prepared environmental records and documentation, to include the environmental baseline survey, environmental conditions reports, turn-in documentation, and spill reports for archiving by the theater level command?	<input type="checkbox"/> EBS: 1-4 Jan 2002 <input type="checkbox"/> Env Surveys: annually 2008-2021 <input type="checkbox"/> P-ESCS: Jan-Mar 2021 <input type="checkbox"/> F-ESCS: 17-21 May 2021
(3) Has the unit or organization worked with contracting officers to close out any environmental-related contracts or have plans in place to close out contracts?	F <input type="checkbox"/> Bagram is still a partially active base. ASG-A and USFOR-A will work with contracting officers to closes out environmental related issues.
(4) Has the unit or organization provided training materials and manuals for any environmental-related equipment that will be left for the receiving organization or host nation?	F <input type="checkbox"/> This is an ongoing process on the status of environmental-related equipment that will be turned over to the host nation. Familiarization training was provided to GIRoA.
(5) Does the unit know the environmental points of contact at the theater support group or major subordinate command level?	F <input type="checkbox"/> Yes, the environmental points of contact are know by units and organization.

**b. MEDICAL WASTE**

(1) Does the unit or activity operate a medical treatment facility that generates or requires storage of medical waste? (If no, a medical waste survey is not required.)	F <input type="checkbox"/> Yes, there are several locations on Bagram that generate medical waste. There is one hospital, two contractor clinics and several aid stations that provide medical care
(2) Do medical personnel know the procedures for turn-in of medical waste and major subordinate command or theater support group turn-in points of contact?	F <input type="checkbox"/> The disposal of medical was is known by the medical facilities on Bagram. RMW incinerators are located at solid waste yard
(3) Has medical waste been red-bagged and prepared for turn-in?	F <input type="checkbox"/> Medical Facilities are still in use at this time.
(4) Has all medical waste been removed from the site?	F <input type="checkbox"/> All wastes will be disposed of prior to transfer
(5) What are the grid coordinates for the field aid stations or combat support hospital?	F <input type="checkbox"/> See Photographic Documentation.
(6) Provide and attach post-clearance digital photographs of the site.	<input type="checkbox"/>

**c. HAZARDOUS WASTE**

(1) Does the unit or activity conduct any activity that generates or requires storage of hazardous waste? (If no, a hazardous waste survey is not required.)	F <input type="checkbox"/> Yes, there are several locations on Bagram that generate or have generated HazWaste. See Photographic Documentation
(2) Does the unit or activity have any hazardous waste tanks or drums? Are they in secondary containment?	F <input type="checkbox"/> Most units and activities have HazWaste stored in secondary containment.
(3) Does the unit or activity have a working spill response plan?	F <input type="checkbox"/> Yes, units and activities have spill plans. Bagram also has a base spill plan.
(4) Are United Nations approved containers being used for hazardous waste storage?	F <input type="checkbox"/> Yes, UN approved containers are being used for HazWaste
(5) Are enough United Nations approved containers on hand to meet actual and anticipated need? If no, has the unit ordered sufficient containers?	F <input type="checkbox"/> There are enough UN approved containers available for HazWaste for closure/transfer.
(6) Are containers being properly labeled and prepared for turn-in?	F <input type="checkbox"/> Most containers are properly labeled for turn in. Units can go to the HWSA or ERT for guidance.
(7) Are placards on hand for marking vehicles during transportation of waste?	F <input type="checkbox"/> N/A
(8) Has used (contaminated) spill response equipment been collected and containerized?	F <input type="checkbox"/> Yes, used spill response equipment is being collected on a as needed basis.
(9) Does the unit know where bulk turn-in points are for used antifreeze and petroleum, oils, and lubricants?	F <input type="checkbox"/> Yes, units know where to turn in HazWaste. Amnesty Day and Clean Sweep accepted the bulk of HazWaste on Bagram
(10) Has a turn-in date and time been established? If yes, note the date and time.	F <input type="checkbox"/> Date: 15 JUN 21 Time: _____
(11) Have all spills in the hazardous waste storage area been cleaned up?	F <input type="checkbox"/> There are no current spills in the HWSA or HazWaste storage yards.
(12) Are the hazardous waste accumulation point locations clean and clear of all materials?	F <input type="checkbox"/> Some HWAPs are still in use. All wastes will be removed and disposed. See Photographic Documentation.
(13) Is the hazardous waste storage area location clean and clear of all materials?	F <input type="checkbox"/> The HWSA is still currently in use. See Photos. All wastes will be removed and disposed by 28 Jun 21 thru DLA contract.
(14) What are the grid coordinates for the hazardous waste accumulation points?	F <input type="checkbox"/> See Photographic Documentation.



(15) What are the grid coordinates for the hazardous waste storage area?	(Select one.) F <input type="radio"/>	See Photographic Documentation.
(16) Provide and attach post-clearance digital photographs of each hazardous waste accumulation point and hazardous waste storage area site.	F <input type="radio"/>	Site will be documented before closure/transfer
<b>d. HAZARDOUS MATERIALS</b>		
(1) Does the unit or activity conduct any activity that requires storage or handling of hazardous materials? (If no, a hazardous materials survey is not required.)	F <input type="radio"/>	Yes, there are still several locations on Bagram that store HazMat. See Photographic Documentation
(2) Does the unit or activity have hazardous material tanks or drums? Are they in secondary containment?	F <input type="radio"/>	Some units and activities have HazMat drums in secondary containment.
(3) Do personnel know the procedures for storage, handling, and turn-in of hazardous materials?	F <input type="radio"/>	Yes, personnel are aware of the turn in procedures. Additional guidance comes from the HWSA and DLA
(4) Are serviceable and originally packaged hazardous materials being prepared for turn-in to the supply system?	F <input type="radio"/>	Yes, serviceable and originally packed HazMat is turned in to the SSA or RetroSort.
(5) Are hazardous materials being identified for turn-in as hazardous waste? (For example, expired shelf-life items or materials that are opened and contaminated.)	F <input type="radio"/>	Yes, open or expired HazMat is turned in as HazWaste. Serviceable HM will remain for transfer to GIROA.
(6) What are the grid coordinates for the hazardous materials storage areas?	F <input type="radio"/>	See Photographic Documentation.
(7) Provide and attach post-clearance digital photographs of each hazardous materials storage area.	F <input type="radio"/>	See Photographic Documentation.
<b>e. BURN PITS</b>		
(1) Did the unit or activity operate any burn pits on-site? (If no, a burn pit survey is not required.)	F <input type="radio"/>	Yes, there were 2 burn pits, last one ceased operation in 2014
(2) Has all metal been removed from the burn pits and segregated for recycling?	F <input type="radio"/>	Burn pits were covered with soil
(3) Does the unit have a plan for closing the burn pits?	<input type="radio"/>	There are no current burn pits.
(4) Have burn pits been covered with a 6-inch layer of soil?	<input type="radio"/>	Yes, the former burn pits were closed and capped with at least six inches of soil.
(5) Have burn pits been marked with a permanent sign? (Placard must say, "Burn Pit" and list the date closed and unit that closed it.)	F <input type="radio"/>	Yes, signs are posted.
(6) What are the grid coordinates (taken from map center of mass) for all burn pits?	F <input type="radio"/>	See Photographic Documentation.
(7) Provide and attach post-clearance digital photographs of each burn pit.	F <input type="radio"/>	See Photographic Documentation.
<b>f. INCINERATORS</b>		
(1) Did the unit or activity operate any incinerators on-site? (If no, an incinerator survey is not required.)	F <input type="radio"/>	2 medical waste, 4 solid waste, 1 operated by ERT for oily rags
(2) Has all metal been removed from the incinerators and segregated for recycling?	F <input type="radio"/>	Yes, metal is removed and segregated for recycling.
(3) Has all ash been removed, tested, and disposed of according to the standing operating procedures or theater-level regulations?	F <input type="radio"/>	Ash is laboratory tested and disposed of according to theater regulations.
(4) Does the unit have a plan for transfer, closing, and disposition of the incinerators?	<input type="radio"/>	will be transferred to GIROA
(5) Have incinerator sites been marked with a permanent sign? (Placard must say, "Incinerator Site" and list the date closed and unit that closed it.)	<input type="radio"/>	The incinerators are currently in use.
(6) What are the grid coordinates (taken from map center of mass) for all incinerators?	F <input type="radio"/>	See Photographic Documentation.
(7) Provide and attach post-clearance digital photographs of each incinerator.	<input type="radio"/>	
<b>g. SOLID WASTE LANDFILLS</b>		
(1) Does the unit or activity operate a solid waste landfill on-site? (If no, a solid waste landfill survey is not required.)	F <input type="radio"/>	there is a construction debris, monofil and ash burial sites, oil-contaminated soil is landfarmed near ERT yard
(2) Has any blowing debris or litter been removed from the site?	F <input type="radio"/>	Sites are currently in use, to be shutdown by closure.
(3) Does the unit have a plan for closing the landfill?	<input type="radio"/>	burial sites are covered with dirt
(4) Have solid waste landfills been covered or capped according to theater-level guidance?	F <input type="radio"/>	burial sites are covered with dirt



(5) Have landfills been marked with a permanent sign? (Placard must say, "Landfill" and list the date closed and unit that closed it.)	(Select one.) F <input type="checkbox"/>	Yes, signs are posted at the burial sites
(6) What are the grid coordinates for the solid waste landfill?	F <input type="checkbox"/>	See Photographic Documentation & atch Env Sites Map
(7) Provide and attach post-clearance digital photographs of the landfill.	<input type="checkbox"/>	
<b>h. LATRINES</b>		
(1) Does the unit or activity operate latrines on-site? (If no, a latrine survey is not required.)	F <input type="checkbox"/>	Yes, there are several LSS on-site in multiple LSAs.
(2) Does the unit have a plan for closing and removal of urine tubes and burn out latrines?	F <input type="checkbox"/>	There are no urine tubes on Bagram.
(3) Does the unit have a plan for cleaning human waste that has been spilled on the ground?	F <input type="checkbox"/>	Yes, biosolids that are on the ground are cleaned up as needed.
(4) Does the unit have a plan for removing trash from the latrine facility?	F <input type="checkbox"/>	Yes, cleaning contracts are still in place.
(5) Has all trash and waste been removed from latrine facilities?	F <input type="checkbox"/>	Bagram is currently and partially active base. All trash will be removed prior to closure
(6) Have the latrines been marked with a permanent sign? (Placard must say, "Latrine" and list the date closed and unit that closed it.)	F <input type="checkbox"/>	Latrines will be transferred to GfRoA
(7) What are the grid coordinates for the latrines and urine tubes?	F <input type="checkbox"/>	N/A
(8) Provide and attach post-clearance digital photographs of the latrine sites.	<input type="checkbox"/>	
<b>i. MAINTENANCE SITES</b>		
(1) Does the unit or activity have maintenance activities on-site? (If no, a maintenance site survey is not required.)	F <input type="checkbox"/>	Yes, there are multiple motor pools on Bagram belonging to contractors and the military.
(2) Does the unit or activity have maintenance tanks or drums? Do they have secondary containment?	F <input type="checkbox"/>	Yes units and activities have tank and drums.
(3) Has all hazardous waste been turned in?	F <input type="checkbox"/>	No, all wastes will be removed prior to transfer
(4) Have all accumulation points been cleaned and closed?	F <input type="checkbox"/>	No, all wastes will be removed prior to transfer
(5) Has all contaminated soil been collected for disposal?	F <input type="checkbox"/>	There still may be contaminated soil under generators.
(6) What are the grid coordinates for the maintenance sites?	F <input type="checkbox"/>	See Photographic Documentation and attached spreadsheets.
(7) Provide and attach post-clearance digital photographs of the maintenance sites.	<input type="checkbox"/>	
<b>j. GENERATORS</b>		
(1) Does the unit/activity operate generators on-site? (If no, a generator survey is not required.)	F <input type="checkbox"/>	Yes, there are multiple generators on Bagram belonging to contractors and the military.
(2) Does the generator site tanks or drums have secondary containment?	F <input type="checkbox"/>	Yes, most sites have secondary containment.
(3) Has contaminated soil (fuel spills, oil spills, and so forth) around the generators been collected for disposal?	F <input type="checkbox"/>	There still may be contaminated soil under generators.
(4) What are the grid coordinates for all generator sites?	F <input type="checkbox"/>	See Photographic Documentation and attached spreadsheet
(5) Provide and attach post-clearance digital photographs of the locations of all generators 10 kilowatts and up.	<input type="checkbox"/>	
<b>k. FUEL STORAGE AREAS</b>		
(1) Does the unit or activity conduct bulk refueling or transfer operations (bladder or tanker) on-site? (If no, a fuel storage survey is not required.)	F <input type="checkbox"/>	Yes, Bagram has multi-million gallon fuels systems and retail fuels points. See EHC for more details.
(2) Do the fuel storage area tanks or drums have secondary containment?	F <input type="checkbox"/>	Yes, fuel storage area tanks or drums have secondary containment.
(3) Has contaminated soil around fuel tankers or bladders been collected and properly disposed of?	F <input type="checkbox"/>	There is no known fuel contamination around the fuel tanks or bladders.
(4) What are the grid coordinates for all bulk fuel storage sites?	F <input type="checkbox"/>	See Photographic Documentation and Attachments
(5) Provide and attach post-clearance digital photographs of the locations of all bulk fuel storage sites.	<input type="checkbox"/>	



**I. RECYCLING AND REUSE AREAS**

(Examples: metal, plastic, glass, paper, cardboard, tires, wood, used oil, and so forth.)

(1) Does the unit or activity operate a recycling or reuse area on-site? (If no, a recycling or reuse survey is not required.)	(Select one.) F <input type="checkbox"/> Yes, the base operates a recycling or reuse area.
(2) List all the materials that are recycled or reused at the site.	F <input type="checkbox"/> Metals, plastics, wood, card board products.
(3) Have all recycled or reused materials been picked up from the site?	F <input type="checkbox"/> No, the site is partially active. All wastes will be removed prior to closure
(4) Does the unit or activity have a plan for closing the recycling or reuse area?	F <input type="checkbox"/> Yes, the base has a plan for closing recycling and reuse area.
(5) What are the grid coordinates for the recycling or reuse area?	F <input type="checkbox"/> See Photographic Documentation.
(6) Provide and attach post-clearance digital photographs of the recycling or reuse area.	<input type="checkbox"/>

**m. WATER, WASTEWATER, AND LAUNDRIES**

(1) Does the unit or activity operate a water generation area on-site? If yes, describe.	F <input type="checkbox"/> There are 26 known wells, 4 water pts w/ 8 wells & 3 ROPUs, 3 groundwater monitoring wells around engineered landfill, sampled for VOCs and metals. See Atch. All will be transferred to GIRoA.
(2) Does the unit or activity operate a wastewater system on-site? If yes, describe.	F <input type="checkbox"/> Yes, the base operates a wastewater treatment plant.
(3) Does the unit or activity operate any wash racks and/or oil water separators? If yes, describe.	F <input type="checkbox"/> Yes, the base operates multiple wash racks with oil water separators.
(4) Does the unit or activity operate a laundry system on-site? If yes, describe.	F <input type="checkbox"/> Yes, the base operates a laundry facility on site.
(5) Does the unit or activity have a plan for closing the water generation area?	F <input type="checkbox"/> Transfer to GIRoA
(6) Does the unit or activity have a plan for closing the wastewater system?	F <input type="checkbox"/> Transfer to GIRoA
(7) Does the unit or activity have a plan for closing the wash racks and/or oil water separators?	F <input type="checkbox"/> Transfer to GIRoA
(8) Does the unit or activity have a plan for closing the laundry system?	F <input type="checkbox"/> Transfer to GIRoA
(9) What are the grid coordinates for the water generation area?	F <input type="checkbox"/> See Photographic Documentation
(10) What are the grid coordinates for the wastewater system?	F <input type="checkbox"/> See Photographic Documentation
(11) What are the grid coordinates for wash racks and/or water separators?	F <input type="checkbox"/> See Photographic Documentation
(12) What are the grid coordinates for the laundry system?	F <input type="checkbox"/> 42S WD 24966 65873, also see Photographic Documentation
(13) Provide and attach post-clearance digital photographs of the water, wastewater, laundry areas, and wash racks and/or oil water separators.	<input type="checkbox"/>

**n. PESTICIDE MIXING AND STORAGE**

(1) Does the unit or activity operate any pesticide mixing or storage areas on-site? (If no, a pesticide survey is not required.)	F <input type="checkbox"/> Yes, the base operate a pesticide mixing and storage areas.
(2) Do personnel know the procedures for storage, handling, and turn-in of pesticides?	F <input type="checkbox"/> Yes, personnel are aware of the turn procedures for the turn in of pesticides
(3) Are serviceable and originally packaged pesticide containers being prepared for turn-in to the supply system?	F <input type="checkbox"/> Yes, serviceable pesticide containers are be turned in for reuse or disposal.
(4) Are pesticides being identified as being waste prepared for turn-in? (For example, expired shelf-life items or materials that are opened and contaminated.)	F <input type="checkbox"/> Yes, expired pesticide containers are be turned in for disposal.
(5) Does the unit or activity have a plan for closing the pesticide mixing or storage area?	F <input type="checkbox"/> Yes, the pesticide area will be closed in conjunction with the DFACs
(6) What are the grid coordinates for the pesticide mixing or storage areas?	F <input type="checkbox"/> See Photographic Documentation.
(7) Provide and attach post-clearance digital photographs of the pesticide mixing or storage areas.	<input type="checkbox"/>

**o. DINING FACILITY FOOD WASTE MANAGEMENT**

(1) Does the unit or activity operate any food waste management areas on-site? (If no, a food waste management area survey is not required.)	F <input type="checkbox"/> Yes, there are four DFACs on Bagram
(2) Does the unit or activity operate any grease traps on-site?	F <input type="checkbox"/> No, drums are used for grease disposal.



(3) Does the unit or activity operate any soakage pits on-site?	(Select one.) F <input type="checkbox"/> There are no soakage pits on sites.
(4) Do personnel know the procedures for separation, storage, handling, and disposal of food wastes (to include grease)?	F <input type="checkbox"/> Personnel know the procedures for separation, storage, handling, and disposal of food wastes and grease.
(5) Does the unit or activity have a plan for closing the food waste management areas?	F <input type="checkbox"/> Will be cleaned and transferred to GIRoA
(6) Does the unit or activity have a plan for closing the grease traps?	F <input type="checkbox"/> Will be cleaned
(7) Does the unit or activity have a plan for closing the soakage pits?	F <input type="checkbox"/> There are no soakage pits on sites.
(8) What are the grid coordinates for the food waste management areas?	F <input type="checkbox"/> See Photographic Documentation
(9) What are the grid coordinates for the grease traps?	F <input type="checkbox"/> See Photographic Documentation
(10) What are the grid coordinates for the soakage pits?	F <input type="checkbox"/> There are no soakage pits on sites.
(11) Provide and attach post-clearance digital photographs of the food waste management mixing or storage areas.	<input type="checkbox"/>
(12) Provide and attach post-clearance digital photographs of the grease traps.	<input type="checkbox"/>
(13) Provide and attach post-clearance digital photographs of the soakage pits.	F <input type="checkbox"/> There are no soakage pits on sites.

## p. GENERAL

(1) Has the unit or activity scheduled its preliminary and final inspections?	<input type="checkbox"/> This is the final inspection
(2) Does the unit or activity need help to remediate any environmental spills? If so, describe.	F <input type="checkbox"/> No, not at the time of this survey.
(3) Does the unit or activity need help coordinating hazardous waste turn-in?	F <input type="checkbox"/> No, not at the time of this survey.
(4) Does the unit or activity need help in solving any environmental problems? If so, describe.	<input type="checkbox"/> No, not at the time of this survey.
(5) Are there any hazardous materials or waste on-site that are not covered by the survey categories above? If yes, describe type, location, and disposition.	<input type="checkbox"/> There is chromium waste contamination in the ground from the Russian occupation covered with concrete slab on Camp Vance, area is marked with signage, see Atch 8.

## 3. COMMENTS AND RECOMMENDATIONS

There are 3 on-base small arms ranges (Camp Alpha 25M, Maholic 25M & 100M), they will be surface swept for live rounds, and Camp Alpha and 100M ranges will be used until transfer to GIRoA to be used as ranges. The back stop soil from 25M Maholic range was buried and treated with lime at the range. EOD operated 2 small arms open burn pits and 2 open detonation areas. The debris from the OB pits is stored on-site in metal connexes as recyclable material for transfer to GIRoA. The pits will remain open as they will be used until transfer/closure. There are 4 off-base high explosive training ranges that due to hostile environment will not be surface cleared. To our knowledge there is no signage marking the range danger areas. The ranges will be identified in the EHC provided to GIRoA & also listed in a letter of intent. The ranges are East River Range 42SWD2751558092, South River Range 42SWD2623352514, Northeast Test Fire Area 42SWD4176069709, Cav Range 42SWD4473770895. Former Russian land mines have been cleared on BAF with the exception of those located along the banks of Coyote Creek, these areas are cordoned off with concrete barriers and barbed wire fencing with "DANGER MINES" signs posted approximately every 35 meters. Human remains were discovered during mine removal operation near the Soviet aircraft bunkers east of the airfield runway. The bodies were likely buried during the Soviet occupation of Afghanistan in the 1980s. On 19 Oct 14, 46 human remains were officially buried by Afghan and Jordanians near the location of 42SWD249756771. A sign marked this area. Several 55 gal metal and plastic drums, along with 5 gal metal and plastic buckets of non-hazardous wastes (alkaline batteries, medical waste incinerator ash, soda ash used during battery acid neutralization, fire extinguisher powder) and plastic bags of asbestos containing material was buried in the former burn pit behind the solid waste yard, see point 19 in the Env Sites Map. The Environmental Handover Certificate contains more details of the environmental conditions of the base.

## 4. LIST OF ATTACHMENTS (Such as maps, pictures, reports, or diagrams.)

1. Aerial Map
2. Coordinates
3. Environmental Sites Map
4. Photos
5. Water Wells
6. Groundwater Monitoring Wells Analytical Results 2012-2020
7. Fuel Storage Tanks
8. Chromium Encapsulation Map
9. Legacy Black and Gray Water Tanks
10. Legacy Generator & Fuels Tanks
11. Legacy HazMat Storage
12. Legacy HazWaste Storage
13. Legacy Storage Tanks

## 5. FINAL SURVEY RESULTS (Check one)

Base Camp or Unit is: ☒ CLEARED ☐ NOT CLEARED



Page 7 redacted for the following reason:

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(b)(6), (b)(3) 130(c), (b)(6)

Approved for Release



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UNCLASSIFIED

**WATER WELL SURVEY  
FOR  
BAGRAM AIR FIELD**

BAF is a US military airbase in Parwan Province, Afghanistan that serves as a central hub for US and North Atlantic Treaty Organization (NATO) operations in northern Afghanistan. The base is situated in a valley surrounded by the Hindu Kush Mountains. The average elevation at the base is 1,480 meters; Coyote Creek flows northwest to southeast across the base. An aerial image of BAF is provided on Figure 1.

All ground water wells encountered including pumping, non-pumping, potable, non-potable, and monitoring wells were included in this survey. Thirty-three known or suspected well sites were visited; of these, 26 well locations were confirmed. Well locations by Military Grid Reference System (MGRS) and well characteristics including total depth, diameter, casing material, and water table depth were recorded when this information was available. Well data recorded is listed in Table 1. Well map locations are shown on Figures 2 through 4. Photographs of each well location are provided in Attachment 1.

### **Figures**

Figure 1 – Aerial Image of Bagram Air Field

Figure 2 – Water Well Location Map – North

Figure 3 – Water Well Location Map – East

Figure 4 – Water Well Location Map – South

### **Tables**

Table 1 – Water Well Data

### **Attachment**

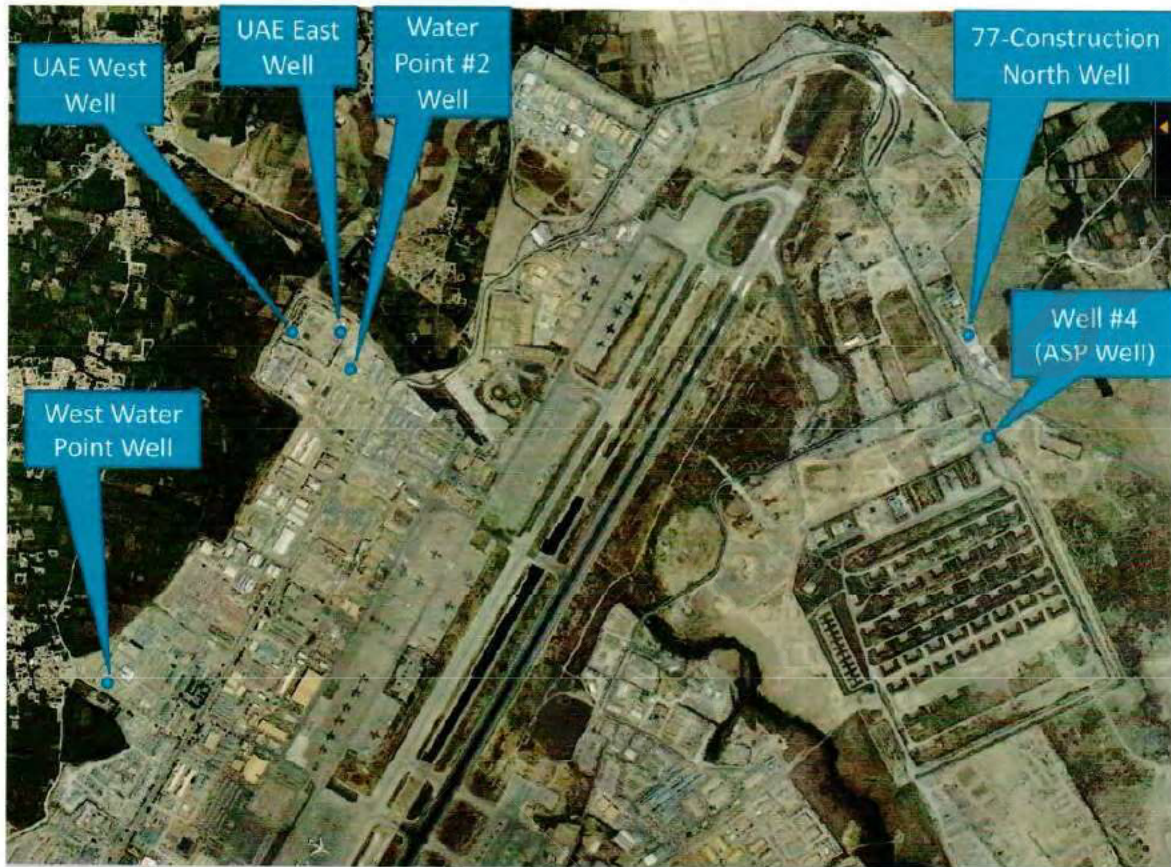
Attachment 1 - Photographs



**Figure 1**  
**Aerial Image of BAF**

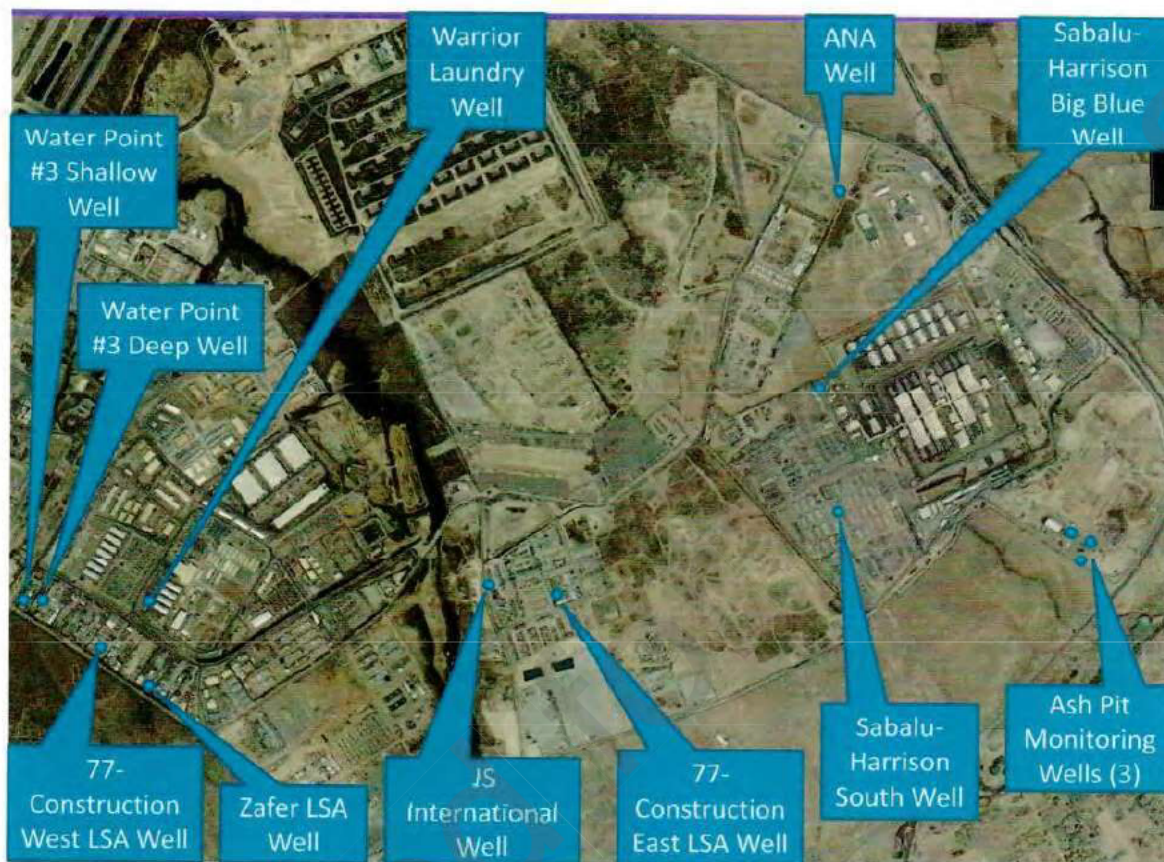


**Figure 2**  
**Water Well Location Map - North**

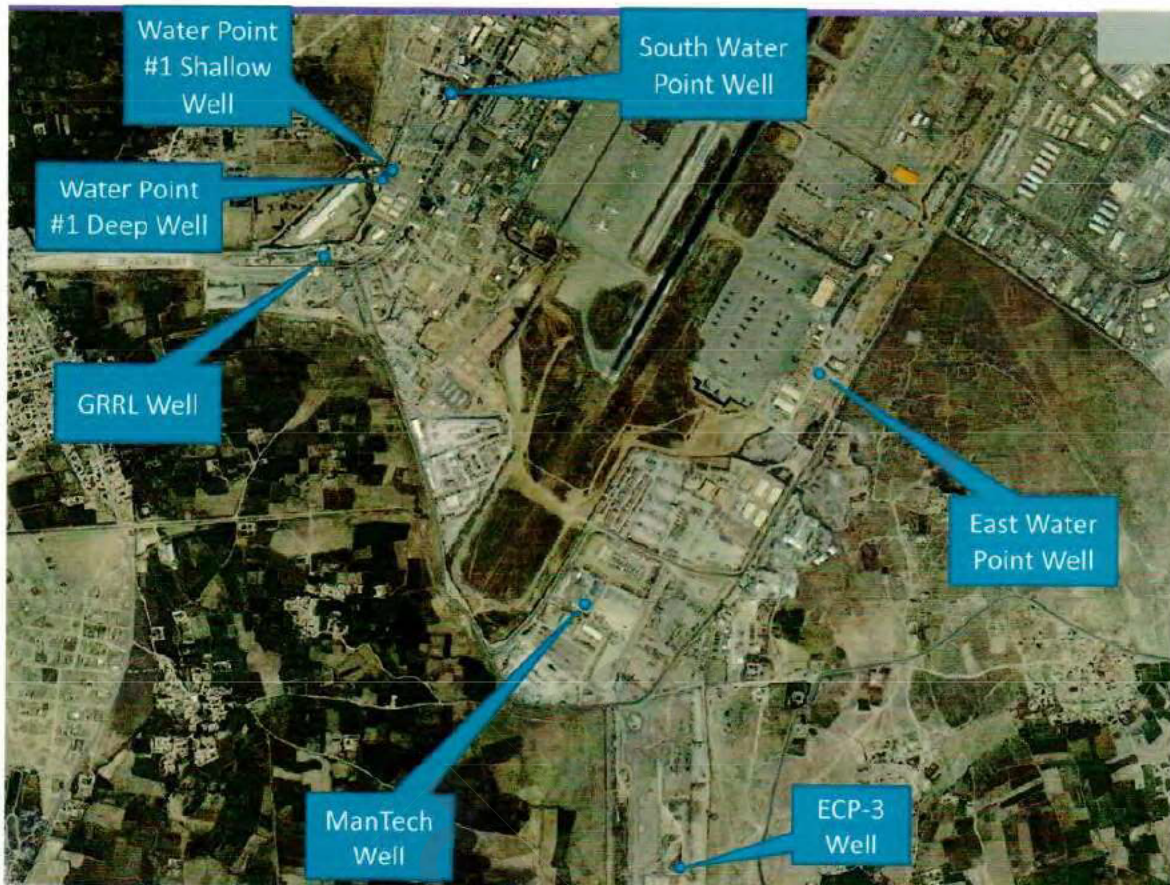




**Figure 3**  
**Water Well Location Map - East**



**Figure 4**  
**Water Well Location Map - South**





**Table 1**  
**Water Well Data**

Well	MGRS	Depth feet	Static Water	Notes
Water Point #1 Shallow	42S WD 22728 66121	---	---	ROWPU installed
Water Point #1 Deep	42S WD 22732 66107	990	---	ROWPU installed 6-inch steel
Water Point #2	42S WD 23835 68108	365	47	10-inch steel
Water Point #3 Shallow	42S WD 24415 65952	---	---	ROWPU installed
Water Point #3 Deep	42S WD 24458 65982	---	---	ROWPU installed
East Water Point	42S WD 24009 65515	420	59	ROWPU installed 12-inch PVC
West Water Point	42S WD 23135 67121	410	64	ROWPU in use 12-inch PVC
South Water Point	42S WD 22939 66344	300	72	10-inch steel
Sabalu-Harrison Big Blue	42S WD 26809 66663	---	---	ROWPU in use 12-inch PVC
Sabalu-Harrison South	42S WD 26847 66281	---	---	---
Warrior Laundry	42S WD 24786 65971	350	51	12-inch PVC
77 Construction North	42S WD 25666 68220	---	---	12-inch steel
77 Construction West LSA	42S WD 24660 65836	---	---	---
77 Construction East LSA	42S WD 25991 66004	---	---	6-inch steel
ANA Well	42S WD 26857 67284	---	---	---
ECP-3 Well House Well	42S WD 23610 64061	---	---	---
Well #4 (ASP Maintenance)	42S WD 25738 67880	---	---	---
Mantech LSA	42S WD 23322 64837	50	---	6-inch steel
Zafer LSA	42S WD 24789 65700	---	---	6-inch steel
JS International	42S WD 25807 66041	---	---	6-inch steel
UAE West	42S WD 23642 68196	---	---	8-inch steel
UAE East	42S WD 23833 68214	---	---	6-inch steel
GRRL Concrete	42S WD 22564 65880	---	---	---
North AP Monitoring Well	42S WD 27583 66211	---	---	4-inch PVC
South AP Monitoring Well	42S WD 27575 66130	---	---	4-inch PVC
East AP Monitoring Well	42S WD 27607 66188	---	---	4-inch PVC

AP = Ash Pit

## Attachment 1 - Photographs



1) Water Point #1 Deep Well



2) Water Point #1 Shallow Well



3) Water Point #2 Well



4) Water Point #3 Deep Well



5) Water Point #3 Shallow Well



6) East Water Point Well





7) West Water Point Well



8) South Water Point Well



9) Sabalu-Harrison Big Blue Well



10) Sabalu-Harrison East Well



11) Warrior Laundry Well



12) 77-Construction North Well





13) 77-Construction West LSA Well



14) 77-Construction East LSA Well



15) ECP-3 Well House Well



16) ANA Well



17) Mantech LSA Well



18) ASP Well





19) Zafer LSA Well



20) GRRL Well



21) JS International Well



22) UAE West Well



23) UAE East Well



24) Ash Pit North Monitoring Well



25) Ash Pit South Monitoring Well



26) Ash Pit East Monitoring Well





UNITED STATES CENTRAL COMMAND  
7115 SOUTH BOUNDARY BOULEVARD  
MacDill Air Force Base, Florida 33621-5101

14 April 2021

TO: Commander, Combined Security Transition Command - Afghanistan

SUBJECT: Request for Assistance in Obtaining Expedited Approval for Export of Hazardous Waste from Afghanistan

1. USCENTCOM requests U.S. Embassy engagement with Afghanistan National Environmental Protection Agency (NEPA), Ministry of Foreign Affairs and Ministry of Finance to obtain assurances of an expedited approval process for the export of Department of Defense (DoD) hazardous waste (HW). Afghanistan has ratified the Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal, of 22 March, 1989, under which Afghanistan must give explicit consent to export DoD waste. All three of these Afghan governmental entities have roles in the export process and were involved in the last DoD export of HW from Afghanistan in 2018-19. The entire process took over one (1) year.

2. Due to the current draw down of U.S. Forces and consolidation of installations in Afghanistan, DoD has accumulated and is storing a significant quantity of HW. The Defense Logistics Agency (DLA) will be awarding a contract to export this waste to Europe in the very near future. The DLA contractor will then be seeking approval from NEPA to initiate the export process, which is a lengthy process that requires consents from all transit countries and the country where the waste will be imported and disposal will take place.

3. There have been indications that NEPA would prefer that DoD use in-country Afghan firms to dispose of wastes. However, DLA conducted a recent assessment of both Afghan laws and the technological capabilities of firms permitted to handle waste and determined that the Afghans do not currently have sufficient laws or regulations governing HW disposal and Afghan firms do not have the technological capabilities to adequately protect human health or the environment from the by-products of HW disposal. Accordingly, in accordance with DoD policies, DLA will be exporting the waste to a country where such regulations and capabilities exist. Upon award of the DLA contract, USCENTCOM will provide the name of the contractor and their timeline for engagement and submission of the request for approval with NEPA.

4. It would be greatly appreciated if we could have a designated Embassy point of contact, prepared to engage with host nation officials as challenges arise when this process begins.

5. The POC for this action is [REDACTED] or DSN:

[REDACTED]

[REDACTED]

[REDACTED]

ROBERT D. HELGESON, SES  
Deputy Director of Logistics and Engineering

**From:**

**To:**

**Cc:**

**Subject:**

**Date:**

**Attachments:**

FW: HW Information Paper

Tuesday, April 20, 2021 3:34:31 PM

[Use of Host Nation Facilities for HW Disposal in Afghanistan.doc](#)

[Hazmat Letter\\_AFG\\_USG.pdf](#)

[\[Non-DoD Source\] RE\\_Malika and Refa Environmental Services.pdf](#)

[471505\\_vol05.pdf](#)

[BSA-ENGLISH-AFG \(1\).pdf](#)

[471522p.pdf](#)

(b)(6)

(b)(5), (b)(6)

Subject: FW: HW Information Paper

ATTORNEY WORK PRODUCT

(b)(5), (b)(6)

(b)(5), (b)(6)

CAUTION: Information contained in this message may be protected by the attorney/client, attorney work product, deliberative process, or other privileges. Do not disseminate further without approval from the Office of the DoD General Counsel.

\*\*\*\* I am currently teleworking full time \*\*\*\*

\*\*\*\* Please use the email address or mobile phone listed above to reach me

\*\*\*\*

-----Original Message-----

(b)(6)

Sent: Friday, April 16, 2021 11:27 AM

(b)(6)

Subject: FW: HW Information Paper

(b)(6) Inputs from (b)(6) I'll start drafting the package for your quick review. I'd like to try and get it into CATMS by COB Tuesday. v/r, (b)(6)

-----Original Message-----

(b)(6)

Sent: Friday, April 16, 2021 8:56 AM

(b)(6)

Subject: HW Information Paper

(b)(6)

Attached is the information paper we discussed yesterday. Also attached is a letter from the Director, Afghanistan National Environmental Protection Agency and an email from the CEO/Owner of the company that inspected the only licensed Treatment, Storage, Disposal Facility (TSDF) in Afghanistan. This company inspected the TSDF several times over the past three years, and if you need them, I can provide inspection checklists and inspection results (letter format) from the inspection company to the TSDF.

I am in no way personally attached to this information paper, so feel free



to cut it up as you feel necessary. I am cc'ing our Deputy Engineer in case I am out of the office.

(b)(6)

Approved for Release



**UNITED STATES CENTRAL COMMAND**

7115 SOUTH BOUNDARY BOULEVARD  
MacDill Air Force Base, Florida 33621-5101

11 May 2021

TO: Deputy Assistant Secretary of Defense, Environment and Energy Resilience

SUBJECT: Request Exception to Standards

Ref: (a) Department of Defense Instruction (DoDI) 4715.05, Environmental Compliance at Installations Outside the United States, Change 2 Effective August 31, 2018.

(b) Department of Defense Manual (DoDM) 4715.05, Overseas Environmental Baseline Guidance Document (OEBGD) Volume 5, Waste, June 29, 2020.

1. Request an exception to standards outlined below. Hazardous waste (HW) must be disposed of before US Force leave Afghanistan. DLA-DS may not be capable of executing a contract in a timely manner, USFOR-A's selected contingency is to request an exception to standards to allow the use of host nation facilities for disposal of DoD-generated HW. As part of the planning process, Kandahar Airfield and Bagram Airfield (BAF) will close prior to POTUS deadline to leave Afghanistan and there are currently 200 barrels of HW has been moved from KAF to a contracted storage facility in Kandahar city for a period of 12 months. The contracted company is also the only company licensed by the National Environmental Protection Agency (NEPA) to dispose of HW in Afghanistan.
2. Afghanistan is in its infancy in formulating regulations to protect the environment, but they have started a licensing process for companies to manage waste, including HW. NEPA has licensed this company and the company has passed third party inspections, from a U.S. company, of their facility near BAF. Although the company has very little experience, the company has processes in place indicating they can properly dispose of our hazardous waste.
3. USCENTCOM requests exceptions to OEBGD standards so that US Forces – Afghanistan can use Host Nation (HN) facilities for the disposal of U.S. hazardous waste (HW). The exceptions are:
  - a. OEBGD, Volume 5, Section 5.9, c through e. NEPA has not published HW regulations that we can evaluate at this time. However, the standard operating procedures from the company do follow standard environmental handling, shipping, storage, treatment, and disposal practices we would normally observe in a facility in the U.S.
  - b. OEBGD, Volume 5, Section 5.9.a.(2) states, "...if wastes are disposed of in the HN, the standards of paragraph 5.9.b have been met and installations contracts and disposal standard are at least as protective as those used by the DLA Disposition Services." DLA requires a physical inspection of a HN facility in addition to the OEBGD requirements in Volume 5, section 5.9.c.(5). Those regulations do not exist and therefore we cannot evaluate the country's environmental program. We do not have the time and personnel capable of inspecting the facility. However, the company has had third party inspections of their Bagram facility and appears to be reliable in their HW processing, storage, treatment, and disposal.
4. The following courses of action were considered:



**UNITED STATES CENTRAL COMMAND**

7115 SOUTH BOUNDARY BOULEVARD

MacDill Air Force Base, Florida 33621-5101

a. DLA contract to export wastes. Contract was awarded at the end of April 2021; dependent on Basel permitting process, which in 2019 took 14 months. Even with assistance from U.S. Embassies, this COA may not meet the planning timeline.

b. Treat the wastes on U.S. bases. Currently being accomplished at BAF, but only small percentage of waste streams can be treated; CJOA-A bases are sending wastes to BAF for disposal.

c. Dispose of wastes at host nation facilities. Exception to standards required.

d. Use NATO support contract. May not be able to meet timeline; NATO prime contractor subcontracts to the host nation disposal facility mentioned above. Exception to standards would be required.

5. The POC for this action is

(b)(6)

(b)(6)

(b)(6)

~~JEFFREY W. DRUSHAL~~  
Major General, U.S. Army  
Director of Logistics and Engineering



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**HEADQUARTERS**  
UNITED STATES FORCES-AFGHANISTAN  
BAGRAM, AFGHANISTAN  
APO AE 09354

RS DCOS-OPS

12 April 2021

MEMORANDUM THRU Engineer Director (ACEN), U.S. Army Central, 1 Gabreski Drive Bldg  
1947, Shaw Air Force Base, SC 29152-5202

FOR Director, J4 Logistics and Engineering, U.S. Central Command, 7115 South Boundary  
Blvd, MacDill AFB, FL 33621-5101

**SUBJECT:** Request Exception to Standards, Justification to Dispose of DoD-Generated  
Hazardous Wastes in Afghanistan

**1. References:**

- a. DoDI 4715.05 Environmental Compliance at Installations Outside the U.S., 31 Aug 18
- b. DoDM 4715.05, Volume 5, Overseas Environmental Baseline Guidance Document:  
Waste, 29 Jun 20

2. In accordance with the above references I have reviewed and concurred with the justification to dispose of DoD-generated hazardous wastes in Afghanistan from Bagram Airfield (Enclosure). Request USCENTCOM J4 concurrence and approval for this action. As part of go to zero planning for hazardous waste disposal, if DLA-DS cannot execute a contract in a timely manner, USFOR-A's selected contingency is to request an exception to standards to allow the use of host nation facilities for disposal of DoD-generated hazardous wastes. Recently, POTUS stated that he did not expect to see U.S. military presence in Afghanistan in 2022. If this occurs, DLA may not be able to award a contract, get the Basel permits and move the hazardous wastes before U.S. forces leave Afghanistan. The following courses of actions are being considered.

- a. DLA contract to export wastes. Contract award expected Jun 21; dependent on Basel permitting process, in 2019 the process took 14 months.
- b. Treat the wastes on U.S. bases. Currently being accomplished at BAF, but only small percentage of wastes can be treated; CJOA-A bases are sending wastes to BAF for disposal.
- c. Dispose of wastes at host nation facilities. Exception to standards required; modification of current ASG contract required.
- d. Use NSPA contract. May not be able to meet timeframe; NSPA subcontracts to a host nation disposal facility, Malika and Refa Environmental Solutions (M&R), exception to standards may be required.
- e. Abandon the wastes when U.S. forces leave. Document in environmental handover certificate.

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RS DCOS-OPS

SUBJECT: Request Exception to Standards, Justification to Dispose of DoD-Generated Hazardous Wastes in Afghanistan

3. In accordance with DoDI 4715.05, Section 7.a.(2) and 7.d. of Enclosure 3, the following items are provided as justification for the exception to standards request. This request is in anticipation of the order to close CJOA-A installations in 2021.

a. The National Environmental Protection Agency and the only licensed host nation hazardous waste disposal company, Malika and Refa Environmental Solutions, lack the experience in hazardous waste management and disposal. Therefore, USFOR-A is requesting an exception to standards for disposal of DoD-generated hazardous wastes in Afghanistan. M&R minimally maintains the capability, but does not have the experience to meet the hazardous waste treatment requirements of DoDM 4715.05, Volume 5, Overseas Environmental Baseline Guidance Document for waste disposal.

b. This request is being made for only the time period to close CJOA-A bases, should that occur prior to the execution of DLA's hazardous waste contract.

c. USFOR-A has weighed the risks of using a host nation facility against the risk of abandoning the wastes. If wastes are abandoned, it is unknown what will happen to them. Once U.S. forces leave, the wastes will be available for exploitation, resulting in probable release to the environment and exposure to Afghan personnel who do not understand how to protect themselves from the hazards of the wastes. This would most likely result in exposure and negative impacts to human health and the environment. These conditions create future liability and bad press to the U.S. Government, not to mention, may damage the U.S. relationship with Afghanistan.

d. USFOR-A is actively reducing the amount of hazardous wastes by conducting on-site treatment of a portion of wastes at Bagram Airfield. However, this only reduces certain wastes, as the capability does not exist on-site to treat all of the multiple waste streams. In addition, the other CJOA-A bases do not have this capability, and are sending all of their hazardous wastes to Bagram for disposal. The goal is to have all hazardous wastes at one location, Bagram, designated for final disposal.

4. Enclosed is the assessment and full justification for this request. The point of contact is

(b)(6)

ET/CI

(b)(6)

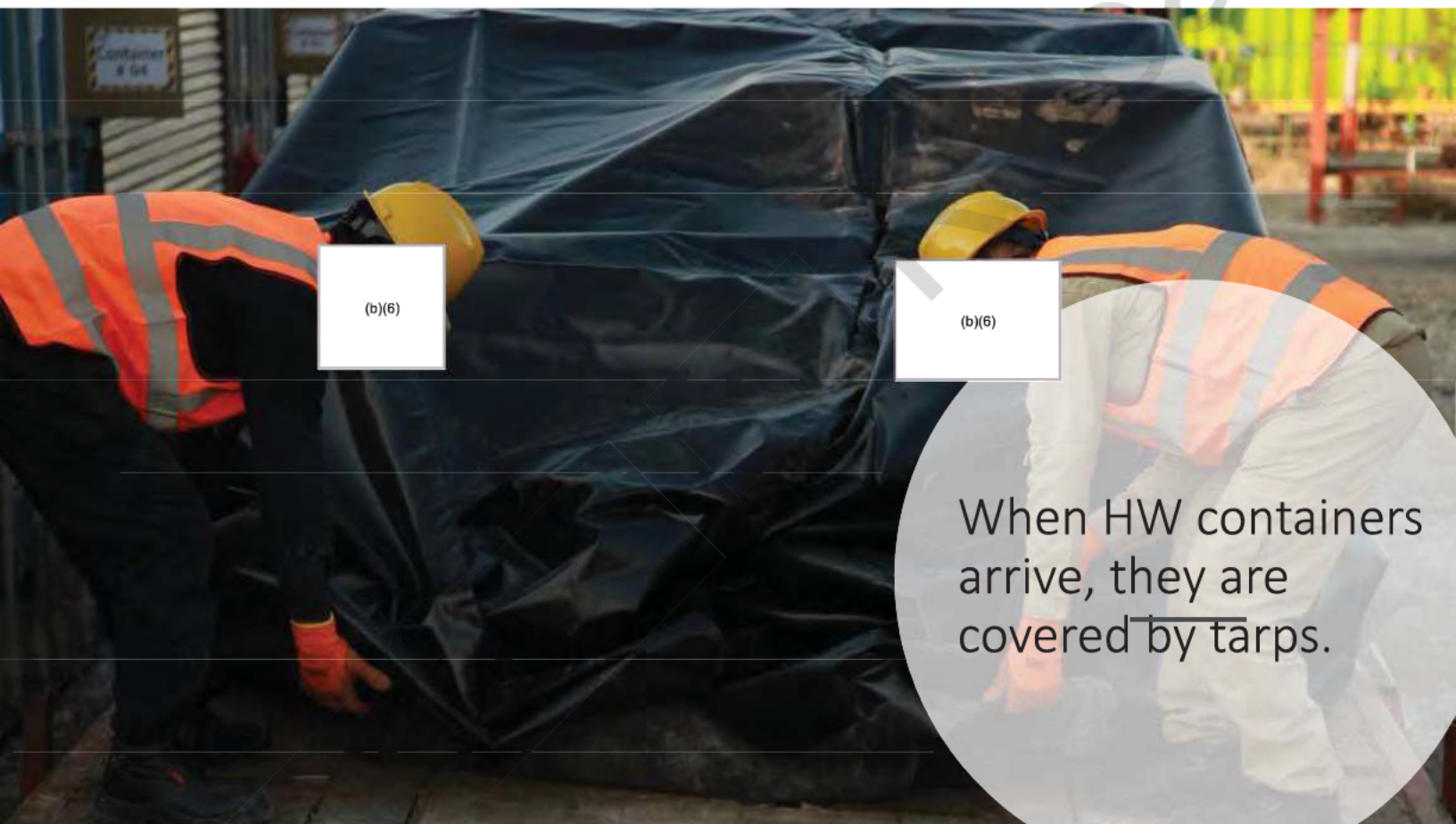
JOSEPH A. RYAN  
Brigadier General, U.S. Army  
Deputy Chief of Staff-Operations  
Resolute Support Mission-Afghanistan





## HM Arrives a M&R Site

Operator ground guides truck into place







After the containers are uncovered, the manifest is checked to determine the types of HW that has arrived









Offloading of the  
HW containers  
begins









The HW container is prepared for shipment



The Container is loaded to a flatbed truck for movement.



The flatbed truck relocates the HW container to a recycling or disposal site depending on the type of waste materials. The driver has MSDS sheets, shipping manifests, and all required permits to move the HW properly and safely.





Storage Area #6:  
full containment  
and ventilation and  
protective  
overhead cover.







The protective covering is removed from the drums to prepare for downloading





The HW tracking labels are placed on the drums







The pallets are placed in Storage area #6.



50 lb. fire  
extinguishers are  
located at each  
storage area and  
other strategic  
locations  
throughout the  
facility





(b)(6)

Storage area is  
closed and  
secured

End 12

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<b>CTR-04 Contract Visibility Report</b>												
Generated On: 2020-12-25 07:08:14												
COCOM: USAFRICOM, USCENTCOM, USEUCOM, USINDOPACOM, USNORTHCOM, USSOUTHCOM												
Country: Afghanistan												
Contracting Office: All												
Contract Status: Active												
Contract or Task Order	Contract											
COCOM	Contracting Agency	Contract Number	Contract Period of Performance Start Date	Contract Period of Performance End Date	Contract Category (NAICS Code)	Contract Place of Performance Country	Awarded Competitively?	Current Deployments	Historical Deployments	Contracting Office	Prime Contractor Company	
USCENTCOM	DA [Dept. of the Army]	W91B4N-20-P-5029	2020-03-12	2023-03-11	562111 - Solid Waste Collection	Afghanistan (AFG)	Yes	No	No	RCC East [RCC East]	Malika and Refa Environmental Solutions (Malika and Refa Envi)	
USCENTCOM	DA [Dept. of the Army]	W91B4N-20-P-2008	2019-12-28	2021-12-27	562991 - Septic Tank and Related Services	Afghanistan (AFG)	Yes	No	No	RCC East [RCC East]	Malika and Refa Environmental Solutions (Malika and Refa Envi)	
USCENTCOM	DA [Dept. of the Army]	W91B4N-17-P-5006	2017-02-06	2021-02-05	562111 - Solid Waste Collection	Afghanistan (AFG)	Yes	Yes	Yes	RCC East [RCC East]	Malika and Refa Environmental Solutions (Malika and Refa Envi)	
USCENTCOM	DA [Dept. of the Army]	W91B4N-17-C-5000	2019-09-01	2022-08-31	562219 - Other Nonhazardous Waste Treatment and Disposal	Afghanistan (AFG)	Yes	No	No	RCC East [RCC East]	Malika and Refa Environmental Solutions (Malika and Refa Envi)	



## Joint Contingency Contracting System

john.c.urban.civ@mail.mil Logout

Home  
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### Vendor Search

Search for a Company

Company Name

Search for:

MALIKA AND REFA ENVIRONMENTAL SOLUTIONS

Search

Advance Search

### Vendor(s) found 1

Search: <input type="text"/>										
Vendor ID	Primary ID	Cage	Duns	Company	Country	POC Email	Vendor Rating	Rating Expiration	Vendor Vetting Status	Source
97248	Y	3QRC2	850512572	Malika and Refa Environmental Solutions	Afghanistan	(b)(6)	Acceptable	10/30/2022	Rated	

For Official Use Only

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# Registration Certificate

This is to certify that the  
Environmental Management System  
of

**MALIKA & REFA ENVIRONMENTAL SOLUTIONS**

**House# 432, Street# 08, Qalai Fathullah, Kabul, Afghanistan.**

Has been assessed and conforms to:

**ISO 14001:2015**

Applicable to Following Scope:

**Storage, Transportation, Recycling & Disposal of Hazmat, Solid Waste  
& Septic Waste Services.**

**Certificate Number: EMS-61R2050083**

**Initial Certification Date: 10/12/2020**

**1<sup>st</sup> Surveillance Due on: 10/12/2021**

**2<sup>nd</sup> Surveillance Due on: 10/12/2022**

**Expire Date: 10/12/2021**

**Re-Certification Date: 10/12/2023**



**ACCREDITED  
Management System  
Certifications  
Body**

*Demmy Esther*  
Certification Manager

**Deutsche Accreditation Service for Certifying Bodies (DASCB)**

A1: 112B, High Street, Barry, Vale of Glamorgan, CF62 - 7DT, United Kingdom.

A2: Farrington Road, Kiki Street, Nassau, Bahamas.

Email: [info@dascb.co.uk](mailto:info@dascb.co.uk), Website: [www.dascb.co.uk](http://www.dascb.co.uk)

The client is requested to check the certificate details and validity at our website [www.dascb.co.uk](http://www.dascb.co.uk) under the heading of registration details by entering their certificate number and inform us in case of any discrepancy at our above email id: [info@dascb.co.uk](mailto:info@dascb.co.uk).

Page 55 redacted for the following reason:

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Page 56 redacted for the following reason:

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**HEADQUARTERS**  
**UNITED STATES FORCES-AFGHANISTAN**  
**BAGRAM, AFGHANISTAN**  
**APO AE 09354**

USFOR-A JENG

11 June 2021

MEMORANDUM FOR USCENTCOM CCJ4

SUBJECT: Transfer of Items Containing Radioactive Materials, Bagram Airfield

1. On 8 Jun 21 several items containing radioactive materials were discovered inside a locked storage container in the Bagram FRE yard that was operated by a LOGCAP contractor. The contractor had retrograded. It appears the storage container was being used as a receipt area for radioactive materials, as there were logbooks and containers marked with radioactive labels. There are a total of 27 items containing low-level radioactive material, all which appear to be U.S., except two warhead casings of Soviet origin. As confirmed by Explosive Ordnance Disposal personnel, the warhead casings (approximately 10" L x 5" W) did not contain any explosives or depleted uranium (DU), however they contained residual radioactive contamination from the DU. The U.S. items included sealed radioactive sources in the following equipment: aircraft ice detector, SABRE 2000, range indicator artillery sights, sextants, gunner's quadrant, telescope and aiming posts. Enclosure 1 contains the inventory of materials.

2. The Bagram Radiation Safety Officer (RSO) surveyed all the materials, along with the inside and outside of the storage container. There was no radiological contamination inside or outside of the container, so no environmental remediation is needed. The RSO has coordinated transfer of these items to Air Force Radioactive Recycling and Disposal (AFRRAD) at Wright-Patterson Air Force Base, Ohio. In accordance with the Title 10 of the Code of Federal Regulations and Air Force Manual 40-201, Radioactive Materials Management, AFRRAD is authorized receipt of these radioactive materials pursuant to their radioactive material permit. Enclosure 2 contains the AFRRAD authorization memo along with the necessary instructions for packaging, labeling and shipping these materials to Wright-Patterson Air Force Base. AFRRAD has provided the shipping authorization to use a transportation account code to fund the shipment (see Enclosure 3).

3. Upon CENTCOM/OSD approval, I will expedite shipment of these materials to AFRRAD. The point of contact is the undersigned at (b)(6)

**3 Enclosures**

1. Inventory of Radioactive Materials
2. AFRRAD Authorization, 10 Jun 21
3. AFRRAD Shipping Approval, 11 Jun 21

(b)(6)



Enclosure 1: Inventory of Items Containing Radioactive Material

Description	Isotope	Qty	Activity Each (mCi)	Activity Each (TBq)	Total Activity (mCi)	Total Activity (TBq)
Ice Detector	Sr-90	1	5.00E-02	1.85E-06	5.00E-02	1.85E-06
SABRE 2000	Ni-63	2	1.50E+01	5.55E-04	3.00E+01	1.11E-03
Warhead Casing	DU	2	1.00E-05	3.70E-10	2.00E-05	7.40E-10
Range Indicator	H-3	5	5.00E+03	1.85E-01	2.50E+04	9.25E-01
Possibly artillery sights	H-3	2	5.00E+03	1.85E-01	1.00E+04	3.70E-01
Sextant	H-3	1	7.50E+02	2.78E-02	7.50E+02	2.78E-02
Sextant	H-3	1	7.00E+02	2.59E-02	7.00E+02	2.59E-02
Gunner's Quadrant	H-3	3	7.50E+01	2.78E-03	2.25E+02	8.33E-03
Panoramic Telescope	H-3	1	5.10E+03	1.89E-01	5.10E+03	1.89E-01
Aiming Post	H-3	4	5.00E+03	1.85E-01	2.00E+04	7.40E-01
Aiming Post	H-3	4	9.00E+03	3.33E-01	3.60E+04	1.33E+00
Elbow, TC8CP	H-3	1	8.00E+02	2.96E-02	8.00E+02	2.96E-02

Isotope	Total Activity (mCi)	Highest Article Activity (TBq)	Total Activity (mCi)	Total Activity (TBq)	Item Limit (TBq)	Package Limit (TBq)	Unity
Sr-90	5.00E-02	1.85E-06	5.00E-02	1.85E-06	3.00E-03	3.00E-01	-3.00E-01
Ni-63	3.00E+01	5.55E-04	3.00E+01	1.11E-03	3.00E-01	3.00E+01	-3.00E+01
DU	2.00E-05	3.70E-10	2.00E-05	7.40E-10	Unlimited	Unlimited	Unlimited
H-3	9.86E+04	3.33E-01	9.86E+04	3.65E+00	8.00E-01	8.00E+00	-4.35E+00