



REPLY TO  
ATTENTION OF

**DEPARTMENT OF THE ARMY**  
FORT WORTH DISTRICT, CORPS OF ENGINEERS  
PO BOX 17300  
FORT WORTH, TEXAS 76102-0300

April 22, 2014

Environmental Engineering and Compliance Section  
Planning and Environmental Center

Mr. R. Stuart Goldsmith, P.G.  
Texas Commission on Environmental Quality  
Building F  
Waste Permits Division  
MC-124  
Municipal Solid Waste Permits Section  
12100 Park 35 Circle  
Austin, TX 78753

Re: Response to Comments  
Fort Hood Biotreatment Facility – Coryell County  
Municipal Solid Waste (MSW) – Application No. Pending  
Registration Application – Preliminary Review  
Tracking No. 17980124; RN105463475/CN600126262

Dear Mr. Goldsmith:

On behalf of the United States Army III Corps and Fort Hood Directorate of Public Works-Environmental Division, please find enclosed one original and three copies of the redline-strikeout (Attachment A) and clean replacement pages (Attachment B) for the referenced registration application. The attached replacement pages were developed to incorporate comments included in your letter dated March 10, 2014.

This response letter contains each item identified in the TCEQ comment letter (in bold) and a response to each item in the same order within the listed in the comment letter.

A response to each of the TCEQ comments is described below.

1. **A "Texas Commission on Environmental Quality (TCEQ) Core Data Form" (TCEQ-10400) was not submitted with the application. Please complete and submit the "TCEQ Core Data Form" which is available on the TCEQ Website at the link provided at the end of this letter.**

A TCEQ Core Data Form is not required. Per Section 17.0 of the Part I Form, the United States Department of the Army already possesses a Customer Reference Number (CN600126262); therefore submission of a TCEQ Core Data Form is unnecessary.

- 2. A properly completed Property Owner Affidavit (Page 9 of the Part I Form) was not submitted with the application. Please complete and submit a Property Owner Affidavit for the application.**

A signed Property Owner Affidavit has been included as Attachment D in Part I of the registration application. Section 4.0 in Part I of the registration application has been revised to correctly reference the location of the Property Owner Affidavit.

- 3. Only one copy of the application contained the seal of a registered engineer. All copies of the application must be prepared and sealed in accordance with 30 TAC Section (§) 330.57(f). Please resubmit the title page, table of contents and maps/drawings for the other three copies to include the seal of a Professional Engineer who is registered in the State of Texas, in accordance with 30 TAC §330.57(g)(2) & (3).**

A complete new set of title pages, table of contents, and maps/drawings that contain the seal of a Professional Engineer have been included.

- 4. Although a URL address of a publicly accessible Internet Website where the application and all revisions to that application will be posted was provided on Page 4 of Part I of the application, the current application could not be found at this address. Please ensure that a copy of this application is posted at the URL address indicated in the application.**

The URL address containing the initial registration application along with the attached revisions is loaded with each submission and available for viewing. Please see <http://www.hood.army.mil/dpw/HTML/pnotice.aspx>.

- 5. Please provide a revised adjacent and potentially affected landowners property map to include all mineral interest ownership under the facility. Please confirm that USAG Fort Hood is the correct and only entity required to receive notice as property and mineral rights owner.**

All mineral interest ownership under the facility is under the possession of USAG Fort Hood. Section 3.0 and Figure I.3 have been revised to acknowledge mineral interest ownership.

During the course of your review, if you need additional information or have any questions, please contact Dave Bowersock at 817-886-1881 or at [Robert.D.Bowersock@usace.army.mil](mailto:Robert.D.Bowersock@usace.army.mil).

Sincerely,



Bobby L. Shelton, P.E.  
Chief, Environmental Compliance and Engineering  
Section

**ATTACHMENT A**

**FORT HOOD TYPE V MSW REGISTRATION APPLICATION  
REPLACEMENT PAGES**

**(REDLINE/STRIKEOUT COPY)**

**UNITED STATES ARMY III CORPS AND FORT HOOD  
DIRECTORATE OF PUBLIC WORKS-ENVIRONMENTAL  
DIVISION**



**FORT HOOD BIOTREATMENT FACILITY**

**CORYELL COUNTY, TEXAS**

**TYPE V MSW  
REGISTRATION APPLICATION**

**PART I-IV**

Submitted by:

**UNITED STATES ARMY III CORPS AND FORT HOOD DIRECTORATE  
OF PUBLIC WORKS ENVIRONMENTAL DIVISION  
BLDG 4622, ENGINEER DRIVE  
FORT HOOD, TEXAS 76544**

Prepared by:



**US ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT**

~~February 2014~~  
April 2014

## Executive Summary

Fort Hood is a 340 square mile U.S. Department of Army installation that occupies parts of Bell and Coryell Counties. Fort Hood is located in the hill country of Texas, approximately 60 miles north of Austin and 50 miles southwest of Waco. Average temperature is 94°F in the summer and 49°F in the winter; annual precipitation is 30-35 inches.

In February 2007, the Fort Hood Directorate of Public Works-Environmental Division (FHDPW-ED) submitted an initial application for a biotreatment facility to the Texas Commission on Environmental Quality (TCEQ) to meet the requirements of 30 Texas Administrative Code (TAC) §332 (Composting rules). After a series of subsequent submittals, the TCEQ determined that the composting rules were not applicable and recommended that FHDPW-ED submit a Type V Municipal Solid Waste (MSW) application in accordance with 30 TAC §305 (Consolidated Permits) and §330 Municipal Solid Waste (MSW) rules. FHDPW-ED submitted its Type V application in December 2011 which the TCEQ subsequently rejected, stating in a letter dated March 21, 2012 that the submission was significantly deficient in meeting the Consolidated Permits and MSW rules.

III Corps, the Fort Hood headquarters command group, and the FHDPW recognize the benefits of diverting waste materials from the permitted Fort Hood Type I MSW landfill and are pursuing registration as a Type V Biotreatment Facility in accordance with 30 TAC §330.9(f). The purpose of the facility is to properly manage two types of waste sources: (1) soils and spill clean up material contaminated with petroleum, oils, and lubricants and (2) dry sediments from Fort Hood grit-chambers, oil-water separators, and stormwater structures. III Corps and FHDPW-ED will own and operate the registered facility which will be known as the Fort Hood Biotreatment Facility.

CORPS OF ENGINEERS  
4/10/2014  
*Jimmy D. Baggett*  
STATE OF TEXAS  
JIMMY D. BAGGETT  
30867  
REGISTERED  
PROFESSIONAL ENGINEER

The following presents the information requested in Subchapter B of 30 TAC 330. The application is divided into four parts as defined in the regulations.

- Part I - General Information
- Part II - Existing Conditions
- Part III - Facility Design Information
- Part IV - Site Operating Plan

FHDPW-ED will process up to 2,500 cubic yards per year of waste and intends to reuse 100% of the processed waste material. The reusable material will meet levels that are below the Tier I Residential Soil protective concentration limits. FHDPW-ED proposes to process this material five days per week, Monday through Friday, between 7:30 a.m. and 4:15 p.m.

Facility Name: Fort Hood Biotreatment Facility  
Permittee/Registrant Name: III Corps & Ft. Hood DPW  
MSW Authorization #:  
Initial Submittal Date: 02/27/2014  
Revision Date: 04/18/2014



## Texas Commission on Environmental Quality

### Part I Form

New Permit/Registration and Amendment Applications for an MSW Facility

#### 1. Reason for Submittal

- Initial Submittal                       Notice of Deficiency (NOD) Response

#### 2. Authorization Type

- Permit                                       Registration

#### 3. Application Type

- New                                               Major Amendment  
 Major Amendment (Limited Scope)

#### 4. Application Fees

- Pay by Check                               Online Payment

If paid online, e-Pay Confirmation Number: 582EA000160303

#### 5. Application URL

Is the application submitted for Type I Arid Exempt (AE) and/or Type IV AE facility?

- Yes                                               No

If the answer is "No", provide the URL address of a publicly accessible internet web site where the application and all revisions to that application will be posted.

[http:// www.hood.army.mil/dpw/HTML/pnotice.aspx](http://www.hood.army.mil/dpw/HTML/pnotice.aspx)

#### 6. Application Publishing

Party Responsible for Publishing Notice:

- Applicant                                       Agent in Service                               Consultant

**7. Alternative Language Notice**

Is an alternative language notice required for this application? (For determination refer to Alternative Language Checklist on the Public Notice Verification Form TCEQ-20244-Waste)

Yes                       No

**8. Public Place Location of Application**

Name of the Public Place: Killeen Public Library-Main Library  
 Physical Address: 205 E. Chruch Avenue  
 City: Killeen                      County: Bell                      State: Texas                      Zip Code: 76541  
 (Area code) Telephone Number: (254) 501-8990

**9. Consolidated Permit Processing**

Is this submittal part of a consolidated permit processing request, in accordance with 30 TAC Chapter 33?

Yes                       No                       Not Applicable

If "Yes", state the other TCEQ program authorizations requested:

**10. Confidential Documents**

Does the application contain confidential documents?

Yes                       No

If "Yes", cross-reference the confidential documents throughout the application and submit as a separate attachment in a binder clearly marked "CONFIDENTIAL."

**11. Permits and/or Construction Approvals**

Select all that apply	Received	Pending	Not Applicable
Hazardous Waste Management Program under the Texas Solid Waste Disposal Act	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Underground Injection Control Program under the Texas Injection Well Act	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
National Pollutant Discharge Elimination System Program under the Clean Water Act and Waste Discharge Program under Texas Water Code, Chapter 26	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prevention of Significant Deterioration Program under the Federal Clean Air Act (FCAA). Nonattainment Program under the FCAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
National Emission Standards for Hazardous Air Pollutants Preconstruction Approval under the FCAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Facility Name: **Fort Hood Biotreatment Facility**  
 MSW Authorization #:

Initial Submittal Date: **02/27/2014**  
 Revision Date: **04/18/2014**

Select all that apply	Received	Pending	Not Applicable
Ocean Dumping Permits under the Marine Protection Research and Sanctuaries Act	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dredge or Fill Permits under the CWA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Licenses under the Texas Radiation Control Act	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Other Environmental Permits</b>			
Title V-Air (0-01659)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MSW (1866)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### 12. General Facility Information

Facility Name: **Fort Hood Biotreatment Facility**  
 MSW Authorization No. (if available):  
 Regulated Entity Reference No. (if issued)\*: RN 105463475  
 Physical or Street Address (if available): Bldg. 1955, 37th Street and North Avenue  
 City: Fort Hood County: Coryell State: Texas Zip Code: 76544  
 (Area Code) Telephone Number: (254)535-0658  
 Latitude (Degrees, Minutes Seconds): 31 Deg., 8 Min., 53 Sec.  
 Longitude (Degrees, Minutes Seconds): 97 Deg., 45 Min., 29 Sec.  
 Benchmark Elevation (above mean sea level): 915 ft.

Provide a description of the location of the facility with respect to known or easily identifiable landmarks: Centrally located on Ft. Hood; approximately 900 feet northwest of the North Avenue and 37th Street intersection.

Detail access routes from the nearest United States or state highway to the facility:

Enter Fort Hood main gate from U.S. Highway 190 West. Continue north on TJ Mills Blvd. to North Avenue. Turn right on North Avenue and then left on 37th Street. Proceed approximately 450 feet on 37th Street, and then take a left. Facility will be approximately 450 feet to the northwest.

\*If this number has not been issued for the facility, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Facility as the Regulated Entity.

### 13. Facility Type(s)

Type I                       Type IV                       Type V  
 Type I AE                       Type IV AE                       Type VI

### 14. Activities Conducted at the Facility

Storage                       Processing                       Disposal

**15. Facility Waste Management Unit(s)**

- |                                                   |                                                                       |
|---------------------------------------------------|-----------------------------------------------------------------------|
| <input type="checkbox"/> Landfill Unit(s)         | <input type="checkbox"/> Incinerator(s)                               |
| <input type="checkbox"/> Class 1 Landfill Unit(s) | <input type="checkbox"/> Autoclave(s)                                 |
| <input type="checkbox"/> Process Tank(s)          | <input type="checkbox"/> Refrigeration Unit(s)                        |
| <input type="checkbox"/> Storage Tank(s)          | <input type="checkbox"/> Mobile Processing Unit(s)                    |
| <input type="checkbox"/> Tipping Floor            | <input type="checkbox"/> Type VI Demonstration Unit                   |
| <input type="checkbox"/> Storage Area             | <input type="checkbox"/> Compost Pile(s) and/or Vessel(s)             |
| <input type="checkbox"/> Container(s)             | <input checked="" type="checkbox"/> Other (Specify) Material Recovery |
| <input type="checkbox"/> Roll-off Boxes           | <input type="checkbox"/> Other (Specify)                              |
| <input type="checkbox"/> Surface Impoundment      | <input type="checkbox"/> Other (Specify)                              |

**16. Description of the Revisions to the Facility**

Skip this box, if "New" is selected under "Application Type".  
Provide a brief description of all revisions to the permit conditions and supporting documents referenced by the permit. Also, provide an explanation of why the amendment is requested.

**17. Facility Contact Information**

**Site Operator (Permittee/Registrant) Name:** U.S. Department of the Army  
**Customer Reference No. (if issued)\*:** CN 600126262  
**Mailing Address:** III Corps and Fort Hood DPW; Attn: IMHD-PWE (Jerry Mora)  
**City:** Fort Hood      **County:** Bell      **State:** Texas      **Zip Code:** 76544  
**(Area Code) Telephone Number:** (254) 287-6499  
**E-mail Address:** gerardo.mora2.civ@mail.mil  
**TX Secretary of State (SOS) Filing Number:** N/A

\*If the Site Operator (Permittee/Registrant) does not have this number, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Site Operator (Permittee/Registrant) as the Customer.

**Operator Name**<sup>1</sup>: Same as "Site Operator (Permittee/Registrant)

Customer Reference No. (if issued)\*:

Mailing Address:

City: County: State: Zip Code:

(Area Code) Telephone Number:

E-mail Address:

TX SOS Filing Number:

<sup>1</sup>If the Operator is the same as Site Operator/Permittee type "Same as "Site Operator (Permittee/Registrant)".

\*If the Operator does not have this number, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Operator as the customer.

**Consultant Name (if applicable)**: U.S. Army Corps of Engineers-Ft. Worth District

Texas Board of Professional Engineers Firm Registration Number: N/A

Mailing Address: 819 Taylor St., Room 3B06

City: Fort Worth County: Tarrant State: Texas Zip Code: 76102

(Area Code) Telephone Number: (817) 886-1885

E-Mail Address: abram.pinon@usace.army.mil

**Agent in Service Name (required only for out-of-state)**:

Mailing Address:

City: County: State: Zip Code:

(Area Code) Telephone Number:

E-Mail Address:

### 18. Facility Supervisor's License

Select the Type of License that the Solid Waste Facility Supervisor, as defined in 30 TAC Chapter 30, Occupational Licenses and Registrations, will obtain prior to commencing facility operations.

Class A  Class B

### 19. Ownership Status of the Facility

- |                                              |                                              |                                                        |
|----------------------------------------------|----------------------------------------------|--------------------------------------------------------|
| <input type="checkbox"/> Corporation         | <input type="checkbox"/> Limited Partnership | <input checked="" type="checkbox"/> Federal Government |
| <input type="checkbox"/> Individual          | <input type="checkbox"/> City Government     | <input type="checkbox"/> Other Government              |
| <input type="checkbox"/> Sole Proprietorship | <input type="checkbox"/> County Government   | <input type="checkbox"/> Military                      |
| <input type="checkbox"/> General Partnership | <input type="checkbox"/> State Government    | <input type="checkbox"/> Other (Specify):              |

Does the Site Operator (Permittee/Registrant) own all the facility units and all the facility property?

Yes                       No

If "No", provide the information requested below for any additional ownership.

**Owner Name:**

Street or P.O. Box:

City:                                      County:                                      State:                                      Zip Code:

(Area Code) Telephone Number:

E-mail Address (optional):

**20. Other Governmental Entities Information**

**Texas Department of Transportation District: Waco District**

District Engineer's Name: Bobby Littlefield, P.E.

Street Address or P.O. Box: 100 South Loop Drive

City: Waco                                      County: McLennan                                      State: Texas                                      Zip Code: 76704

(Area Code) Telephone Number: (254) 867-2700

E-Mail Address (optional):

**The Local Governmental Authority Responsible for Road Maintenance (if applicable): III Corps and Fort Hood Directorate of Public Works**

Contact Person's Name: Timi Dutchuk (DPW Maintenance Division Chief)

Street Address or P.O. Box: Bldg. 4213, 77th Street

City: Fort Hood                                      County: Bell                                      State: Texas                                      Zip Code: 76544

(Area Code) Telephone Number: (254) 618-8815

E-Mail Address (optional):

**City Mayor Information**

City Mayor's Name: N/A

Office Address:

City:                                      County:                                      State:                                      Zip Code:

(Area Code) Telephone Number:

E-Mail Address (optional):

**City Health Authority:** N/A

Contact Person's Name:

Street Address or P.O. Box:

City: County: State: Zip Code:

(Area Code) Telephone Number:

E-Mail Address (optional):

**County Judge Information**

County Judge's Name: John E. Firth

Street Address or P.O. Box: 1st Floor, 620 East Main Street

City: Gatesville County: Coryell State: Texas Zip Code: 76528

(Area Code) Telephone Number: (254) 865-5911 ext. 2222

E-Mail Address (optional): county\_judge@coryellcounty.org

**County Health Authority:** Coryell County Indigent Health Care

Contact Person's Name: Lana Davidson

Street Address or P.O. Box: P.O. Box 188

City: Gatesville County: Coryell State: Texas Zip Code: 76528

(Area Code) Telephone Number: (254) 865-2883

E-Mail Address (optional):

**State Representative Information**

District Number: 59th

State Representative's Name: Dr. J.D. Sheffield

District Office Address: 150 North Harbin Dr., Suite 402

City: Stephenville County: Erath State: Texas Zip Code: 76401

(Area Code) Telephone Number: (254) 918-5729

E-Mail Address (optional):

**State Senator Information**

District Number: 24

State Senator's Name: Troy Fraser

District Office Address: P.O. Box 12068

City: Austin County: Travis State: Texas Zip Code: 78711

(Area Code) Telephone Number: (254) 939-3562

E-Mail Address (optional):

**Council of Government (COG) Name:** Central Texas Council of Governments

COG Representative's Name: Jim Reed, AICP

COG Representative's Title: Executive Director

Street Address or P.O. Box: 2180 North Main Street

City: Belton County: Bell State: Texas Zip Code: 76513

(Area Code) Telephone Number: (254) 770-2236

E-Mail Address (optional):

**River Basin Authority Name:** Brazos River

Contact Person's Name: Dave Scott

Watershed Sub-Basin Name: Leon River Watershed

Street Address or P.O. Box: 4600 Cobbs Drive

City: Waco County: McLennan State: Texas Zip Code: 76714

(Area Code) Telephone Number: (254) 761-3100

E-Mail Address (optional):

**Coastal Management Program**

Is the facility within the Coastal Management Program boundary?

Yes  No

**U.S. Army Corps of Engineers**

The facility is located in the following District of the U.S. Army Corps of Engineers:

Albuquerque, NM  Galveston, TX  
 Ft. Worth, TX  Tulsa, OK

**Local Government Jurisdiction**

Within City Limits of: N/A

Within Extraterritorial Jurisdiction of: N/A

Is the facility located in an area in which the governing body of the municipality or county has prohibited the storage, processing or disposal of municipal or industrial solid waste?

Yes  No

(If "Yes", provide a copy of the ordinance or order as an attachment):

Facility Name: Fort Hood Biotreatment Facility  
MSW Authorization #:

Initial Submittal Date: 02/27/2014  
Revision Date: 04/18/2014

### Signature Page

I, Brian L. Dosa, Director, Fort Hood Public Works,  
(Site Operator (Permittee/Registrant)'s Authorized Signatory) (Title)

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: *Brian L. Dosa* Date: 18 Apr 2014

-----  
TO BE COMPLETED BY THE OPERATOR IF THE APPLICATION IS SIGNED BY AN AUTHORIZED REPRESENTATIVE FOR THE OPERATOR

I, \_\_\_\_\_, hereby designate \_\_\_\_\_  
(Print or Type Operator Name) (Print or Type Representative Name)

as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

\_\_\_\_\_  
Printed or Typed Name of Operator or Principal Executive Officer

\_\_\_\_\_  
Signature

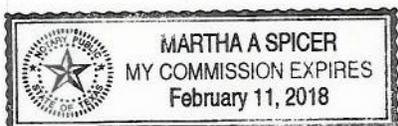
-----  
SUBSCRIBED AND SWORN to before me by the said Brian

On this 18th day of April, 2014

My commission expires on the 11th day of February, 2018

Martha A. Spicer  
Notary Public in and for

Bell County, Texas  
(Note: Application Must Bear Signature & Seal of Notary Public)



## Part I Attachments

(See Instructions for P.E. seal requirements.)

### Required Attachments

	<b>Attachment No.</b>
Supplementary Technical Report	Part I., Sec. 1
Property Legal Description	Part I, Sec. 4
Property Metes and Bounds Description	Part I, Sec. 4
Facility Legal Description	Part I, Sec. 4
Facility Metes and Bounds Description	Part I, Att. A
Metes and Bounds Drawings	Part I, Att. A
On-Site Easements Drawing	Part II, Fig. II.10
Land Ownership Map	Part I, Fig. I.3
Land Ownership List	Part I, Sec. 3
Electronic List or Mailing Labels	Attached CD
Texas Department of Transportation (TxDOT) County Map	Part I, Fig. I.1
General Location Map	Part I, Fig. I.1
General Topographic Map	Part II, Fig. II.3
Verification of Legal Status	Part I, Sec. 5
Property Owner Affidavit	Part I, Sec. 4
Evidence of Competency	Part I, Sec. 6

### Additional Attachments as Applicable- Select all those apply and add as necessary

- TCEQ Core Data Form(s)
- Signatory Authority Delegation
- Fee Payment Receipt
- Confidential Documents
- Waste Storage, Processing and Disposal Ordinances
- Final Plat Record of Property
- Certificate of Fact (Certificate of Incorporation)
- Assumed Name Certificate

**UNITED STATES ARMY III CORPS AND FORT HOOD  
DIRECTORATE OF PUBLIC WORKS-ENVIRONMENTAL  
DIVISION**



**FORT HOOD BIOTREATMENT FACILITY**

**CORYELL COUNTY, TEXAS**

**TYPE V MSW  
REGISTRATION APPLICATION**

**PART I**

Submitted by:

**UNITED STATES ARMY III CORPS AND FORT HOOD DIRECTORATE  
OF PUBLIC WORKS ENVIRONMENTAL DIVISION  
BLDG 4622, ENGINEER DRIVE  
FORT HOOD, TEXAS 76544**

Prepared by:



**US ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT**

February 2014  
April 2014



**Fort Hood Biotreatment Facility  
Part I  
Table of Contents**

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**List of Attachments**

- Attachment A-Property Owner Information**
- Attachment B- Signature Certification**
- Attachment C-Application Fees**
- Attachment D- Property Owner Affidavit**



### 3.0 LAND OWNERSHIP MAP AND LIST

30 TAC §330.59(c)(3)

Following is the owner of record of real property located within ¼ mile of the registration boundary. The property is shown on Figure I.3 and is the most current available record as of the date of this registration application. The facility is solely contained within the Fort Hood Army Installation, therefore there are no adjacent landowners. The installation was formed by Declaration of Taking No. 2, signed September 26, 1942 by the Secretary of War. The declaration of taking is filed in Civil Order Book, Vol. I, Page 343, McLennan County, TX. All mineral interest ownership under the facility is also under the possession of the sole landowner identified below.

#### LANDOWNER'S LIST

1. USAG Fort Hood  
Attn: IMHD-PWM (Jill Martin)  
4622 Engineer Drive  
Fort Hood, TX 76544

#### 4.0 PROPERTY OWNER INFORMATION

*30 TAC §330.59(d)*

The Fort Hood Biotreatment Facility is located on the Fort Hood Army Installation. The Fort Hood Army Installation was formed by Declaration of Taking No. 2, signed September 26, 1942 by the Secretary of War. The metes and bounds description of the property and a drawing of the property description are included in Attachment A. A property owner affidavit is included ~~in the Part I form~~ in Attachment D.

## Figures

**Legend**

-  Registration Boundary
-  Fort Hood Installation Boundary
-  County Boundary
-  Fort Hood Biotreatment Facility

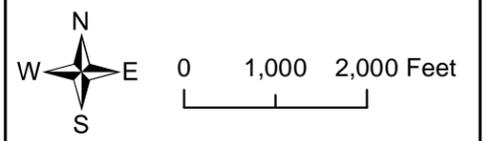
Notes: 1. All land and mineral interest ownership within the Fort Hood Installation Boundary is the property of the landowner specified in Part I, Section 3.0.

**LAND OWNERSHIP MAP  
FORT HOOD  
BIOTREATMENT FACILITY**  
TYPE V MSW REGISTRATION  
U.S. ARMY III CORPS AND  
FORT HOOD DPW-ED  
CORYELL CO., TX



CORPS OF ENGINEERS  
4/10/2014  
*Jimmy D. Baggett*  
STATE OF TEXAS  
JIMMY D. BAGGETT  
30367  
REGISTERED ENGINEER

**FOR PERMITTING PURPOSES ONLY**  
Source- 2011 Fort Hood and USACE SWF-PER-PG  
Drawn By- Lucas Daniels, Chief- Eli Kangas  
Design By- Abram Pinon  
Reviewed By- Robert D. Bowersock



Revisions		
No	Date	Description
1	04/2014	Note 1 Revised.



\\swf-netapp1\Military\Fort\_Hood\Spatial\fort\_hood\_type\_5\_part\_1\_3



**Attachment B**  
**Signatory Certification**

---

Fort Hood DPW-ED  
Fort Hood Biotreatment Facility  
Part I-Type V Registration

USACE-Fort Worth  
~~Rev. 0, February 2014~~ Prelim-Review #1, Rev. 1, April 2014

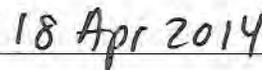
### Signatory Certification

I, Brian Dosa, certify under penalty of law, have the authority to sign this registration application in accordance with 30 Texas Administrative Code (TAC) §305.44(a)(3).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



\_\_\_\_\_  
Brian Dosa, Director, Fort Hood Directorate of Public Works



\_\_\_\_\_  
Date

**Attachment D**  
**Property Owner Affidavit**

## Property Owner Affidavit

I, Brian Dosa, as Director of the Fort Hood Directorate of Public Works, As authorized signatory for USAG Fort Hood, acknowledge that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure of the facility. I further acknowledge that I or the operator and the State of Texas shall have access to the property during the active live, and after closure for the purpose of inspection and maintenance, if required.



\_\_\_\_\_  
Brian Dosa, Director, Fort Hood Directorate of Public Works

18 Apr 2014

\_\_\_\_\_  
Date

**UNITED STATES ARMY III CORPS AND FORT HOOD  
DIRECTORATE OF PUBLIC WORKS-ENVIRONMENTAL  
DIVISION**



**FORT HOOD BIOTREATMENT FACILITY**

**CORYELL COUNTY, TEXAS**

**TYPE V MSW  
REGISTRATION APPLICATION**

**PART II**

Submitted by:

**UNITED STATES ARMY III CORPS AND FORT HOOD DIRECTORATE  
OF PUBLIC WORKS ENVIRONMENTAL DIVISION  
BLDG 4622, ENGINEER DRIVE  
FORT HOOD, TEXAS 76544**

Prepared by:



**US ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT**

February 2014

April 2014



**Fort Hood Biotreatment Facility  
Part II  
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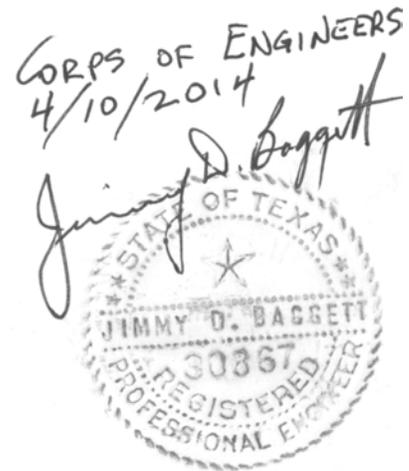
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**UNITED STATES ARMY III CORPS AND FORT HOOD  
DIRECTORATE OF PUBLIC WORKS-ENVIRONMENTAL  
DIVISION**



**FORT HOOD BIOTREATMENT FACILITY**

**CORYELL COUNTY, TEXAS**

**TYPE V MSW  
REGISTRATION APPLICATION**

**PART III**

Submitted by:

**UNITED STATES ARMY III CORPS AND FORT HOOD DIRECTORATE  
OF PUBLIC WORKS ENVIRONMENTAL DIVISION  
BLDG 4622, ENGINEER DRIVE  
FORT HOOD, TEXAS 76544**

Prepared by:



**US ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT**

February 2014  
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# Attachment B

## Hydrologic Analysis

## **PURPOSE AND SCOPE**

This facility surface water drainage report was prepared to demonstrate compliance with 30 Texas Administrative Code (TAC) §330.63(c) and 30 TAC §330.303.

## **PROPERTY DESCRIPTION**

The Fort Hood Biotreatment Facility currently consist of a concrete impervious surface that drains to a sump located along the western perimeter of the facility. In the late 1990's, a 6-inch to 8-inch thick 3,000 psi concrete slab was placed above an existing water filtration pond to facilitate the development of a biotreatment facility. The water filtration pond was originally constructed in the mid-1980's as part of a closed loop water recirculation system designed capture and treat waste water from vehicle washing that is currently ongoing north of the Fort Hood Biotreatment Facility. Below the existing concrete surface is ballast material consisting of sand and/or rock of various thickness, 3-inches of bedding material, a 30-mil PVC liner, and a 3-inch thick layer of cushion material.

## **SUMMARY**

The Fort Hood Biotreatment Facility is constructed and will be maintained and operated to manage run-on and runoff during the peak discharge of a 25-year, 24-hour storm event. The Fort Hood Biotreatment Facility designed to prevent the off-site discharge of waste and feedstock material, including, but not limited to, in-process and/or processed materials by utilizing the following features:

- Approximately 170,000 cubic feet of available storage capacity.
- A 6-in cast iron pipe position approximately 1 foot above the lowest elevation of the concrete surface (i.e., sump area).
- The 6-in cast iron pipe discharges to a closed loop water recirculation system that is used to treat wash water that originates from an adjacent vehicle wash facility.

Discharges associated with the treatment process of the Fort Hood Biotreatment Facility do not discharge to the waters of the state. All drainage affected by the waste processing at the facility is self contained. A 6-inch cast iron pipe with an invert elevation of 914.50 ft-msl drains the collected surface water to a closed loop water recirculation system, as described in Section 2.3 of Part III. See Figure IIIB.1, Drainage Area A for more information.



Four other separate drainage areas within the registration boundary produce run-off at the facility. These four drainage areas are not impacted by the waste processing conducted at the facility. See Figure IIIB.1, Drainage Areas B, C, D, and E for more information.

Drainage calculations were made for the existing drainage conditions. No changes are proposed under this registration application from what currently exists on site. The existing conditions on-site do not have any adverse impacts on surface water drainage. The following calculation provides the estimated water volume produced by a 25-year, 24-hour storm event, and the approximate extent of inundation. See Figure IIIB.1 for more information.

Total Drainage Area (Area A): 86,871 square feet  
25-year, 24-hour Storm Event: 8 in (0.667 feet) of precipitation  
Total Volume of Water: 57,941 cubic feet

Approximate Volume of Inundation at a Surface Elevation of 916.50 ft-msl: 61,000 cubic feet

**UNITED STATES ARMY III CORPS AND FORT HOOD  
DIRECTORATE OF PUBLIC WORKS-ENVIRONMENTAL  
DIVISION**



**FORT HOOD BIOTREATMENT FACILITY**

**CORYELL COUNTY, TEXAS**

**TYPE V MSW  
REGISTRATION APPLICATION**

**PART IV**

Submitted by:

**UNITED STATES ARMY III CORPS AND FORT HOOD DIRECTORATE  
OF PUBLIC WORKS ENVIRONMENTAL DIVISION  
BLDG 4622, ENGINEER DRIVE  
FORT HOOD, TEXAS 76544**



Prepared by:



**US ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT**

~~February 2014~~  
April 2014

**Fort Hood Biotreatment Facility  
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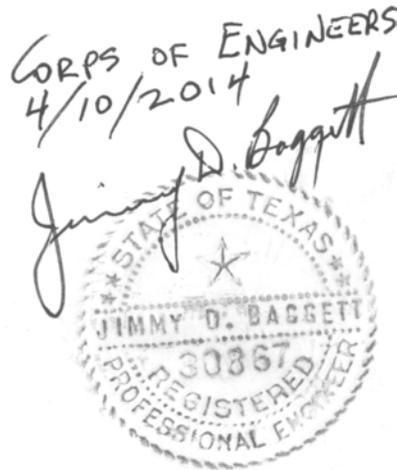
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**FORT HOOD TYPE V MSW REGISTRATION APPLICATION  
REPLACEMENT PAGES**

**(CLEAN COPY)**

**UNITED STATES ARMY III CORPS AND FORT HOOD  
DIRECTORATE OF PUBLIC WORKS-ENVIRONMENTAL  
DIVISION**



**FORT HOOD BIOTREATMENT FACILITY**

**CORYELL COUNTY, TEXAS**

**TYPE V MSW  
REGISTRATION APPLICATION**

**PART I-IV**

Submitted by:

**UNITED STATES ARMY III CORPS AND FORT HOOD DIRECTORATE  
OF PUBLIC WORKS ENVIRONMENTAL DIVISION  
BLDG 4622, ENGINEER DRIVE  
FORT HOOD, TEXAS 76544**

Prepared by:



**US ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT**

April 2014

## Executive Summary

Fort Hood is a 340 square mile U.S. Department of Army installation that occupies parts of Bell and Coryell Counties. Fort Hood is located in the hill country of Texas, approximately 60 miles north of Austin and 50 miles southwest of Waco. Average temperature is 94°F in the summer and 49°F in the winter; annual precipitation is 30-35 inches.

In February 2007, the Fort Hood Directorate of Public Works-Environmental Division (FHDPW-ED) submitted an initial application for a biotreatment facility to the Texas Commission on Environmental Quality (TCEQ) to meet the requirements of 30 Texas Administrative Code (TAC) §332 (Composting rules). After a series of subsequent submittals, the TCEQ determined that the composting rules were not applicable and recommended that FHDPW-ED submit a Type V Municipal Solid Waste (MSW) application in accordance with 30 TAC §305 (Consolidated Permits) and §330 Municipal Solid Waste (MSW) rules. FHDPW-ED submitted its Type V application in December 2011 which the TCEQ subsequently rejected, stating in a letter dated March 21, 2012 that the submission was significantly deficient in meeting the Consolidated Permits and MSW rules.

III Corps, the Fort Hood headquarters command group, and the FHDPW recognize the benefits of diverting waste materials from the permitted Fort Hood Type I MSW landfill and are pursuing registration as a Type V Biotreatment Facility in accordance with 30 TAC §330.9(f). The purpose of the facility is to properly manage two types of waste sources: (1) soils and spill clean up material contaminated with petroleum, oils, and lubricants and (2) dry sediments from Fort Hood grit-chambers, oil-water separators, and stormwater structures. III Corps and FHDPW-ED will own and operate the registered facility which will be known as the Fort Hood Biotreatment Facility.

CORPS OF ENGINEERS  
4/10/2014  
Jimmy D. Baggett  
STATE OF TEXAS  
JIMMY D. BAGGETT  
30867  
REGISTERED  
PROFESSIONAL ENGINEER

The following presents the information requested in Subchapter B of 30 TAC 330. The application is divided into four parts as defined in the regulations.

- Part I - General Information
- Part II - Existing Conditions
- Part III - Facility Design Information
- Part IV - Site Operating Plan

FHDPW-ED will process up to 2,500 cubic yards per year of waste and intends to reuse 100% of the processed waste material. The reusable material will meet levels that are below the Tier I Residential Soil protective concentration limits. FHDPW-ED proposes to process this material five days per week, Monday through Friday, between 7:30 a.m. and 4:15 p.m.

Facility Name: Fort Hood Biotreatment Facility  
Permittee/Registrant Name: III Corps & Ft. Hood DPW  
MSW Authorization #:  
Initial Submittal Date: 02/27/2014  
Revision Date: 04/18/2014



## Texas Commission on Environmental Quality

### Part I Form

New Permit/Registration and Amendment Applications for an MSW Facility

#### 1. Reason for Submittal

- Initial Submittal                       Notice of Deficiency (NOD) Response

#### 2. Authorization Type

- Permit                                       Registration

#### 3. Application Type

- New                                           Major Amendment  
 Major Amendment (Limited Scope)

#### 4. Application Fees

- Pay by Check                               Online Payment

If paid online, e-Pay Confirmation Number: 582EA000160303

#### 5. Application URL

Is the application submitted for Type I Arid Exempt (AE) and/or Type IV AE facility?

- Yes                                           No

If the answer is "No", provide the URL address of a publicly accessible internet web site where the application and all revisions to that application will be posted.

[http:// www.hood.army.mil/dpw/HTML/pnotice.aspx](http://www.hood.army.mil/dpw/HTML/pnotice.aspx)

#### 6. Application Publishing

Party Responsible for Publishing Notice:

- Applicant                                   Agent in Service                       Consultant

<b>7. Alternative Language Notice</b>	
Is an alternative language notice required for this application? (For determination refer to Alternative Language Checklist on the Public Notice Verification Form TCEQ-20244-Waste)	
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

<b>8. Public Place Location of Application</b>			
Name of the Public Place: Killeen Public Library-Main Library			
Physical Address: 205 E. Chruch Avenue			
City: Killeen	County: Bell	State: Texas	Zip Code: 76541
(Area code) Telephone Number: (254) 501-8990			

<b>9. Consolidated Permit Processing</b>		
Is this submittal part of a consolidated permit processing request, in accordance with 30 TAC Chapter 33?		
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
If "Yes", state the other TCEQ program authorizations requested:		

<b>10. Confidential Documents</b>	
Does the application contain confidential documents?	
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If "Yes", cross-reference the confidential documents throughout the application and submit as a separate attachment in a binder clearly marked "CONFIDENTIAL."	

<b>11. Permits and/or Construction Approvals</b>			
Select all that apply	Received	Pending	Not Applicable
Hazardous Waste Management Program under the Texas Solid Waste Disposal Act	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Underground Injection Control Program under the Texas Injection Well Act	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
National Pollutant Discharge Elimination System Program under the Clean Water Act and Waste Discharge Program under Texas Water Code, Chapter 26	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prevention of Significant Deterioration Program under the Federal Clean Air Act (FCAA). Nonattainment Program under the FCAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
National Emission Standards for Hazardous Air Pollutants Preconstruction Approval under the FCAA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Facility Name: **Fort Hood Biotreatment Facility**  
 MSW Authorization #:

Initial Submittal Date: **02/27/2014**  
 Revision Date: **04/18/2014**

Select all that apply	Received	Pending	Not Applicable
Ocean Dumping Permits under the Marine Protection Research and Sanctuaries Act	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dredge or Fill Permits under the CWA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Licenses under the Texas Radiation Control Act	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Other Environmental Permits</b>			
Title V-Air (0-01659)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MSW (1866)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### 12. General Facility Information

Facility Name: **Fort Hood Biotreatment Facility**  
 MSW Authorization No. (if available):  
 Regulated Entity Reference No. (if issued)\*: RN 105463475  
 Physical or Street Address (if available): Bldg. 1955, 37th Street and North Avenue  
 City: Fort Hood County: Coryell State: Texas Zip Code: 76544  
 (Area Code) Telephone Number: (254)535-0658  
 Latitude (Degrees, Minutes Seconds): 31 Deg., 8 Min., 53 Sec.  
 Longitude (Degrees, Minutes Seconds): 97 Deg., 45 Min., 29 Sec.  
 Benchmark Elevation (above mean sea level): 915 ft.

Provide a description of the location of the facility with respect to known or easily identifiable landmarks: Centrally located on Ft. Hood; approximately 900 feet northwest of the North Avenue and 37th Street intersection.

Detail access routes from the nearest United States or state highway to the facility:

Enter Fort Hood main gate from U.S. Highway 190 West. Continue north on TJ Mills Blvd. to North Avenue. Turn right on North Avenue and then left on 37th Street. Proceed approximately 450 feet on 37th Street, and then take a left. Facility will be approximately 450 feet to the northwest.

\*If this number has not been issued for the facility, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Facility as the Regulated Entity.

### 13. Facility Type(s)

Type I                       Type IV                       Type V  
 Type I AE                       Type IV AE                       Type VI

### 14. Activities Conducted at the Facility

Storage                       Processing                       Disposal

**15. Facility Waste Management Unit(s)**

- |                                                   |                                                                       |
|---------------------------------------------------|-----------------------------------------------------------------------|
| <input type="checkbox"/> Landfill Unit(s)         | <input type="checkbox"/> Incinerator(s)                               |
| <input type="checkbox"/> Class 1 Landfill Unit(s) | <input type="checkbox"/> Autoclave(s)                                 |
| <input type="checkbox"/> Process Tank(s)          | <input type="checkbox"/> Refrigeration Unit(s)                        |
| <input type="checkbox"/> Storage Tank(s)          | <input type="checkbox"/> Mobile Processing Unit(s)                    |
| <input type="checkbox"/> Tipping Floor            | <input type="checkbox"/> Type VI Demonstration Unit                   |
| <input type="checkbox"/> Storage Area             | <input type="checkbox"/> Compost Pile(s) and/or Vessel(s)             |
| <input type="checkbox"/> Container(s)             | <input checked="" type="checkbox"/> Other (Specify) Material Recovery |
| <input type="checkbox"/> Roll-off Boxes           | <input type="checkbox"/> Other (Specify)                              |
| <input type="checkbox"/> Surface Impoundment      | <input type="checkbox"/> Other (Specify)                              |

**16. Description of the Revisions to the Facility**

Skip this box, if "New" is selected under "Application Type".  
Provide a brief description of all revisions to the permit conditions and supporting documents referenced by the permit. Also, provide an explanation of why the amendment is requested.

**17. Facility Contact Information**

**Site Operator (Permittee/Registrant) Name:** U.S. Department of the Army  
**Customer Reference No. (if issued)\*:** CN 600126262  
**Mailing Address:** III Corps and Fort Hood DPW; Attn: IMHD-PWE (Jerry Mora)  
**City:** Fort Hood      **County:** Bell      **State:** Texas      **Zip Code:** 76544  
**(Area Code) Telephone Number:** (254) 287-6499  
**E-mail Address:** gerardo.mora2.civ@mail.mil  
**TX Secretary of State (SOS) Filing Number:** N/A

\*If the Site Operator (Permittee/Registrant) does not have this number, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Site Operator (Permittee/Registrant) as the Customer.

**Operator Name<sup>1</sup>:** Same as "Site Operator (Permittee/Registrant)

Customer Reference No. (if issued)\*:

Mailing Address:

City: County: State: Zip Code:

(Area Code) Telephone Number:

E-mail Address:

TX SOS Filing Number:

<sup>1</sup>If the Operator is the same as Site Operator/Permittee type "Same as "Site Operator (Permittee/Registrant)".

\*If the Operator does not have this number, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Operator as the customer.

**Consultant Name (if applicable):** U.S. Army Corps of Engineers-Ft. Worth District

Texas Board of Professional Engineers Firm Registration Number: N/A

Mailing Address: 819 Taylor St., Room 3B06

City: Fort Worth County: Tarrant State: Texas Zip Code: 76102

(Area Code) Telephone Number: (817) 886-1885

E-Mail Address: abram.pinon@usace.army.mil

**Agent in Service Name (required only for out-of-state):**

Mailing Address:

City: County: State: Zip Code:

(Area Code) Telephone Number:

E-Mail Address:

### 18. Facility Supervisor's License

Select the Type of License that the Solid Waste Facility Supervisor, as defined in 30 TAC Chapter 30, Occupational Licenses and Registrations, will obtain prior to commencing facility operations.

Class A  Class B

### 19. Ownership Status of the Facility

- |                                              |                                              |                                                        |
|----------------------------------------------|----------------------------------------------|--------------------------------------------------------|
| <input type="checkbox"/> Corporation         | <input type="checkbox"/> Limited Partnership | <input checked="" type="checkbox"/> Federal Government |
| <input type="checkbox"/> Individual          | <input type="checkbox"/> City Government     | <input type="checkbox"/> Other Government              |
| <input type="checkbox"/> Sole Proprietorship | <input type="checkbox"/> County Government   | <input type="checkbox"/> Military                      |
| <input type="checkbox"/> General Partnership | <input type="checkbox"/> State Government    | <input type="checkbox"/> Other (Specify):              |

Does the Site Operator (Permittee/Registrant) own all the facility units and all the facility property?

Yes                       No

If "No", provide the information requested below for any additional ownership.

**Owner Name:**

Street or P.O. Box:

City:                                      County:                                      State:                                      Zip Code:

(Area Code) Telephone Number:

E-mail Address (optional):

**20. Other Governmental Entities Information**

**Texas Department of Transportation District: Waco District**

District Engineer's Name: Bobby Littlefield, P.E.

Street Address or P.O. Box: 100 South Loop Drive

City: Waco                                      County: McLennan                                      State: Texas                                      Zip Code: 76704

(Area Code) Telephone Number: (254) 867-2700

E-Mail Address (optional):

**The Local Governmental Authority Responsible for Road Maintenance (if applicable): III Corps and Fort Hood Directorate of Public Works**

Contact Person's Name: Timi Dutchuk (DPW Maintenance Division Chief)

Street Address or P.O. Box: Bldg. 4213, 77th Street

City: Fort Hood                                      County: Bell                                      State: Texas                                      Zip Code: 76544

(Area Code) Telephone Number: (254) 618-8815

E-Mail Address (optional):

**City Mayor Information**

City Mayor's Name: N/A

Office Address:

City:                                      County:                                      State:                                      Zip Code:

(Area Code) Telephone Number:

E-Mail Address (optional):

**City Health Authority:** N/A

Contact Person's Name:

Street Address or P.O. Box:

City: County: State: Zip Code:

(Area Code) Telephone Number:

E-Mail Address (optional):

**County Judge Information**

County Judge's Name: John E. Firth

Street Address or P.O. Box: 1st Floor, 620 East Main Street

City: Gatesville County: Coryell State: Texas Zip Code: 76528

(Area Code) Telephone Number: (254) 865-5911 ext. 2222

E-Mail Address (optional): county\_judge@coryellcounty.org

**County Health Authority:** Coryell County Indigent Health Care

Contact Person's Name: Lana Davidson

Street Address or P.O. Box: P.O. Box 188

City: Gatesville County: Coryell State: Texas Zip Code: 76528

(Area Code) Telephone Number: (254) 865-2883

E-Mail Address (optional):

**State Representative Information**

District Number: 59th

State Representative's Name: Dr. J.D. Sheffield

District Office Address: 150 North Harbin Dr., Suite 402

City: Stephenville County: Erath State: Texas Zip Code: 76401

(Area Code) Telephone Number: (254) 918-5729

E-Mail Address (optional):

**State Senator Information**

District Number: 24

State Senator's Name: Troy Fraser

District Office Address: P.O. Box 12068

City: Austin County: Travis State: Texas Zip Code: 78711

(Area Code) Telephone Number: (254) 939-3562

E-Mail Address (optional):

**Council of Government (COG) Name:** Central Texas Council of Governments

COG Representative's Name: Jim Reed, AICP

COG Representative's Title: Executive Director

Street Address or P.O. Box: 2180 North Main Street

City: Belton

County: Bell

State: Texas

Zip Code: 76513

(Area Code) Telephone Number: (254) 770-2236

E-Mail Address (optional):

**River Basin Authority Name:** Brazos River

Contact Person's Name: Dave Scott

Watershed Sub-Basin Name: Leon River Watershed

Street Address or P.O. Box: 4600 Cobbs Drive

City: Waco

County: McLennan

State: Texas

Zip Code: 76714

(Area Code) Telephone Number: (254) 761-3100

E-Mail Address (optional):

**Coastal Management Program**

Is the facility within the Coastal Management Program boundary?

Yes

No

**U.S. Army Corps of Engineers**

The facility is located in the following District of the U.S. Army Corps of Engineers:

Albuquerque, NM

Galveston, TX

Ft. Worth, TX

Tulsa, OK

**Local Government Jurisdiction**

Within City Limits of: N/A

Within Extraterritorial Jurisdiction of: N/A

Is the facility located in an area in which the governing body of the municipality or county has prohibited the storage, processing or disposal of municipal or industrial solid waste?

Yes

No

(If "Yes", provide a copy of the ordinance or order as an attachment):

Facility Name: Fort Hood Biotreatment Facility  
MSW Authorization #:

Initial Submittal Date: 02/27/2014  
Revision Date: 04/18/2014

**Signature Page**

I, Brian L. Dosa, Director, Fort Hood Public Works,  
(Site Operator (Permittee/Registrant)'s Authorized Signatory) (Title)

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: *Brian L. Dosa* Date: 18 Apr 2014

-----  
TO BE COMPLETED BY THE OPERATOR IF THE APPLICATION IS SIGNED BY AN AUTHORIZED REPRESENTATIVE FOR THE OPERATOR

I, \_\_\_\_\_, hereby designate \_\_\_\_\_  
(Print or Type Operator Name) (Print or Type Representative Name)

as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

\_\_\_\_\_  
Printed or Typed Name of Operator or Principal Executive Officer

\_\_\_\_\_  
Signature

-----  
SUBSCRIBED AND SWORN to before me by the said Brian

On this 18th day of April, 2014

My commission expires on the 11th day of February, 2018

Martha A. Spicer  
Notary Public in and for

Bell County, Texas  
(Note: Application Must Bear Signature & Seal of Notary Public)



## Part I Attachments

(See Instructions for P.E. seal requirements.)

### Required Attachments

	<b>Attachment No.</b>
Supplementary Technical Report	Part I., Sec. 1
Property Legal Description	Part I, Sec. 4
Property Metes and Bounds Description	Part I, Sec. 4
Facility Legal Description	Part I, Sec. 4
Facility Metes and Bounds Description	Part I, Att. A
Metes and Bounds Drawings	Part I, Att. A
On-Site Easements Drawing	Part II, Fig. II.10
Land Ownership Map	Part I, Fig. I.3
Land Ownership List	Part I, Sec. 3
Electronic List or Mailing Labels	Attached CD
Texas Department of Transportation (TxDOT) County Map	Part I, Fig. I.1
General Location Map	Part I, Fig. I.1
General Topographic Map	Part II, Fig. II.3
Verification of Legal Status	Part I, Sec. 5
Property Owner Affidavit	Part I, Sec. 4
Evidence of Competency	Part I, Sec. 6

### Additional Attachments as Applicable- Select all those apply and add as necessary

- TCEQ Core Data Form(s)
- Signatory Authority Delegation
- Fee Payment Receipt
- Confidential Documents
- Waste Storage, Processing and Disposal Ordinances
- Final Plat Record of Property
- Certificate of Fact (Certificate of Incorporation)
- Assumed Name Certificate

**UNITED STATES ARMY III CORPS AND FORT HOOD  
DIRECTORATE OF PUBLIC WORKS-ENVIRONMENTAL  
DIVISION**



**FORT HOOD BIOTREATMENT FACILITY**

**CORYELL COUNTY, TEXAS**

**TYPE V MSW  
REGISTRATION APPLICATION**

**PART I**

Submitted by:

**UNITED STATES ARMY III CORPS AND FORT HOOD DIRECTORATE  
OF PUBLIC WORKS ENVIRONMENTAL DIVISION  
BLDG 4622, ENGINEER DRIVE  
FORT HOOD, TEXAS 76544**

Prepared by:



**US ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT**

April 2014



**Fort Hood Biotreatment Facility  
Part I  
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**1.2 Characteristics of Material..... 3**

**1.3 Other Information..... 3**

**2.0 MAPS ..... 4**

**3.0 LAND OWNERSHIP MAP AND LIST ..... 5**

**4.0 PROPERTY OWNER INFORMATION ..... 6**

**5.0 LEGAL AUTHORITY ..... 7**

**6.0 EVIDENCE OF COMPETENCY ..... 8**

**7.0 APPOINTMENTS ..... 9**

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- Figure I.2-Detailed Location Map**
- Figure I.3-Land Ownership Map**
- Figure I.4-Material End Use Locations Map**

**List of Attachments**

- Attachment A-Property Owner Information**
- Attachment B- Signature Certification**
- Attachment C-Application Fees**
- Attachment D- Property Owner Affidavit**



### **3.0 LAND OWNERSHIP MAP AND LIST**

*30 TAC §330.59(c)(3)*

Following is the owner of record of real property located within ¼ mile of the registration boundary. The property is shown on Figure I.3 and is the most current available record as of the date of this registration application. The facility is solely contained within the Fort Hood Army Installation, therefore there are no adjacent landowners. The installation was formed by Declaration of Taking No. 2, signed September 26, 1942 by the Secretary of War. The declaration of taking is filed in Civil Order Book, Vol. I, Page 343, McLennan County, TX. All mineral interest ownership under the facility is also under the possession of the sole landowner identified below.

#### **LANDOWNER'S LIST**

1. USAG Fort Hood  
Attn: IMHD-PWM (Jill Martin)  
4622 Engineer Drive  
Fort Hood, TX 76544

#### **4.0 PROPERTY OWNER INFORMATION**

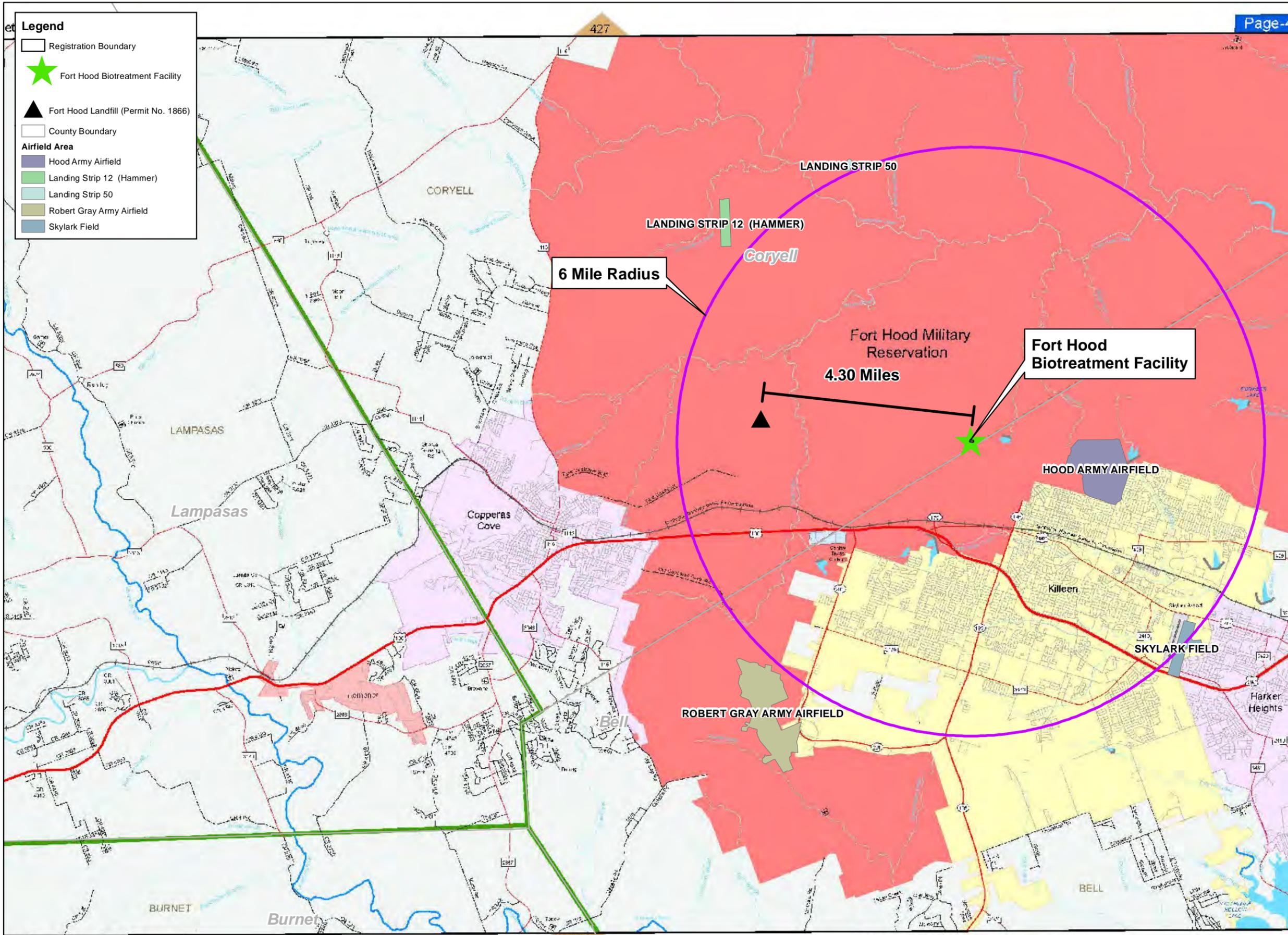
*30 TAC §330.59(d)*

The Fort Hood Biotreatment Facility is located on the Fort Hood Army Installation. The Fort Hood Army Installation was formed by Declaration of Taking No. 2, signed September 26, 1942 by the Secretary of War. The metes and bounds description of the property and a drawing of the property description are included in Attachment A. A property owner affidavit is included in Attachment D.

## Figures

**Legend**

-  Registration Boundary
-  Fort Hood Biotreatment Facility
-  Fort Hood Landfill (Permit No. 1866)
-  County Boundary
- Airfield Area**
-  Hood Army Airfield
-  Landing Strip 12 (Hammer)
-  Landing Strip 50
-  Robert Gray Army Airfield
-  Skylark Field

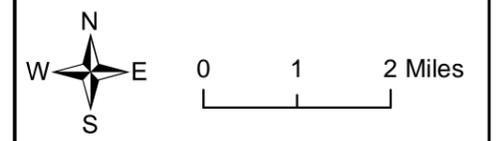


**GENERAL LOCATION MAP**  
**FORT HOOD**  
**BIOTREATMENT FACILITY**  
 TYPE V MSW REGISTRATION  
 U.S. ARMY III CORPS AND  
 FORT HOOD DPW-ED  
 CORYELL CO., TX



CORPS OF ENGINEERS  
 4/10/2014  
*Jimmy D. Baggett*  
 STATE OF TEXAS  
 JIMMY D. BAGGETT  
 30367  
 REGISTERED ENGINEER

**FOR PERMITTING PURPOSES ONLY**  
 Source- 2012 TxDOT County Map Grid 428  
 Drawn By- Lucas Daniels, Chief- Eli Kangas  
 Design By- Abram Pinon  
 Reviewed By- Robert D. Bowersock



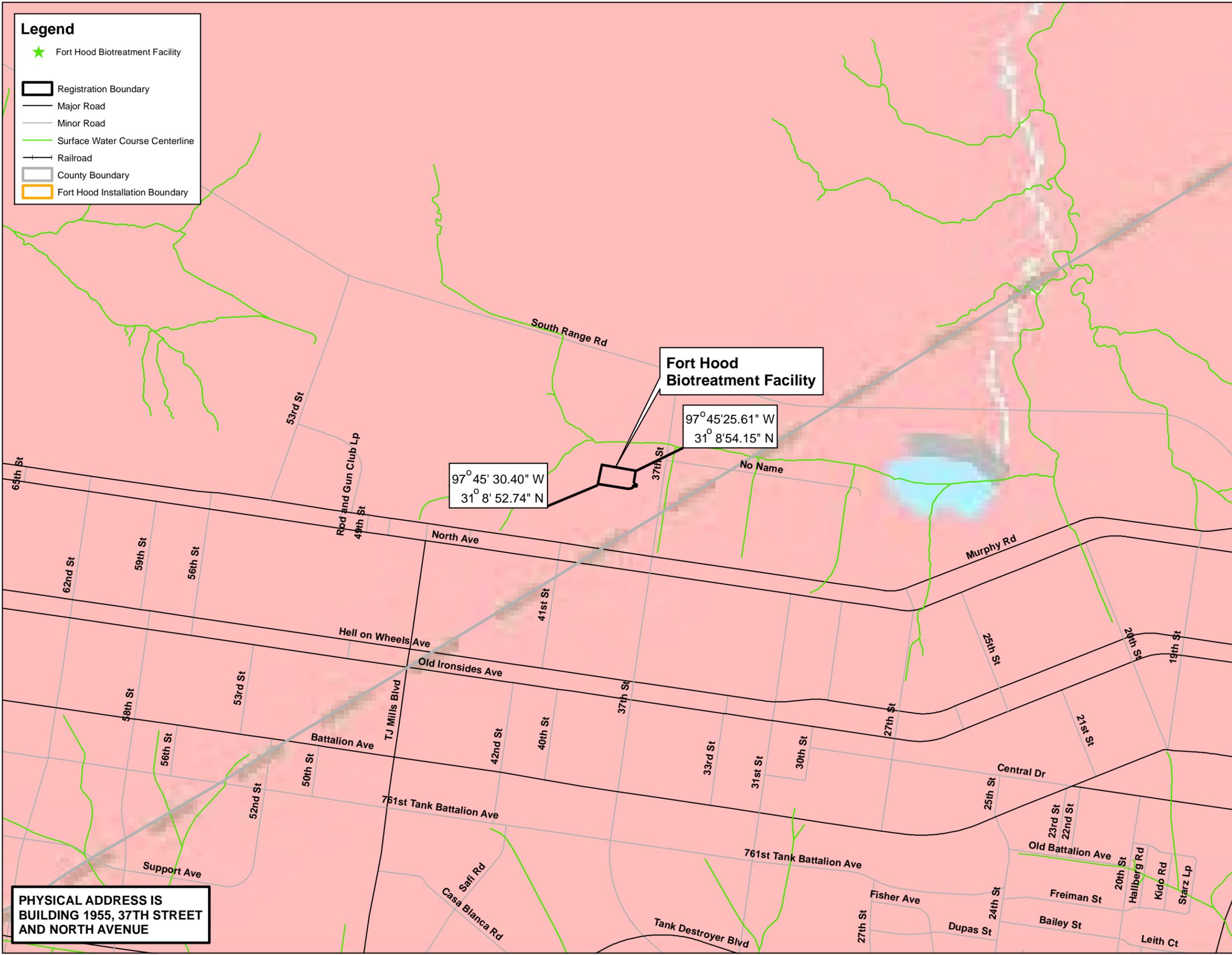
Revisions		
No	Date	Description



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**Legend**

-  Fort Hood Biotreatment Facility
-  Registration Boundary
-  Major Road
-  Minor Road
-  Surface Water Course Centerline
-  Railroad
-  County Boundary
-  Fort Hood Installation Boundary



**PHYSICAL ADDRESS IS  
BUILDING 1955, 37TH STREET  
AND NORTH AVENUE**

**DETAILED LOCATION MAP  
FORT HOOD  
BIOTREATMENT FACILITY**  
TYPE V MSW REGISTRATION  
U.S. ARMY III CORPS AND  
FORT HOOD DPW-ED  
CORYELL CO., TX

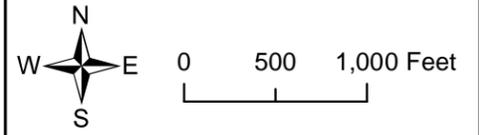


CORPS OF ENGINEERS  
4/10/2014

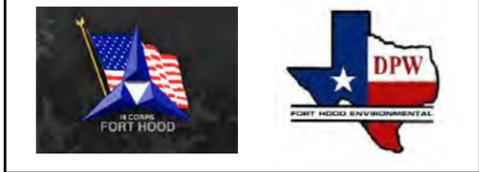
*Jimmy D. Baggett*



**FOR PERMITTING PURPOSES ONLY**  
Source- 2011 Fort Hood and 2012 TxDOT County Map  
Grid 28  
Drawn By- Lucas Daniels, Chief- Eli Kangas  
Design By- Abram Pinon  
Reviewed By- Robert D. Bowersock



Revisions		
No	Date	Description



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**Legend**

-  Registration Boundary
-  Fort Hood Installation Boundary
-  County Boundary
-  Fort Hood Biotreatment Facility

Notes: 1. All land and mineral interest ownership within the Fort Hood Installation Boundary is the property of the landowner specified in Part I, Section 3.0.

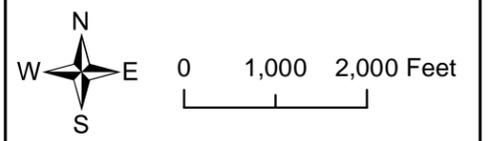
**LAND OWNERSHIP MAP  
FORT HOOD  
BIOTREATMENT FACILITY**  
TYPE V MSW REGISTRATION  
U.S. ARMY III CORPS AND  
FORT HOOD DPW-ED  
CORYELL CO., TX



*CORPS OF ENGINEERS  
4/10/2014*  
*Jimmy D. Baggett*



**FOR PERMITTING PURPOSES ONLY**  
Source- 2011 Fort Hood and USACE SWF-PER-PG  
Drawn By- Lucas Daniels, Chief- Eli Kangas  
Design By- Abram Pinon  
Reviewed By- Robert D. Bowersock



Revisions		
No	Date	Description
1	04/2014	Note 1 Revised.



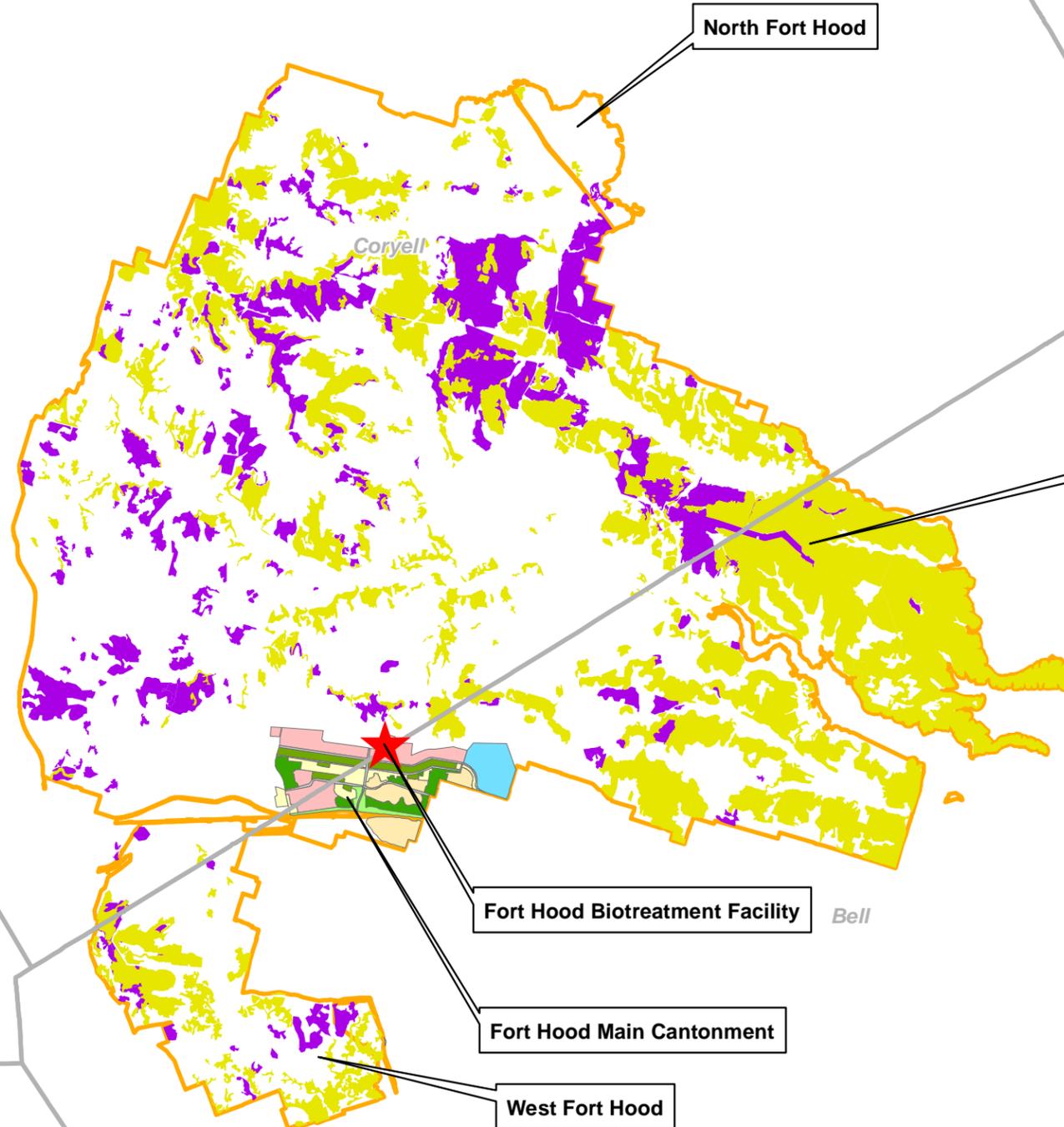
FEBRUARY 2014 PART I  
FIGURE I.3

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**Legend**

-  Fort Hood Biotreatment Facility
-  County Boundary
-  Fort Hood Installation Boundary
- Habitat Area**
-  Black Capped Vireo
-  Golden Cheeked Warbler
- Landuse**
-  Airfield
-  Community Core
-  Family Housing
-  Green Buffer
-  Maintenance and Warehousing
-  Primary Roadways
-  Recreation and Open Space
-  Troop Housing and Support

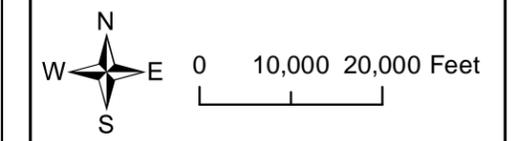


**MATERIAL END USE LOCATIONS MAP  
FORT HOOD  
BIOTREATMENT FACILITY**  
TYPE V MSW REGISTRATION  
U.S. ARMY III CORPS AND  
FORT HOOD DPW-ED  
CORYELL CO., TX



CORPS OF ENGINEERS  
4/10/2014  
*Jimmy D. Baggett*  
STATE OF TEXAS  
JIMMY D. BAGGETT  
30367  
REGISTERED PROFESSIONAL ENGINEER

**FOR PERMITTING PURPOSES ONLY**  
Source- 2011 Fort Hood and USACE SWF-PER-PG  
Drawn By- Lucas Daniels, Chief- Eli Kangas  
Design By- Abram Pinon  
Reviewed By- Robert D. Bowersock



Revisions		
No	Date	Description



FEBRUARY 2014      PART I  
FIGURE I.4

\\swf-netapp1\Military\Fort\_Hood\Spatial\fort\_hood\_type\_5\_part\_1\_4

**Attachment B**  
**Signatory Certification**

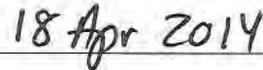
### Signatory Certification

I, Brian Dosa, certify under penalty of law, have the authority to sign this registration application in accordance with 30 Texas Administrative Code (TAC) §305.44(a)(3).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



\_\_\_\_\_  
Brian Dosa, Director, Fort Hood Directorate of Public Works



\_\_\_\_\_  
Date

**Attachment D**  
**Property Owner Affidavit**

## Property Owner Affidavit

I, Brian Dosa, as Director of the Fort Hood Directorate of Public Works, As authorized signatory for USAG Fort Hood, acknowledge that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure of the facility. I further acknowledge that I or the operator and the State of Texas shall have access to the property during the active live, and after closure for the purpose of inspection and maintenance, if required.



\_\_\_\_\_  
Brian Dosa, Director, Fort Hood Directorate of Public Works

18 Apr 2014

\_\_\_\_\_  
Date

**UNITED STATES ARMY III CORPS AND FORT HOOD  
DIRECTORATE OF PUBLIC WORKS-ENVIRONMENTAL  
DIVISION**



**FORT HOOD BIOTREATMENT FACILITY**

**CORYELL COUNTY, TEXAS**

**TYPE V MSW  
REGISTRATION APPLICATION**

**PART II**

Submitted by:

**UNITED STATES ARMY III CORPS AND FORT HOOD DIRECTORATE  
OF PUBLIC WORKS ENVIRONMENTAL DIVISION  
BLDG 4622, ENGINEER DRIVE  
FORT HOOD, TEXAS 76544**

Prepared by:



**US ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT**



April 2014

**Fort Hood Biotreatment Facility  
Part II  
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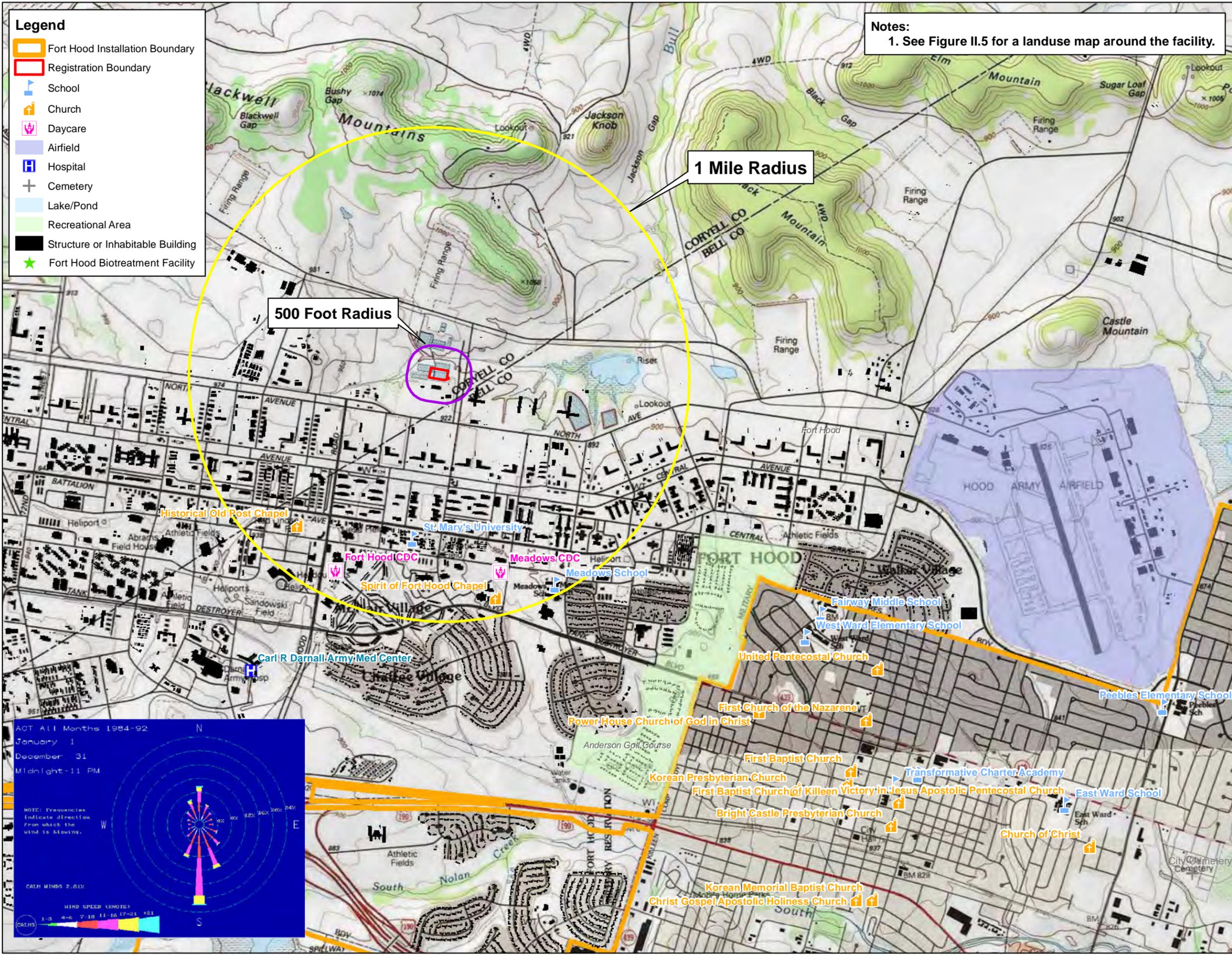
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## **List of Attachments**

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## Figures



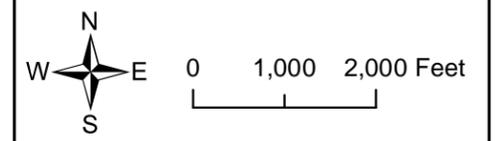
**USGS QUADRANGLE MAP  
FORT HOOD  
BIOTREATMENT FACILITY**  
TYPE V MSW REGISTRATION  
U.S. ARMY III CORPS AND  
FORT HOOD DPW-ED  
CORYELL CO., TX



*CORPS OF ENGINEERS  
4/10/2014*

*Jimmy D. Baggett*

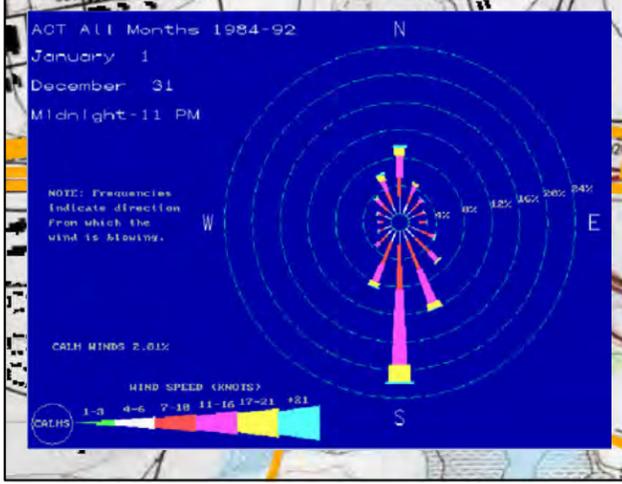
**FOR PERMITTING PURPOSES ONLY**  
Source- 2011 Fort Hood, 1995 Fort Hood, TX and 1994 Post Oak Mountain, TX USGS 7.5 Minute Quadrangle Sheets.  
Drawn By- Lucas Daniels, Chief- Eli Kangas  
Design By- Abram Pinon  
Reviewed By- Robert D. Bowersock



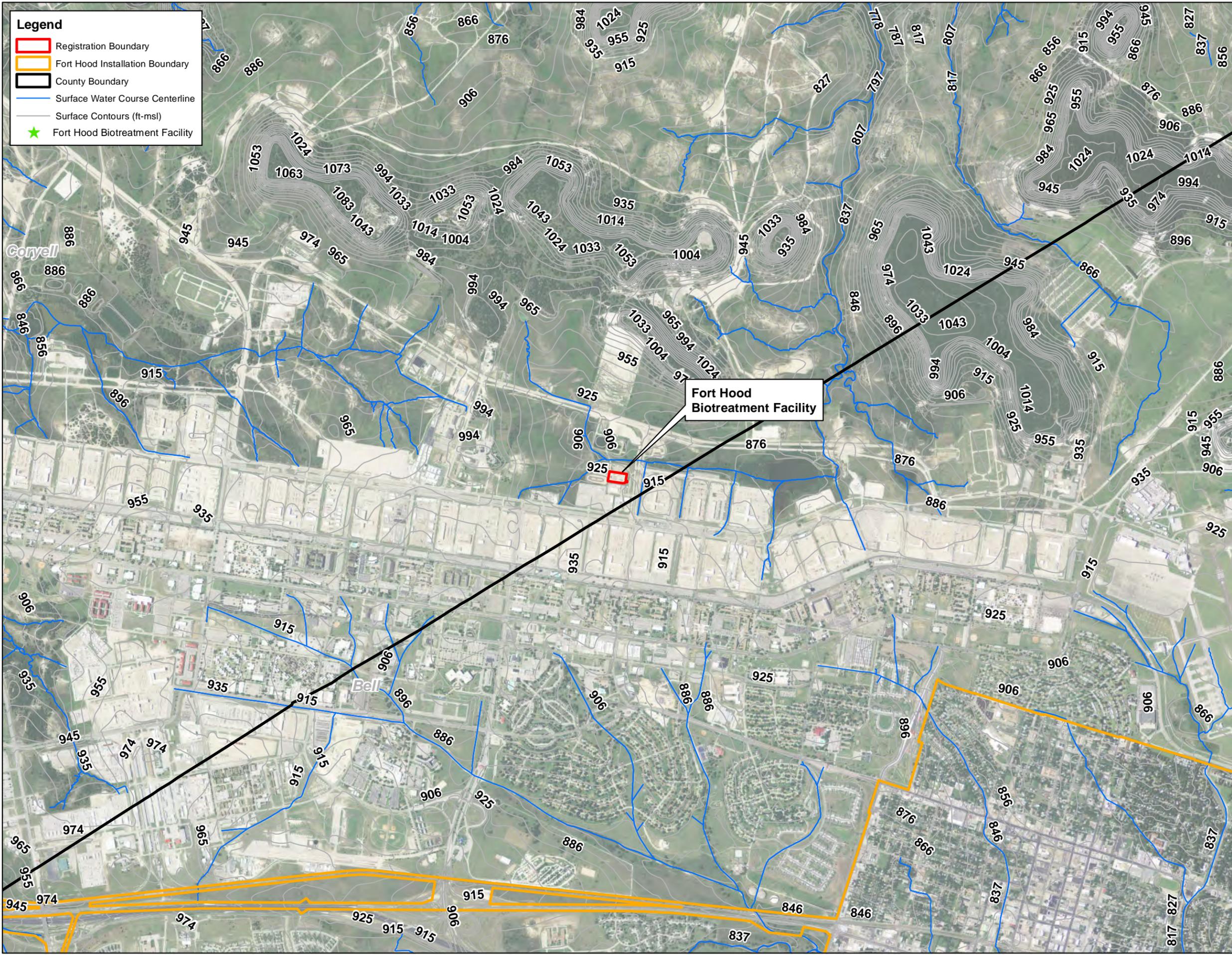
Revisions		
No	Date	Description



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**Legend**

- Registration Boundary
- Fort Hood Installation Boundary
- County Boundary
- Surface Water Course Centerline
- Surface Contours (ft-msl)
- ★ Fort Hood Biotreatment Facility

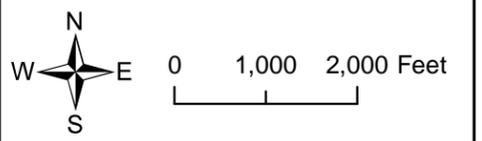
**GENERAL TOPOGRAPHIC MAP  
FORT HOOD  
BIOTREATMENT FACILITY**  
TYPE V MSW REGISTRATION  
U.S. ARMY III CORPS AND  
FORT HOOD DPW-ED  
CORYELL CO., TX



*CORPS OF ENGINEERS  
4/10/2014*

*Jimmy D. Baggett*

**FOR PERMITTING PURPOSES ONLY**  
Source- 2011 Fort Hood and USACE SWF-PER-PG  
Drawn By- Lucas Daniels, Chief- Eli Kangas  
Design By- Abram Pinon  
Reviewed By- Robert D. Bowersock



Revisions		
No	Date	Description



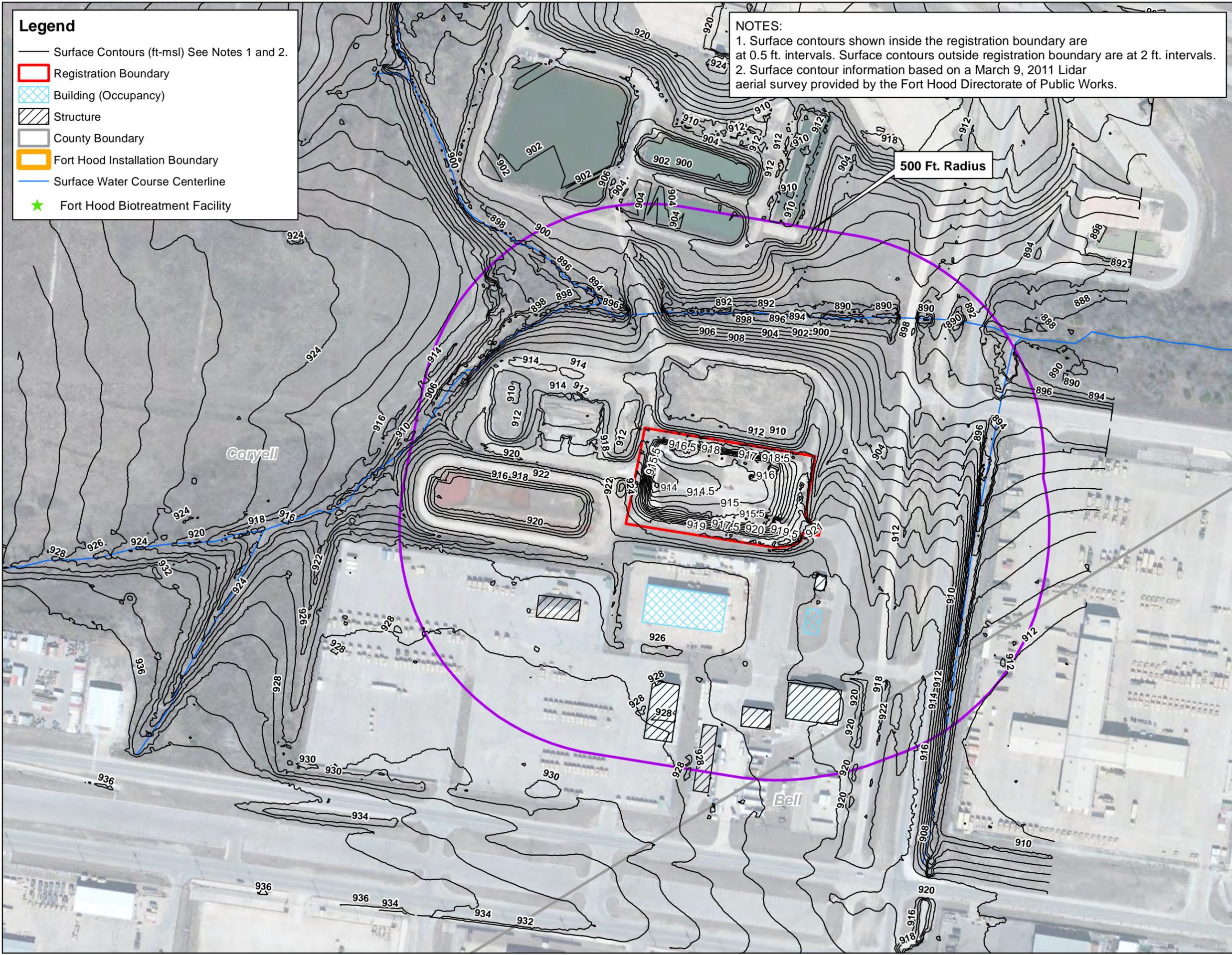
\\swf-netapp1\Military\Fort\_Hood\Spatial\fort\_hood\_type\_5\_part\_ii\_3

**Legend**

- Surface Contours (ft-msl) See Notes 1 and 2.
- ▭ Registration Boundary
- ▨ Building (Occupancy)
- ▧ Structure
- ▭ County Boundary
- ▭ Fort Hood Installation Boundary
- Surface Water Course Centerline
- ★ Fort Hood Biotreatment Facility

**NOTES:**

1. Surface contours shown inside the registration boundary are at 0.5 ft. intervals. Surface contours outside registration boundary are at 2 ft. intervals.
2. Surface contour information based on a March 9, 2011 Lidar aerial survey provided by the Fort Hood Directorate of Public Works.

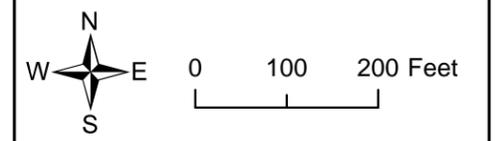


**DETAILED TOPOGRAPHIC MAP  
FORT HOOD  
BIOTREATMENT FACILITY**  
TYPE V MSW REGISTRATION  
U.S. ARMY III CORPS AND  
FORT HOOD DPW-ED  
CORYELL CO., TX



CORPS OF ENGINEERS  
4/10/2014  
*Jimmy D. Baggett*  
JIMMY D. BAGGETT  
REGISTERED ENGINEER  
30367

**FOR PERMITTING PURPOSES ONLY**  
Source- 1995 Fort Hood and 1994 Post Oak Mountain  
USGS 7.5 minute quadrangle sheets  
Drawn By- Lucas Daniels, Chief- Eli Kangas  
Design By- Abram Pinon  
Reviewed By- Robert D. Bowersock



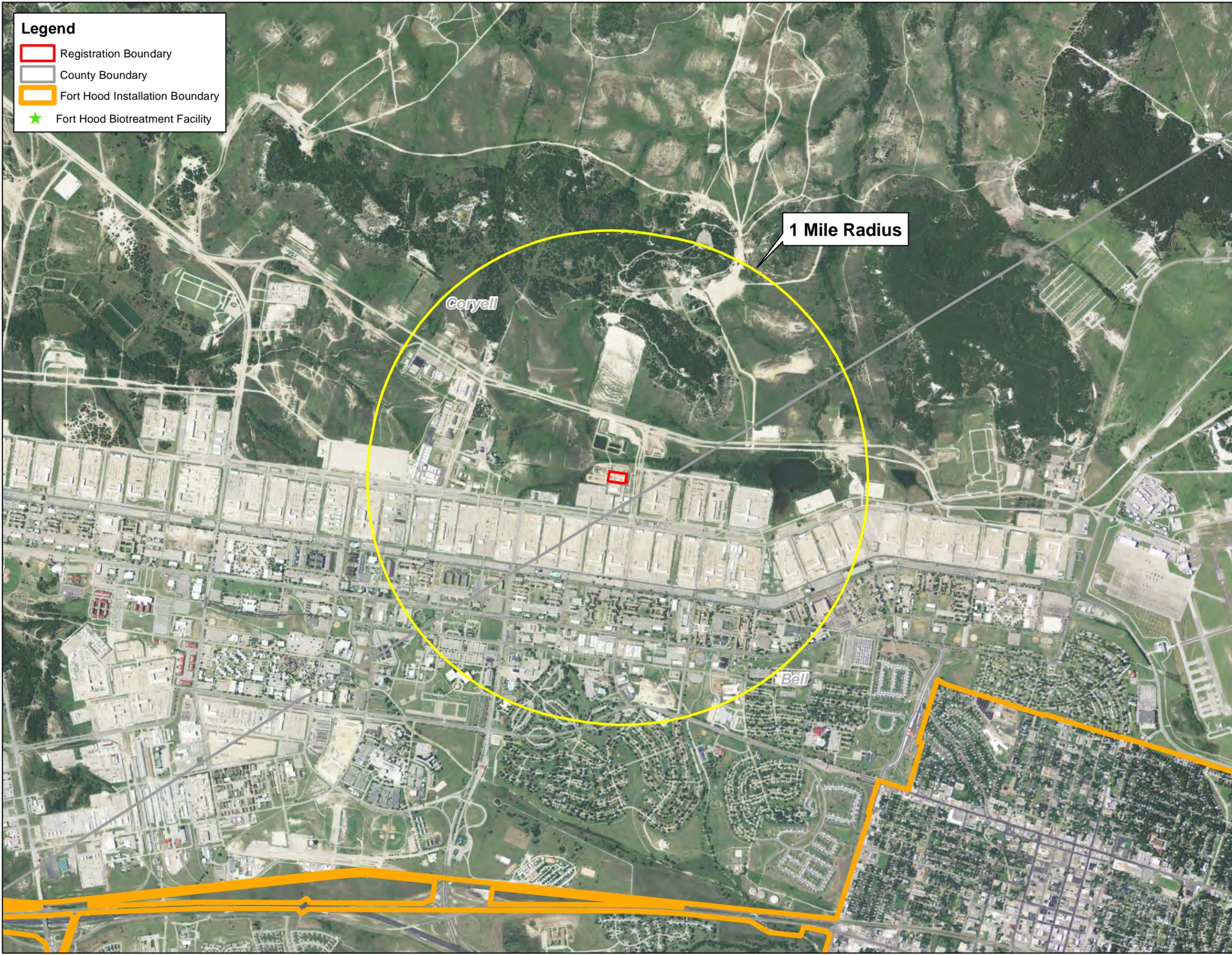
Revisions		
No	Date	Description



\\swf-netapp1\Military\Fort\_Hood\Spatial\fort\_hood\_type\_5\_part\_ii\_4

**Legend**

-  Registration Boundary
-  County Boundary
-  Fort Hood Installation Boundary
-  Fort Hood Biotreatment Facility

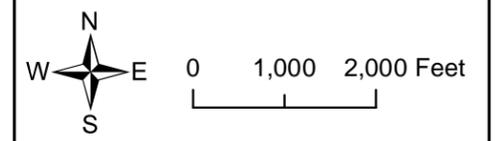


**AERIAL PHOTOGRAPH MAP  
FORT HOOD  
BIOTREATMENT FACILITY**  
TYPE V MSW REGISTRATION  
U.S. ARMY III CORPS AND  
FORT HOOD DPW-ED  
CORYELL CO., TX



CORPS OF ENGINEERS  
4/10/2014  
*Jimmy D. Baggett*  
STATE OF TEXAS  
JIMMY D. BAGGETT  
30367  
REGISTERED PROFESSIONAL ENGINEER

**FOR PERMITTING PURPOSES ONLY**  
Source- 2010 USGS DOQQ  
Drawn By- Lucas Daniels, Chief- Eli Kangas  
Design By- Abram Pinon  
Reviewed By- Robert D. Bowersock



Revisions		
No	Date	Description



FEBRUARY 2014      PART II  
FIGURE II.5

\\swf-netapp1\Military\Fort\_Hood\Spatial\fort\_hood\_type\_5\_part\_ii\_5

**Legend**

-  Fort Hood Biotreatment Facility
-  County Boundary
-  Registration Boundary
-  Fort Hood Installation Boundary
- Landuse**
-  Airfield
-  Community Core
-  Family Housing
-  Green Buffer
-  Maintenance and Warehousing
-  Primary Roadways
-  Recreation and Open Space
-  Troop Housing and Support

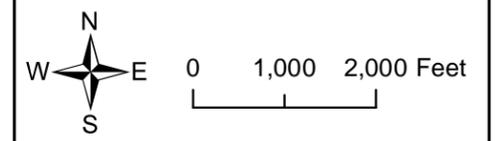
Notes: 1. All areas within 1 mile of the facility is government owned property.

**LANDUSE MAP  
FORT HOOD  
BIOTREATMENT FACILITY**  
TYPE V MSW REGISTRATION  
U.S. ARMY III CORPS AND  
FORT HOOD DPW-ED  
CORYELL CO., TX



*CORPS OF ENGINEERS  
4/10/2014*  
*Jimmy D. Baggett*

**FOR PERMITTING PURPOSES ONLY**  
Source- 2011 Fort Hood and USACE SWF-PER-PG  
Drawn By- Lucas Daniels, Chief- Eli Kangas  
Design By- Abram Pinon  
Reviewed By- Robert D. Bowersock

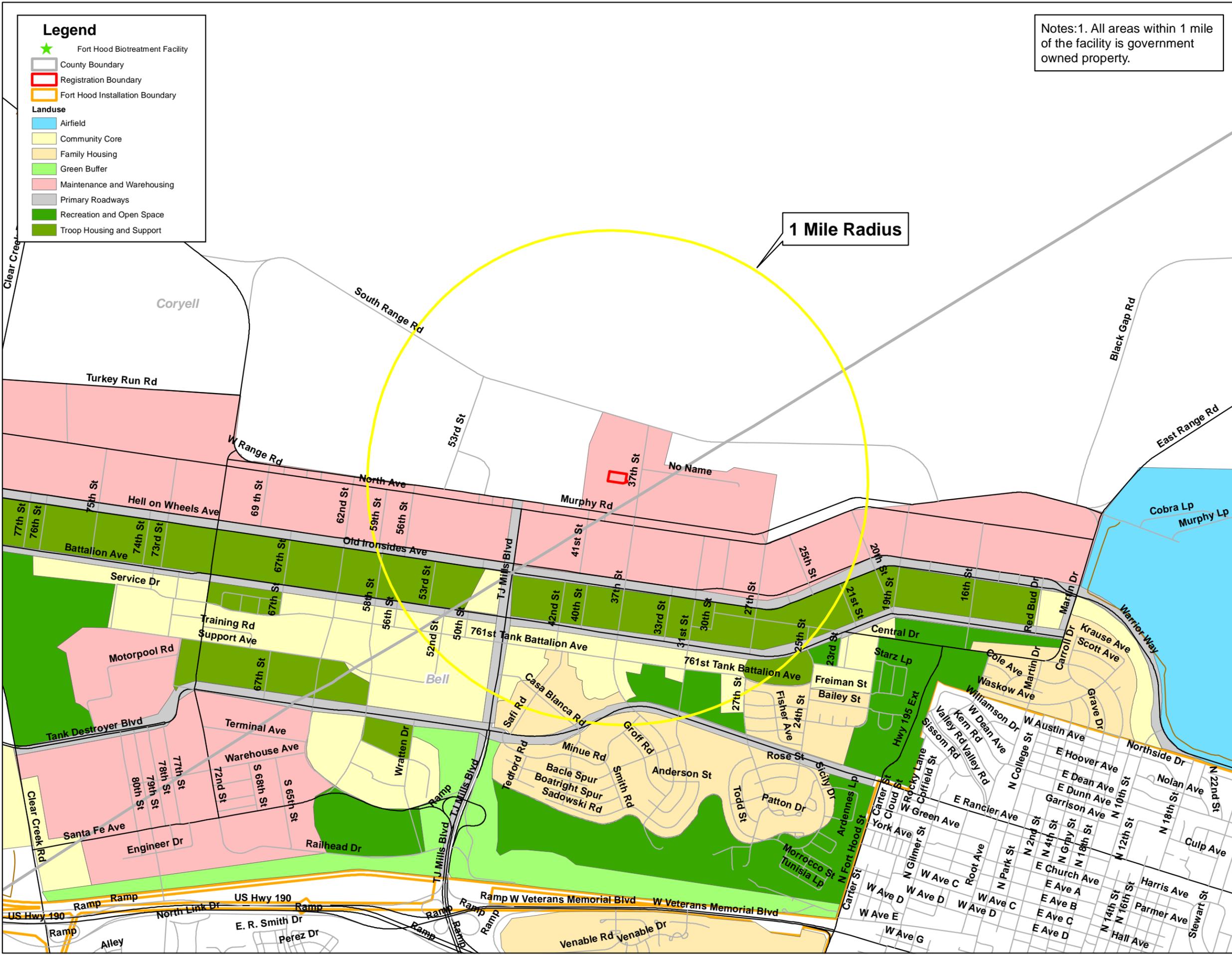


Revisions		
No	Date	Description



FEBRUARY 2014

PART II  
FIGURE II.6



\\swf-netapp1\Military\Fort\_Hood\Spatial\fort\_hood\_type\_5\_part\_ii\_6

**Legend**

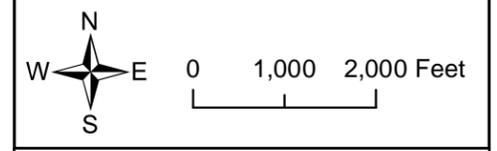
-  Registration Boundary
-  100 Year FEMA Floodplain
-  Fort Hood Installation Boundary
-  County Boundary
-  Fort Hood Biotreatment Facility

**FEMA 100-YEAR FLOODPLAIN MAP  
FORT HOOD  
BIOTREATMENT FACILITY**  
TYPE V MSW REGISTRATION  
U.S. ARMY III CORPS AND  
FORT HOOD DPW-ED  
CORYELL CO., TX



*CORPS OF ENGINEERS  
4/10/2014*  
*Jimmy D. Baggett*

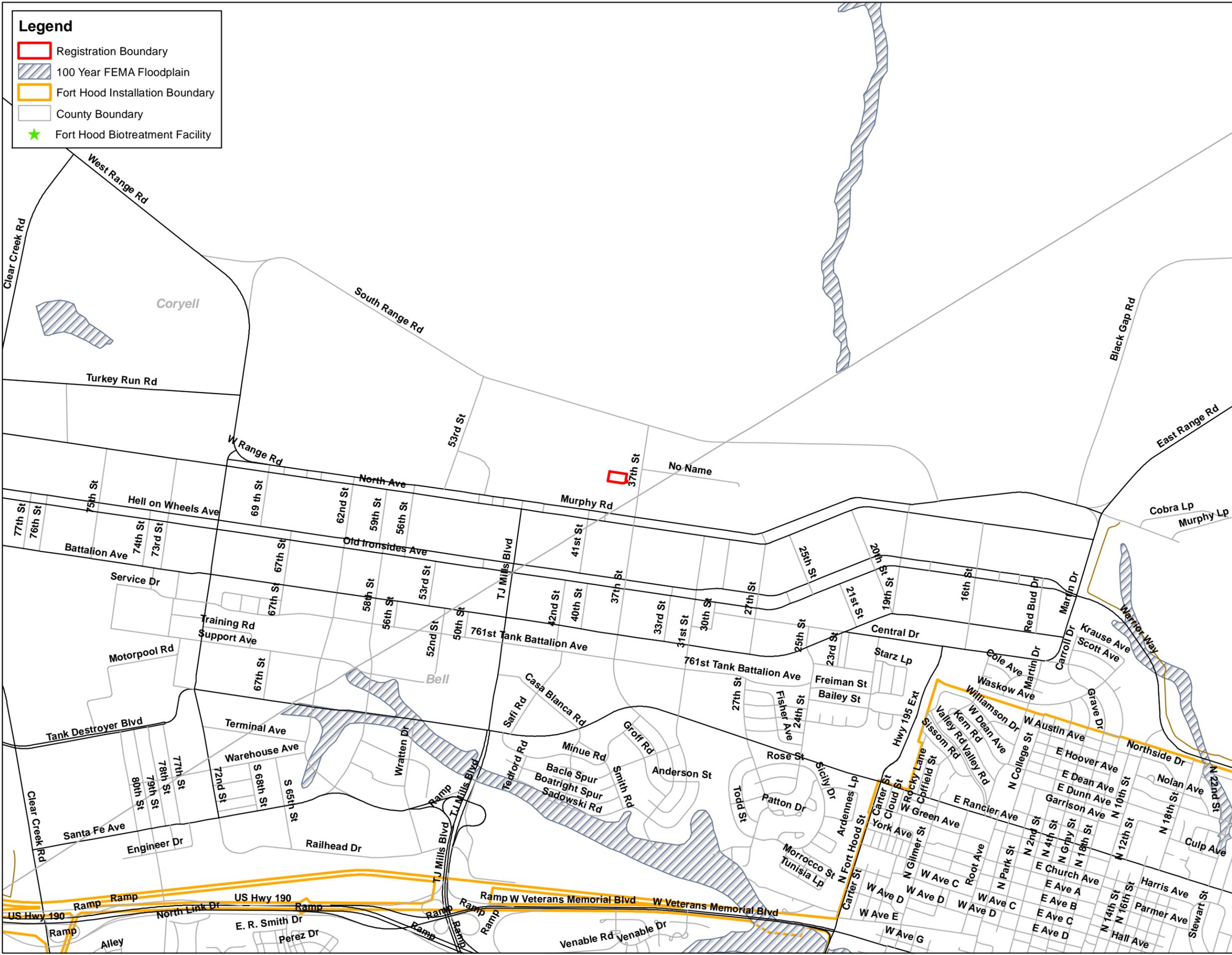
**FOR PERMITTING PURPOSES ONLY**  
Source- 2011 Fort Hood and USACE SWF-PER-PG  
Drawn By- Lucas Daniels, Chief- Eli Kangas  
Design By- Abram Pinon  
Reviewed By- Robert D. Bowersock



Revisions		
No	Date	Description



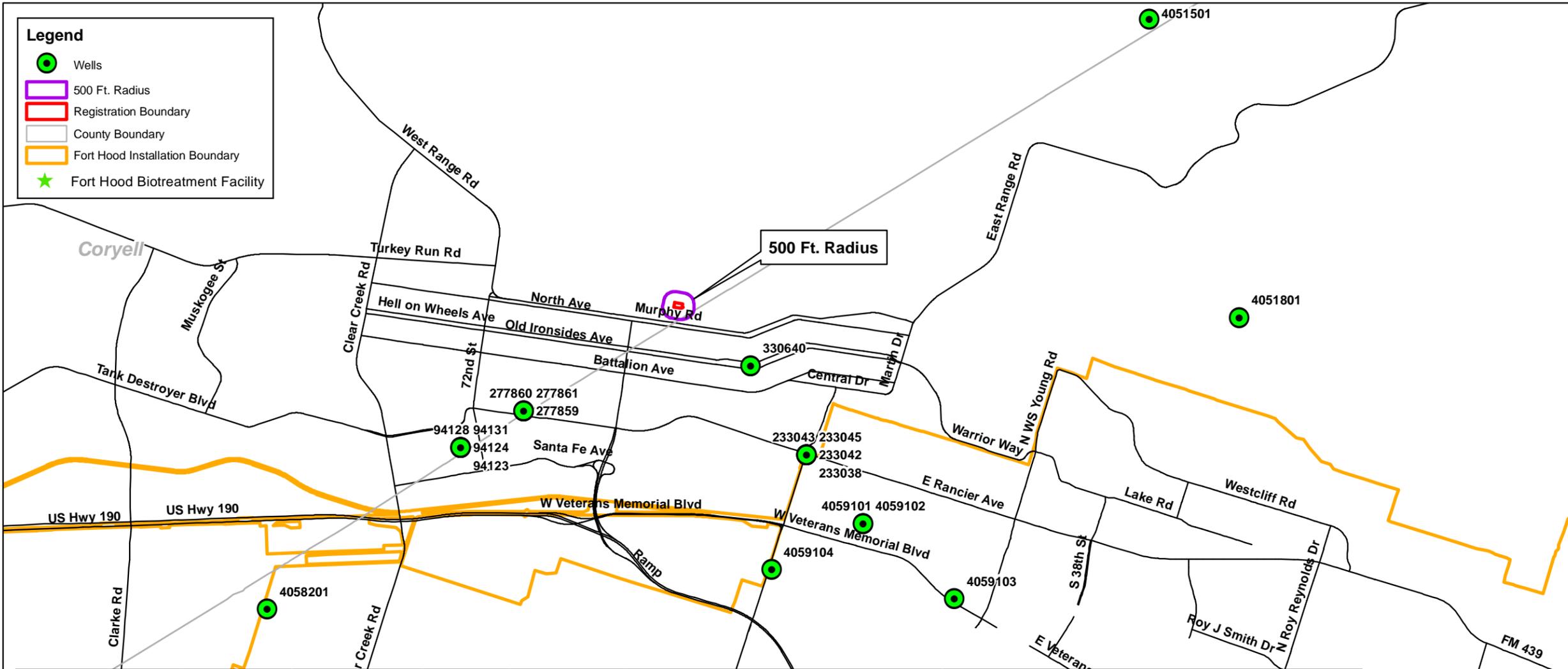
FEBRUARY 2014 PART II  
FIGURE II.7



\\swf-netapp1\Military\Fort\_Hood\Spatial\fort\_hood\_type\_5\_part\_ii\_7

**Legend**

- Wells
- 500 Ft. Radius
- Registration Boundary
- County Boundary
- Fort Hood Installation Boundary
- Fort Hood Biotreatment Facility



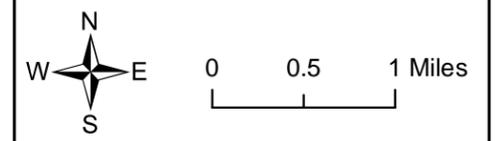
**WATER WELL LOCATION MAP  
FORT HOOD  
BIOTREATMENT FACILITY**  
TYPE V MSW REGISTRATION  
U.S. ARMY III CORPS AND  
FORT HOOD DPW-ED  
CORYELL CO., TX



*CORPS OF ENGINEERS  
4/10/2014*

*Jimmy D. Baggett*

**FOR PERMITTING PURPOSES ONLY**  
Source- 2011 Fort Hood and USACE SWF-PER-PG  
Drawn By- Lucas Daniels, Chief- Eli Kangas  
Design By- Abram Pinon  
Reviewed By- Robert D. Bowersock



**Well Information<sup>1</sup>**

Well ID <sup>3</sup>	Latitude	Longitude	Well Type	Well Depth (ft)	Surface Elevation (ft-msl)	Owner 1	Owner 2	TWDB WIID Water Well Data Type
4058201	31.111111	-97.818054	Observation	435	922	Clearwater Underground Water Conservation District	Upper Trinity Groundwater Conservation District	"TWDB Groundwater Data"
4059104	31.115277	-97.744721	Water Withdrawal	185	863	"O" Mart	N/A	"TWDB Groundwater Data"
4059101	31.120832	-97.731388	Water Withdrawal	25	842	City of Killeen	N/A	"TWDB Groundwater Data"
4059102	31.120832	-97.731388	Water Withdrawal	722	833	City of Killeen	#2 Well	"TWDB Groundwater Data"
4059103	31.111388	-97.718333	Water Withdrawal	184	803	R.P. Adams	N/A	"TWDB Groundwater Data"
4051801	31.145833	-97.676666	Water Withdrawal	910	980	Ed Huess No. 1	N/A	"TWDB Groundwater Data"
4051501	31.183054	-97.689166	Oil or Gas	2895	845	Sugarloaf Mtn. Oil Co.	N.A. Schwald	"TWDB Groundwater Data"
277859	31.135278	-97.780278	Monitor	25	N/A	Ft. Hood Directorate of Public Works	-	"Submitted Drillers Reports-D.I.M.s"
277860	31.135278	-97.780278	Monitor	25	N/A	Ft. Hood Directorate of Public Works	-	"Submitted Drillers Reports-D.I.M.s"
277861	31.135278	-97.780278	Monitor	25	N/A	Ft. Hood Directorate of Public Works	-	"Submitted Drillers Reports-D.I.M.s"
94123	31.130833	-97.789444	Monitor	20	N/A	Ft. Hood Directorate of Public Works	-	"Submitted Drillers Reports-D.I.M.s"
94124	31.130833	-97.789444	Monitor	20	N/A	Ft. Hood Directorate of Public Works	-	"Submitted Drillers Reports-D.I.M.s"
94128	31.130833	-97.789444	Monitor	25	N/A	Ft. Hood Directorate of Public Works	-	"Submitted Drillers Reports-D.I.M.s"
94131	31.130833	-97.789444	Monitor	29	N/A	Ft. Hood Directorate of Public Works	-	"Submitted Drillers Reports-D.I.M.s"
233038	31.129444	-97.739444	Monitor	20	N/A	USAA/HO MSVCE H4	-	"Submitted Drillers Reports-D.I.M.s"
233042	31.129444	-97.739444	Monitor	20	N/A	USAA/HO MSVCE H4	-	"Submitted Drillers Reports-D.I.M.s"
233043	31.129444	-97.739444	Monitor	20	N/A	USAA/HO MSVCE H4	-	"Submitted Drillers Reports-D.I.M.s"
233045	31.129444	-97.739444	Monitor	20	N/A	USAA/HO MSVCE H4	-	"Submitted Drillers Reports-D.I.M.s"
330640	31.130278	-97.780278	Geothermal	300	N/A	Ft. Hood Access Control Point	-	"Submitted Drillers Reports"

1. Information obtained from the Texas Water Development Board groundwater database. Information current as of August 14, 2013.  
2. N/A-Information not available.  
3. Wells identified are ones closely adjacent to the registration boundary.

Revisions

No	Date	Description



\\swf-netapp1\Military\Fort\_Hood\Spatial\fort\_hood\_type\_5\_part\_ii\_8

\\swf-netapp1\Military\Fort\_Hood\Spatial\fort\_hood\_type\_5\_part\_ii.9



**Legend**

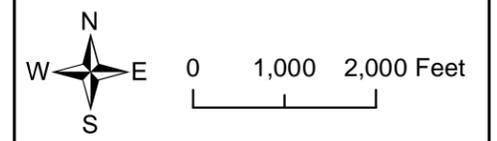
- ★ Fort Hood Biotreatment Facility
- Asphalt
- Central Parallel Access Road (Unpaved Tank Trail)
- Concrete
- Site Access Road (Asphalt)
- Western Parallel Access Road (Concrete)
- County Boundary
- Registration Boundary
- Fort Hood Installation Boundary

**ROAD UTILIZATION MAP  
FORT HOOD  
BIOTREATMENT FACILITY**  
TYPE V MSW REGISTRATION  
U.S. ARMY III CORPS AND  
FORT HOOD DPW-ED  
CORYELL CO., TX



CORPS OF ENGINEERS  
4/10/2014  
*Jimmy D. Baggett*

**FOR PERMITTING PURPOSES ONLY**  
Source- 2011 Fort Hood and USACE SWF-PER-PG  
Drawn By- Lucas Daniels, Chief- Eli Kangas  
Design By- Abram Pinon  
Reviewed By- Robert D. Bowersock

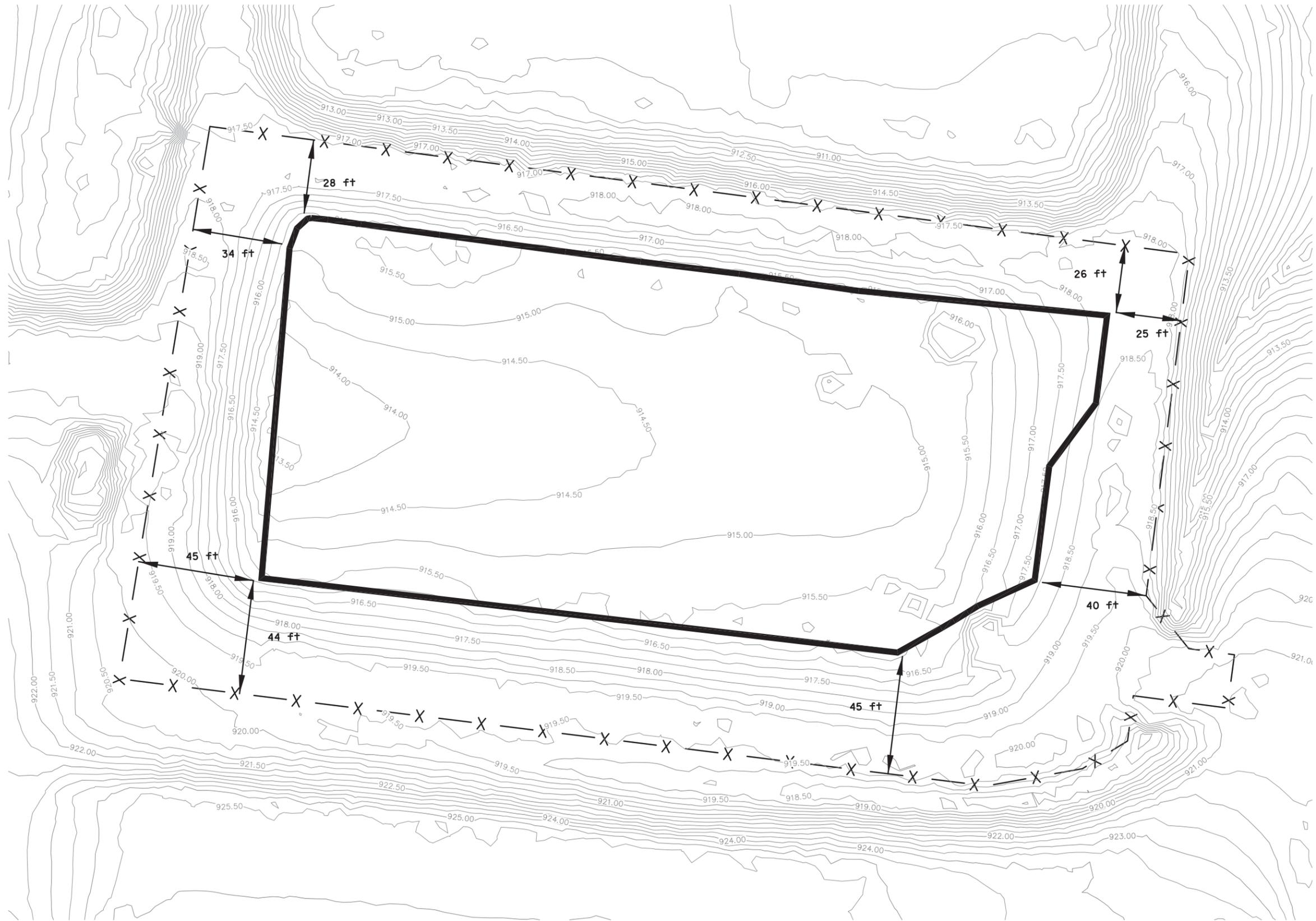


Revisions		
No	Date	Description





H:\Fort\_Hood\Design\Biotreatment\_Facility\_2012\JAN\_2014\11



**LEGEND**

- X — X — EXISTING FENCE LINE/REGISTRATION BOUNDARY
- (thick black line) — APPROXIMATE LIMITS OF SOLID WASTE STORAGE AND PROCESSING AREA
- 920.00 — SURFACE CONTOURS (SEE NOTE 1)

**NOTES:**

1. SURFACE CONTOUR DATA BASED ON A MARCH 9, 2011 LIDAR AERIAL SURVEY PROVIDED BY THE FORT HOOD DIRECTORATE OF PUBLIC WORKS.

CORPS OF ENGINEERS  
4/10/2014  
*Jimmy D. Baggett*



Symbol	Description	Tracking No.	Section	Date

Designed by: ABRAM PINON, P.E.	Date: FEBRUARY 2014	Revised by: CLIFTON MACK	Revision No.:
Reviewed by: DAVID BOWERSOCK, P.E.	Contract No.:	Submitted by: ABRAM PINON, P.E.	File Name:

CESWF  
PEC-TE

CORVELL COUNTY TEXAS  
FORT HOOD BIOTREATMENT FACILITY  
PN:0000

**BUFFER ZONE LAYOUT**

FOR PERMITTING PURPOSES ONLY

FIGURE  
II.11

**UNITED STATES ARMY III CORPS AND FORT HOOD  
DIRECTORATE OF PUBLIC WORKS-ENVIRONMENTAL  
DIVISION**



**FORT HOOD BIOTREATMENT FACILITY**

**CORYELL COUNTY, TEXAS**

**TYPE V MSW  
REGISTRATION APPLICATION**

**PART III**

Submitted by:

**UNITED STATES ARMY III CORPS AND FORT HOOD DIRECTORATE  
OF PUBLIC WORKS ENVIRONMENTAL DIVISION  
BLDG 4622, ENGINEER DRIVE  
FORT HOOD, TEXAS 76544**

Prepared by:



**US ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT**

April 2014



**Fort Hood Biotreatment Facility  
Part III  
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**Figure III.6 – Construction Details of Concrete Slab and Subsurface System**

**Figure III.7 – Construction Details of Concrete Slab and Subsurface System**

**Figure III.8 – Construction Details of Concrete Slab and Subsurface System**

**List of Attachments**

**Attachment A – 0.5 Acre Tier I Residential Soil Levels**

**Attachment B – Hydrologic Analysis**



## Figures



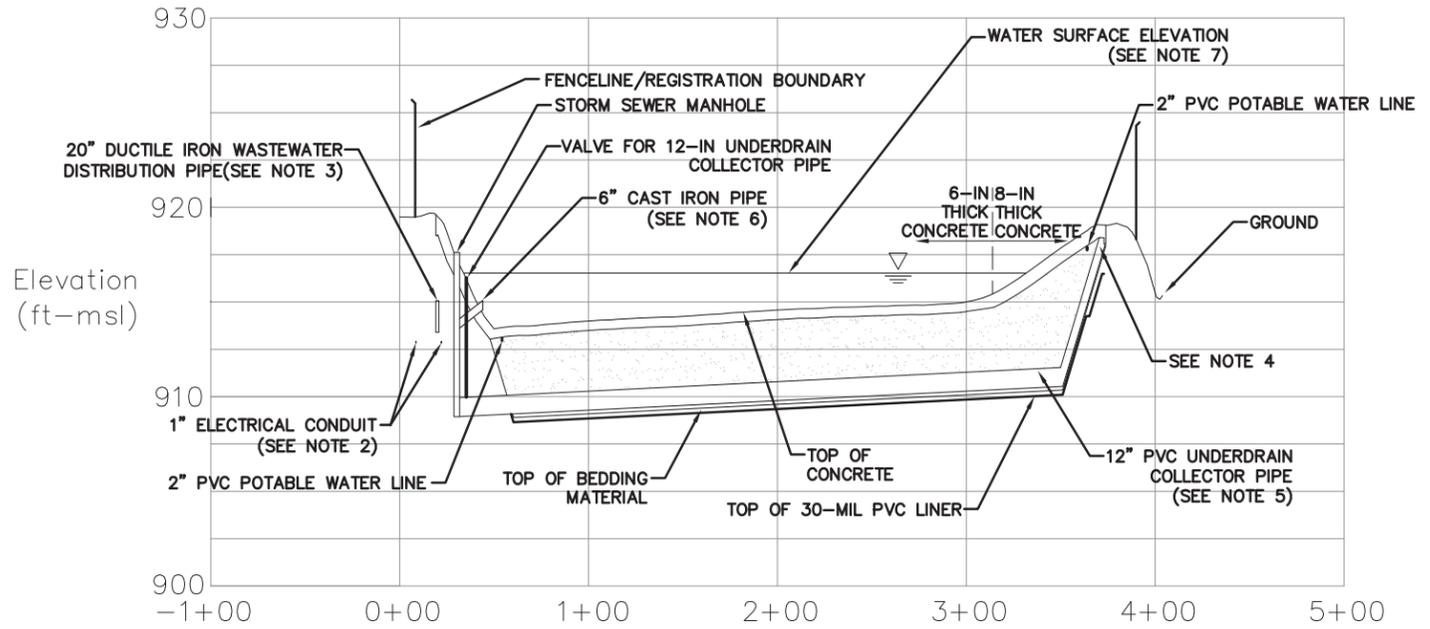




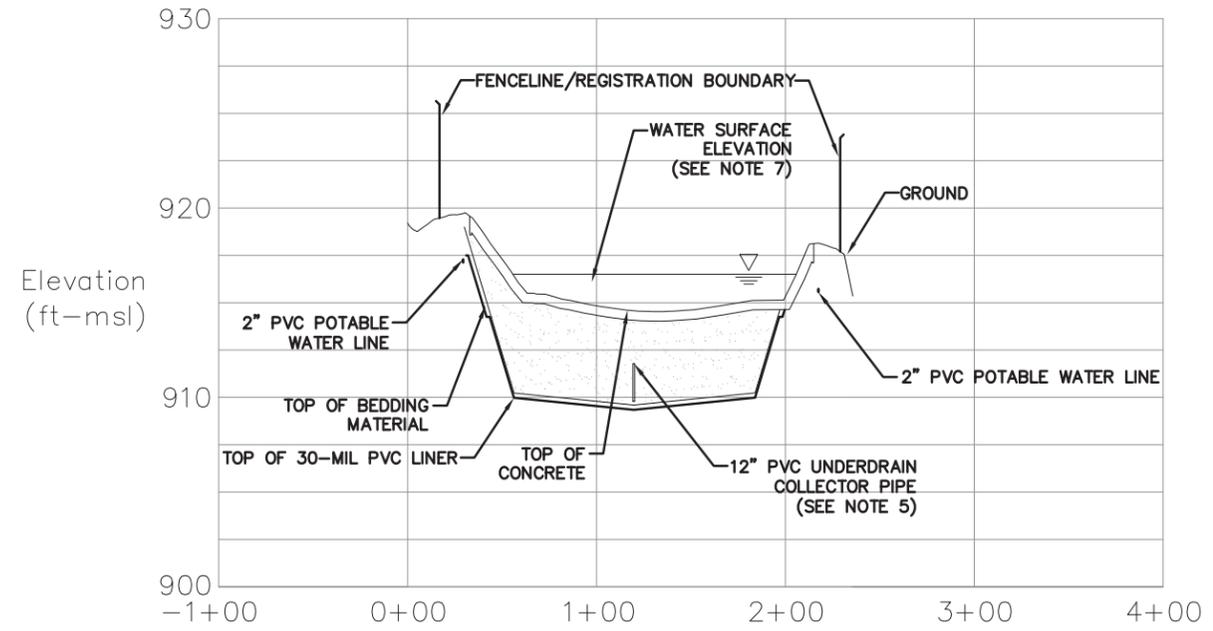


**NOTES:**

1. THE LOCATION OF ALL UTILITIES, PIPES, AND MANHOLES SHOWN ARE APPROXIMATE. INFORMATION BASED ON AS-BUILT DRAWINGS TITLED "TACTICAL VEHICLE WASH FACILITY" DATED AUG. 1984 AND A CONSTRUCTION DRAWINGS PACKAGE TITLED "BIOREMEDIATION AND GRIT SEPARATION FACILITY" DATED JULY 1997 WITH SUPPLEMENTED COORDINATION WITH AMERICAN WATER MILITARY SERVICES GROUP. AN ADDITIONAL AUG. 2013 FIELD RECONNAISSANCE WAS CONDUCTED BY FORT HOOD DIRECTORATE OF PUBLIC WORKS-ENVIRONMENTAL DIVISION TO CONFIRM UTILITY LOCATION.
2. DEPTH OF UTILITY IS AN ESTIMATE. NO RECORDS WERE AVAILABLE TO IDENTIFY THE DEPTH.
3. THE CAPPED 20-IN DUCTILE IRON PIPE THAT IS ADJACENT TO THE 6-IN CAST IRON PIPE IS NOT SHOWN FOR CLARITY PURPOSES.
4. ACCESS POINT TO THE 12-IN PVC UNDERDRAIN COLLECTION PIPE CLEANOUT WAS IMPACTED BY THE PLACEMENT OF CONCRETE. ACCESS TO THE CLEANOUT NO LONGER EXISTS.
5. THE 12-IN PVC HEADER UNDERDRAIN COLLECTION PIPE IS NON-PERFORATED AND INSTALLED AT A 0.5% GRADE. 4-IN PVC LATERAL PERFORATED COLLECTOR PIPES ARE INSTALLED AT A 1.0% GRADE AND CONNECT TO THE HEADER COLLECTOR PIPE. 4-IN PVC LATERAL IS NOT SHOWN.
6. VALVE TO 6-IN CAST IRON PIPE IS INSIDE THE STORM SEWER MANHOLE.
7. WATER SURFACE ELEVATION SHOWN IS BASED ON A 25-YEAR, 24 HOUR STORM EVENT. WATER SURFACE ELEVATION SHOWN IS CONSERVATIVE SINCE IT DOES NOT ACCOUNT FOR THE 6" CAST IRON PIPE. THE 6" CAST IRON PIPE IS DESIGNED AND IN-PLACE TO REDUCE THE WATER SURFACE ELEVATION WITHIN THE CONCRETE LINED SURFACE.



Cross Section A-A'  
 HORIZONTAL SCALE: 1" = 100'  
 VERTICAL SCALE 1" = 10'



Cross Section B-B'  
 HORIZONTAL SCALE: 1" = 100'  
 VERTICAL SCALE 1" = 10'

CORPS OF ENGINEERS  
 4/10/2014  
*Jimmy D. Baggett*



Symbol	Description	Tracing No.	Action	Date

Designed by: ABRAM PINON, P.E. Drawn by: CLIFTON MACK Reviewed by: DAVID BONESOCK, P.E. Submitted by: ABRAM PINON, P.E.	Date: FEBRUARY 2014 Station No.: Contract No.: File Name:
	CESWF PEC-TE

CORYELL COUNTY TEXAS  
 FORT HOOD BIOTREATMENT FACILITY  
 PN:0000  
 FACILITY COMPONENT LAYOUT  
 CROSS-SECTIONS  
 FOR PERMITTING PURPOSES ONLY

FIGURE  
 III.5

K:\Fort\_Hood\Design\Biotreatment\_Facility\_2012\10\_16\_2013\_ALL\_BIO\III.5\_Cross\_Sections







**Attachment B**  
**Hydrologic Analysis**

## PURPOSE AND SCOPE

This facility surface water drainage report was prepared to demonstrate compliance with 30 Texas Administrative Code (TAC) §330.63(c) and 30 TAC §330.303.

## PROPERTY DESCRIPTION

The Fort Hood Biotreatment Facility currently consist of a concrete impervious surface that drains to a sump located along the western perimeter of the facility. In the late 1990's, a 6-inch to 8-inch thick 3,000 psi concrete slab was placed above an existing water filtration pond to facilitate the development of a biotreatment facility. The water filtration pond was originally constructed in the mid-1980's as part of a closed loop water recirculation system designed capture and treat waste water from vehicle washing that is currently ongoing north of the Fort Hood Biotreatment Facility. Below the existing concrete surface is ballast material consisting of sand and/or rock of various thickness, 3-inches of bedding material, a 30-mil PVC liner, and a 3-inch thick layer of cushion material.

## SUMMARY

The Fort Hood Biotreatment Facility is constructed and will be maintained and operated to manage run-on and runoff during the peak discharge of a 25-year, 24-hour storm event. The Fort Hood Biotreatment Facility designed to prevent the off-site discharge of waste and feedstock material, including, but not limited to, in-process and/or processed materials by utilizing the following features:

- Approximately 170,000 cubic feet of available storage capacity.
- A 6-in cast iron pipe position approximately 1 foot above the lowest elevation of the concrete surface (i.e., sump area).
- The 6-in cast iron pipe discharges to a closed loop water recirculation system that is used to treat wash water that originates from an adjacent vehicle wash facility.

Discharges associated with the treatment process of the Fort Hood Biotreatment Facility do not discharge to the waters of the state. All drainage affected by the waste processing at the facility is self contained. A 6-inch cast iron pipe with an invert elevation of 914.50 ft-msl drains the collected surface water to a closed loop water recirculation system, as described in Section 2.3 of Part III. See Figure IIIB.1, Drainage Area A for more information.



Four other separate drainage areas within the registration boundary produce run-off at the facility. These four drainage areas are not impacted by the waste processing conducted at the facility. See Figure IIIB.1, Drainage Areas B, C, D, and E for more information.

Drainage calculations were made for the existing drainage conditions. No changes are proposed under this registration application from what currently exists on site. The existing conditions on-site do not have any adverse impacts on surface water drainage. The following calculation provides the estimated water volume produced by a 25-year, 24-hour storm event, and the approximate extent of inundation. See Figure IIIB.1 for more information.

Total Drainage Area (Area A): 86,871 square feet  
25-year, 24-hour Storm Event: 8 in (0.667 feet) of precipitation  
Total Volume of Water: 57,941 cubic feet

Approximate Volume of Inundation at a Surface Elevation of 916.50 ft-msl: 61,000 cubic feet



**UNITED STATES ARMY III CORPS AND FORT HOOD  
DIRECTORATE OF PUBLIC WORKS-ENVIRONMENTAL  
DIVISION**



**FORT HOOD BIOTREATMENT FACILITY**

**CORYELL COUNTY, TEXAS**

**TYPE V MSW  
REGISTRATION APPLICATION**

**PART IV**

Submitted by:

**UNITED STATES ARMY III CORPS AND FORT HOOD DIRECTORATE  
OF PUBLIC WORKS ENVIRONMENTAL DIVISION  
BLDG 4622, ENGINEER DRIVE  
FORT HOOD, TEXAS 76544**

Prepared by:



**US ARMY CORPS OF ENGINEERS  
FORT WORTH DISTRICT**

April 2014



**Fort Hood Biotreatment Facility  
Part IV  
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