### **Appendix A**

Intergovernmental Coordination,
Public and Agency
Participation

## Government-to-Government Coordination / Consultation



#### DEPARTMENT OF THE AIR FORCE 87TH AIR BASE WING (AMC) JOINT BASE MCGUIRE-DIX-LAKEHURST, NJ

Carl Champion Installation Tribal Liaison Officer 2404 Vandenberg Avenue Joint Base MDL, NJ 08641

Delaware Tribe of Indians Director, Delaware Tribe Historic Preservation Office Roosevelt Hall, Room 212 1200 Commercial Street Emporia, KS 66801

Attn: Dr. Brice Obermeyer, Tribal Historic Preservation Officer

The U.S. Air Force (USAF) is in the process of preparing an Environmental Assessment (EA) evaluating potential environmental impacts associated with the implementation of Afghan Special Immigrant (ASI) Beddown Support at Joint Base McGuire-Dix-Lakehurst (JB MDL) (Proposed Action). The EA will be prepared in compliance with the National Environmental Policy Act (NEPA), the regulations of the President's Council on Environmental Quality (CEQ) that implement NEPA, and the USAF's Environmental Impact Analysis Process. The EA will consider the potential consequences to human health and the natural environment.

Due to the humanitarian crisis unfolding in Afghanistan, the U.S. Government is preparing to temporarily shelter Afghan Special Immigrants (AFIs) who have assisted the U.S. and allies in Afghanistan for the past 20 years and who are at high risk due to the increasingly unstable and deteriorating security situation caused by insurgent Taliban operations in Afghanistan. The USAF is in cooperation with the Department of State (DoS) to facilitate the temporary shelter of ASIs on DoD land. As part of the Proposed Action, the Air Force would support this humanitarian response by providing temporary shelter for up to approximately 10,000 ASIs at JB MDL.

The Proposed Action includes providing temporary housing in existing facilities (contingency barracks) for up to 4,970 ASIs and to provide and prepare temporary living quarters for up to 4,500 ASIs on a 26.4-acre parcel on JB MDL currently used as a parade field. Evacuees would be sheltered in a tent city on the parade field supported by portable hygiene, electric generation, and potable water facilities for a minimum of 6 months. Department of State agency staff and temporary construction staff will also support the Proposed Action. No ground disturbance is anticipated as part of the Proposed Action.

For the Proposed Action, the 26-acre parade field constitutes the Area of Potential Effect (APE) (see Attachment 1). No historic properties are located within or adjacent to the APE. The APE has been in use as a parade field since World War I and was assessed as not eligible for the National Register of Historic Places (NRHP) during a 2013 Section 110 Eligibility Assessment Survey of Pre-1967 Resources (TetraTech 2013 [BUR AA 892]). The APE is 1,490 feet from the nearest permanent watercourse or wetland, and no map-documented eighteenth or nineteenth century roadways are located adjacent. No prehistoric or historic archaeological sites have been identified within or adjacent to the APE. One prehistoric archaeological site (28BU674) is located within 0.5 miles of the APE. Site 28BU674 has not been evaluated for NRHP eligibility. Previous cultural resources surveys identified one NRHP eligible archaeological historic district, the Pointville Archaeological Historic District, within 0.8 miles of the APE, which is composed of four historic archaeological sites dating to the nineteenth century. The APE is rated as low sensitivity for prehistoric and historic archaeological resources.

1

One architectural historic district, the Scott Plaza Family Housing Historic District, is located within 0.5 miles of the APE. The historic district consists of 15 red brick Colonial Revival and Georgian Revival buildings constructed during the pre-World War II mobilization period of 1938-1939 (5412-5423, 5425) eligible for the NRHP under criteria (a) and (c). The construction of the Scott Plaza complex established the future of Camp Dix as a permanent Army installation. No NRHP eligible or listed buildings, structures, or objects are located within, adjacent to, or within the viewshed of the APE.

Based on the proposed work, the enclosed information, and the Criteria of Effect as noted in 36 CFR 800.4, JB MDL has determined that no historic properties will be affected by the Proposed Action. Pursuant to 36 CFR § 800.3, USAF is seeking your input on this Proposed Action so that you may have an opportunity to comment on cultural resources and/or other concerns regarding the Proposed Action and the proposed Areas of Potential Effect. Because this Proposed Action would implement a time-sensitive initiative, environmental analysis and associated consultation must be completed in a short time period. Your feedback is important and a response as soon as possible after receipt of this letter would enable us to ensure that your concerns are fully considered in our evaluation.

Please send your written responses to me at <u>carl.champion.1@us.af.mil</u> and I will coordinate responses with our environmental compliance program staff. Thank you in advance for your participation.

Sincerely,

CHAMPION.CARL Digitally signed by CHAMPION.CARL.E.JR.11860386

2. Date: 2021.08.19 13:27:37 -04'00'

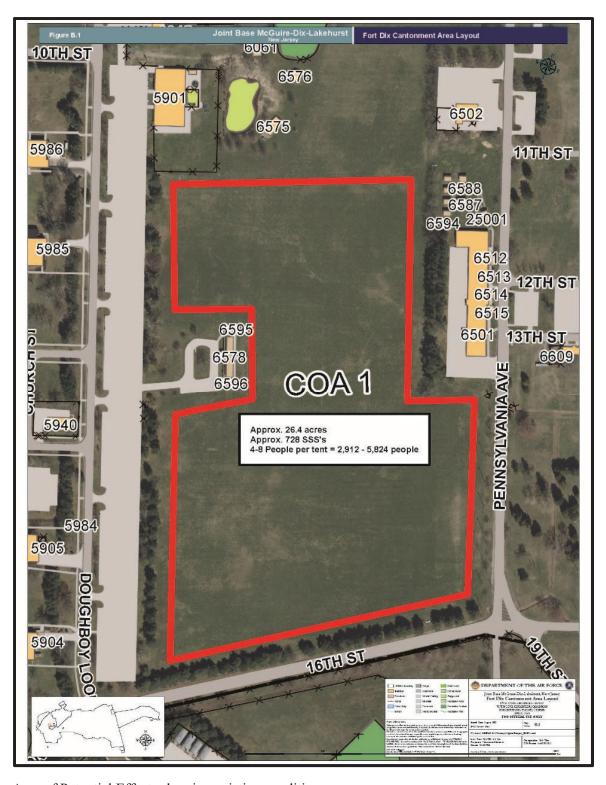
CARL CHAMPION, GS-13, DAF Supervisory Environmental Engineer Installation Tribal Liaison Officer

#### Attachment:

1. Proposed Areas of Potential Effect



Dix Cantonment showing the location of the Area of Potential Effects.



Area of Potential Effects showing existing conditions.



#### DEPARTMENT OF THE AIR FORCE 87TH AIR BASE WING (AMC) JOINT BASE MCGUIRE-DIX-LAKEHURST, NJ

Carl Champion Installation Tribal Liaison Officer 2404 Vandenberg Avenue Joint Base MDL, NJ 08641

Delaware Nation P.O. Box 825 Anadarko, OK 73005

Attn: Erin Paden, Director of Cultural Resources & Section 106

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The Proposed Action includes providing temporary housing in existing facilities (contingency barracks) for up to 4,970 ASIs and to provide and prepare temporary living quarters for up to 4,500 ASIs on a 26.4-acre parcel on JB MDL currently used as a parade field. Evacuees would be sheltered in a tent city on the parade field supported by portable hygiene, electric generation, and potable water facilities for a minimum of 6 months. Department of State agency staff and temporary construction staff will also support the Proposed Action. No ground disturbance is anticipated as part of the Proposed Action.

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CHAMPION.CARL. Digitally signed by CHAMPION.CARL.E.JR.1186038602

E.JR.1186038602

Date: 2021.08.19 13:17:41 -04'00'

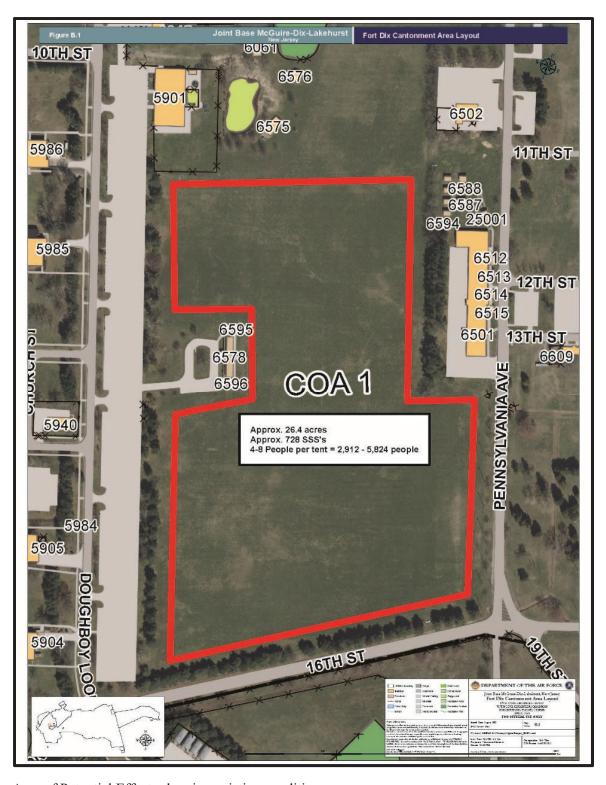
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# Historic Preservation Coordination / Consultation



Sharon D. White, Ph.D.
Cultural Resources Manager, JB MDL
787 CES/CEIEA
2404 Vandenberg Ave
Joint Base McGuire Dix Lakehurst, NJ 08641

Katherine Marcopul, Ph.D. Mail Code 501-04B State of New Jersey Department of Environmental Protection Historic Preservation Office PO Box 420 Trenton, NJ 08625

#### Dr. Marcopul:

The U.S. Air Force (USAF) is in the process of preparing an Environmental Assessment (EA) evaluating potential environmental impacts associated with the implementation of Afghan Special Immigrant (ASI) Beddown Support at Joint Base McGuire-Dix-Lakehurst (JB MDL) (Proposed Action). The EA will be prepared in compliance with the National Environmental Policy Act (NEPA), the regulations of the President's Council on Environmental Quality (CEQ) that implement NEPA, and the USAF's Environmental Impact Analysis Process. The EA will consider the potential consequences to human health and the natural environment.

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Please send your written responses to me at <u>sharon.white.7@us.af.mil</u> and I will coordinate responses with our environmental compliance program staff. Thank you in advance for your participation.

Sincerely,

WHITE.SHARON. Digitally signed by WHITE.SHARON.D.1567708388 Date: 2021.08.19 11:42:15 -04'00

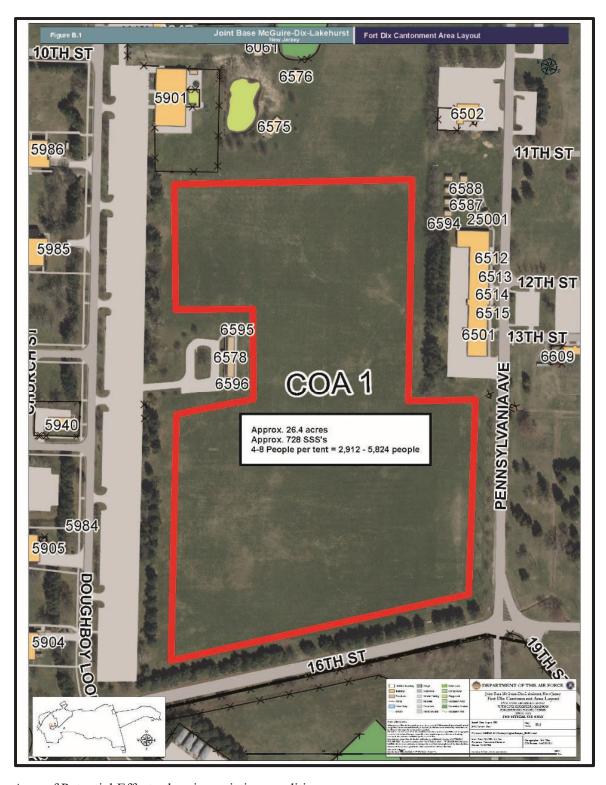
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#### DEPARTMENT OF THE AIR FORCE HEADQUARTERS AIR MOBILITY COMMAND JOINT BASE MCGUIRE-DIX-LAKEHURST

21-1569-1 1490-142021-106

Sharon D. White, Ph.D. Cultural Resources Manager, JB MDL 787 CES/CEIEA 2404 Vandenberg Ave Joint Base McGuire Dix Lakehurst, NJ 08641

NJ HISTORIC PRESERVATION OFFICE

AUG 1 9 2021

RECEIVED

Katherine Marcopul, Ph.D.
Mail Code 501-04B
State of New Jersey
Department of Environmental Protection
Historic Preservation Office
PO Box 420
Trenton, NJ 08625

#### Dr. Marcopul:

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WHITE.SHARON, Digitally signed by WHITE.SHARON.D.1567708388 Date: 2021.08.19 11:42:15 -04'00'

Sharon D. White, Ph.D. Cultural Resources Manager 787<sup>th</sup> Civil Engineer Squadron

#### Attachment:

1. Proposed Areas of Potential Effect

CONCUR

Katherine J. Marcopul

Deputy State Historic Preservation Officer

# Biological Coordination / Consultation



### **DEPARTMENT OF THE AIR FORCE**HEADQUARTERS AIR MOBILITY COMMAND JOINT BASE MCGUIRE-DIX-LAKEHURST

Ms. Catherine Brunson NEPA/EIAP Project Manager 787 CES/CEIEA 2404 Vandenberg Avenue Joint Base McGuire-Dix-Lakehurst, NJ 08641

United States Fish and Wildlife Service New Jersey Field Office, Ecological Services 4 East jimmie leeds Road, Unit 4 Galloway, NJ 08205

Attn: Endangered Species Act Consultation,

In accordance with the National Environmental Policy Act (NEPA) of 1969, the Council on Environmental Quality regulations, and the U.S. Air Force (USAF) NEPA regulations, USAF is preparing an Environmental Assessment (EA) to evaluate the potential environmental impacts associated with the implementation of Afghan Special Immigrant (ASI) Beddown Support at Joint Base McGuire-Dix-Lakehurst (JB MDL) (Proposed Action). The EA will be prepared in compliance with the National Environmental Policy Act (NEPA), the regulations of the President's Council on Environmental Quality (CEQ) that implement NEPA, and the USAF's Environmental Impact Analysis Process. The EA will consider the potential consequences to human health and the natural environment.

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If you have information regarding potential impacts of the Proposed Action on the human environment, which includes the natural and physical environment or other environmental aspects of which we are unaware, we would appreciate receiving such information for inclusion and consideration during the NEPA compliance process. We look forward to and welcome your

participation in this process. Please respond within 30 days of receipt of this letter to ensure your concerns are adequately addressed in the EA.

Please send your written responses to the JB MDL NEPA/Environmental Impact Analysis Process (EIAP) Project Manager, Ms. Catherine Brunson, 787 CES/CEIEA, via email at catherine.brunson@us.af.mil. Thank you in advance for your participation.

Sincerely

BRUNSON.C Digitally signed by BRUNSON.CATHERIN ATHERINE.E. E.E.1091059890

1091059890 Date: 2021.08.19 09:31:37 -04'00'

CATHERINE BRUNSON, USAF JB MDL, NEPA/EIAP Project Manager

Attachment:

Description of the Proposed Action and Alternatives



### **DEPARTMENT OF THE AIR FORCE**HEADQUARTERS AIR MOBILITY COMMAND JOINT BASE MCGUIRE-DIX-LAKEHURST

Ms. Catherine Brunson NEPA/EIAP Project Manager 787 CES/CEIEA 2404 Vandenberg Avenue Joint Base McGuire-Dix-Lakehurst, NJ 08641

Megan Brunatti
Supervisor of Environmental Review
New Jersey Department of Environmental Protection
Office of Permit Coordination and Environmental Review
401 East State Street
Mail Code 401-07J
PO Box 420
Trenton, NJ 08625

Dear Ms. Brunatti,

In accordance with the National Environmental Policy Act (NEPA) of 1969, the Council on Environmental Quality regulations, and the U.S. Air Force (USAF) NEPA regulations, USAF is preparing an Environmental Assessment (EA) to evaluate the potential environmental impacts associated with the implementation of Afghan Special Immigrant (ASI) Beddown Support at Joint Base McGuire-Dix-Lakehurst (JB MDL) (Proposed Action). The EA will be prepared in compliance with the National Environmental Policy Act (NEPA), the regulations of the President's Council on Environmental Quality (CEQ) that implement NEPA, and the USAF's Environmental Impact Analysis Process. The EA will consider the potential consequences to human health and the natural environment.

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BRUNSON.CAT Digitally signed by BRUNSON.CATHERINE.E.

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Date: 2021.08.19
09:32:22 -04'00'

CATHERINE BRUNSON, USAF JB MDL, NEPA/EIAP Project Manager

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Ms. Catherine Brunson NEPA/EIAP Project Manager 787 CES/CEIEA 2404 Vandenberg Avenue Joint Base McGuire-Dix-Lakehurst, NJ 08641

Nancy Wittenberg, Executive Director New Jersey Pinelands Commission PO Box 359 15 Springfield Road New Lisbon, NJ 08064

Dear Ms. Wittenberg,

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BRUNSON.C Digitally signed by BRUNSON.CATHERIN E.E. 1091059890 Date: 2021.08.19 09:32:03 -04'00'

CATHERINE BRUNSON, USAF JB MDL, NEPA/EIAP Project Manager

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Description of the Proposed Action and Alternatives



#### United States Department of the Interior

#### FISH AND WILDLIFE SERVICE



In reply refer to: 2020-I-1510

New Jersey Field Office 4 E. Jimmie Leeds Road, Suite 4 Galloway, New Jersey 08205 Tel: 609/646 9310 www.fws.gov/northeast/njfieldoffice/

August 20, 2021

Ms. Catherine Brunson NEPA/EIAP Project Manager 787 CES/CEIEA 2404 Vandenberg Avenue Joint Base McGuire-Dix-Lakehurs

Joint Base McGuire-Dix-Lakehurst, New Jersey 08641

Email: catherine.brunson@us.af.mil

**Reference:** Afghan Special Immigrant Beddown Support at Fort Dix Doughboy Field (26.4-Acre Parcel), Joint Base McGuire-Dix-Lakehurst, Burlington County, New Jersey

The U.S. Fish and Wildlife Service (Service) has reviewed the above-referenced proposed project pursuant to the Endangered Species Act of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) (ESA) to ensure the protection of federally listed endangered and threatened species. The following comments do not address all Service concerns for fish and wildlife resources and do not preclude separate review and comment by the Service as afforded by other applicable environmental legislation.

A known occurrence or potential habitat for the following federally-listed or proposed-listed species is located on or near the project's action area. However, the Service concurs that the proposed project is not likely to adversely affect federally-listed or proposed-listed species for the reasons listed below.

Species	<b>Basis for Determination</b>
Northern long-eared bat (Myotis septentrionalis), threatened	The Doughboy Field lacked
(4d)	wetlands and suitable habitat for all
Bog turtle (Clemmys muhlenbergii), threatened	listed species. All adverse effects are
Knieskern beaked-rush (Rhynchospora knieskernii), threatened	insignificant and/or discountable.
Swamp pink ( <i>Helonias bullata</i> ), threatened	
American chaffseed (Aeschynomene virginica), endangered	

Except for the above-mentioned species, no other federally listed or proposed threatened or endangered flora or fauna under Service jurisdiction are known to occur within the proposed project's impact area. Therefore, no further consultation pursuant to the ESA is required. If additional information on federally listed species becomes available, or if project plans change, this determination may be reconsidered.

Please refer to this office's web site at <a href="http://www.fws.gov/northeast/njfieldoffice/Endangered/">http://www.fws.gov/northeast/njfieldoffice/Endangered/</a> for further information including federally listed and candidate species lists, procedures for requesting ESA review, the National Bald Eagle Management Guidelines, and contacts for obtaining information from the New Jersey Natural Heritage and Endangered and Nongame Species Programs regarding State-listed and other species of concern.

Reviewing Biologist:	Ronald Popowski
Authorizing Supervisor:	Eric Schrading, Field Supervisor

nltaa.doc 11/12/2020

From: Davis, Kelly [DEP]

To: STEVENSON, MARK W GS-13 USAF AMC 787 CES/CEIEA

Subject: [Non-DoD Source] RE: Map of Doughboy Field Date: Thursday, August 19, 2021 9:50:47 AM

Attachments: image001.png

image002.png image003.png image004.png image005.png image006.png

#### Mark,

The NJ Division of Fish & Wildlife would not expect any significant impact to Fish and Wildlife resources from the proposed use "Doughboy Field" for the Proposed Action to support the Administration directive [CITATION] for inter-U.S. government noncombatant evacuation operations (NEO) of foreign nationals from Afghanistan.

If you need more than this please let me know' Kelly



#### **Kelly Davis**

Prin. Biologist - Fisheries

NJ Division of Fish and Wildlife

Office Of Environmental Review

PO Box 420 - Mail Code 501-03

Trenton, NJ 08625 Phone: 609.960.4502









Managing Your Fish and Wildlife Since 1892

From: STEVENSON, MARK W GS-13 USAF AMC 787 CES/CEIEA <mark.stevenson.16@us.af.mil>

**Sent:** Thursday, August 19, 2021 9:35 AM **To:** Davis, Kelly [DEP] <Kelly.Davis@dep.nj.gov> **Subject:** [EXTERNAL] FW: Map of Doughboy Field

Morning Kelly,

Thanks for your time on this APPRECIATEIT!!

#### Mark

From: BRUNSON, CATHERINE E GS-12 USAF AMC 787 CES/CEIEA < catherine.brunson@us.af.mil>

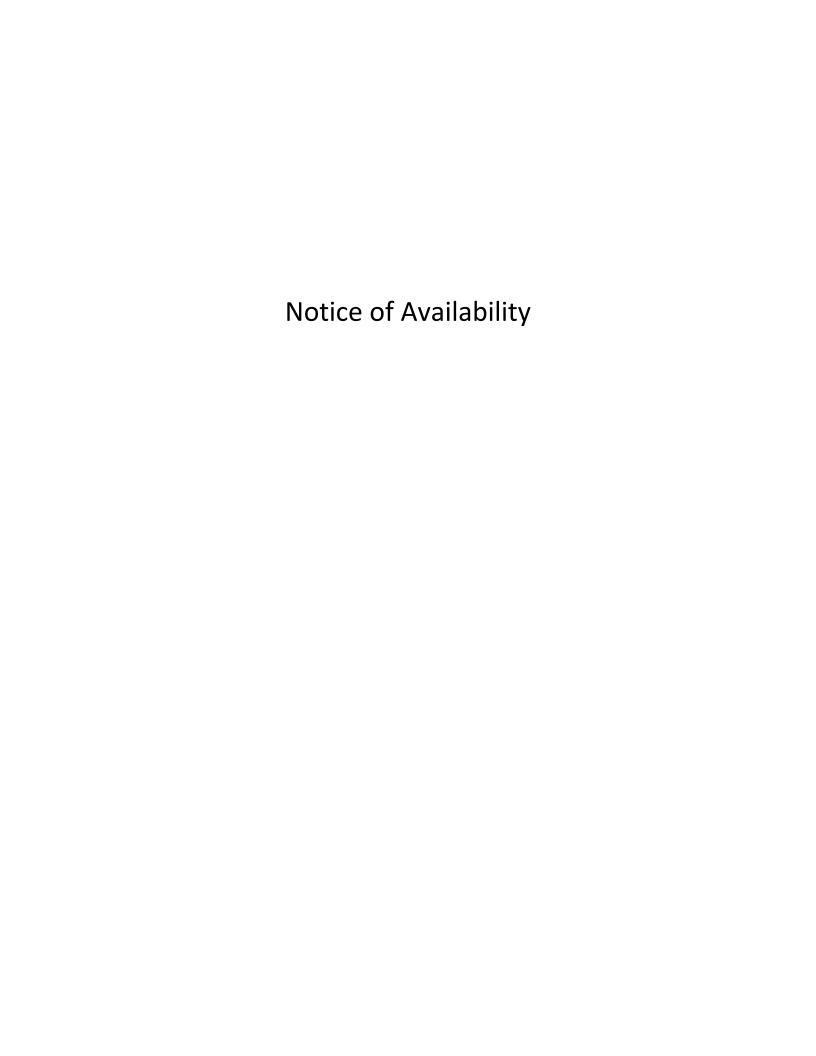
Sent: Thursday, August 19, 2021 9:31 AM

To: STEVENSON, MARK W GS-13 USAF AMC 787 CES/CEIEA < mark.stevenson.16@us.af.mil >

Subject: Map of Doughboy Field

See attached. From the draft DOPAA.

Scoping letters incoming.



# NOTICE OF AVAILABILITY DRAFT ENVIRONMENTAL ASSESSMENT Temporary Shelter of Afghan Special Immigrants at Joint Base McGuire-Dix-Lakehurst, New Jersey

The U.S. Air Force (USAF) has prepared a Draft Environmental Assessment (EA) and Draft Finding of No Significant Impact (FONSI) pursuant to the provisions of the National Environmental Policy Act of 1969 (NEPA), the Council on Environmental Quality (CEQ) regulations for implementing NEPA (40 Code of Federal Regulations [CFR] §§ 1500-1508), and 32 CFR § 989, as amended, "Environmental Impact Analysis Process". The Draft EA evaluates the potential for environmental impacts associated with the Proposed Action of mobilizing temporary shelter facilities for Afghan Special Immigrants (ASIs) within the Burlington County portion of Joint Base McGuire-Dix-Lakehurst (JB MDL) /Fort Dix.

The Proposed Action is in accordance with a Presidential authorization and Joint Staff issued *Planning Order (PLANORD) for Department of Defense (DoD) Support to the Department of State (DoS) for Afghan Relocation* to coordinate U.S. efforts to provide temporary shelter to ASIs. In support of this order, the USAF is proposing to make DoD land or facilities available at JB MDL and mobilize the temporary shelter of up to 9,500 ASIs on JB MDL/Fort Dix for up to 365 days. The Proposed Action involves utilization of existing facilities as well as construction of temporary shelters on a former parade ground on Fort Dix. The need for the Proposed Action is to provide safe haven and shelter at JB MDL for ASIs who assisted the U.S. and our allies. The Air Force is preparing this EA as part of contingency planning and preparation for the unified government effort to support ASI relocation. As a contingency ASI planning location, JB MDL may or may not eventually be needed to support the overall ASI effort, but has conducted this Draft EA evaluation to be ready as a proposed ASI location if directed to support the mission and ensure a firm understanding of environmental issues and potential public concerns associated with the proposal.

The Draft EA and Draft FONSI are available for review at the following library location and at our website (https://www.jbmdl.jb.mil/Home/Public-Affairs/):

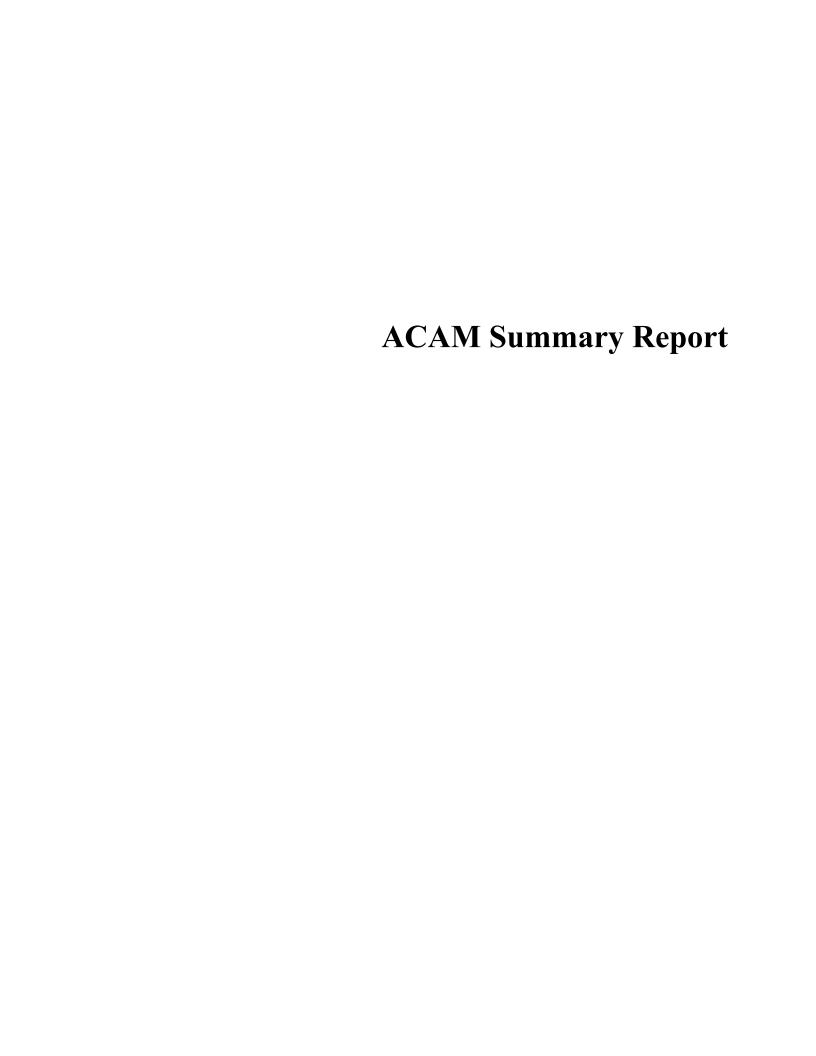
Burlington County LibraryPemberton Branch 16 Broadway Street Brown Mills, NJ 08015

Written comments on the Draft EA and Draft FONSI/FONPA are invited and should be sent by Close of Business on 28 August 2021. Please mail and/or email comments to:

ATTN: EA Temporary Shelter of Afghan Special Immigrants
2901 Falcon Lane
Joint Base McGuire-Dix-Lakehurst, NJ 08641
87.ABW.PA@us.af.mil

### **Appendix B**

Air Quality Assessment



### AIR CONFORMITY APPLICABILITY MODEL REPORTRECORD OF CONFORMITY ANALYSIS (ROCA)

**1. General Information:** The Air Force's Air Conformity Applicability Model (ACAM) was used to perform an analysis to assess the potential air quality impact/s associated with the action in accordance with the Air Force Manual 32-7002, Environmental Compliance and Pollution Prevention; the Environmental Impact Analysis Process (EIAP, 32 CFR 989); and the General Conformity Rule (GCR, 40 CFR 93 Subpart B). This report provides a summary of the ACAM analysis.

_	Act	•	т.		4:	
и.	ACI	ion	10	ĸж	HOI	1:

Base: MCGUIRE AFB
State: New Jersey
County(s): Burlington

Regulatory Area(s): Burlington, NJ

b. Action Title: Beddown of Refugees

c. Project Number/s (if applicable):

d. Projected Action Start Date: 8 / 2021

e. Action Description:

Alternatives include beddowns at other military bases.

f. Point of Contact:

Name: Renee Piatt

Title: Air Quality Program Manager

**Organization:** 787 CES

**Email:** renee.piatt@us.af.mil **Phone Number:** 609-754-1722

**2. Analysis:** Total combined direct and indirect emissions associated with the action were estimated through ACAM on a calendar-year basis for the "worst-case" and "steady state" (net gain/loss upon action fully implemented) emissions. General Conformity under the Clean Air Act, Section 1.76 has been evaluated for the action described above according to the requirements of 40 CFR 93, Subpart B.

Based on the analysis, the requirements of this rule are:	applicable
	_X_ not applicable

#### **Conformity Analysis Summary:**

#### 2021

Pollutant	Action Emissions	GENERAL CONFORMITY	
	(ton/yr)	Threshold (ton/yr)	Exceedance (Yes or No)
Burlington, NJ			
VOC	34.387		
NOx	141.790		
CO	94.712	100	No
SOx	28.949		
PM 10	30.924		
PM 2.5	30.924		
Pb	0.000		
NH3	0.000		
CO2e	16417.5		

2022

Pollutant	Action Emissions	GENERAL CONFORMITY	
	(ton/yr)	Threshold (ton/yr)	Exceedance (Yes or No)
Burlington, NJ			
VOC	34.369		
NOx	141.666		
CO	94.608	100	No
SOx	28.949		
PM 10	30.920		
PM 2.5	30.920		
Pb	0.000		
NH3	0.000		
CO2e	16383.9		

2023 - (Steady State)

2025 - (Steady State)				
Pollutant	Action Emissions	GENERAL CONFORMITY		
	(ton/yr)	Threshold (ton/yr)	Exceedance (Yes or No)	
Burlington, NJ				
VOC	0.000			
NOx	0.000			
CO	0.000	100	No	
SOx	0.000			
PM 10	0.000			
PM 2.5	0.000			
Pb	0.000			
NH3	0.000			
CO2e	0.0			

None of estimated emissions associated with this action are above the conformity threshold values established at 40 CFR 93.153 (b); Therefore, the requirements of the General Conformity Rule are not applicable.

Rini Piat	08/19/2021
Renee Piatt. Air Quality Program Manager	DATE



#### 1. General Information

- Action Location

Base: MCGUIRE AFBState: New JerseyCounty(s): Burlington

Regulatory Area(s): Burlington, NJ

- Action Title: Beddown of Refugees

- Project Number/s (if applicable):

- Projected Action Start Date: 8 / 2021

- Action Purpose and Need:

Need to provide living space for Afghan refugees.

- Action Description:

Alternatives include beddowns at other military bases.

- Point of Contact

Name: Renee Piatt

Title: Air Quality Program Manager

**Organization:** 787 CES

Email:

**Phone Number:** 

- Activity List:

	Activity Type	Activity Title
2.	Construction / Demolition	Tents and/or trailers
3.	Emergency Generator	Mobile Gens for Temp Beddown

Emission factors and air emission estimating methods come from the United States Air Force's Air Emissions Guide for Air Force Stationary Sources, Air Emissions Guide for Air Force Mobile Sources, and Air Emissions Guide for Air Force Transitory Sources.

#### 2. Construction / Demolition

#### 2.1 General Information & Timeline Assumptions

- Activity Location

County: Burlington

Regulatory Area(s): Burlington, NJ

- Activity Title: Tents and/or trailers

- Activity Description:

Living quarters

- Activity Start Date

**Start Month:** 8 **Start Month:** 2021

- Activity End Date

Indefinite:FalseEnd Month:8End Month:2021

- Activity Emissions:

Pollutant	Total Emissions (TONs)
VOC	0.017943
$SO_x$	0.000322
$NO_x$	0.124346
СО	0.104400
PM 10	0.004322

Pollutant	<b>Total Emissions (TONs)</b>
PM 2.5	0.004189
Pb	0.000000
NH <sub>3</sub>	0.000345
CO <sub>2</sub> e	33.6

#### 2.1 Building Construction Phase

#### 2.1.1 Building Construction Phase Timeline Assumptions

- Phase Start Date

Start Month: 8 Start Quarter: 1 Start Year: 2021

- Phase Duration

**Number of Month:** 1 **Number of Days:** 0

#### 2.1.2 Building Construction Phase Assumptions

- General Building Construction Information

**Building Category:** Multi-Family

Area of Building (ft²): 1000 Height of Building (ft): N/A Number of Units: 900

- Building Construction Default Settings

**Default Settings Used:** Yes **Average Day(s) worked per week:** 5 (default)

- Construction Exhaust (default)

Equipment Name	Number Of Equipment	<b>Hours Per Day</b>
Cranes Composite	1	4
Forklifts Composite	2	6
Tractors/Loaders/Backhoes Composite	1	8

#### - Vehicle Exhaust

Average Hauling Truck Round Trip Commute (mile): 20 (default)

- Vehicle Exhaust Vehicle Mixture (%)

	LDGV	LDGT	HDGV	LDDV	LDDT	HDDV	MC
POVs	0	0	0	0	0	100.00	0

#### - Worker Trips

**Average Worker Round Trip Commute (mile):** 20 (default)

- Worker Trips Vehicle Mixture (%)

	LDGV	LDGT	HDGV	LDDV	LDDT	HDDV	MC
POVs	50.00	50.00	0	0	0	0	0

#### - Vendor Trips

Average Vendor Round Trip Commute (mile): 40 (default)

- Vendor Trips Vehicle Mixture (%)

•	LDGV	LDGT	HDGV	LDDV	LDDT	HDDV	MC
POVs	0	0	0	0	0	100.00	0

#### 2.1.3 Building Construction Phase Emission Factor(s)

- Construction Exhaust Emission Factors (lb/hour) (default)

Cranes Composite									
	VOC	SO <sub>x</sub>	NOx	CO	PM 10	PM 2.5	CH <sub>4</sub>	CO <sub>2</sub> e	
Emission Factors	0.0845	0.0013	0.6033	0.3865	0.0228	0.0228	0.0076	128.82	
Forklifts Composite									
	VOC	SO <sub>x</sub>	NOx	CO	PM 10	PM 2.5	CH <sub>4</sub>	CO <sub>2</sub> e	
Emission Factors	0.0293	0.0006	0.1458	0.2148	0.0056	0.0056	0.0026	54.462	
Tractors/Loaders/Ba	Tractors/Loaders/Backhoes Composite								
	VOC	SO <sub>x</sub>	NOx	CO	PM 10	PM 2.5	CH <sub>4</sub>	CO <sub>2</sub> e	
Emission Factors	0.0407	0.0007	0.2505	0.3606	0.0112	0.0112	0.0036	66.890	

- Vehicle Exhaust & Worker Trips Emission Factors (grams/mile)

	VOC	SO <sub>x</sub>	NO <sub>x</sub>	CO	PM 10	PM 2.5	Pb	NH <sub>3</sub>	$\mathbf{CO}_{2}\mathbf{e}$
LDGV	000.266	000.002	000.209	003.068	000.008	000.007		000.023	00313.914
LDGT	000.309	000.003	000.353	004.101	000.010	000.009		000.024	00406.448
HDGV	000.630	000.005	001.017	014.444	000.024	000.021		000.044	00756.575
LDDV	000.120	000.003	000.138	002.513	000.004	000.004		000.008	00303.783
LDDT	000.254	000.004	000.390	004.285	000.007	000.006		000.008	00432.722
HDDV	000.671	000.013	006.097	002.135	000.173	000.159		000.031	01528.646
MC	002.146	000.003	000.796	012.783	000.027	000.024		000.056	00399.526

#### 2.1.4 Building Construction Phase Formula(s)

#### - Construction Exhaust Emissions per Phase

 $CEE_{POL} = (NE * WD * H * EF_{POL}) / 2000$ 

CEE<sub>POL</sub>: Construction Exhaust Emissions (TONs)

NE: Number of Equipment

WD: Number of Total Work Days (days)

H: Hours Worked per Day (hours)

EF<sub>POL</sub>: Emission Factor for Pollutant (lb/hour) 2000: Conversion Factor pounds to tons

#### - Vehicle Exhaust Emissions per Phase

 $VMT_{VE} = NU * 0.36 * HT$ 

VMT<sub>VE</sub>: Vehicle Exhaust Vehicle Miles Travel (miles)

NU: Number of Units

0.36: Conversion Factor units to trips

HT: Average Hauling Truck Round Trip Commute (mile/trip)

 $V_{POL} = (VMT_{VE} * 0.002205 * EF_{POL} * VM) / 2000$ 

V<sub>POL</sub>: Vehicle Emissions (TONs)

VMT<sub>VE</sub>: Vehicle Exhaust Vehicle Miles Travel (miles)

0.002205: Conversion Factor grams to pounds EF<sub>POL</sub>: Emission Factor for Pollutant (grams/mile) VM: Worker Trips On Road Vehicle Mixture (%)

2000: Conversion Factor pounds to tons

#### - Worker Trips Emissions per Phase

 $VMT_{WT} = WD * WT * 1.25 * NE$ 

VMT<sub>WT</sub>: Worker Trips Vehicle Miles Travel (miles)

WD: Number of Total Work Days (days)

WT: Average Worker Round Trip Commute (mile)

1.25: Conversion Factor Number of Construction Equipment to Number of Works

NE: Number of Construction Equipment

 $V_{POL} = (VMT_{WT} * 0.002205 * EF_{POL} * VM) / 2000$ 

V<sub>POL</sub>: Vehicle Emissions (TONs)

VMT<sub>WT</sub>: Worker Trips Vehicle Miles Travel (miles) 0.002205: Conversion Factor grams to pounds EF<sub>POL</sub>: Emission Factor for Pollutant (grams/mile) VM: Worker Trips On Road Vehicle Mixture (%)

2000: Conversion Factor pounds to tons

#### - Vender Trips Emissions per Phase

 $VMT_{VT} = NU * 0.11 * HT$ 

VMT<sub>VT</sub>: Vender Tips Vehicle Miles Travel (miles)

NU: Number of Units

0.11: Conversion Factor units to trips

HT: Average Hauling Truck Round Trip Commute (mile/trip)

 $V_{POL} = (VMT_{VT} * 0.002205 * EF_{POL} * VM) / 2000$ 

V<sub>POL</sub>: Vehicle Emissions (TONs)

VMT<sub>VT</sub>: Vender Trips Vehicle Miles Travel (miles) 0.002205: Conversion Factor grams to pounds EF<sub>POL</sub>: Emission Factor for Pollutant (grams/mile) VM: Worker Trips On Road Vehicle Mixture (%)

2000: Conversion Factor pounds to tons

#### 3. Emergency Generator

#### 3.1 General Information & Timeline Assumptions

- Add or Remove Activity from Baseline? Add

- Activity Location

**County:** Burlington

**Regulatory Area(s):** Burlington, NJ

- Activity Title: Mobile Gens for Temp Beddown

- Activity Description:

Temporary mobile generators to provide power to tent/trailer beddown site.

- Activity Start Date

Start Month: 8 Start Year: 2021

- Activity End Date

Indefinite: No End Month: 5 End Year: 2022

- Activity Emissions:

Pollutant	<b>Total Emissions (TONs)</b>
VOC	68.738625
$SO_x$	57.898125
$NO_x$	283.331250
CO	189.216000
PM 10	61.840125

Pollutant	Total Emissions (TONs)
PM 2.5	61.840125
Pb	0.000000
$NH_3$	0.000000
CO <sub>2</sub> e	32767.9

#### 3.2 Emergency Generator Assumptions

- Emergency Generator

**Type of Fuel used in Emergency Generator:** Diesel Number of Emergency Generators: 500

- Default Settings Used: No

- Emergency Generators Consumption

Emergency Generator's Horsepower: 27 Average Operating Hours Per Year (hours): 4380

#### 3.3 Emergency Generator Emission Factor(s)

- Emergency Generators Emission Factor (lb/hp-hr)

				,				
VOC	SO <sub>x</sub>	NOx	CO	PM 10	PM 2.5	Pb	NH <sub>3</sub>	CO <sub>2</sub> e
0.00279	0.00235	0.0115	0.00768	0.00251	0.00251			1.33

#### 3.4 Emergency Generator Formula(s)

#### - Emergency Generator Emissions per Year

 $AE_{POL} = (NGEN * HP * OT * EF_{POL}) / 2000$ 

AE<sub>POL</sub>: Activity Emissions (TONs per Year) NGEN: Number of Emergency Generators HP: Emergency Generator's Horsepower (hp) OT: Average Operating Hours Per Year (hours) EF<sub>POL</sub>: Emission Factor for Pollutant (lb/hp-hr)