SPILL PREVENTION AND RESPONSE PLAN (SPRP)

USAG STUTTGART

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USAG STUTTGART

Update January 2024

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APPROVALS

This Spill Prevention and Response Plan (SPRP) addresses spill prevention, control, and response specific to Petroleum, Oil, Lubricants (POL) and Hazardous Substances (HS) transport, storage, handling, and disposal at the U.S. Army Garrison (USAG) Stuttgart.

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CERTIFICATIONS

As a certified technical authority, I certify this Stuttgart Spill Prevention and Response Plan (SPRP) is prepared IAW good engineering practice and is adequate for the facility. This SPRP is prepared IAW Chapter 18 of the German Final Governing Standards and provides measures to prevent and, to the maximum extent practicable, to remove the chances of a worst-case discharge from USAG Stuttgart.

Technical changes (i.e., non-administrative) to the plan require recertification. This plan requires an update at least every 5 years, or within 6 months of any significant changes to operations, or if there have been two significant spills to navigable waters in any 12-month period, or when there has been a spill of ≥ 3,785 liters (1,000 gallons).

Certified By:

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USAG STUTTGART SPILL PREVENTION AND RESPONSE PLAN

RECORD OF REVISIONS

The SPRP must be reviewed and updated at least every 5 years or within 6 months of any significant changes in operations, or when there have been two significant spills to navigable waters in any 12-month period; or when there has been a spill of ≥ 3,785 liters (1,000 gallons) in accordance with Chapter C18.3.1.1. – C18.3.1.1.3. of the German Final Governing Standards (GFGS) Chapter 18, Spill Prevention and Response Planning. To fulfill this requirement, the following table is provided for tracking revisions to this plan.

Revision No.	Date	Description	Pages Affected
1	Feb 2010	Comprehensive revision of 2007 SPRP by AMEC Earth & Environmental GmbH and DPW-ED	All
2	June 2010	DPW-ED staff revisions	ii, 1-1, 1-2, 1-5 to 1-7, 2-1, 3-2, 6-1, 7-1, 4-1 to 4-3, A1-1 to A1-4
3	July 2010	DPW-ED staff revisions	A7-5, A7-6, A8-5, A8-6
4	Feb 2013	DPW-ED staff revisions	Approvals, ii, 1-7, 1-8, 4-1, 6-1, A4-1, A4-2, A6-4, A7-5, A7-6, A8-5, A8-6, App. 10 added
5	March 2015	DPW-ED staff revisions	Approvals, A6-4, A6-5, A7-1 till A7-6, A8-1 till A8-6, A10-1
6	January 2016	DPW-ED staff revisions	Approvals, 1-5, 1-6, 7-1, A1-1, A5-6, A6-1, A6-4, A7-5, A7-6, A8-5, A8-6,
7	May 2018	DPW-ED staff revisions	A6-4, A7-5, A8-5,1-7
8	December 2020	SPRP update by Wood with approval through DPW-ED staff	Entire document
9	February 2022	DPW-ED staff revisions	Approvals,1-7,A5-8-15, A6-6, A7-5, A8-5
10	January 2024	SPRP updated by Tetra Tech with approval through DPW-ED staff	Approvals, 1 to 4 ,5, references, A1-2, A5, A6-6, A6-7, A7-2, A7-5, A7-6, A8-2, A8-5, A8-6, A10-1, Appendix 11 added
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LIST OF ACRONYMS AND ABBREVIATIONS

1/10th SFG	1st Battalion, 10th Special Forces Group
7th ATC	7th Army Training Command
405th AFSB BASOPS	405th Army Field Support Brigade, Base Support Operations
405th AFSB HM	405th Army Field Support Brigade, Hazardous Material
554th MP	554th Military Police
AAFES	Army & Air Force Exchange Service
AAFES CCC	Army & Air Force Exchange Service Car Care Center
AST	Aboveground Storage Tank
AwSV	Ordinance on facilities handling water-endangering substances (Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen)
BTA	Böblingen Training Area
COL	Colonel
DeCA	Defense Commissary Agency
DES	Directorate of Emergency Services
DES MP	Directorate of Emergency Services Military Police
DESC	Defense Energy Support Center
DoD	Department of Defense
DoDI	Department of Defense Instruction
DoDEA	Department of Defense Education Activity
DOL	Directorate of Logistics
DOL/TMP	Directorate of Logistics/ Transportation Motor Pool
DPTMS/IOC	Directorate of Plans, Training, Mobilization and Security /Installtion Operations Center
DPW	Directorate of Public Works
ED	Environmental Division
EEA	Environmental Executive Agent
EO	Environmental Officer
FIC	Facility Incident Commander
FRT	Facility Response Team
GFGS	German Final Governing Standards

LIST OF ACRONYMS AND ABBREVIATIONS

GFK	Glass-fiber reinforced plastic (Glasfaser verstärkter Kunststoff)
gal	Gallon
HAZCOM	Hazard Communication
HS	Hazardous Substance
HW	Hazardous Waste
HWAP	Hazardous Waste Accumulation Point
HWBAT	Container for Collection of Household Batteries
HWCON	Container for Collection of Cooking Oil
HWMP	Hazardous Waste Management Plan
HWSA	Hazardous Waste Storage Area
IMC	Installation Management Contract
IMCOM	Installation Management Command
kg	Kilogram
MAV TLSC-E	Maintainance Activity Vilseck Theater Logistics Support Center Europe
FMWR	Family and Moral, Welfare and Recreation
NSWU/2	Naval Special Warfare Unit-2
O&M	Operation and Maintenance
OWS	Oil Water Separator
PAIO	Plans, Analysis and Integration Office
PAO	Public Affairs Office
POC	Point of Contact
POL	Petroleum, Oil and Lubricants
PPE	Personal Protective Equipment
SDS	Safety Data Sheet
SOP	Standard Operating Procedure
SPRP	Spill Prevention and Response Plan
TÜV	Technical Supervisory Association (Technischer Überwachungsverein)

LIST OF ACRONYMS AND ABBREVIATIONS

TLSCE-E/ MAV Det	Theater Logistics Support Center – Europe Maintainance Activity Vilseck Detachment
U.S.	United States
USEUCOM	United States European Command
USAG	United States Army Garrison
UST	Underground Storage Tank
VMR SPMAGTF C12W	Special Purpose Marine Air-Ground Task Force
WGK	Water hazard class (Wassergefährdungsklasse)

1 INTRODUCTION

This Spill Prevention and Response Plan (SPRP) has been developed for the United States Army Garrison (USAG) Stuttgart. The Garrison Commander or their approved representative is responsible for the overall content and effectiveness of this plan.

1.1 PURPOSE

This SPRP satisfies the requirement to prepare, maintain and implement a Spill Prevention and Response Plan contained in German Final Government Standards (GFGS) Chapter C18.3.1., *Spill Prevention Control and Reporting Plan Requirement*. Each of the components of this SPRP corresponds to GFGS requirements, as documented in Table 1-1.

1.1.1 Slug Prevention Plan

Appendix 6 has been prepared to develop a Slug Prevention Plan, fulfilling the requirement of GFGS Chapter C4.3.2.3.6.

1.1.2 Hazardous Waste Contingency Plan

This SPRP contains the information required for a Hazardous Waste (HW) Contingency Plan in accordance with GFGS Chapter C6.3.6.1. The contingency plan must be maintained at the Hazardous Waste Storage Area (HWSA) and each Hazardous Waste Accumulation Point (HWAP) in accordance with GFGS Chapter C6.3.6.2.1. HWAPs need to maintain only parts of the contingency plan that are pertinent to their facilities and operation, such as the *Red Plan*. The Red Plan should be available in English and German (GFGS Chapter C6.3.6.2.2.).

1.2 APPLICABILITY

This SPRP applies to all installations, facilities, units, activities, and organizations associated with the USAG Stuttgart that use, transport, store, handle, or dispose of petroleum, oil and lubricants (POL) and/or hazardous substances (HS). This plan is applicable to any Garrison activities involving POL and/or HS whether these activities are executed on or off the USAG Stuttgart installations. Off-installation activities include any operations outside the Garrison or installation boundaries or on property not under U.S. control, such as off-post training activities and maneuvers. In addition, this document applies to the activities of any external organization or unit (not associated to the USAG Stuttgart) that use training areas on or otherwise operate within the Garrison's area of responsibility.

This SPRP is applicable to the following installations of USAG Stuttgart:

- Böblingen Training Area (BTA), Böblingen
- Böblingen Family Housing, Böblingen
- Böblingen Officers Club, Böblingen
- Böblingen Range, Böblingen
- Kelley Barracks, Stuttgart – Möhringen
- Kornwestheim Golf Course, Kornwestheim
- Panzer Kaserne, Böblingen
- Patch Barracks, Stuttgart – Vaihingen
- Robinson Barracks, Stuttgart (including Robinson-Grenadier Family Housing, Stuttgart Dependent School
- Stuttgart Army Airfield, Echterdingen
- Weilimdorf Warehouse, Stuttgart-Weilimdorf

1.3 RED PLAN DISTRIBUTION

The Red Plan must be placed at facilities where POL and/or HS are stored, used, and handled for quick reference during spill incidents. The Red Plan is available in English (Appendix 7) as well as in German (Appendix 8).

1.4 RESPONSIBILITIES

1.4.1 Facility Incident Commander (FIC)

The FIC is designated in writing by the Garrison Commander. The tasks of the FIC are fulfilled by the Directorate of Emergency Services (DES). The FIC's responsibilities include:

- In case of a significant spill, the FIC will immediately notify the Spill Coordinator, the appropriate Unit Commander, the Garrison Commander, the Garrison Fire Department, the Installation Management Command, Europe Environmental Executive Agent (IMCOM EEA), and the Defense Energy Support Center (DESC), if Directorate of Logistics (DOL) - owned facilities are involved.
- If the spill occurs off the installation, the nearest German fire department and German police station shall be notified. The appropriate German authority (Untere Wasserbehörde in Baden-Württemberg) will be notified by the German Fire/Police Department.
- Establishing and directing the Facility Response Team (FRT).
- Coordinating and directing Department of Defense (DoD) control and cleanup efforts at the scene of a POL or HS spill due to DoD activities on or near a garrison.
- Mobilizing the FRT immediately after a spill is reported.
- Coordinating with the FRT to accomplish any spill response actions as effectively as possible.
- Directing the cleanup of the stabilized spill material or any residual contamination of soil, water, or equipment.
- Determining the point at which an emergency no longer exists.
- As necessary, a written report will be provided to the appropriate Unit Commander, the Garrison Commander, the IMCOM EEA, the appropriate German Federal State authority, and the Spill Coordinator.

1.4.2 Facility Response Team (FRT)

The FRT is established and directed by the FIC. The tasks of the FRT are fulfilled by the USAG Fire Department, whereby the responsibilities include:

- Providing personnel and equipment for emergency situations and significant spills.
- Responding to a spill incident and being responsible for controlling the spill and its cleanup.
- Ensuring proper disposal of spill residue of minor spills.
- Maintaining training appropriate to response levels.
- Maintaining an emergency plan that includes information on the nearest German Fire Departments with spill response capability, units and facilities of German disaster protection services; and U.S. or German agencies or individuals whose expertise or advice may be helpful.
- Support the FIC in developing a written report of each spill incident, as necessary.

1.4.3 Directorate of Public Works (DPW) Responsibilities

1.4.3.1 Spill Coordinator

The Spill Coordinator is the individual, at the DPW Environmental Division (ED), primarily responsible for the spill prevention and response program. Responsibilities include:

- Reviewing plans and specifications presented to the DPW ED concerning spill prevention measures.

- Supporting development of plans and designing standards that meet all requirements of this SPRP.
- Testing the effectiveness and responsiveness of this SPRP on an annual basis. The test should include members of the FRT.
- Disseminating training information to include provisions contained within this plan.
- Coordinating with the Garrison Fire Department, German Police, and appropriate members of the FRT to arrange the control and cleanup of POL and/or HS discharges or spills off-installations, which the USAG Stuttgart is responsible for.
- Establishing prearranged agreements with potential German resources (e.g. German disaster protection agency, remediation contractor, etc.), so they are available if a spill exceeds the response capabilities of the installation.
- Recording and evaluating spill reports.

1.4.3.2 Hazardous Waste Emergency Coordinator

Installations that store HW must designate a person or persons to act as HW Emergency Coordinator for the HWSA and the HWAPs, including the containers for collection of household batteries (HWBATs) and cooking oil (HWCONs). For the USAG Stuttgart, the Spill Coordinator is also the HW Emergency Coordinator. Responsibilities include:

- Familiarity with all aspects of this SPRP.
- Familiarity with all installation operations involving HW, the location of all HW records, and the layout of the HWSA and HWAPs.
- Authority to commit resources for implementing the HW Contingency Plan (see Section 1.1.2, HW Contingency Plan).

1.4.4 Responsibilities at the Units

1.4.4.1 Unit Commander

Major units are 1/10th Special Forces Group, 554th Military Police, MAV TLSC-E, NSWU/2, FMWR Autoskills Center, AAFES CCC and 405th AFSB HM Reuse Center.

Responsibilities include:

- Coordinating with the Garrison Commander, DPW ED, and DES as necessary to ensure effective implementation, review, and testing of this SPRP.
- Coordinating with and assisting the FRT for the cleanup of POL and/or HS releases whenever the unit's area of responsibility is involved, and ensuring that all spills are reported as per this SPRP (see notification procedures in Section 4 of this SPRP).
- Ensuring that unit personnel are trained and follow procedures for POL and HS handling, emergency response, and clean up.
- Appointing an Environmental Officer (EO) with direct responsibility for POL and HS management.
- Reviewing unit standard operating procedures (SOPs) after a spill occurs to see if changes are needed to prevent a reoccurrence. Also, providing a written report to the Spill Coordinator if the spill meets the reporting criteria listed in Section 4.2 of this SPRP.

1.4.4.2 Environmental Officer (EO)

Responsibilities include:

- Notifying the FRT if the spill is significant.
- Ensuring the SPRP is available at the applicable workplaces and kept in a location easily accessible for all unit members.
- Ensuring that all unit personnel receive spill response training.
- Ensuring correct handling of HS and disposal of HW at unit level.

- Verifying whether spill control structures are effective.
- Ensuring that Spill Response Materials are available.
- Maintaining an inventory and safety data sheets (SDSs) of all HS handled at the unit level.
- Conducting regular inspections of the HS storage sites and promptly correcting deficiencies.

1.4.4.3 Public Affairs Office (PAO)

Responsibilities include:

- Coordinating with the USAG Commander about releasing information to the public, e.g. media or civilians.
- Releasing information to the public.

Table 1-1: SPRP Regulatory Cross Reference Matrix

GFGS Chapter	Description	Applicable SPRP Section	Remarks
C4.3.2.3.6	Slug Prevention Plan	Appendix 6	
C5.3.4	Master Listing and Inventory	Appendix 5	
C5.3.14.3.	Inspections for ASTs containing Water Endangering Substances	A1.3	
C6.3.6	Contingency Plan	1.1.2/ Appendix 7/ Appendix 8	
C9.3.2	POL storage tanks	A1.3	
C9.3.5.2	POL pipelines	A1.3	
C9.3.5.3	POL storage facility	A1.3	
C11.3.1.4	Pesticides	A1.4	
C18.3.2.1	Facility Incident Commander (FIC)	1.4.1/ Appendix 7/ Appendix 8	
C18.3.2.2	General Installation Information	Appendix 4	
C18.3.2.3	Inventory of Potential Spill Sites	Appendix 5	
C18.3.2.4	POL and HS Inventory	Appendix 5	
C18.3.2.7	Emergency Services Arrangements	4.3/ Appendix 7/ Appendix 8	
C18.3.2.8	Emergency Services Contact List	Appendix 7/ Appendix 8	
C18.3.2.9	Spill Prevention Control Equipment	Appendix 5	
C18.3.2.11	Emergency Equipment	Appendix 5	
C18.3.2.13	Spill Prevention Deficiencies	Appendix 3	
C18.3.2.14.1	Operations to Preclude Spills	Appendix 1	
C18.3.2.14.2	Inspections	2.4/ Appendix 2	
C18.3.2.14.3	Record-keeping	5	
C18.3.3.1	Responsibilities	1.4	
C18.3.3.2	Immediate Response Actions	3.1/ Appendix 7/ Appendix 8	
C18.3.3.3	Facility Response Team (FRT)	1.4.2/ 6.2	
C18.3.3.6	Procedures for Public Affairs Involvement	4.3.5	
C18.3.3.5	Emergency Contact List	Appendix 7/ Appendix 8	
C18.3.3.7	Notification of FIC, Commander and Local Authorities	4.3/ Appendix 7/ Appendix 8	
C18.3.3.8	Notification Responsibilities	1.4/ Appendix 7/ Appendix 8	
C18.3.3.9	Surveillance Procedures	Appendix 2	
C18.3.3.10	Prioritized List of Critical Resources	Appendix 4	
C18.3.3.11	Other Resources	4.3	

GFGS Chapter	Description	Applicable SPRP Section	Remarks
C18.3.3.12	Cleanup Methods	3.3	
C18.3.3.13	Procedures for Reuse and Disposal	3.3.1	
C18.3.3.14	Health, Safety, and Fire Prevention	3	
C18.3.3.15	Releasing Information	4.3.5	
C18.2.11	Significant Spill	4.2	
C18.3.4	Notification requirements	4.3/ Appendix 7/ Appendix 8	
C18.3.4.3	Spills inside DoD installation	4.3.1/ Appendix 7/ Appendix 8	
C18.3.4.4	Spills inside DoD- inst. not contained	4.3.2/ Appendix 7/ Appendix 8	
C18.3.4.5	Spill outside DoD-installation	4.3.3/ Appendix 7/ Appendix 8	
C18.3.5	Training and Response Drills	6	
C18.3.6	Removal/Management of Contaminated Soil	3.3.1	
C19.3	UST Systems	2.4/ A1.5	

Table 1-2: Locations of SPRP Copies

Installation Name	Facility Name/Unit	Building No.	Person Responsible for Plan
BTA	7th ATC	3000	EO/Manager
Kelley Barracks	AAFES Gas Station	3325	Manager
Kelley Barracks	DeCA Commissary	3317	Manager
Kelley Barracks	405th AFSB BASOPS	3320	EO/Manager
Kelley Barracks	FMWR Arts & Crafts	3319	EO/Manager
Kelley Barracks	O&M	3360	Roads and Grounds Chief
Kelley Barracks	DPW Shops	3318	Supervisor
Panzer Kaserne	Panzer Main Exchange, PX	2903	Manager
Panzer Kaserne	AAFES CCC Shop	2935A	EO/Manager
Panzer Kaserne	AAFES CCC	2935A	Director
Panzer Kaserne	DeCA Commissary	2957	Manager
Panzer Kaserne	405th AFSB Logistic	2953	Director
Panzer Kaserne	405th AFSB HM- Reuse Center	2956	EO/Manager
Panzer Kaserne	DPW	2941	Panzer IC
Panzer Kaserne	FMWR Auto Skills Ctr.	2929 HWAP/ 2930 Shop	Unit EO
Panzer Kaserne	FMWR Bowling Ctr.	2988	Manager
Panzer Kaserne	NSWU/2 Motorpool	2970	Unit EO
Panzer Kaserne	PAO	2949	Manager
Panzer Kaserne	Safety Office	2948	Manager
Panzer Kaserne	Industrial Hygiene	2948	Chief
Panzer Kaserne	TLSC-E/MAV Det.	2935B	EO/Supervisor
Panzer Kaserne	1/10th SFG Motorpool	2969	Unit EO
Panzer Kaserne	554th MP Motorpool	2958	Unit EO
Panzer Kaserne	Veterinary Clinic	2996	Unit EO
Panzer Kaserne	Dental Clinic	2996	Unit EO
Panzer Kaserne	DoDEA High School	3081	Principal
Patch Barracks	AAFES Gas Station	2349	Manager
Patch Barracks	DES MP Desk	2307	Chief
Patch Barracks	Garrison Contractor	2333	Centerra
Patch Barracks	DPW	2316	Patch IC
Patch Barracks	DES Fire Dep.	2307	Chief
Patch Barracks	Health Clinic	2300	Unit EO
Patch Barracks	DeCA Commissary	2350	Manager
Patch Barracks	FMWR Arts & Crafts	2329	EO/Manager
Robinson Barracks	DPW	196	RB IC
Robinson Barracks	DeCA Commissary	146	Manager
Stuttgart Army Airfield	DOL/TMP	3241	Manager
Stuttgart Army Airfield	Airfield Command	3255	Manager
Stuttgart Army Airfield	Fire Department	3219/3254	Fire Station
Stuttgart Army Airfield	VMR SPMAGTF C12W	3220	Unit EO
Stuttgart Army Airfield	Transient Alert	3227	Unit EO
Stuttgart Weilimdorf	Warehouse	5376	Manager

2 SPILL PREVENTION

This chapter of the SPRP provides procedures for the prevention of POL and HS spills within the USAG Stuttgart area of control whether on or off-installation. Maps providing water protection areas, etc. along with other pertinent information are included in Appendix 4. SOPs (Appendix 1) have been implemented to reduce the risk of spills by establishing consistent practices that are less likely to result in the uncontrolled release of POL and HS. Employees that work with POL and HS shall be familiar with the Evacuation Plan and inspection and surveillance procedures for POL and HS operations (Appendix 2).

All field operations, maneuvers, and exercises, whether on- or off-installations, must be performed in compliance with this SPRP. The spill prevention and response procedures in this plan also apply to activities at local training areas, major training areas, and maneuver rights areas. Many of the spill prevention and response procedures are modified for field conditions and the temporary nature of operations (e.g., portable secondary containment systems).

2.1 LEGAL BACKGROUND

USAG Stuttgart operates several Aboveground Storage Tanks (ASTs) and Underground Storage Tanks (USTs), mainly for the storage of diesel and heating oil, several Hazardous Waste Accumulation Points (HWAPs), e.g. at maintenance shops, motor pools, repair facilities, one Hazardous Waste Storage Area (HWSA) to which Hazardous Waste (HW) is conveyed to from the individual HWAPs. Several containers for the collection of waste household batteries (HWBATs) and for the collection of waste cooking oils at mess halls, cafeterias, and restaurants (HWCONs) are available. Furthermore, USAG Stuttgart operates an airfield, several gas stations and numerous oil/water separators (OWSs).

HS & POL storage and management requirements for all Department of Defense (DoD) installations in Germany are comprehensively regulated by the German Final Governing Standards (GFGS). The GFGS were developed by comparing and adopting the more protective criteria of the Overseas Environmental Baseline Guidance Document (OEBGD), applicable German national and state environmental laws and regulations and applicable international agreements. This document refers to the most current officially released version of the GFGS from December 2019.

The ordinance on facilities handling water-endangering substances (AwSV - Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen) came into force in August 2017 to harmonize and replace the 16 state-individual regulations named “VAwS” (Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen) under one national ordinance that is applicable in all German federal states. The ordinance replaces also the General Administrative Regulation under the Federal Water Act on the Classification of Substances Hazardous to Water in Water Hazard Classes (Verwaltungsvorschrift wassergefährdende Stoffe (VwVwS)).

The general purpose of the AwSV is to protect water bodies from negative impacts caused by release of substances hazardous to water.

The AwSV applies to stationary installations that handle, load, operate or store hazardous substances. It does not apply to mobile facilities such as motor vehicles but, for example, to installations for refueling them with solid, liquid or gaseous substances or mixtures thereof that are hazardous to water.

The technical and organizational requirements of Chapter 3 of the AwSV do not apply to:

- Facilities for storing household waste and similar waste;
- Facilities for storing and treating biowaste within the framework of home composting in the private sector;
- Facilities for storing solid commercial waste and solid commercial waste to which substances that are hazardous to water adhere, if

  a) the volume of the storage tank does not exceed 1.25 m³,

b) the storage tank is leakproof,

c) the area on which the storage tank is installed is designed in such a manner that substances that are hazardous to water cannot reach a water body in the event of operational malfunctions, and

d) an absorbent suitable for operational malfunctions is kept on hand.

- Facilities for storing solid mixtures that accumulate on the building site directly as a result of construction work.

Appendix 9 provides short excerpts of the most relevant paragraphs of the AwSV. The following two paragraphs with very important information are presented as examples.

§39 Hazard levels of facilities

(1) Operators must assign a hazard level to facilities according to the table below. In the case of liquid substances, the decisive volume for the facility in question should be taken as the basis, while the decisive mass for the facility in question should be taken as the basis in the case of gaseous and solid substances.

Table 2-1: Hazards levels based on volume and Water Hazard Class

Determination of the hazard levels (A, B, C, D)	**Water hazard class (WGK)**		
Volumes in cubic meters (m^3) or mass in tons (t)	**1**	**2**	**3**
≤ 0.22 m^3 or 0.2 t	Level A	Level A	Level A
> 0.22 m^3 or 0.2 t ≤ 1	Level A	Level A	Level B
> 1 ≤ 10	Level A	Level B	Level C
> 10 ≤ 100	Level A	Level C	Level D
> 100 ≤ 1000	Level B	Level D	Level D
> 1000	Level C	Level D	Level D

More details to this table are described in sections (2) to (11) of §39 AwSV

§43 Documentation relating to the facility

(1) The operator shall keep documentation relating to the facility, which includes the key information pertaining to it. This includes, in particular, information on the layout and demarcation of the facility, on the substances used, the design, the materials used in the individual parts of the facility, on safety devices and safeguards, fire water retention and stability. In the event of a change of operator, the documentation must be handed over to the new operator.

More details are described in sections (2) to (3) of §43 AwSV.

2.2 SPILL PREVENTION STRUCTURES AND EQUIPMENT

POL and HS storage containers and devices must be constructed of materials that are compatible with the liquids they contain and the conditions in which they are maintained. The containers must be protective of human health and the environment (including water and groundwater).

Flammable/corrosive material storage lockers and buildings are used to store liquid POL and HS. Both devices have been constructed to contain spills on shelves or in a sump built into the device. Storage lockers for corrosives typically have plastic-lined shelves to contain the release of corrosive liquids. Flammable/corrosive material storage lockers must be closed and locked when not in use to prevent unauthorized transfer of materials. These lockers are located on portions of the Garrison that are neither subject to flooding nor located in Water Protection Zones I or II.

Secondary containment systems (such as spill pallets, berms, and sumps) must be sufficiently impervious to retain substances released. They must be capable of retaining the entire volume of the

storage container. In case multiple containers are stored on one single secondary containment system, it must have the capacity to retain 100 % of the volume of the largest container, and at least 10 % of the total storage volume (see GFGS, Chapter C5.A5.1.1.5.). Open outdoor secondary containment systems shall contain sufficient freeboard for precipitation and product expansion. Secondary containment systems may be equipped with control components, such as manual valves or drain plugs that are closed and locked when not in use to prevent accidental releases such as leaks from leaving the system.

To be effective, secondary containment systems need to be empty. Otherwise, the retention volume is reduced. Procedures for periodic inspections of all secondary containment systems, as well as above-ground tanks, valves, piping etc., must be included in the regular inspection schedule. If secondary containment systems are not empty, the contained material (liquids or solids) should be removed as hazardous waste, unless it is tested to be non-hazardous.

A spill response kit must be readily available at all work centers storing HS or POL.

At USAG Stuttgart several OWS are installed to separate POL from water that is discharged to the sewer system.

Separator Systems

OWS are used to separate free oil, and entrained oil droplets from water by intercepting these substances on top and allowing clean water to underflow. Emulsified oils may not be separated, as well as transformer fluids, other synthetic oils, and many other commonly used hazardous substances (such as antifreeze, solvents, or pesticides). Therefore, these substances must be prevented from entering POL separators.

The operation of an OWS requires frequent inspection and maintenance since the accumulation of oil and sludge can result in the undesired discharge of oil.

Note: *To ensure proper functioning of the OWSs, high-pressure cleaning equipment may not be used with chemical agents and hot water should be avoided. Otherwise stabile emulsions may be generated that cannot be separated by the OWS.*

2.3 MERCURY SPILL PREVENTION

Mercury is, for example, contained in compact fluorescent lights (energy-saving lamps) and fluorescent tubes. Furthermore, it is found in thermometers, barometers, certain batteries etc. In dental clinics, mercury-containing amalgam waste may occur.

Batteries containing mercury will be managed as HW regardless of whether they are to be recycled or disposed of permanently.

Mercury is not released during the intended use of illuminants or thermometers. Exposure can occur when lamps break e.g. during the replacement of lamps or during handling at waste collection points or storage areas (transport, loading and unloading activities). In case of lamp breakages, mercury can be released to the ambient air. The main health risk during a mercury spill is vapor inhalation.

Prevention measures

Fluorescent lights

- Do not replace defect lamps when they are still hot. A greater amount of mercury is released when a hot lamp breaks than when it is cold.
- Defect illuminants are electronic scrap and must be disposed of as such. Bring them to your HWSA.
- Illuminants shall be stored at locations with adequate ventilation, e.g. outside.
- Store illuminants in a manner that will avoid breakage.
- Avoid breaking illuminants during loading or transport of collection containers.

Mercury-containing batteries

- Bring empty batteries to battery collection points or the HWSA.
- Batteries containing mercury will be managed as HW (EWL Code 160603 “mercury-containing batteries”) regardless of whether they are to be recycled or disposed of permanently.

Amalgam

- Amalgam waste from dental care (amalgam from amalgam separators, amalgam residual, extracted teeth containing amalgam) must be collected separately and periodically disposed of (EWL Code 180110 “amalgam waste from dental care”).
- Amalgam waste shall be segregated and securely stored in appropriate containers at the dental practice. The containers shall not be stored near heat sources or exposed to direct sunlight.
- The amalgam in the containers shall be covered with water and the containers always kept closed.

2.4 INSPECTIONS

2.4.1 Aboveground Storage Tanks (ASTs)

Government-owned aboveground storage tanks (ASTs) > 1 m^3, containing HS with water hazard class WGK (Wassergefährdungsklasse) 3 (e.g. waste oil) or ASTs > 10 m^3 containing HS with WGK 2 (e.g. diesel or heating oil) must be inspected every 5 years by an authorized expert (GFGS Chapter C5.3.14.3.1.3.1, and C5.3.14.3.1.7.1.)

The following tank-specific requirements must be verified during the inspection according to the regulatory requirements and as appropriate for the substance stored in the tank:

- Tank specifications, such as size, contents, and construction type, are clearly indicated on each AST.
- Tank storage areas have secondary containment systems that are sufficiently impervious or capable of holding and containing leaks and spills of liquid or solid hazardous waste.
- In addition to the aforementioned, all requirements outlined in Section 3.1 apply to tank systems storing hazardous waste.

According to the German ordinance on facilities handling water-endangering substances - *AwSV* the following inspection times and intervals apply to ASTs containing liquid or gaseous substances that are hazardous to waters, including heating oil tanks. Inspections must be conducted by authorized experts (*zugelassene Sachverständige)*.

Table 2-2: ASTs not located within protection zones or floodplains

Before initial use and after substantial modification	Regular inspection: Every 5 years	Upon decommission
WGK 3: ASTs >0.22 m^3 WGK 2: ASTs >1 m^3	WGK 3: ASTs >1 m^3 WGK 2: ASTs >10 m^3	WGK 3: ASTs >1 m^3 WGK 2: ASTs >10 m^3

Table 2-3: ASTs located within protection zones or floodplains

Before initial use and after substantial modification	Regular inspection: Every 5 years	At closedown
WGK 3: ASTs >0.22 m^3 WGK 2: ASTs >1 m^3	WGK 3: ASTs >0.22 m^3 WGK 2: ASTs >1 m^3	WGK 3: ASTs >0.22 m^3 WGK 2: ASTs >1 $m^3$2

2.4.2 Underground Storage Tanks (USTs)

All USTs that store water-endangering substances must be inspected by an authorized expert *(zugelassener Sachverständiger* in accordance with *AwSV)* before their initial use, and each tank system must be inspected every 5 years, after the initial inspection, during the facility's normal usage. For USTs in water protection areas, the inspection must be conducted at the latest 2.5 years after the last inspection (GFGS Chapter C5.3.14.3.). Inspection before the initial use of USTs and regular inspection intervals for USTs as stated above are the same according to GFGS and AwSV. At USAG Stuttgart, a water protection zone is located in parts of Patch Barracks and Mineral Spring Protection Areas cover the entire installations of Robinson Barracks, Boeblingen Officers Club, and Boeblingen Family Housing. In addition, Panzer Kaserne is located within a Mineral Spring Protection Area, but there is an agreement with German authorities existing which exempts USTs at Robinson Barracks from this regulation, so an inspection interval of 5 years applies here.

Additionally, expert inspections will be conducted under the following conditions:

- When significant modifications to the facilities are made,
- If the competent German authority issues an inspection request due to a suspected threat to water bodies,
- After decommissioning a facility,
- After the re-commissioning or re-opening of a facility that has been closed for more than one year.

2.4.3 All Storage Tanks (ASTs and USTs)

All ASTs and USTs must be inspected by a certified expert (Fachfirma) at least once a year and include a review of the operating and leak detection systems. The expert must provide inspection reports to DPW ED. Currently, USAG Stuttgart has contracted Centerra as the certified expert via Installation Management Contract (IMC).

Internal inspections on ASTs containing HS will be conducted based on applicable requirements defined by current SOPs, GFGS, AER 200-1 or other US Army procedures (see Appendix 2 for example checklists).

Problems identified by any tank inspection need to be appropriately addressed. Problems that are imminently dangerous to human health and the environment (such as leaking containers) must be remedied immediately (Appendix 4 presents areas that are prone to spills).

Records of the inspections must be entered to the tanks logbook and maintained for at least three years at the ED. Additionally, the results shall be entered into the applicable Database of the ED.

3 SPILL CONTROL AND RESPONSE

This section of the SPRP describes the specific actions that are performed following a POL and/or HS spill within the USAG Stuttgart area of control, whether on or off the installations.

Initial spill action procedures are addressed in Figure 1 of the Red Plan (Appendix 7 and Appendix 8). The specific response to a spill also depends on site- and incident-specific variables, including the type and volume of the substance released, the media into which the material is released, the weather conditions during the release, and the environment where the material is released. If the identity of the spilled material is known, the SDSs (readily available in the vicinity of the storage area) will be immediately consulted and checked for specific information, including physical/chemical properties, health hazards, and spill response and cleanup procedures.

3.1 INCIDENT EVALUATION

The incident shall first be evaluated to identify actual or potential threats to life or human health, but also to identify risks to the environment. **All fire, explosions, or threats thereof, are considered threats to life, human health, and the environment**. If an actual or potential threat to life or human health is identified, an evacuation shall be initiated. The incident shall be immediately reported to points of contact (POCs) contained in Table A- 7.1 (Appendix 7, Red Plan) and Table A- 8.1 (Appendix 8, Red Plan German).

Actual and potential fires and/or explosions shall be eliminated before any other action related to the incident is initiated. Fire/explosion suppression activities will continue throughout the emergency response as determined by DES.

Fire suppression water and other runoff from burning POL and HS must be immediately controlled. Prevent the spread of these liquids by blocking floor drains, damming flow, or by other means. Collected runoff water must be tested and treated if required.

If the incident does not pose a threat to life or human health, the spill component of the incident shall be evaluated. If the spill cleanup is beyond the capability of the person(s) identifying the incident, Figure 1 in the Red Plan (Appendix 7 and Appendix 8) provides information on immediate response actions.

Spills that are minor (small) and of a known substance will be cleaned up by trained personnel immediately. SDSs will be referenced to identify proper containment, recovery, and storage procedures. Waste materials shall be containerized for future disposal. An incident summary shall be prepared and maintained by the EO.

3.2 SPILL ASSESSMENT

The FRT shall assess the spill to identify the need for immediate government agency notifications (i.e., if a significant spill has occurred) and potential future evacuation conditions; and to formulate a control, containment, and recovery plan. If the spill requires resources beyond those possessed by the FRT, then outside government agencies identified in Table A- 7.1 (Appendix 7, Red Plan) and Table A- 8.1 (Appendix 8, Red Plan German) shall be contacted. Access to the spill area shall be immediately limited to authorized personnel, managed by the Military Police.

3.2.1 Determine Safe Actions

Knowledge of the spilled material properties and the prevailing weather conditions are critical components in the determination of safe actions. Any information related to the spilled materials (especially SDSs) will be reviewed to identify chemical and physical properties, exposure potential, and spill response procedures. The following additional information will be evaluated:

- A safe way to approach the spill and stage response equipment, vehicles, and personnel.
- Personal protective equipment (PPE), including respiratory protection, appropriate to potential exposure risks.
- Methods to monitor and mitigate any fire and safety hazards to response personnel or neighboring communities from vapors, gases, dust, or free product throughout the entire response. This may include the use of explosion-proof pumps and non-sparking recovery equipment.
- Areas to be secured, as well as decontamination areas for personnel and equipment.
- Potential medical needs. Identify hospital(s) needed to assist with medical emergencies during a response.

3.2.2 Stopping Spills

Once a safe course of action has been identified, the spill and spread of materials shall be stopped or slowed down. The method used to stop the spill source will be determined by the physical conditions causing the spill. This may involve closing a valve, deactivating a pump, up-righting an overturned container, plugging a leaking container, or transferring a container's contents to another container.

Depending on the availability of personnel, spill containment activities will either be performed during or following actions to stop the spill source. Containment activities will be prioritized according to potentially impacted resources, based partially on the following ordered list:

1. Drinking water sources
2. Storm water structures
3. Wastewater treatment plants (see Appendix 6)
4. Water or other habitats designated as sensitive or ecologically critical (consult Appendix 4 to identify critical water resources and other special areas of concern that must be protected in the event of a spill)
5. Other surface waters (see Appendix 4)
6. Soil
7. Air

Spill containment actions will be dictated by the surface upon which the material has been spilled. On paved or other hardened surfaces, booms and/or berms shall be placed at the leading edge of the spill to attempt to stop or delay the spill advance. To prevent environmental contamination, spills shall be contained on or directed to impervious surfaces as much as possible. On cobblestones or unpaved surfaces, trenches may be used to stop or delay the spill advance and may also be used as a recovery location. Nearby floor drains, storm drains, catch basins, retention basins, or other liquid conduits shall be immediately blocked by any safe method available to prevent releases from reaching underground conduits, including sewers.

Emergency response actions conducted by the FRT will be terminated when the immediate danger of the spill and its potential for spreading has been brought under control. Demobilization of the FRT should include decontamination of personnel and equipment; restoring equipment and supplies for future use; and returning personnel, equipment, and supplies to designated areas. See the FRT action list in Figure 2 in the Red Plan (Appendix 7 and Appendix 8).

3.3 SPILL CLEANUP

The cleanup of stabilized spill material or any residual contamination of soil, water, or equipment will be directed by the FIC, and/or the German authorities. Determining the point at which an emergency no longer exists is subject to judgment but will require confirmation by the FIC. This determination includes ensuring that the spill site is secure from the immediate risk of further discharge.

3.3.1 General Cleanup and Disposal Requirements

The DoD facility, unit, or organization that owns or controls the spill source is responsible for removal and disposal of any contaminated material according to applicable regulations (including DoDI 4715.8, "Environmental Remediation for DoD Activities Overseas"), and returning the spill site to acceptable conditions. Activities shall be conducted in a manner and to a degree which prevents future contamination. If the organization is not able to perform these functions, the local district German authority may do so at DoD-reimbursable expense. These functions include, but are not limited to, the following:

1. Removing free product from water, land surfaces, and containments as soon as possible.
2. Implementing actions required to decontaminate or control runoff from contaminated surfaces.
3. Collecting contaminated materials that can pollute water, using booms and other equipment as needed.
4. Collecting absorbents, soils, grit, damming materials, and other substances used to control the spill.

Any surface waters, sediments, soils or groundwater that have become contaminated will be removed or cleaned up according to the German or local environmental cleanup standards that apply to the spilled material and location. The local authorities will be contacted for guidance on conducting any investigations, chemical analyses, and determining the appropriate cleanup standards.

Unrecoverable POL and HS, contaminated spill recovery materials, and impacted media (i.e., soil) must be appropriately removed and managed as HW until fully characterized. A careful evaluation of the SDSs and the Hazardous Waste Management Plan (HWMP) will initially be used to properly characterize any waste materials. The characterization will be performed by the appropriate DPW ED staff or other qualified persons. The characterization consists of determining the relevant properties and chemical composition of the waste materials based on the HW standards. Contaminated soil and any remaining free product must be analyzed before final disposal. If the material(s) meets HW characterization criteria, the items will be handled and disposed of according to the HWMP.

Non-hazardous wastes will be disposed of through routine waste handling methods. Non-hazardous pesticide wastes will be disposed of according to manufacturer and/or German regulatory guidelines.

Before the spill site is returned to normal operations, all safety and emergency equipment will be inspected to ensure it is ready for use. All safety hazards and residual contamination will be removed, properly mitigated, or isolated and flagged.

3.3.2 Control and Cleanup of Mercury Spills

- Leave the area as quickly as possible and inform your supervisor.
- Ensure best possible ventilation, e.g. open exterior windows to ventilate mercury vapors outdoors. Depending on the extent of the spill, the ventilation must at least take 15 minutes. In closed and poorly ventilated rooms, an increased mercury concentration in the breathing air can be expected, in which case, the duration of the ventilation should be extended to at least 30 minutes.
- Spilled mercury should not be spread: avoid walking through the spill area and any other contact with the spill.

- Close the door to keep vapors from spreading.
- Determine clean-up measures upon the size and complexity of the spill.
- Decide whether it is a small spill that can be safely cleaned up by the unit itself or seek the help of a trained professional in case of a larger spill (e.g. fire department).
- Stay out of the room until clean-up begins.

Cleaning up a small mercury spill (e.g. a compact fluorescent bulb)

- Cleaning up a mercury spill requires patience and attention to detail to recover all mercury and limit the exposure to toxic vapors.
- Leave the windows open during cleaning.
- Never pour mercury spills down the drain.
- Do not use a vacuum cleaner as it would increase the spread of mercury in the room.
- Mercury spills can form several pools and many beads of mercury that roll over the floor.
- Put on safety gloves and safety glasses.
- Use a mercury spill kit if available.
- Pick up broken pieces of glass and collect them in a container or plastic bag that can be tightly closed and cannot be damaged by glass splinters.
- Carefully collect mercury beads using cardboard or a squeegee. Slowly roll the beads on a sheet of paper or use a pipette to collect the beads. Use duct tape to collect smaller beads. Use a mercury absorbent if needed.
- Put anything that came into contact with the liquid mercury in the containers or plastic bags. Seal the containers or plastic bags.
- Carefully inspect a wide area beyond the spill, i.e. the entire room, use a flashlight at a low angle to the floor in a darkened room, and look for additional glistening mercury in cracks or angles.
- There is a risk of carryover from shoes and clothing. This can be recognized by adhering glass fragments or illuminant powder. Such contaminated clothing must be changed immediately and disposed of or cleaned professionally. Do not wash contaminated clothes in a washing machine.
- Dispose of mercury-contaminated waste as hazardous waste at your HWSA.

Cleaning up a large mercury spill (e.g. an entire container with broken fluorescent tubes)

- In case of large quantities of lamp breakage, call the fire department under 112 (masks with Hg-P3 filter, especially in poorly ventilated rooms, must be worn).
- The lamp breakage shall be collected in a barrel and closed tightly.
- Lamp breakage is hazardous waste (waste key according to EWL Code 200121 “fluorescent tubes and other waste containing mercury”).

4 SPILL NOTIFICATION AND REPORTING

This section describes the spill notification and reporting procedures that will be executed following a spill discovery. The section describes the circumstances under which personnel who are responsible for or respond to a spill are required to notify the various DoD and non-DoD authorities.

4.1 POINTS OF CONTACT

Personnel and organizations listed in Table A- 7.1 (Appendix 7, Red Plan) and Table A- 8.1 (Appendix 8, Alarmplan) may need to be notified following a POL and HS spill. Notifications will be made based on the specific characteristics of the spill.

4.2 SIGNIFICANT SPILLS

A significant spill is an uncontained release to the land or water in excess of any of the following quantities:

a. HW or HS identified in the "List of Hazardous Waste/Substances/Materials" (Table AP1.T1 of GFGS) exceeding the reportable quantity listed in that table,

b. POL or liquid or semi-liquid HM, HS, or HW in excess of 417 Liters (110 gal),

c. For other solid HM in excess of 225 kg (500 pounds),

d. For combinations of POL and liquid, semi-liquid, and solid HM, HW, or HS in excess of 340 kg (750 pounds),

A spill is **not** considered significant when it is contained inside an impervious berm, on a nonporous surface, or inside a building and is not volatilized and is cleaned up.

Under these circumstances, the incident is considered a "contained release" or a "breakdown in operations".

4.3 NOTIFICATION REQUIREMENTS

Per GFGS, Chapter C18.2.4.2., all significant spills must be reported to the FIC.

Initial spill response and notification procedures are addressed as a flow chart in Figure 3 in the Appendix 7 and Appendix 8.

Spill notification should include at minimum the following information:

- Name and location of person reporting spill;
- Time of spill;
- Location of spill;
- Type of material spilled;
- Estimated quantity of spill; and
- Any need for medical assistance.

4.3.1 Notification Requirements for Spills inside DoD Installations

The following general notification procedures are followed:

- The initial responder or any person discovering an actual or imminent HS or POL spill notifies his/her supervisor or the EO, regardless of the volume of the spill (minor spills should be cleaned up immediately by using spill recovery materials (Spill Kit).
- If the spill involves HW, the HW Emergency Coordinator should be notified as soon as possible.
- If the spill is significant (§4.2), the FIC and the FRT/ USAG Fire Department must be notified immediately.

- The FIC will immediately notify the applicable Unit Commander, the Garrison Commander, the Spill Coordinator, the IMCOM EEA, and DESC (if DOL-owned facilities are involved), and will submit a written report within 24 hours when (GFGS C18.3.4.3.):

  - the spill cannot be contained,

  - the spill exceeds 417 liters (110 gallons) of POL

  - a water resource has been polluted, or

  - the FIC has determined that the spill is significant.

- The Garrison Commander will immediately notify the appropriate German Federal State authority (*Untere Wasserbehörde in Baden-Württemberg*) if the spill threatens the local HN drinking water resource, a water body, a wastewater treatment plant, or the ground.
- If the German Federal State authority cannot be reached, the nearest German police station shall be notified.

4.3.2 Notification Requirements for Spills inside DoD Installations not contained within the installation

- When a significant spill occurs inside a DoD installation and cannot be contained within the installation boundaries or threatens the local HN drinking water resource, a water body, a wastewater treatment plant, or the ground, the FIC will immediately notify the applicable Unit Commander, the Garrison Commander, USEUCOM and the IMCOM EEA.
- The Garrison Commander will notify the appropriate German Federal State authority *(Untere Wasserbehörde in Baden-Württemberg*).
- If the German Federal State authority cannot be reached, the nearest German fire department and German police station shall be notified by the FIC.
- Additionally, the FIC or FRT will notify the Spill Coordinator, and DESC (if DOL-owned facilities are involved).
- Incidents in which spill prevention and control components or equipment failed or were damaged shall also be reported to the appropriate German Federal State authority.

4.3.3 Notification Requirements for Spills outside DoD Installations

- The initial responder or person in charge at the scene immediately notifies his/her supervisor or the EO (minor spills should be cleaned up immediately by using spill recovery materials (Spill Kit)).
- Any significant spill outside the DoD installation must be immediately notified to the FIC.
- The FIC will immediately notify the German fire department and/or German Police, Spill Coordinator, the Unit Commander, the USAG Commander/IC, and the IMCOM EEA.
- The appropriate German authorities will be notified by the German fire department and/ or German Police.
- As necessary, the FIC submits a written report to the IMCOM EEA, the appropriate German Federal State authority, the Unit Commander, Spill Coordinator, and to the USAG Commander.

POCs and their telephone numbers are included in Table A- 7.1 (Appendix 7, Red Plan) and Table A- 8.1 (Appendix 8, Alarmplan).

4.3.4 Non-DoD Resources

The Spill Coordinator identifies and contacts any non-DoD resources whose capabilities, expertise, or advice could be helpful following a spill. If this assistance is requested from German authorities, the German Fire Department is responsible for providing an immediate response. In addition, these non-DoD resources could include German disaster protection agencies, the German environmental agency, remediation contractors, or private companies with special cleanup capabilities (see Table A- 7.1 and Table A- 8.1). The Spill Coordinator must establish prearranged agreements with these potential resources so that they may be available if the spill exceeds the response capabilities of the installation.

4.3.5 Involvement of Public Affairs

The procedures and methods for releasing information in the event of a spill will be determined by the USAG Stuttgart Commander and the Public Affairs Office (PAO). The PAO coordinates with the appropriate Garrison and installation personnel and provides information releases and public relations support as needed. The PAO will be the releasing authority to the media for any information regarding the USAG Stuttgart.

4.3.6 Documentation

A summary of past spill events is located in Appendix 11: Past Spill Reports. Copies of all incident reports for spills events reported to the FIC and requiring activation of the FRT / Fire Department are also maintained in Appendix 11.

5 RECORD KEEPING

To ensure both the Spill Prevention program and POL and HS management programs are compliant with applicable regulations, it is essential to generate and retain complete records of spill prevention and response activities. Properly maintained records may also be used to help identify and correct compliance deficiencies or to develop improved procedures or processes for future operations.

Records of the following types of activities related to the spill prevention and response program will be kept:

- Actions taken by the FRT or any other spill response crews;
- Any spill incident, response or cleanup;
- Fires, injuries, or other emergencies occurring in the POL and HS storage areas;
- Materials inventories;
- Routine or non-routine inspections;
- Training activities;
- Any changes to POL and HS storage areas (e.g., significant changes in the types of POL and HS stored, changes in the spill prevention and/or response equipment);
- Operating procedures; and
- Routine or non-routine maintenance activities (e.g., removal of rainwater from outdoor containment areas, repairs).

When emergency procedures are invoked, the Garrison must maintain records of the following nature:

- Documentation of the date, time, location, parties involved/notified, nature, and extent of the spill incident;
- Documentation of the response actions implemented;
- Documentation of the cleanup performed; and
- Documentation of completion of response actions and cleanup, and certification that the impacted area(s) are safe for resumed use/entry.

The Spill Coordinator will keep copies of all spill-related records. Above-listed records or documentation prepared by the FRT or other spill response crews must be provided to the Spill Coordinator.

6 TRAINING

6.1 GENERAL

This section summarizes the training requirements for personnel involved in the spill prevention and response program at the USAG Stuttgart. The Garrison Commander is responsible for funding and establishing a program to provide the necessary training for spill prevention and response personnel. An annual training program has been prepared to ensure the effectiveness of spill response personnel and equipment, in order to sufficiently provide proper responses to spills or releases. The training program includes a review of spill cleanup equipment, response procedures, and personal protective clothing and equipment.

6.2 TRAINING REQUIREMENTS

Personnel responsible for the implementation of this SPRP are trained on the purpose and content of this plan. Spill prevention training or briefings are included in the IMCOM online Environmental Officer Training and the annual refresher training. Environmental Officers are responsible for the implementation of the SPRP in their respective units through internal briefings. These briefings are conducted at least annually and may be combined with other required annual training. Training documentation is maintained as described in Section 5, Record Keeping.

An annual Spill Response Exercise will be planned and managed by the Garrison Environmental Division. The FRT and any other members of the Garrison that have specific spill response duties or handling HS during their normal work will perform the annual Spill Response Exercise to train the spill response effectiveness.

7 REFERENCES

HQ DA, 13 December 2007, *Army Regulation AR 200-1, Environmental Quality, Environmental Protection and Enhancement*.

HQ USAREUR & IMCOM Europe, 20 March 2023, *Army in Europe Regulation (AER) 55-4, Transportation and Travel, Safe Movement of Hazardous Goods by Surface Modes.*

HQ USAREUR & IMCOM Europe, 8 May 2012, *Army in Europe Regulation AER 200-1, Environmental Quality, Army in Europe Environmental Quality Program.*

IMCOM-Europe, September 2020, *Environmental Final Governing Standards, Germany*.

North Atlantic Treaty Organization (NATO), August 1959 (as amended), *Revised NATO Status of Forces Agreement (SOFA) Supplementary Agreement*,

U.S. Defense Logistics Agency, 4 March 2020, *Storage and Handling of Hazardous Materials, Defense Logistics Agency Regulation (DLAR) 4145.11*.

U.S. Department of Defense (DoD), 13 May 2019, *DoD Hazard Communication (HAZCOM) Program DoDI 6050.5*.

German ordinance on facilities handling water-endangering substances *(Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen – AwSV),* 18 April 2017, last modified 19 Jun 2020.

APPENDIX 1

STANDARD OPERATING PROCEDURES
TO PREVENT POL AND HS SPILLS

Standard Operating Procedures

Standard operating procedures (SOPs) are used at the USAG Stuttgart to help prevent spills. These procedures summarize the specific spill prevention requirements contained in the GFGS and relevant Best Management Practices.

Beyond these procedures, each facility, unit, or organization at the installation also maintains a set of SOPs to cover location-specific needs.

A1.1 HAZARDOUS MATERIALS / HAZARDOUS SUBSTANCES (HM / HS)

The following are selected general spill prevention procedures for HM storage areas. These and other requirements can be found in greater detail in the GFGS Chapter 5 *"Hazardous Materials"*.

1. The installation maintains an inventory for all POL and HS procured, used, or stored.
2. Safety Data Sheets (SDSs) must be maintained at each work center for all HM used and stored. The SDS must be in English or the predominant language in the workplace.
3. Each work center maintains a master inventory of all HS. The inventory must be regularly updated and accessible to all affected personnel.
4. HS are properly labeled, secured, and segregated.
5. Work- and substance-related operating instructions (*Betriebsanweisungen*) must be available for all workplaces where HM or dangerous work equipment, that may be subject to spill, are present.
6. Depending on the volume and the water hazard class, specific HS must be stored on secondary containment.
7. Dispensing areas must be properly maintained by using drip pans/absorbents placed under containers.
8. Hazard signs (GFGS Appendix C5.A3.) and mandatory signs (GFGS Appendix C5.A4.) in English and German must be displayed in workplaces where HS are handled and stored.
9. In areas where flammable HS are handled/stored, signs showing *"No smoking or open flame" and - "Rauchen und offenes Feuer verboten"* must be displayed.
10. Toxic and very toxic substances must be stored and secured so that only qualified persons can access these materials.
11. Toxic substance storage areas are separated from buildings and adjacent storage areas by walls rated as having 90-minute fire resistance. The walls are 1 meter higher than the stored material. Toxic materials are stored at least 5 meters from any building doorway.

A1.2 HAZARDOUS WASTE

Most requirements presented under A1.1 for HM are also applicable for HW (e.g. inventory, labeling, etc.). Specific HW procedures and requirements can be found in the Garrison Hazardous Waste Management Plan, as well as in the GFGS Chapter 6 *"Hazardous Waste".* This chapter provides criteria for a comprehensive management program to ensure that HW is identified, stored, transported, treated, disposed, and recycled in an environmentally sound manner.

A1.3 PETROLEUM, OILS, AND LUBRICANTS

GFGS Chapter 9 *"Petroleum, Oils and Lubricants"* provides criteria to control and abate pollution from the storage, transport, and distribution of petroleum products. This chapter addresses general POL storage tank criteria, criteria regarding loading/unloading racks and areas, POL pipeline facilities, and POL storage facilities. GFGS Chapter 5.3.14.3 provides criteria for aboveground storage tanks (AST).

A1.4 PESTICIDE MANAGEMENT AREAS

GFGS Chapter 11 provides criteria regulating the use, storage and handling of pesticides. This chapter also addresses criteria regarding the management and application of pesticides, as well as the prohibitions and restrictions.

A1.5 UNDERGROUND STORAGE TANKS

GFGS Chapter 19 *"Underground Storage Tanks"* provides criteria to control and abate pollution resulting from POL products and hazardous materials stored in UST's.

Spills related to USTs are regulated by specific, detailed, rules that apply only to USTs.

APPENDIX 2

CHECKLISTS AND FORMS FOR INSPECTION AND SURVEILLANCE

ENVIRONMENTAL INSPECTION CHECKLIST

USAG Stuttgart HAZARDOUS MATERIAL/HAZARDOUS WASTE (HM/HW) ENVIRONMENTAL PERFORMANCE ASSESSMENT and ASSISTANCE SYSTEM (EPAAS) CHECKLIST – INTERNAL EPAAS FY24

Installation Type/Facility	
Unit/Activity	Building No.
Assessment Date	Time.
Unit Chief	Telephone No.
Unit Primary EO	Telephone No.
Unit Alternate EO	Telephone No.
Assessor	Telephone No.

Note: These German Final Governing Standards (GFGS) were developed by comparing and adopting the more protective requirements of the United States (U.S.) Department of Defense (DoD) Overseas Environmental Baseline Guidance Document (OEBGD) and German national and state (Land) environmental laws and regulations, and applicable international agreements.

1. ADMINISTRATIVE:		**YES**	**NO**	**N/A**
1.1 Has the unit appointed on orders an environmental officer (EO) and a waste management officer?		☐	☐	☐
1.2 Has the EO received formal environmental management training? (EO online training not mandatory)		☐	☐	☐
	Unit Primary EO	Unit Alternate EO		
Duty Appointment Date:				
Training Certificate Date:				
Valid until:				
1.3 Has maintenance personnel been trained on proper handling of HAZMAT, how to dispose of hazardous waste and spill procedures? (*GFGS Chapters C5.3.10 (DoDI 6050.05 "DoD Hazard Communication (HAZCOM) Program"); C5.3.10.1 (annual verbal instruction ("Unterweisung")), C9.3.6 (annual personnel training)*) Verify date, content and signature of annual verbal instruction ("*Unterweisung*"; GFGS Chapter C5.3.10.2).		☐	☐	☐
1.4 Does the EO maintain a file with appointment orders, training records, and assessment records? (AR-200-1)		☐	☐	☐
1.5 Have all personnel handling hazardous materials received awareness training? - Date of record? - Valid until		☐	☐	☐

1.6	Does the unit have an environmental standard operating procedure (SOP) including Environmental Procedures?	☐	☐	☐
1.7	Does the unit have Personal Protective Equipment (PPE) and Spill Kits? (*GFGS Chapters C18.3.2.11. C5.3.5.9., C6.3.3.7.5*)	☐	☐	☐
1.8	Does the unit have the latest version of the Garrison Spill Prevention and Response Plan (SPRP) readily available? (*GFGS Chapters C6.3.6 and C18.3.1*)	☐	☐	☐
1.9	Are emergency telephone numbers posted at strategic locations?	☐	☐	☐
1.8	Does the unit have the latest version of the Garrison Hazardous Waste Management Plan (HWMP) readily available?	☐	☐	☐

2. HAZARDOUS MATERIALS / HAZARDOUS MATERIAL STORAGE AREA (HMSA):		**YES**	**NO**	**N/A**
2.1	Are hazardous materials stored by hazard classification (toxic, flammable, oxidizer and corrosive)? (*GFGS Chapters C5 and C6.3.3*)	☐	☐	☐
2.2	Do storage areas provide protection from the weather? (*GFGS Chapters C5.3.15.2.4.1.1, C5.3.15.2.4.1.2, and Appendix C5.A5.1.2*)	☐	☐	☐
2.3	Do storage areas for hazardous liquids have secondary containment? (*GFGS Chapters C5.3.14.1.1, C6.3.4.2, C9.3.2.2, and C18.2.12*)	☐	☐	☐
2.4	Does the secondary containment meet the rules in size and material? (*GFGS Chapters C5.3.14.1.1, C9.3.2.2, C18.2.12, and Appendix C5.A5.1)*	☐	☐	☐
2.5	Are the HMSA clean and do not show any signs of leaking or spillage? (*GFGS Chapter C5.3.2 and C6.3.7.2*)	☐	☐	☐
2.6	Is the Red Plan / Emergency Numbers posted (*GFGS Chapters C18.3.2.9, 18.3.2.11, and 18.3.4*)	☐	☐	☐
2.7	Are the Operating Instructions ("*Betriebsanweisungen*") available and properly posted (*GFGS Chapter C18.3.1*)?	☐	☐	☐
2.8	Is a spill kit readily available? Up-to-date? Complete?	☐	☐	☐
2.9	Are fire extinguishers mounted in the HMSA (when flammable substances stored) and/or appropriate fire equipment and protection are readily available? Expiration date?	☐	☐	☐
2.10	Are Emergency Shower / Eye-wash / PPE readily available? Up-to-date? Clean?	☐	☐	☐

2. HAZARDOUS MATERIALS / HAZARDOUS MATERIAL STORAGE AREA (HMSA):	**YES**	**NO**	**N/A**
2.11 Is the HMSA ventilated?	☐	☐	☐
2.12 Does the unit maintain an accurate and current inventory of hazardous substances in the workplace? (*GFGS Chapters C5.3.4 and C18.3.2.4.)*	☐	☐	☐
2.13 Are storage areas secured/locked when not in use? Is unauthorized entry/access effectively prevented (*GFGS Chapter C5.3.11*)?	☐	☐	☐
2.14 Is an adequate security or surveillance system installed, operational? (*GFGS Chapter C6.3.3.4.2.1*)	☐	☐	☐
2.15 Are storage areas secured against flooding? (*GFGS Chapter C5.3.14.1.4.2*)	☐	☐	☐
2.16 Are storage areas located in a water protection zone? (*GFGS Chapter C5.3.14.1.4.1*)	☐	☐	☐
2.17 Are HM containers kept closed unless dispensing for immediate use?	☐	☐	☐
2.18 Are only authorized storage areas being used within the unit? (e.g. *GFGS Chapter C5.3.14.5.3 (e.g. toxic and very toxic materials accessible by qualified personnel "(fachkundige Person") only*)	☐	☐	☐
2.19 Is toxic HM properly stored and secured?	☐	☐	☐
2.20 Is ventilation of Safety Cabinets provided?	☐	☐	☐
2.21 Are the Safety Cabinets yearly inspected by an expert ("Sachverständiger"/ "Sachkundiger")?	☐	☐	☐
2.22 Are the containers grounded during the transfer of flammable liquids (*GFGS Chapter C6.3.4.1.3.3*)? Flammable HM protected from sources of ignition (e.g. heating, welding, open flames, etc.)?	☐	☐	☐
2.23 Are compressed gas cylinders adequately secured to prevent mechanical damage (e.g. stored upright and secured to prevent toppling)? (*GFGS Chapter C5.3.17.1.5*)	☐	☐	☐
2.24 Are compressed gas cylinders in use properly secured to a handcart to prevent toppling? (*GFGS Chapter C5.3.17.1.5*)	☐	☐	☐
2.25 Are compressed gas cylinders for flammable gases adequately secured in special protection areas ("Schutzbereiche")? (*GFGS Chapter C5.3.14.1.5.2*)	☐	☐	☐

2. HAZARDOUS MATERIALS / HAZARDOUS MATERIAL STORAGE AREA (HMSA):		**YES**	**NO**	**N/A**
2.26	Are the Safety Data Sheets (SDS's) available at the workplace/storage area? (*GFGS Chapters C5.3.5 and C5.3.6*)	☐	☐	☐
2.27	Verify that all HM have a Hazardous Chemical Warning Label.	☐	☐	☐
2.28	Are mandatory hazard warning signs posted at workplaces where HM are handled and/or stored*? (GFGS Chapter C5.3.7; C5.2.16 & Appendices C5.A1 & C5.A2 (Hazard Pictograms ("Gefahrenpiktogramme") and GFGS Chapter C5.2.17 & Appendix C5.A3 (Hazard Signs ("Warnzeichen"))*	☐	☐	☐
2.29	Is expired HM stored?	☐	☐	☐
2.30	Verify that areas, where flammable materials are stored and/or handled, are labeled with "No smoking or open flame – Rauchen und offense Feuer verboten" signs (*GFGS C5.3.14.1.5.3*)?	☐	☐	☐

3. MAINTENANCE AREAS:		**YES**	**NO**	**N/A**
3.1	Are maintenance areas clean and free of spills?	☐	☐	☐
3.2	Are vehicles being serviced using drip pans and absorbent materials for spills? (*GFGS Chapter C5.3.2*)	☐	☐	☐
3.3	Do maintenance areas have appropriate safety equipment for handling HAZMAT and cleanup of spills? Spill kit: Up-to date and complete?	☐	☐	☐
3.4	Do maintenance areas have clearly labeled containers for used and un-used absorbent? (*GFGS Chapter C5.3.7.1*). Labels should be in **English** and **German** language (*GFGS Chapter C5.3.7.2*)	☐	☐	☐
3.5	Are bins being properly used for absorbent materials and oily rags? (*GFGS Chapter C6.3.4.1.*)	☐	☐	☐
3.6	Are containers for oily rags made out of metal with a securely fitting lid? (*GFGS Chapter C6.3.4.1.*)	☐	☐	☐
3.7	Are solvents tanks, sieves and funnels clean, free of dirt, and closed when not in use?	☐	☐	☐
3.8	Has personnel been trained in the proper use of tanks, how to read the gauges, what to do when an alarm sounds, and who to call to repair or empty tanks?	☐	☐	☐
3.9	Are oil and antifreeze tanks clearly labeled, clean and free of dirt and debris? (*GFGS Chapter C5.3.7.*)	☐	☐	☐

3. MAINTENANCE AREAS:	**YES**	**NO**	**N/A**
3.10 Are the tanks being used for that particular product only, and closed when not in use?	☐	☐	☐
3.11 Are reportable spills being reported to a supervisor? (*GFGS Chapter C18.3.3.2*)	☐	☐	☐
3.12 Are drains free of hazardous substances?	☐	☐	☐
3.13 Are compressed gas cylinders adequately secured to prevent mechanical damage (e.g. stored upright and secured to prevent toppling)? (*GFGS Chapter C5.3.17.1.5*)	☐	☐	☐
3.14 Are good (new) vehicle batteries being stored separately from the bad (old/used) ones?	☐	☐	☐

4. HAZARDOUS WASTE / HAZARDOUS WASTE ACCUMULATION POINTS (HWAP):	**YES**	**NO**	**N/A**
4.1 Is the HWAP (according to *GFGS Chapter C6.2.18*) properly secured and locked?	☐	☐	☐
4.2 Is the entrance to the HWAP unblocked?	☐	☐	☐
4.3 Is the Hazardous Waste Accumulation Point (HWAP) marked with HAZARDOUS WASTE?	☐	☐	☐
4.4 Are HWAP clean, orderly and do not show any signs of leaking or spillage?	☐	☐	☐
4.5 Is the HWAP ground sealed (no cracks, damages, etc.) and/or contained?	☐	☐	☐
4.6 Are HWAP sumps clean, free of water and debris?	☐	☐	☐
4.7 Are HWAP inspections conducted and documented? Are the Inspection LOGs available and current?	☐	☐	☐
4.8 Are waste containers clearly and properly labeled? (*GFGS Chapters C6.3.2.1 and C6.3.4.1.4*)? Are hazard warning signs posted*? (GFGS Chapters C5.3.7; C5.2.16 & Appendices C5.A1 & C5.A2 (Hazard Pictograms ("Gefahrenpiktogramme") and GFGS Chapter C5.2.17 & Appendix C5.A3 (Hazard Signs ("Warnzeichen"))*	☐	☐	☐
4.9 Are containers positioned so that the labels can be easily read?	☐	☐	☐
4.10 Do personnel know what is to be placed in the waste collection drums?	☐	☐	☐

4. HAZARDOUS WASTE / HAZARDOUS WASTE ACCUMULATION POINTS (HWAP):	**YES**	**NO**	**N/A**
4.11 Are HW and containers in good condition, free of severe corrosion, bulging, rupture and structural defects that could result in a leak or spill? (*GFGS Chapters C6.3.4.1.1 and C6.3.4.1.3.2*)	☐	☐	☐
4.12 Are all HW containers tightly closed if not in use? (*GFGS Chapter C6.3.4.1.3.1*)	☐	☐	☐
4.13 Are containers used to store HW compatible with the material stored? (*GFGS Chapter C6.3.4.1.2*)	☐	☐	☐
4.14 Are the containers grounded during the transfer of flammable liquids (*GFGS Chapter C6.3.4.1.3.3*)? Flammable HW protected from sources of ignition (e.g. heating, welding, open flames, etc.)?	☐	☐	☐
4.15 Is HW properly segregated? (*GFGS Chapter C6.3.2.1*)	☐	☐	☐
4.16 Is Hazardous Waste kept segregated from Hazardous Material?	☐	☐	☐
4.17 Do all HW storage containers have secondary containment? (*GFGS Chapters C6.3.4.2 and C18.2.12*)	☐	☐	☐
4.18 Does the secondary containment meet the rules in size and material? (*GFGS Chapters C5.3.14.1.1, C6.3.4.2, C18.2.12, and Appendix C5.A5.1)*	☐	☐	☐
4.19 Does the unit have the latest version of the Garrison Spill Prevention and Response Plan (SPRP) readily available (*GFGS Chapters C6.3.6 and C18.3.1*)? Are Emergency Numbers properly posted?	☐	☐	☐
4.20 Does the unit have the latest version of the Garrison Hazardous Waste Management Plan (HWMP) readily available?	☐	☐	☐
4.21 Is a spill kit readily available? Up-to date? Complete?	☐	☐	☐
4.22 Are fire extinguishers mounted in the HWAP (when flammable substances stored)?	☐	☐	☐
4.23 When 75% of the container(s) are full is it reported to the Environmental Division for pick-up/disposal?	☐	☐	☐
4.24 Personnel assigned HWAP duty must complete appropriate HW training, including pertinent waste handling and emergency response procedure (*GFGS Chapter C6.3.2.5*).	☐	☐	☐

5. MOTORPOOL AREAS:		**YES**	**NO**	**N/A**
5.1	Are authorized drip pans being used for all tactical vehicles? (*GFGS Chapter C5.3.2*)	☐	☐	☐
5.2	Are drip pans empty?	☐	☐	☐
5.3	Do parking areas have absorbent materials and equipment available for spill cleanups? Up-to-date? Complete?	☐	☐	☐
5.4	Are all vehicles free of stored hazardous materials?	☐	☐	☐
5.5	Are all vehicles washed in designated areas?	☐	☐	☐
5.6	Are Waste Accumulation Points being kept clean and empty?	☐	☐	☐
5.7	Does the unit have the latest version of the Garrison Spill Prevention and Response Plan (SPRP) readily available? (*GFGS Chapters C6.3.6 and C18.3.1*) Are Emergency Numbers properly posted?	☐	☐	☐
5.8	Does the unit have the latest version of the Garrison Hazardous Waste Management Plan (HWMP) readily available?	☐	☐	☐
5.9	Are reportable spills being reported to the supervisor? (*GFGS Chapter C18.3.3.2*)	☐	☐	☐

6. WASTE OIL Aboveground Storage Tanks (AST) / Underground Storage Tanks (UST)		**YES**	**NO**	**N/A**
6.1	Is the UST detection system operational?	☐	☐	☐
6.2	AST / UST (allowable) fill level checked? (*GFGS Chapter C5.3.15.2.1*)	☐	☐	☐
6.3	Is the grate free of solids (absorbent, rags, metal parts, etc.)?	☐	☐	☐
6.4	Check the grate conditions for holes, damages, etc.?	☐	☐	☐
6.5	Is the filling area clearly labeled?	☐	☐	☐
6.6	Is the filling area free from drip pans, oil filters, cans, trash, etc.?	☐	☐	☐
6.7	Ground/floor under sink clean, no spills?	☐	☐	☐
6.8	AST/UST inspected every business day and documented? (*GFGS Chapter C6.3.7.1.2*)	☐	☐	☐

6. <u>WASTE OIL</u> <u>Aboveground Storage Tanks (AST) / Underground Storage Tanks (UST)</u>	**YES**	**NO**	**N/A**
6.9 Are reportable spills being reported to the supervisor? (*GFGS Chapter C18.3.3.2*)	☐	☐	☐
6.10 Does the unit have the latest version of the Garrison Spill Prevention and Response Plan (SPRP) readily available? (*GFGS Chapters C6.3.6 and C18.3.1*) Are Emergency Numbers properly posted?	☐	☐	☐
6.11 Is the leaflet on water-endangering substances posted?	☐	☐	☐

APPENDIX 3

SPILL PREVENTION AND RESPONSE
DEFICIENCIES AND CORRECTIVE ACTION

Table A- 3.1: Spill Prevention and Response Deficiencies and Corrective Action for USAG Stuttgart

Deficiency			Description of Spill Prevention/ Response Deficiency	Location and/or Building Number	Corrective Measures Required and Procedures to be Followed for Compliance	Description of Interim Control Measures in Place	Name of Person to whom Reported	Date of Report
Operational	Security System	Other						

APPENDIX 4

MAPS AND CORRESPONDING INFORMATION

Table A- 4.1 provides a list of maps presenting the critical water and natural resources (land use overview) as well as the POL/HS facilities.

Explanation of terms:

Nature Protection Area: A clearly defined geographical space, recognized, dedicated and managed, through legal or other effective means, to achieve the long-term conservation of nature with associated ecosystem services and cultural values.

Flora-Fauna-Habitat: Protected area according to the flora fauna habitat directive of the European Union (FFH directive) on securing biodiversity by preserving natural habitats of feral animals and plants. The individual EU states have identified areas as FFH areas, which include habitats that are specified in the appendix of the FFH directive with types of animals and plants of community interest. A ban prohibiting the deterioration of the environmental conditions applies to each area.

Water Protection Zone I: The zone directly surrounding a well (usually 10 -20 meters) used for the local water supply. Any operational activities are prohibited.

Water Protection Zone II: The area surrounding Zone I of a distance that makes sure drinking water will not be contaminated. The damage of the upper soil layers is prohibited. The use is very limited to certain activities and must be permitted through the respective state agency.
Water Protection Zone III: The complete water distribution area. The use is limited to certain activities and must be permitted through the respective state agency. Further divisions such as Zone IIIA and Zone IIIB are possible, depending on the aquifer and underlying geological structure.

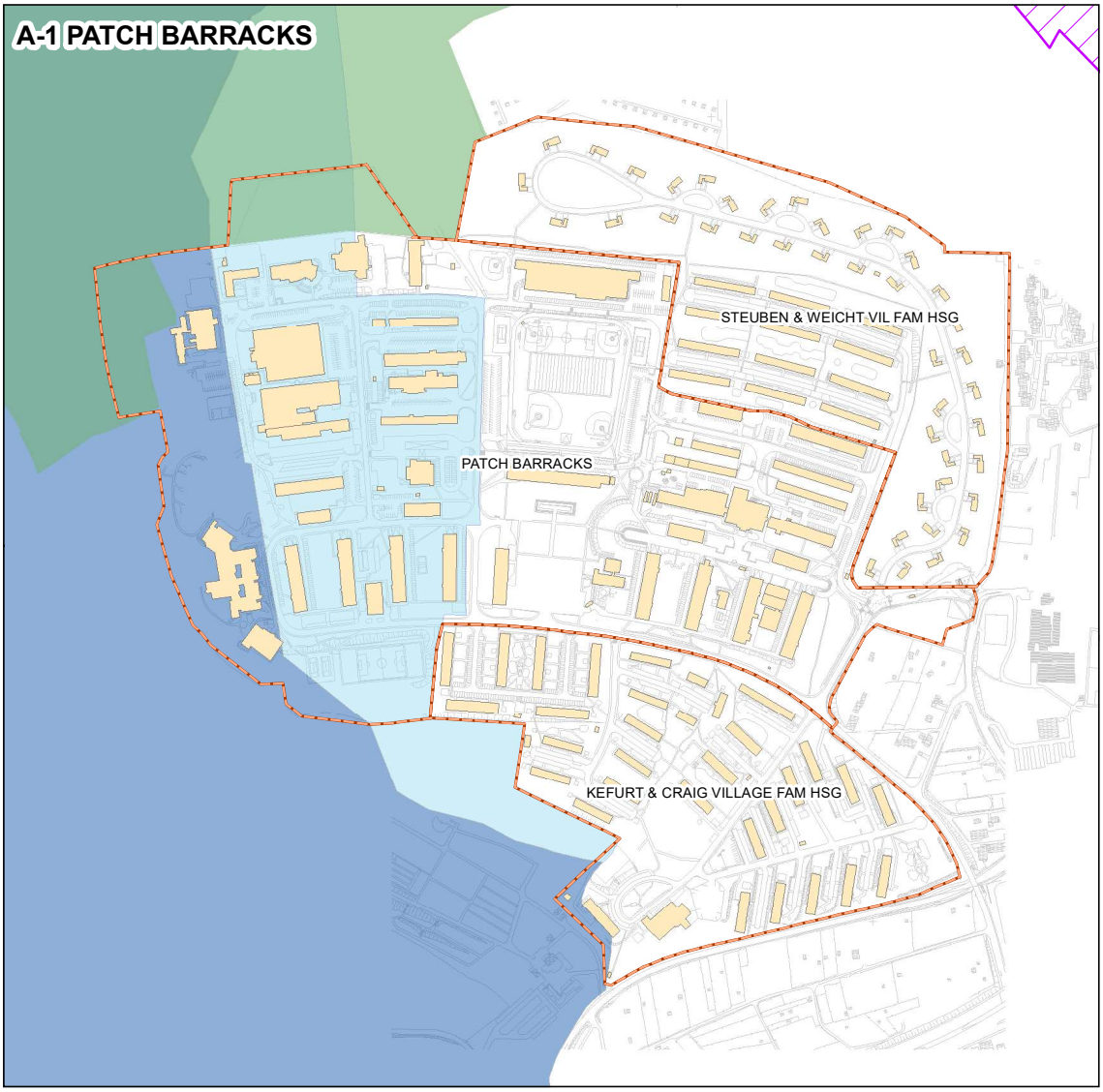
Table A- 4.1: List of Maps

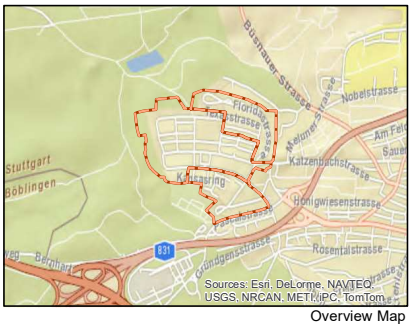
Figure Number	Installation	Map content
A-1	Patch Barracks	Land Use Overview
A-2	Robinson Barracks / Robinson Grenadier Family Housing / Stuttgart Dependent School	Land Use Overview
A-3	Weilimdorf Warehouse	Land Use Overview
A-4	Kornwestheim Golf Course	Land Use Overview
A-5	Kelley Barracks	Land Use Overview
A-6	Echterdingen Airfield	Land Use Overview
A-7	Panzer Kaserne / Böblingen Training Area / Böblingen Range / Böblingen Family Housing / Böblingen Officers Club	Land Use Overview
B-1	Patch Barracks	POL/HS Facilities
B-2	Robinson Barracks / Robinson Grenadier Family Housing / Stuttgart Dependent School	POL/HS Facilities
B-3	Weilimdorf Warehouse	POL/HS Facilities
B-4	Kornwestheim Golf Course	POL/HS Facilities
B-5	Kelley Barracks	POL/HS Facilities
B-6A	Echterdingen Airfield (West)	POL/HS Facilities
B-6B	Echterdingen Airfield (East)	POL/HS Facilities
B-7	Böblingen Range	POL/HS Facilities
B-8	Böblingen Training Area	POL/HS Facilities
B-9	Panzer Kaserne	POL/HS Facilities

Figure Number	Installation	Map content
B-10	Böblingen Family Housing	POL/HS Facilities
B-11	Böblingen Officers Club	POL/HS Facilities
C-1	Patch Barracks - Bldg. 2363	Predicted Spill Flow Direction
C-2	Patch Barracks - Bldg. 2316	Predicted Spill Flow Direction
C-3	Patch Barracks - Bldg. 2330	Predicted Spill Flow Direction
C-4	Patch Barracks - Bldg. 2349 - Gas Station	Predicted Spill Flow Direction
C-5	Patch Barracks - Bldg. 2384 - Car Wash	Predicted Spill Flow Direction
C-6	Patch Barracks - Bldg. 2374	Predicted Spill Flow Direction
C-7	Patch Barracks - Bldg. 2216 and 2346	Predicted Spill Flow Direction
C-8	Patch Barracks - Bldg. 2333	Predicted Spill Flow Direction
C-9	Robinson Barracks - Bldg. 102	Predicted Spill Flow Direction
C-10	Robinson Grenadier Fam Hsg.- Bldg. 208	Predicted Spill Flow Direction
C-11	Robinson Grenadier Fam Hsg. - Bldg. 203	Predicted Spill Flow Direction
C-12	Robinson Barracks - Bldg. 116	Predicted Spill Flow Direction
C-13	Kornwestheim Golf Course - Bldg. 980	Predicted Spill Flow Direction
C-14	Kornwestheim Golf Course - Bldg. 977 and 978	Predicted Spill Flow Direction
C-15	Kornwestheim Golf Course - Bldg. 979	Predicted Spill Flow Direction
C-16	Kelley Barracks - Bldg. 3360	Predicted Spill Flow Direction
C-17	Kelley Barracks - Bldg. 3320	Predicted Spill Flow Direction
C-18	Kelley Barracks - Bldg. 3324 and Gas Station	Predicted Spill Flow Direction
C-19	Kelley Barracks - Bldg. 3363	Predicted Spill Flow Direction
C-20	Kelley Barracks - Bldg. 3371	Predicted Spill Flow Direction
C-21	Kelley Barracks - Bldg. 3364 and 3386	Predicted Spill Flow Direction
C-22	Kelley Barracks - Bldg. 3379	Predicted Spill Flow Direction
C-23	Kelley Barracks - Bldg. 3390	Predicted Spill Flow Direction
C-24	Kelley Barracks - Bldg. 3374	Predicted Spill Flow Direction
C-25	Kelley Barracks - Bldg. 3362	Predicted Spill Flow Direction
C-26	Echterdingen Airfield - Bldg. 3217	Predicted Spill Flow Direction
C-27	Echterdingen Airfield - Bldg. 3214 and 3215	Predicted Spill Flow Direction
C-28	Echterdingen Airfield - Bldg. 3219	Predicted Spill Flow Direction
C-29	Echterdingen Airfield - Bldg. 3226	Predicted Spill Flow Direction
C-30	Echterdingen Airfield - Bldg. 3293 and 3294	Predicted Spill Flow Direction
C-31	Echterdingen Airfield - Bldg. 3227	Predicted Spill Flow Direction
C-32	Böblingen Officers Club - Bldg. 3180 & 3182	Predicted Spill Flow Direction
C-33	Panzer Kaserne - Bldg. 2929, 2930 and 2931	Predicted Spill Flow Direction
C-34	Panzer Kaserne - Bldg. 2935	Predicted Spill Flow Direction
C-35	Panzer Kaserne - Bldg. 2953 - Gas Station	Predicted Spill Flow Direction
C-36	Panzer Kaserne - Bldg. 2958 and 2974	Predicted Spill Flow Direction
C-37	Panzer Kaserne - Bldg. 2969 and 2970	Predicted Spill Flow Direction
C-38	Panzer Kaserne - Bldg. 2905 and 2975	Predicted Spill Flow Direction

Figure Number	Installation	Map content
C-39	Panzer Kaserne - Bldg. 2902	Predicted Spill Flow Direction
C-40	Panzer Kaserne - Bldg. 2903	Predicted Spill Flow Direction
C-41	Panzer Kaserne - Bldg. 2913	Predicted Spill Flow Direction
C-42	Panzer Kaserne - Bldg. 2987	Predicted Spill Flow Direction
C-43	Panzer Kaserne - Bldg. 2998	Predicted Spill Flow Direction

LAND USE OVERVIEW MAPS
(A-MAPS)





Overview Map

Legend

General

- Site Boundary
- Building

Protected Areas

Water Protection Zone (BW)

- I and II
- III and IIIA
- Flora Fauna Habitat Area
- Nature Protection Area

0 80 160 320 Meters
0 250 500 1.000 Feet

USAG STUTTGART

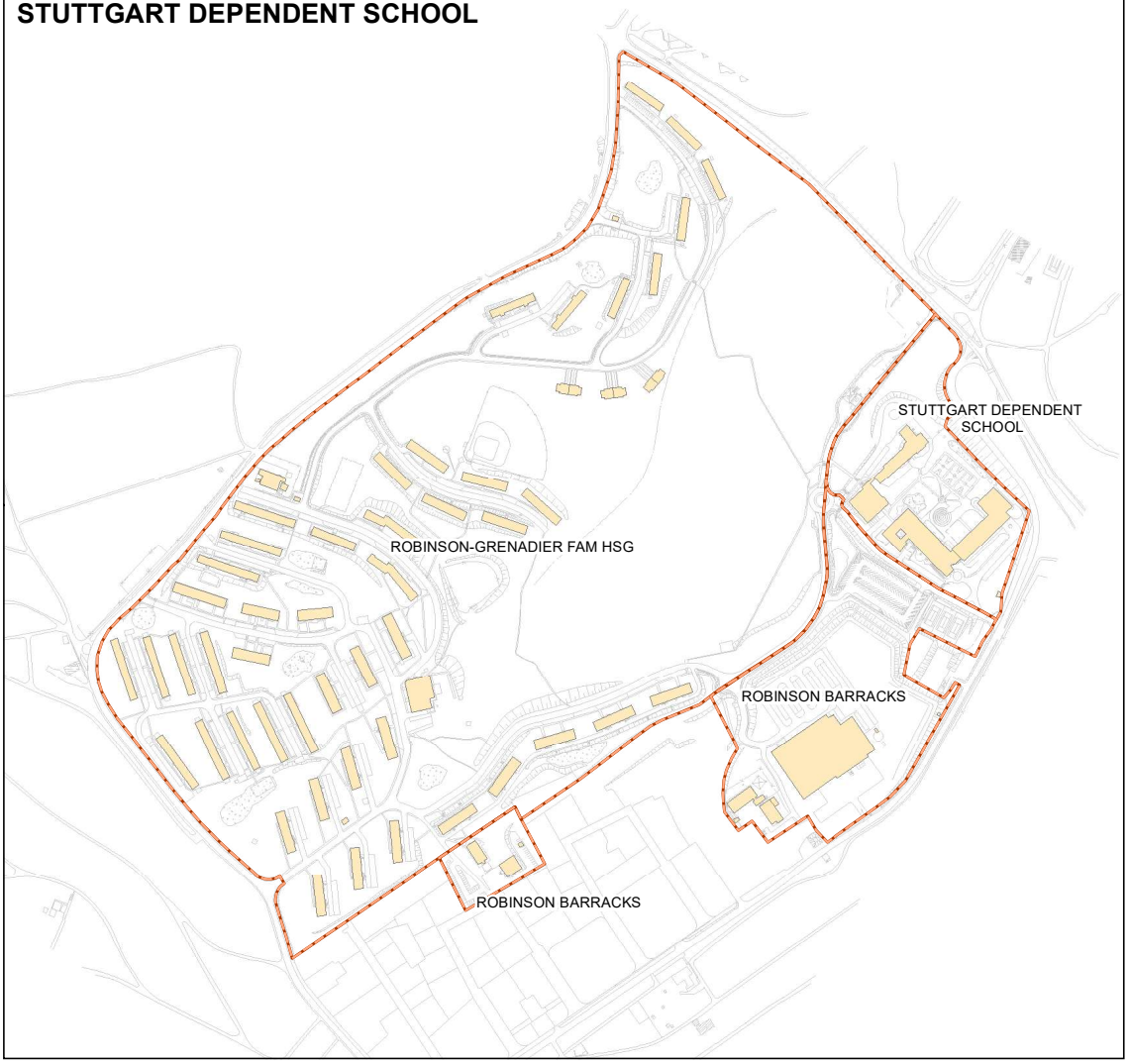
Landuse and Natural Protection Areas
A-1 PATCH BARRACKS

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

A-2 ROBINSON BARRACKS/ ROBINSON-GRENADIER FAM HSG/ STUTTGART DEPENDENT SCHOOL



Overview Map

Legend

General

- Site Boundary
- Building

Protected Areas

Water Protection Zone (BW)

- I and II
- III and IIIA
- Flora Fauna Habitat Area
- Nature Protection Area

0 80 160 320 Meters

0 250 500 1.000 Feet

USAG STUTTGART

Landuse and Natural Protection Areas

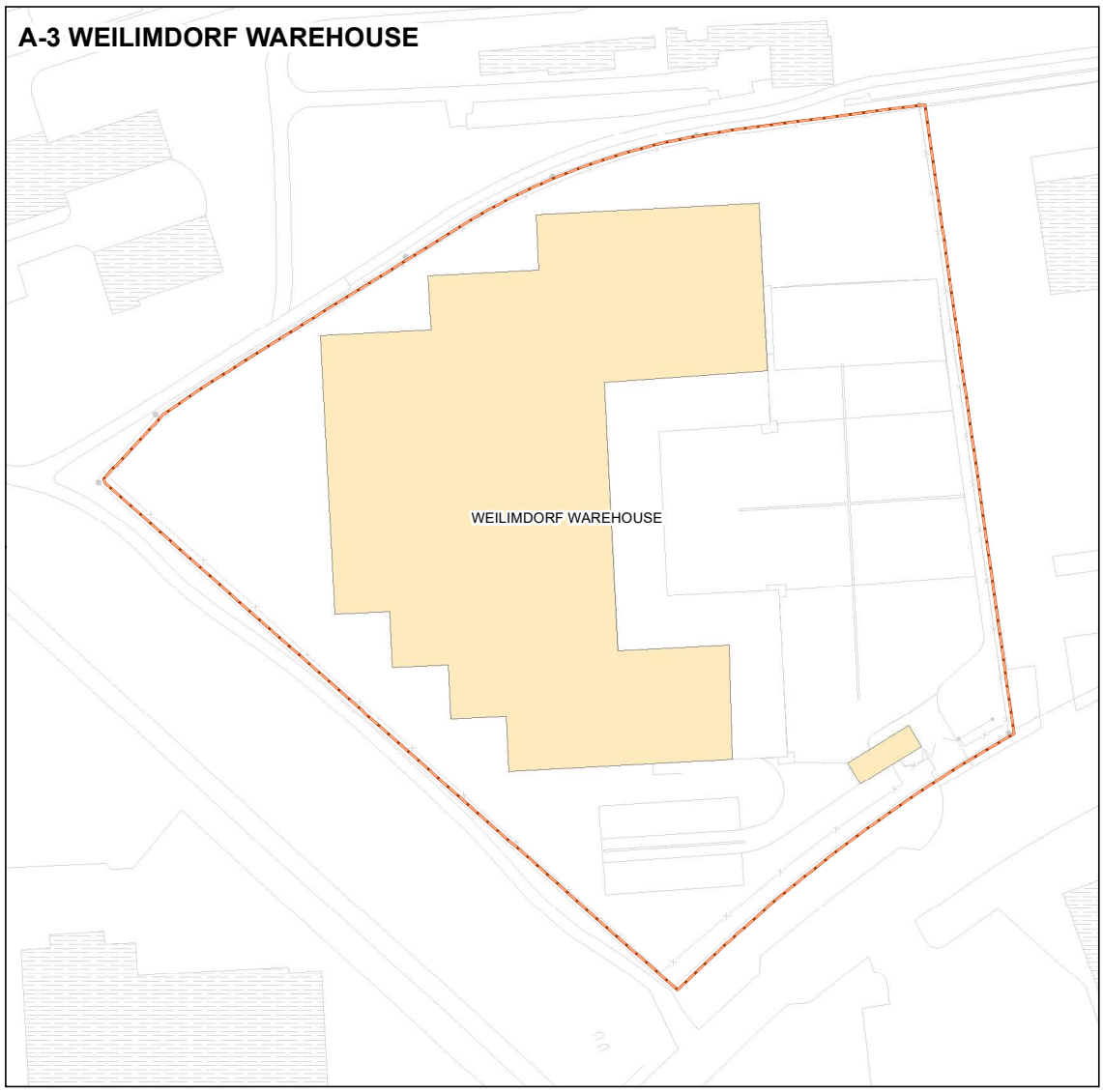
A-2 ROBINSON BARRACKS

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

A-3 WEILIMDORF WAREHOUSE



Overview Map

Legend

General

- Site Boundary
- Building

Protected Areas

Water Protection Zone (BW)

- I and II
- III and IIIA
- Flora Fauna Habitat Area
- Nature Protection Area

0 10 20 40 Meters
0 35 70 140 Feet

USAG STUTTGART

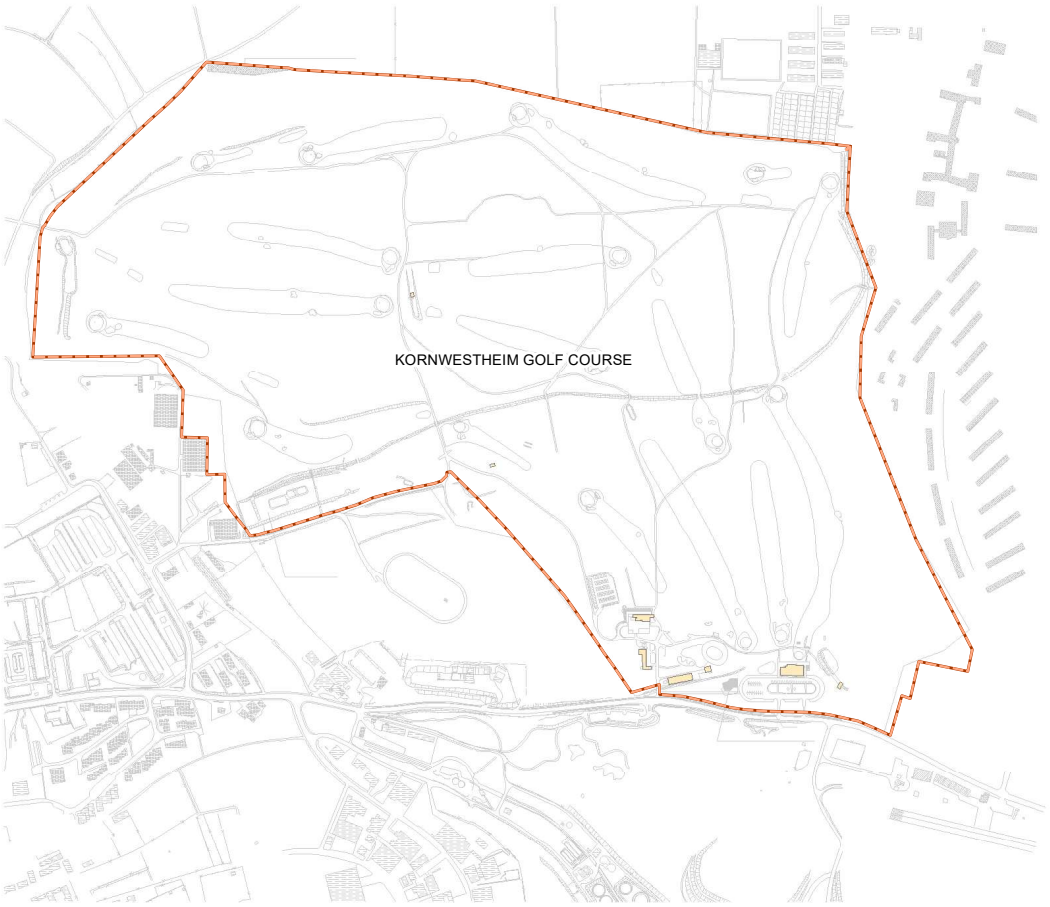
Landuse and Natural Protection Areas
A-3 WEILIMDORF WAREHOUSE

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

A-4 KORNWESTHEIM GOLF COURSE



Overview Map

Legend

General

- Site Boundary
- Building

Protected Areas

Water Protection Zone (BW)

- I and II
- III and IIIA
- Flora Fauna Habitat Area
- Nature Protection Area

0 120 240 480 Meters

0 385 770 1.540 Feet

USAG STUTTGART

Landuse and Natural Protection Areas

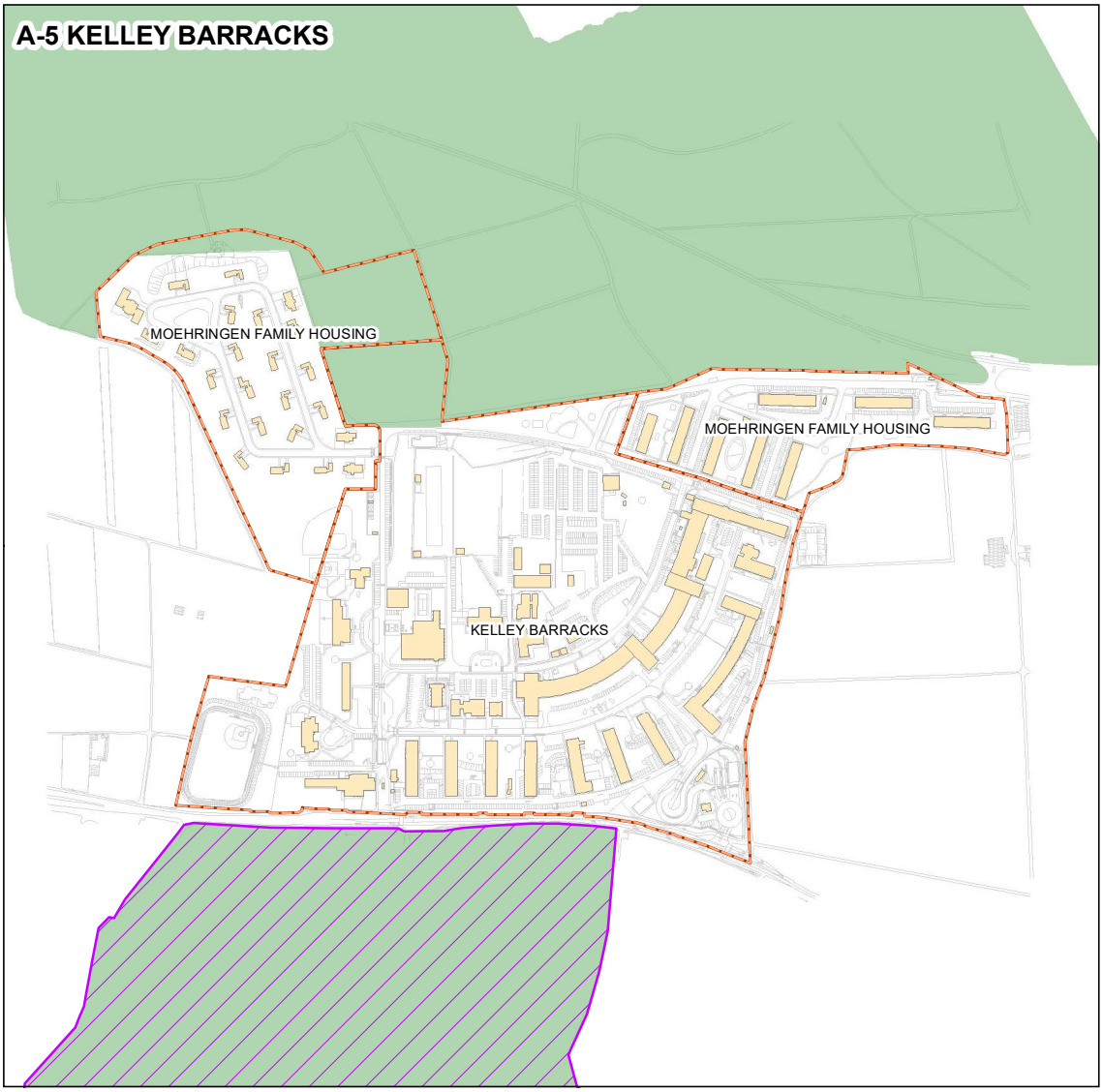
A-4 KORNWESTHEIM GOLF COURSE

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

A-5 KELLEY BARRACKS



Overview Map

Legend

General

- Site Boundary
- Building

Protected Areas

Water Protection Zone (BW)

- I and II
- III and IIIA
- Flora Fauna Habitat Area
- Nature Protection Area

0 75 150 300 Meters
0 237,5 475 950 Feet

USAG STUTTGART

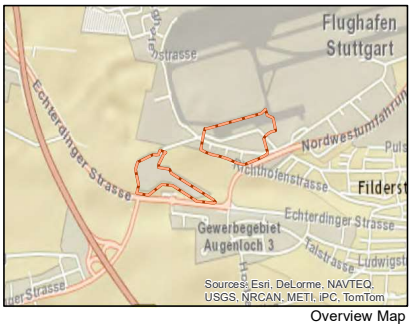
Landuse and Natural Protection Areas
A-5 KELLEY BARRACKS

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

A-6 ECHTERDINGEN AIRFIELD



Overview Map

Legend

General

- Site Boundary
- Building

Protected Areas

Water Protection Zone (BW)

- I and II
- III and IIIA
- Flora Fauna Habitat Area
- Nature Protection Area

0 65 130 260 Meters
0 210 420 840 Feet

USAG STUTTGART

Landuse and Natural Protection Areas
A-6 ECHTERDINGEN AIRFIELD

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

A-7 PANZER KASERNE/ BOEBLINGEN TRAINING AREA/ BOEBLINGEN RANGE/ BOEBLINGEN FAMILY HOUSING/ BOEBLINGEN OFFICERS CLUB

Overview Map

Legend

General

- Site Boundary
- Building

Protected Areas

Water Protection Zone (BW)

- I and II
- III and IIIA
- Flora Fauna Habitat Area
- Nature Protection Area

0 280 560 1.120 Meters
0 875 1.750 3.500 Feet

USAG STUTTGART

Landuse and Natural Protection Areas
A-7 PANZER KASERNE / BOEBLINGEN TRAINING AREA

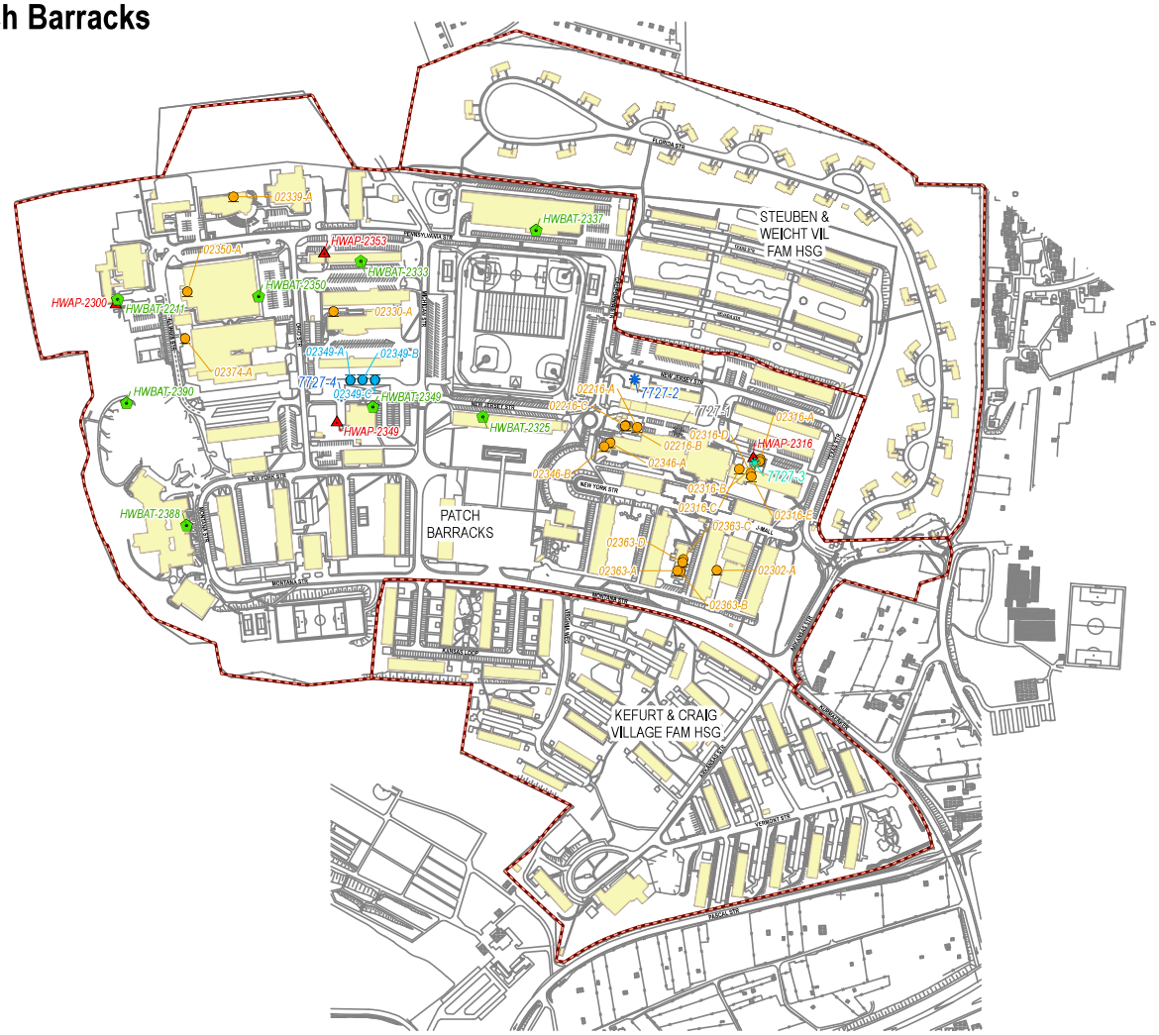
Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

HAZARD SOURCE MAPS
(B-MAPS)

B1 - Patch Barracks



Legend

Utilities

Oil Water Separator (OWS)

- OWS - Active
- OWS - Inactive
- OWS- Shut Down

Environmental Hazards

Tanks

- Above Ground Storage Tank
- Underground Storage Tank

Hazardous Waste Management

- Haz Waste Accumulation Pt
- Haz Waste Battery Collection Pt

General

- Site Boundary
- Building

Black box indicates extent of main map

N

0 50 100 200

Meters

HAZARDOUS WASTE Locations
B1 PATCH BARRACKS

Scale: 1:4,500 | Date: 05 Sep 2023

DIRECTORATE OF PUBLIC WORKS
ENVIRONMENTAL DIVISION

DEPARTMENT OF THE ARMY
USAG STUTTGART

REF: MozWasteMaps

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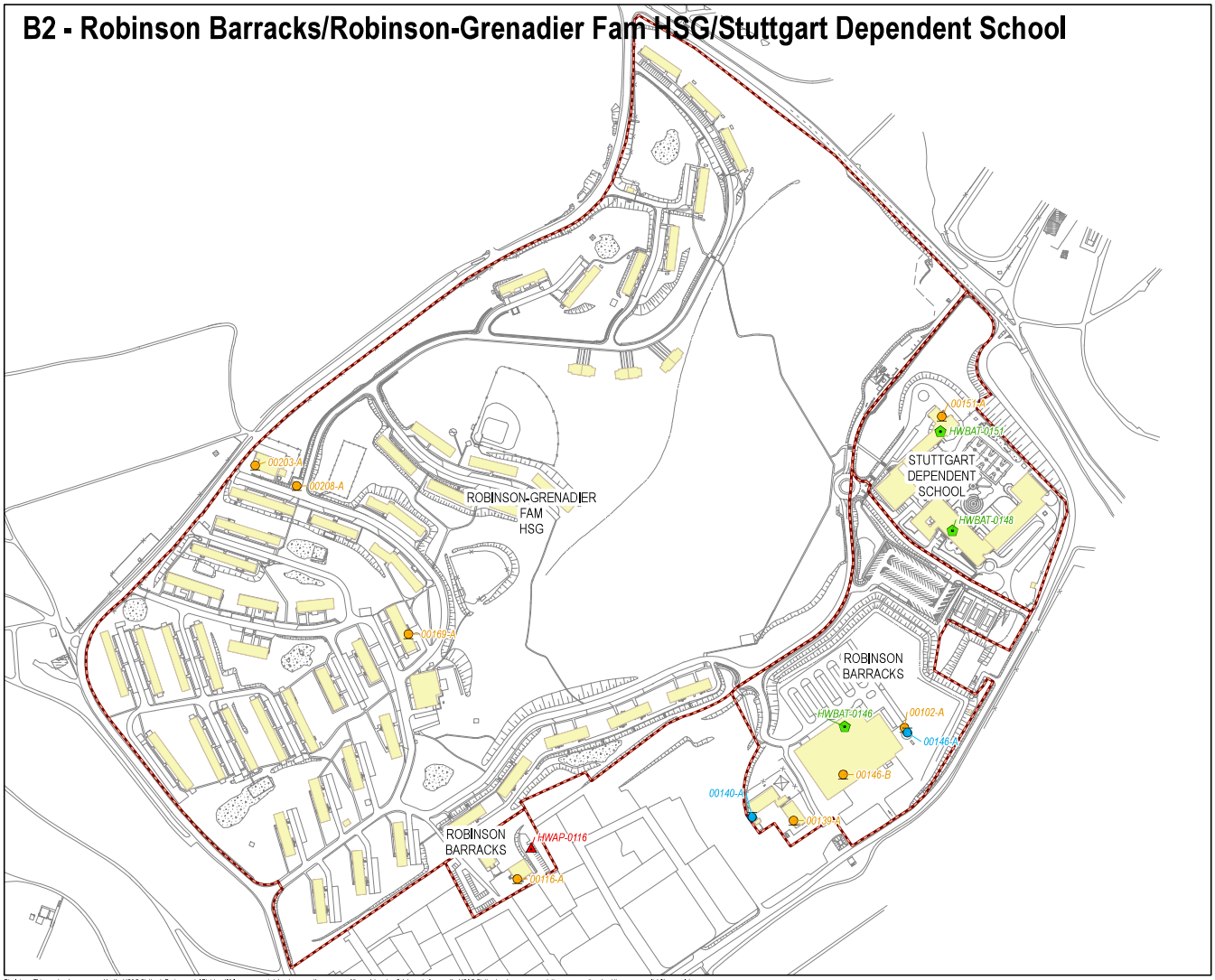
B2 - Robinson Barracks/Robinson-Grenadier Fam HSG/Stuttgart Dependent School



Legend

Utilities

Environmental Hazards

Tanks

- Above Ground Storage Tank
- Underground Storage Tank

Hazardous Waste Management

- Haz Waste Accumulation Pt
- Haz Waste Battery Collection Pt

General

- Site Boundary
- Building

Black box indicates extent of main map

N

0 25 50 100

Meters

HAZARDOUS WASTE Locations
B2 ROBINSON BARRACKS

Scale: 1:4,000 | Date: 05 Sep 2023

DIRECTORATE OF PUBLIC WORKS
ENVIRONMENTAL DIVISION

DEPARTMENT OF THE ARMY
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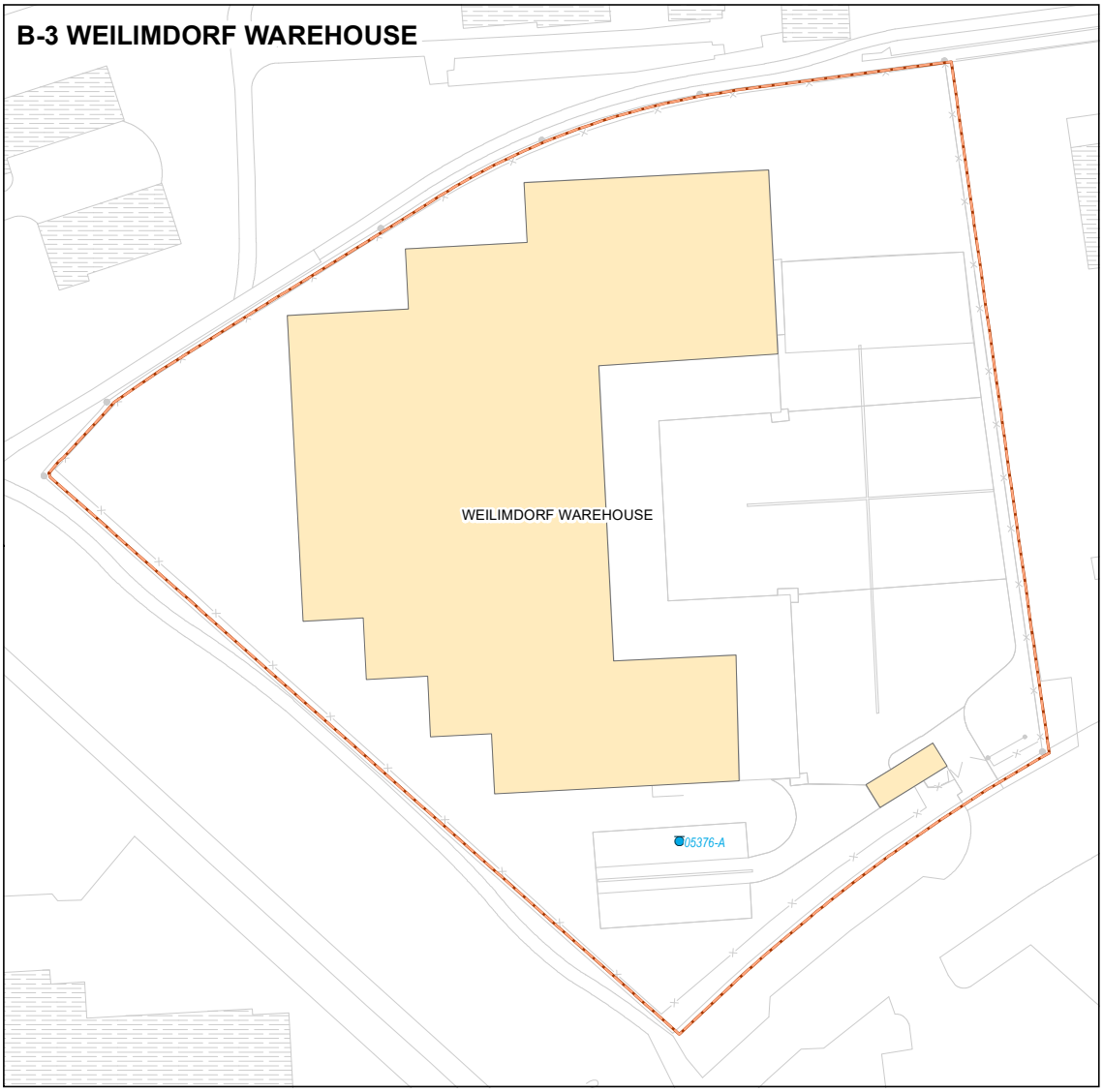
B-3 WEILIMDORF WAREHOUSE



Overview Map

Legend

Site Boundary

Haz Material Storage Tank

- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)

Hazardous Waste Management

- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie
- Oil Water Separator - Active
- Oil Water Separator - Inactive
- Oil Water Separator - Shut Down

0 10 20 40 Meters
0 30 60 120 Feet

USAG STUTTGART

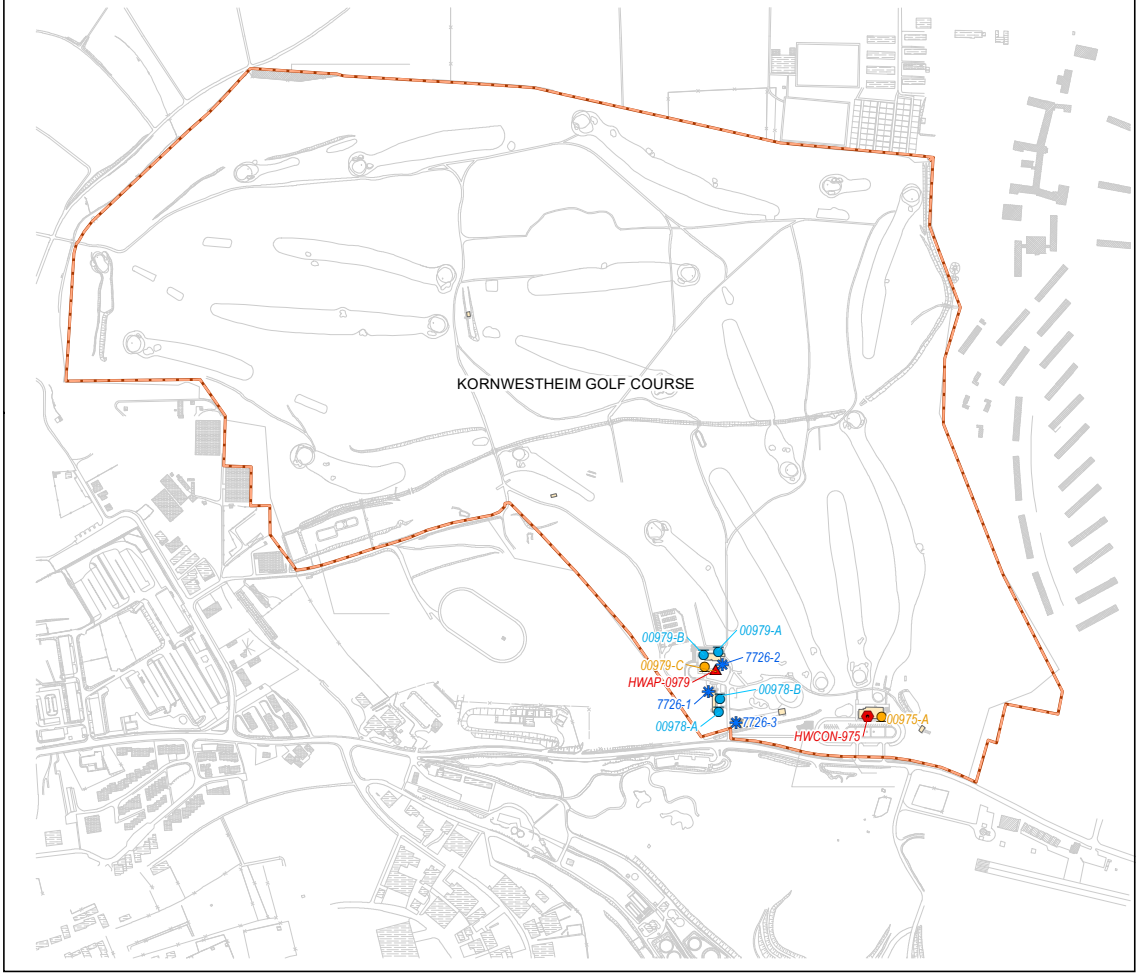
HAZMAT/ HAZWASTE Locations
B-3 WEILIMDORF WAREHOUSE

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

B-4 KORNWESTHEIM GOLF COURSE



Overview Map

Legend

Site Boundary

Haz Material Storage Tank

- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)

Hazardous Waste Management

- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie
- Oil Water Separator - Active
- Oil Water Separator - Inactive
- Oil Water Separator - Shut Down

0 115 230 460 Meters
0 360 720 1.440 Feet

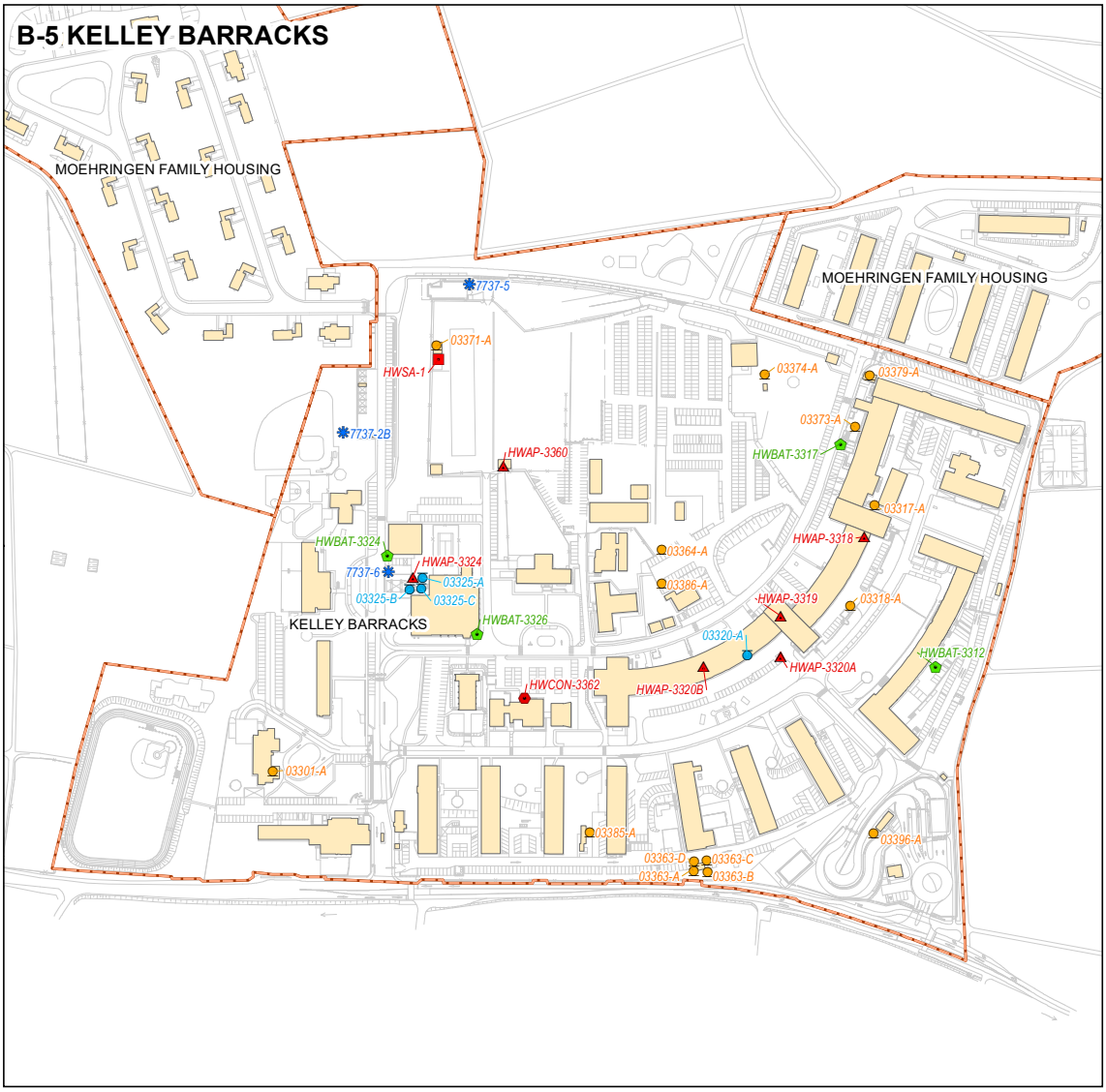
USAG STUTTGART

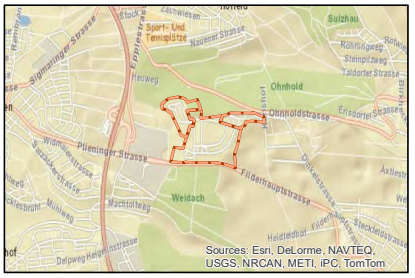
HAZMAT/ HAZWASTE Locations
B-4 KORNWESTHEIM GOLF COURSE

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Overview Map

Legend

Site Boundary

Haz Material Storage Tank

- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)

Hazardous Waste Management

- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie
- Oil Water Separator - Active
- Oil Water Separator - Inactive

0 45 90 180 Meters
0 150 300 600 Feet

USAG STUTTGART

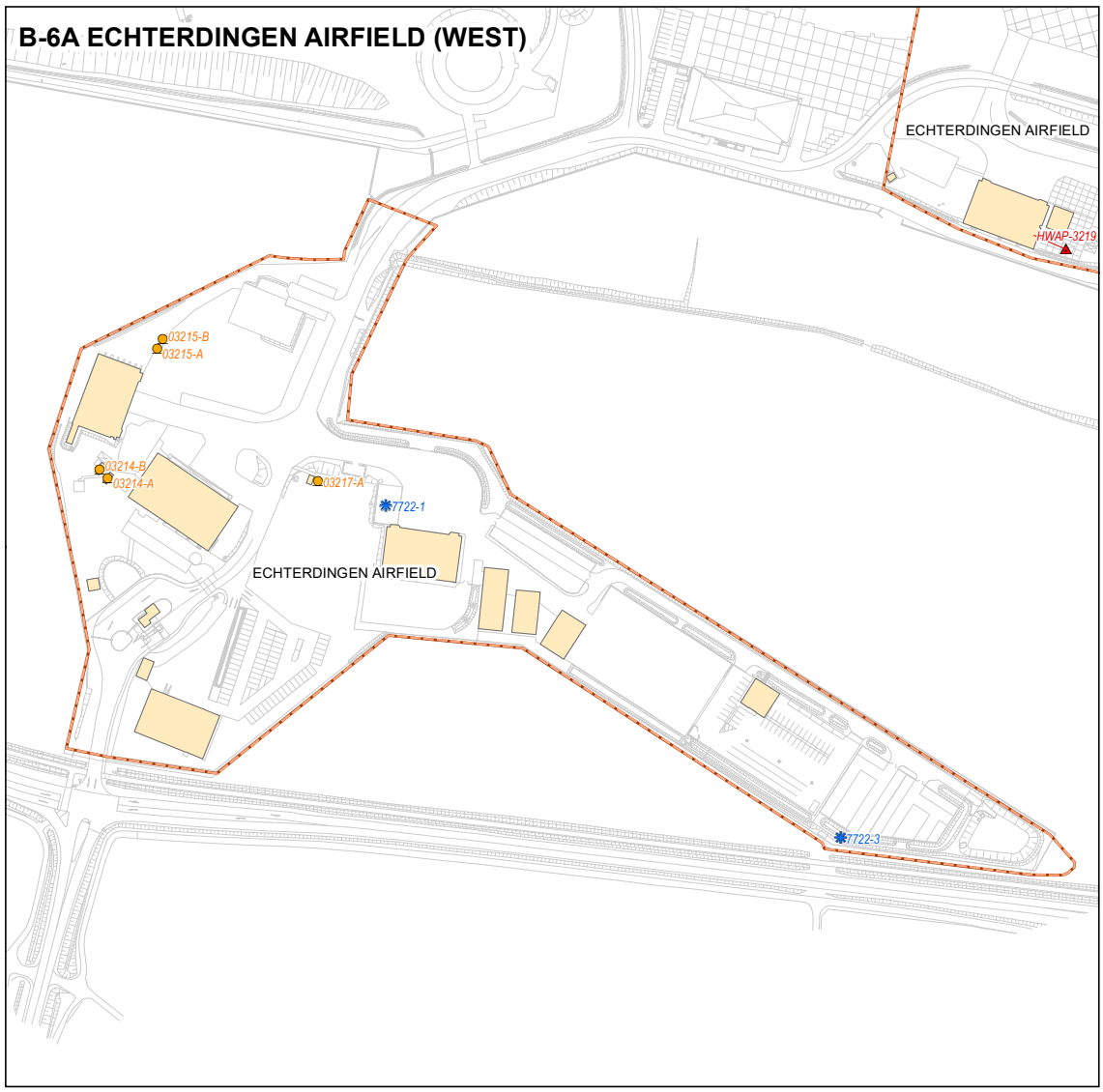
HAZMAT/ HAZWASTE Locations
B-5 KELLEY BARRACKS

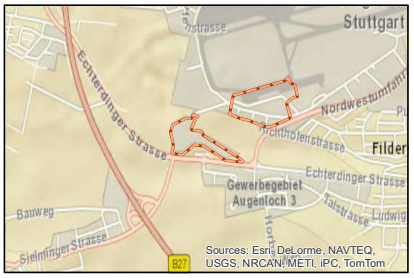
Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

B-6A ECHTERDINGEN AIRFIELD (WEST)





Overview Map

Legend

Site Boundary

Haz Material Storage Tank

- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)

Hazardous Waste Management

- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie
- Oil Water Separator - Active
- Oil Water Separator - Inactive

0 30 60 120 Meters
0 105 210 420 Feet

USAG STUTTGART

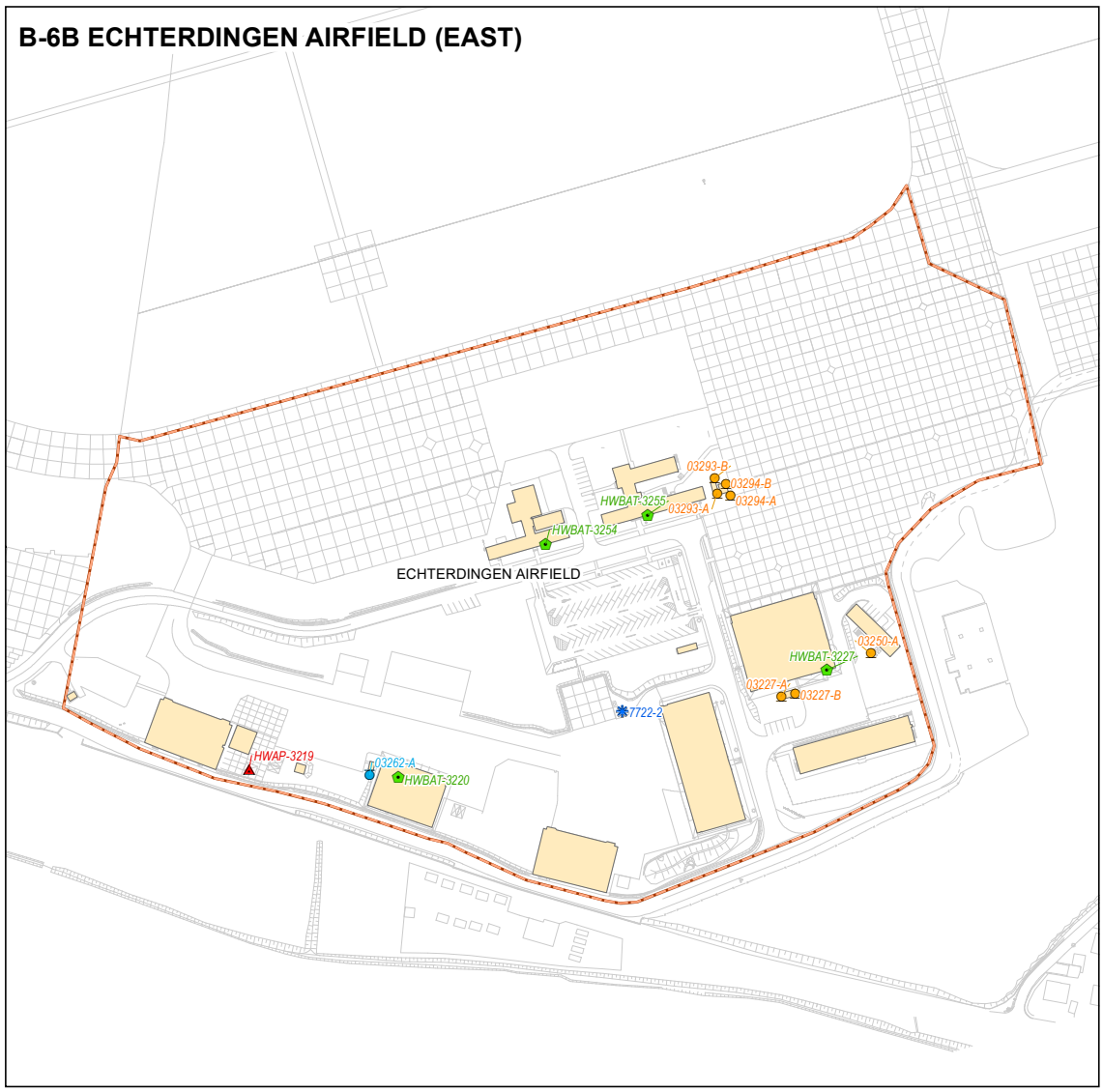
HAZMAT/ HAZWASTE Locations
B-6A ECHTERDINGEN AIRFIELD (WEST)

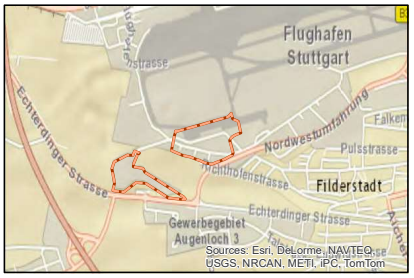
Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

B-6B ECHTERDINGEN AIRFIELD (EAST)





Overview Map

Legend

Site Boundary

Haz Material Storage Tank

- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)

Hazardous Waste Management

- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie
- Oil Water Separator - Active
- Oil Water Separator - Inactive

0 30 60 120 Meters
0 105 210 420 Feet

USAG STUTTGART

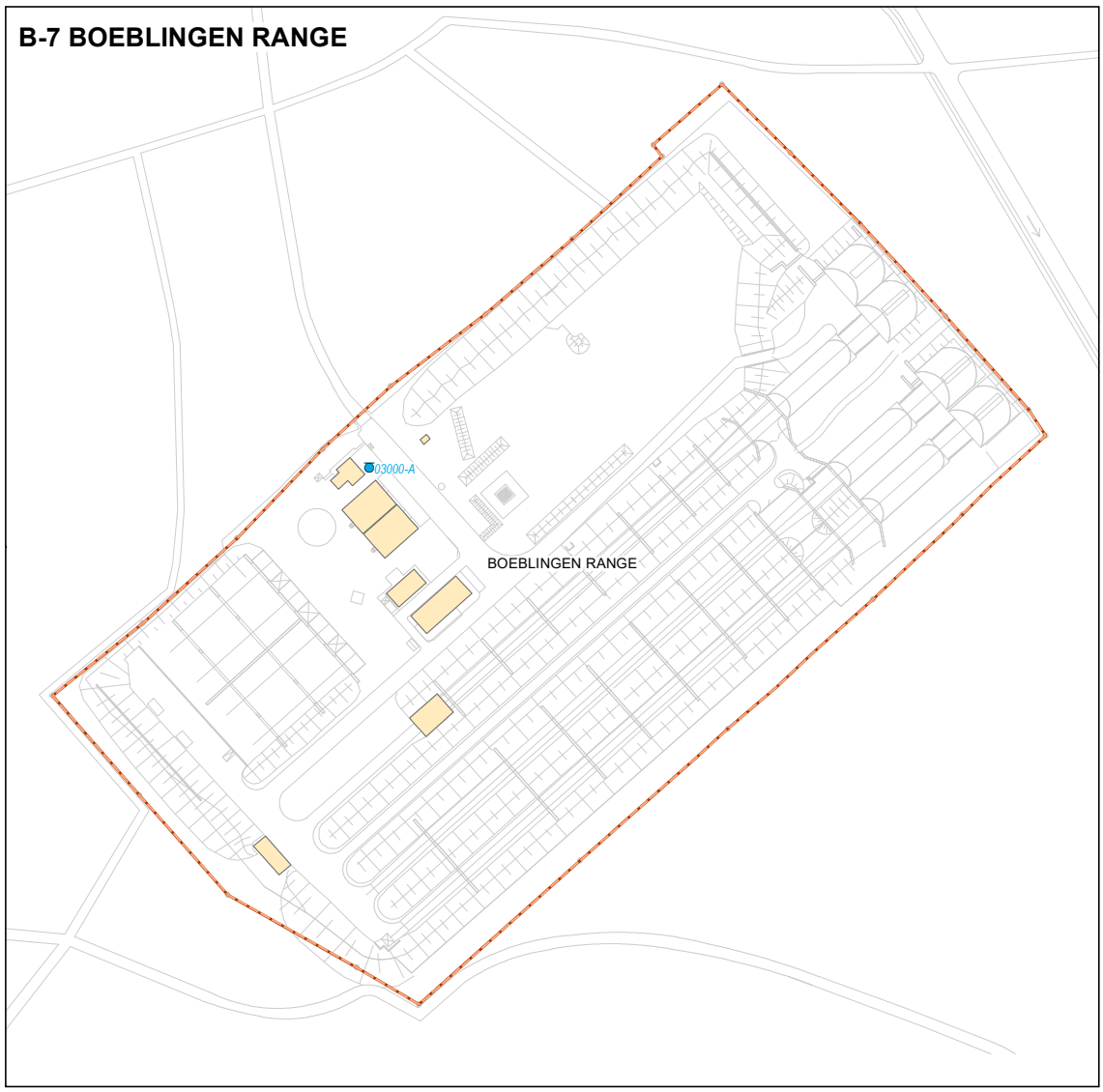
HAZMAT/ HAZWASTE Locations
B-6B ECHTERDINGEN AIRFIELD (EAST)

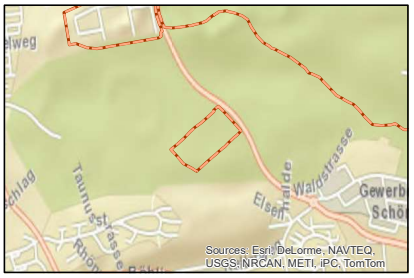
Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

B-7 BOEBLINGEN RANGE





Overview Map

Legend

Site Boundary

Haz Material Storage Tank

- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)

Hazardous Waste Management

- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie
- Oil Water Separator - Active
- Oil Water Separator - Inactive

0 25 50 100 Meters
0 80 160 320 Feet

USAG STUTTGART

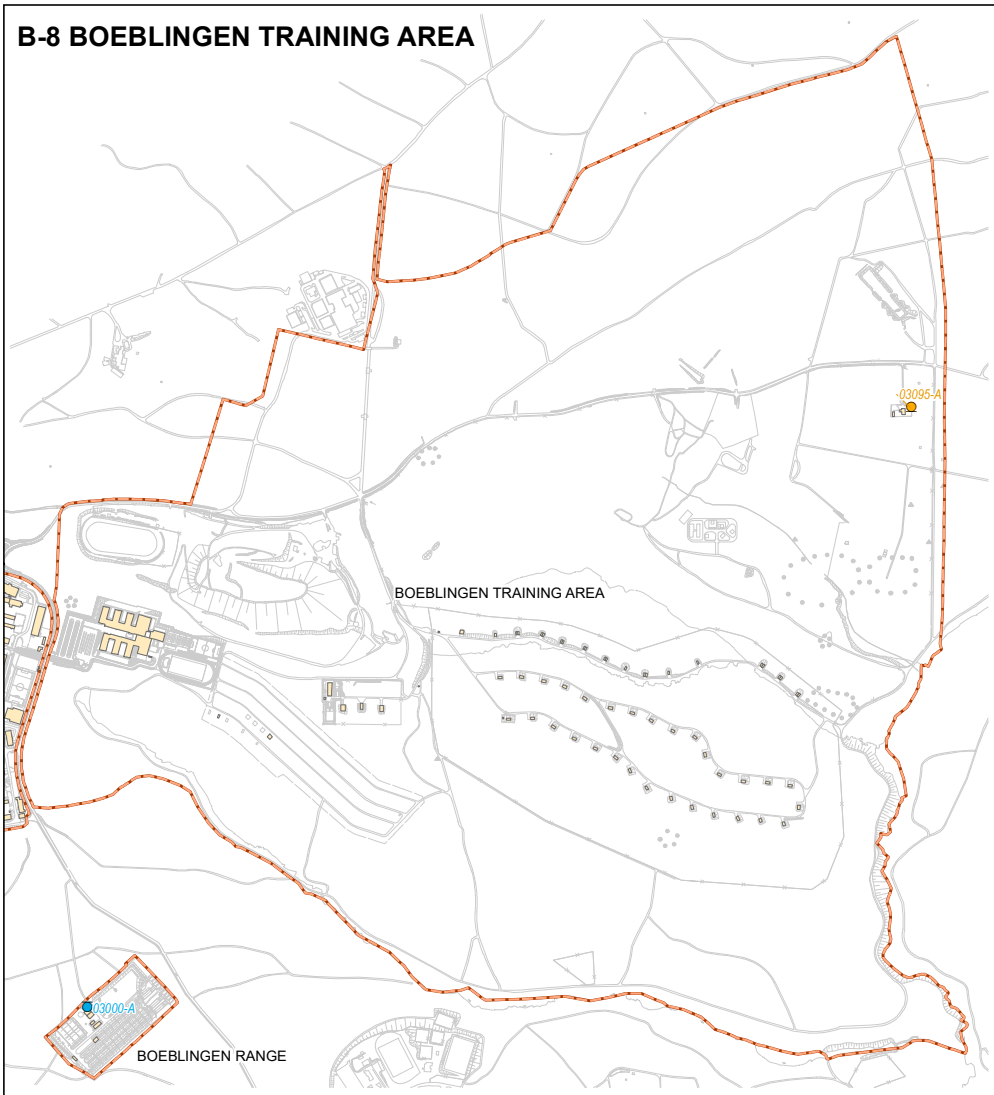
HAZMAT/ HAZWASTE Locations
B-7 BOEBLINGEN RANGE

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

B-8 BOEBLINGEN TRAINING AREA



Overview Map

Legend

Site Boundary

Haz Material Storage Tank

- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)

Hazardous Waste Management

- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie
- Oil Water Separator - Active
- Oil Water Separator - Inactive
- Oil Water Separator - Shut Down

0 205 410 820 Meters
0 625 1.250 2.500 Feet

USAG STUTTGART

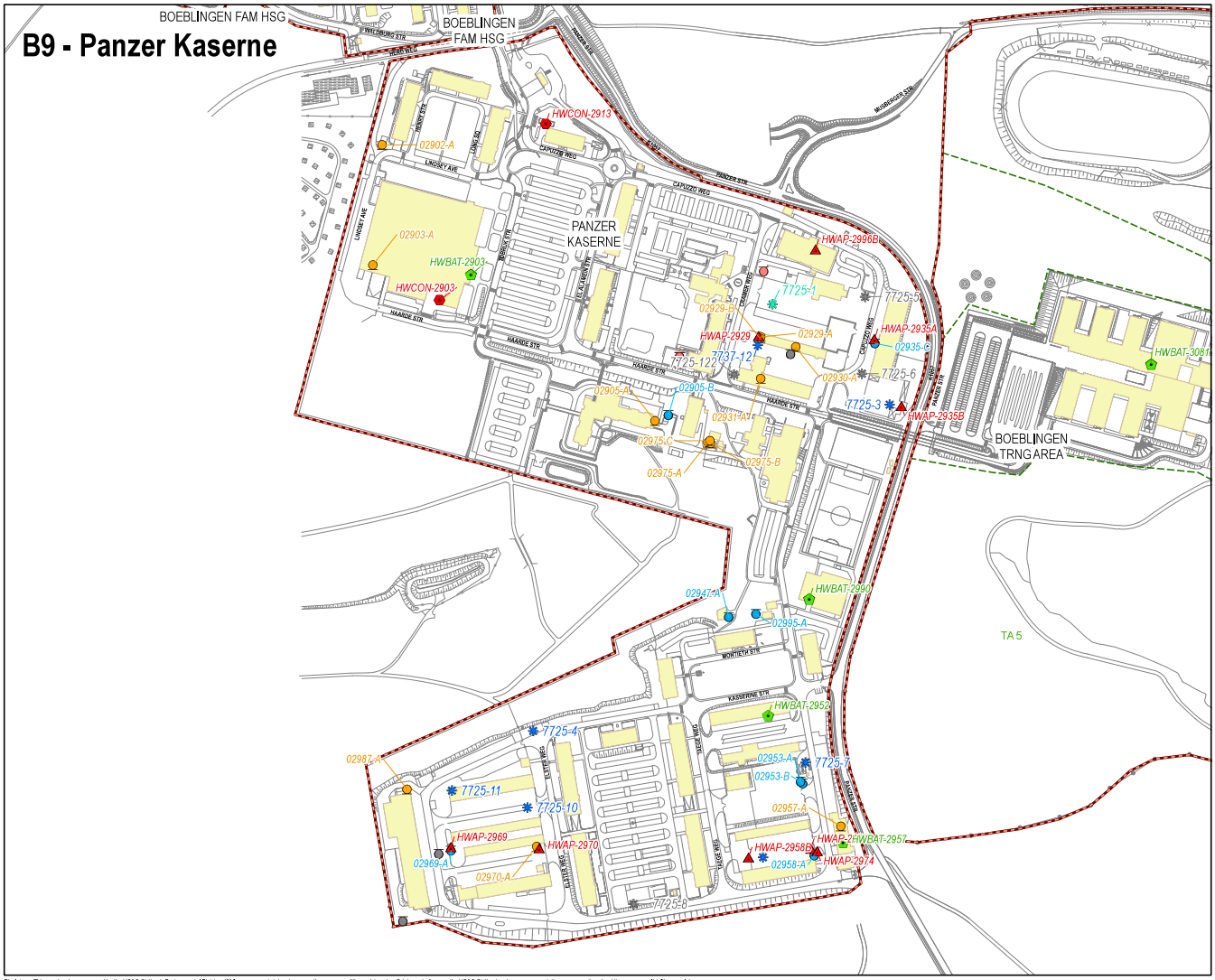
HAZMAT/ HAZWASTE Locations
B-8 BOEBLINGEN TRNG AREA

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

B9 - Panzer Kaserne



Legend

Utilities

Oil Water Separator (OWS)

- OWS - Active
- OWS - Inactive
- OWS- Shut Down

Environmental Hazards

Tanks

- Above Ground Storage Tank
- Deactivated Storage Tank
- Underground Storage Tank
- Removed Storage Tank

Hazardous Waste Management

- Haz Waste Accumulation Pt
- Haz Waste Container
- Haz Waste Battery Collection Pt

General

- Site Boundary
- Building
- Training Area

Black box indicates extent of main map

N

0 50 100 200

Meters

HAZARDOUS WASTE Locations
B9 PANZER KASERNE

Scale: 1:4,000 | Date: 05 Sep 2023

DIRECTORATE OF PUBLIC WORKS
ENVIRONMENTAL DIVISION

DEPARTMENT OF THE ARMY
USAG STUTTGART

REF: MoziWasteMaps

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B-10 BOEBLINGEN FAMILY HOUSING

Overview Map

Legend

Site Boundary

Haz Material Storage Tank

- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)

Hazardous Waste Management

- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie
- Oil Water Separator - Active
- Oil Water Separator - Inactive

0 30 60 120 Meters
0 100 200 400 Feet

USAG STUTTGART

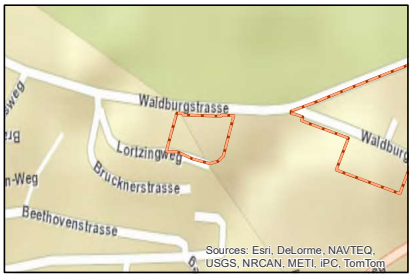
HAZMAT/ HAZWASTE Locations
B-10 BOEBLINGEN FAMILY HOUSING

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

B-11 BOEBLINGEN OFFICERS CLUB



Overview Map

Legend

Site Boundary

Haz Material Storage Tank

- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)

Hazardous Waste Management

- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie
- Oil Water Separator - Active
- Oil Water Separator - Inactive

0 5 10 20 Meters
0 20 40 80 Feet

USAG STUTTGART

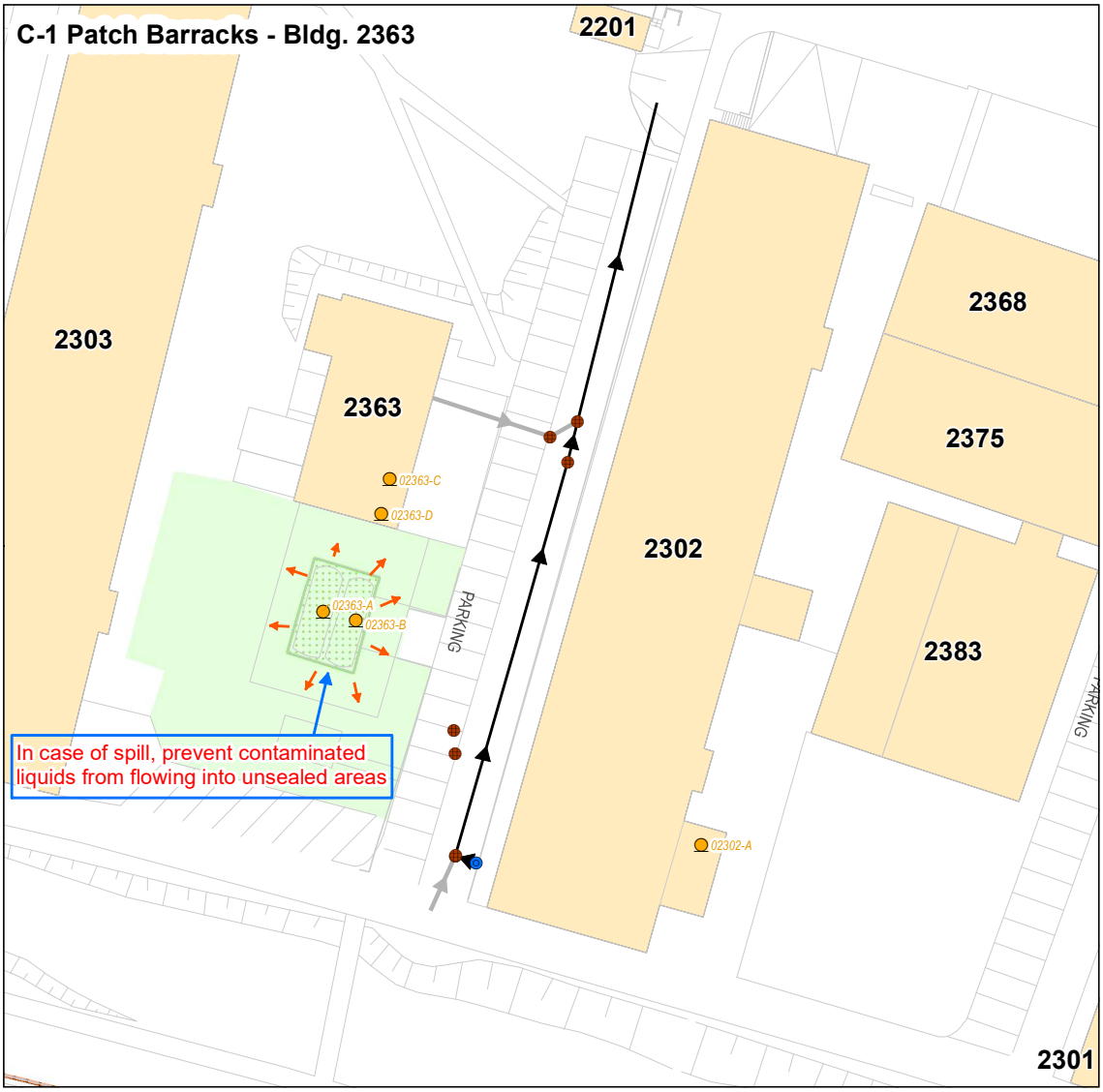
HAZMAT/ HAZWASTE Locations
B-11 BOEBLINGEN OFFICERS CLUB

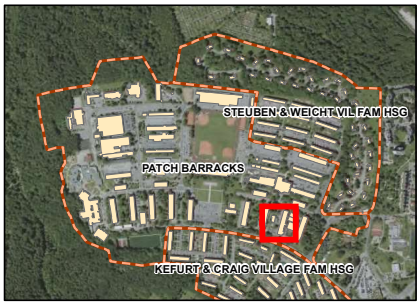
Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

DETAILED SPILL MAPS
(C-MAPS)





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 20 40 80 Feet

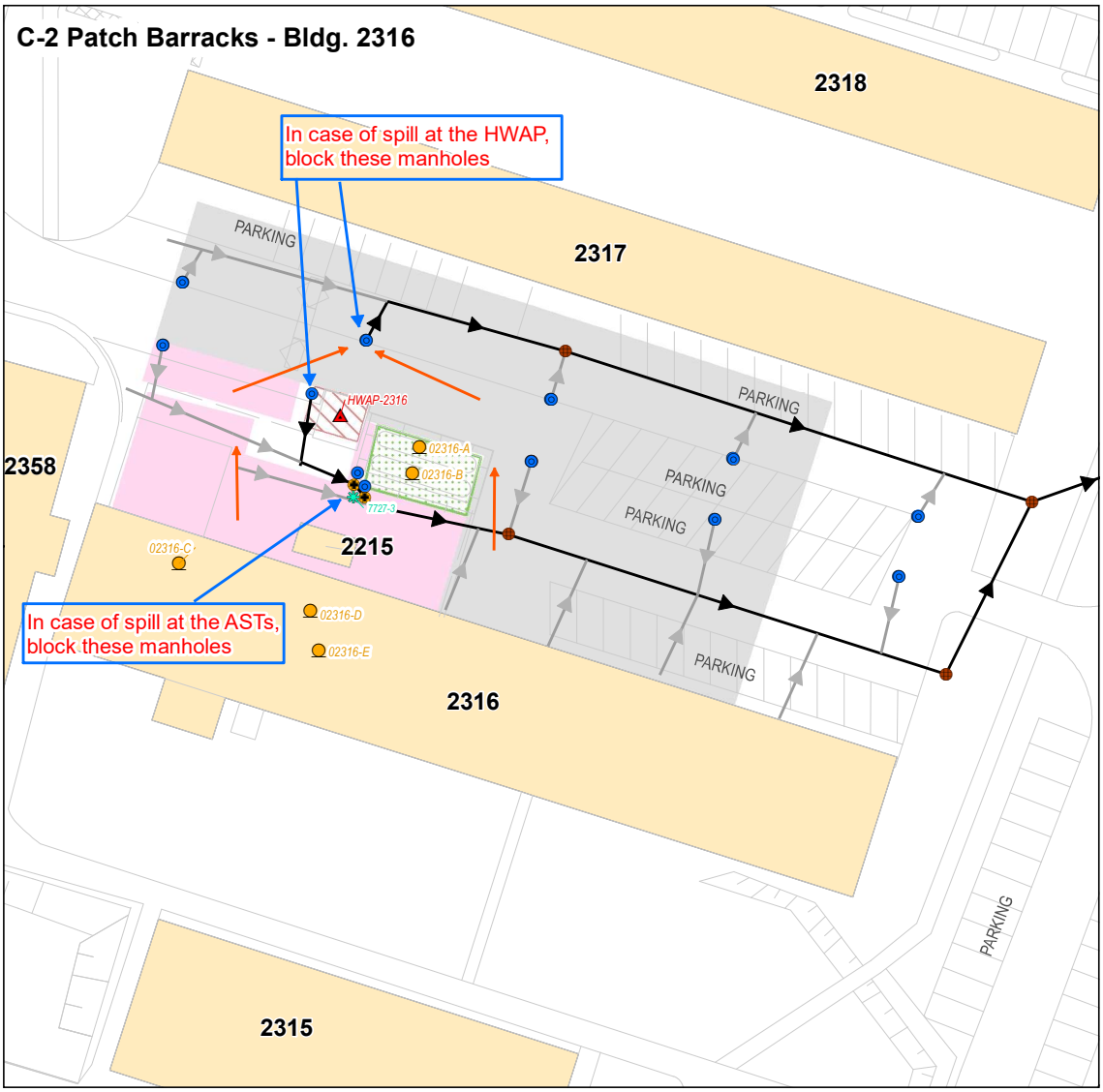
USAG STUTTGART

C-1 Patch Barracks - Bldg. 2363

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 20 40 80 Feet

USAG STUTTGART

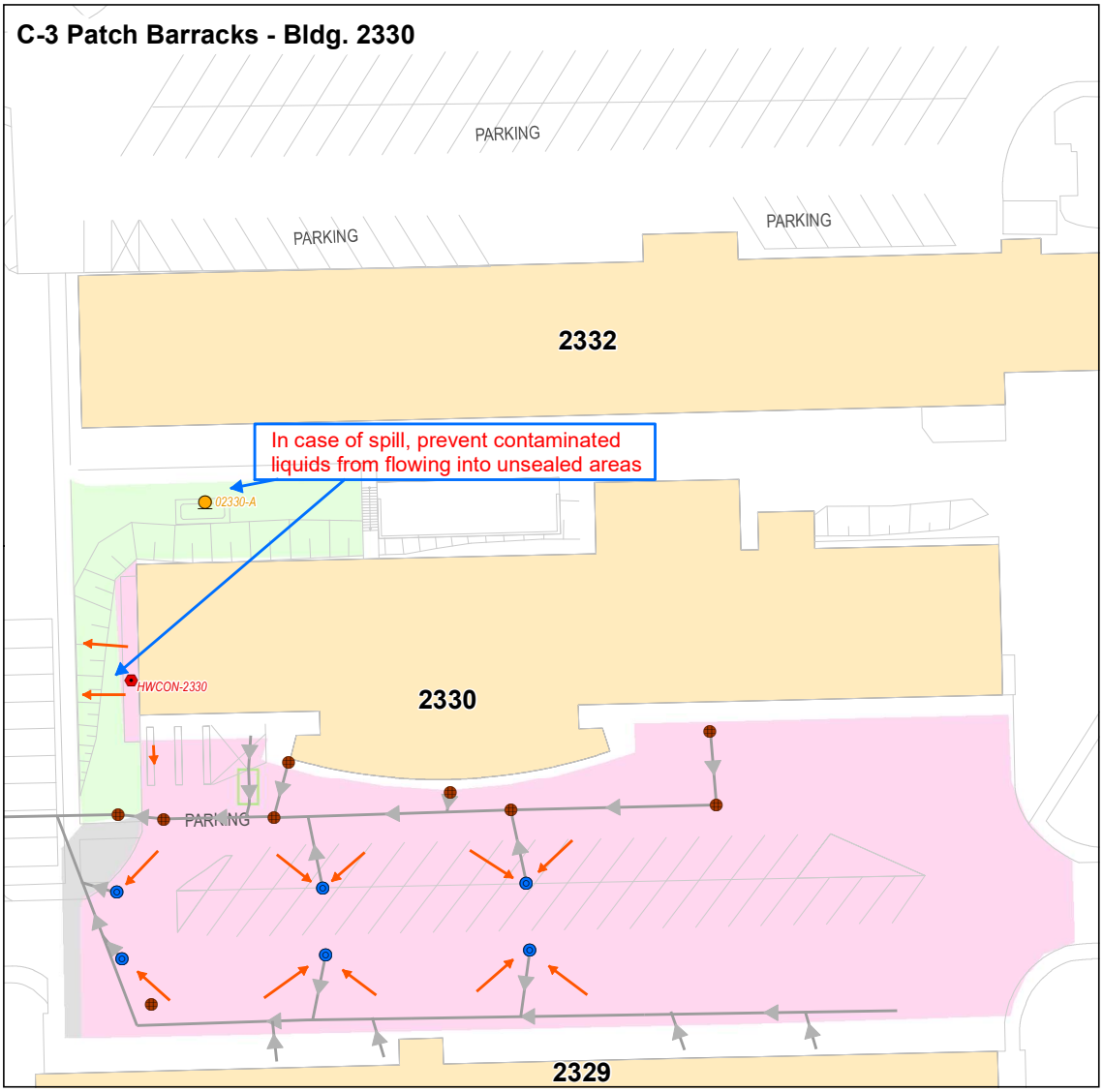
C-2 Patch Barracks - Bldg. 2316

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

C-3 Patch Barracks - Bldg. 2330



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 20 40 80 Feet

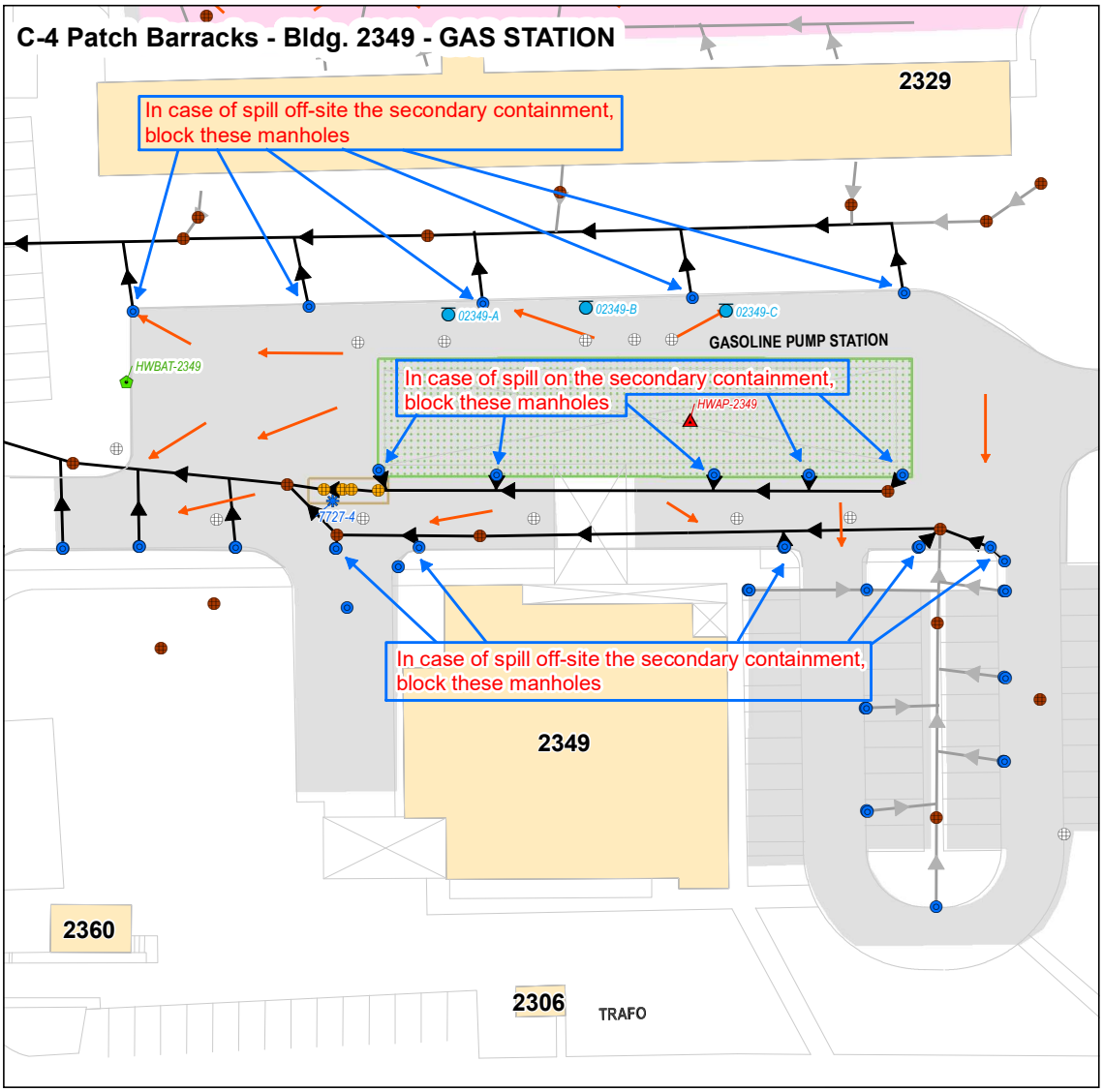
USAG STUTTGART

C-3 Patch Barracks - Bldg. 2330

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 20 40 80 Feet

USAG STUTTGART

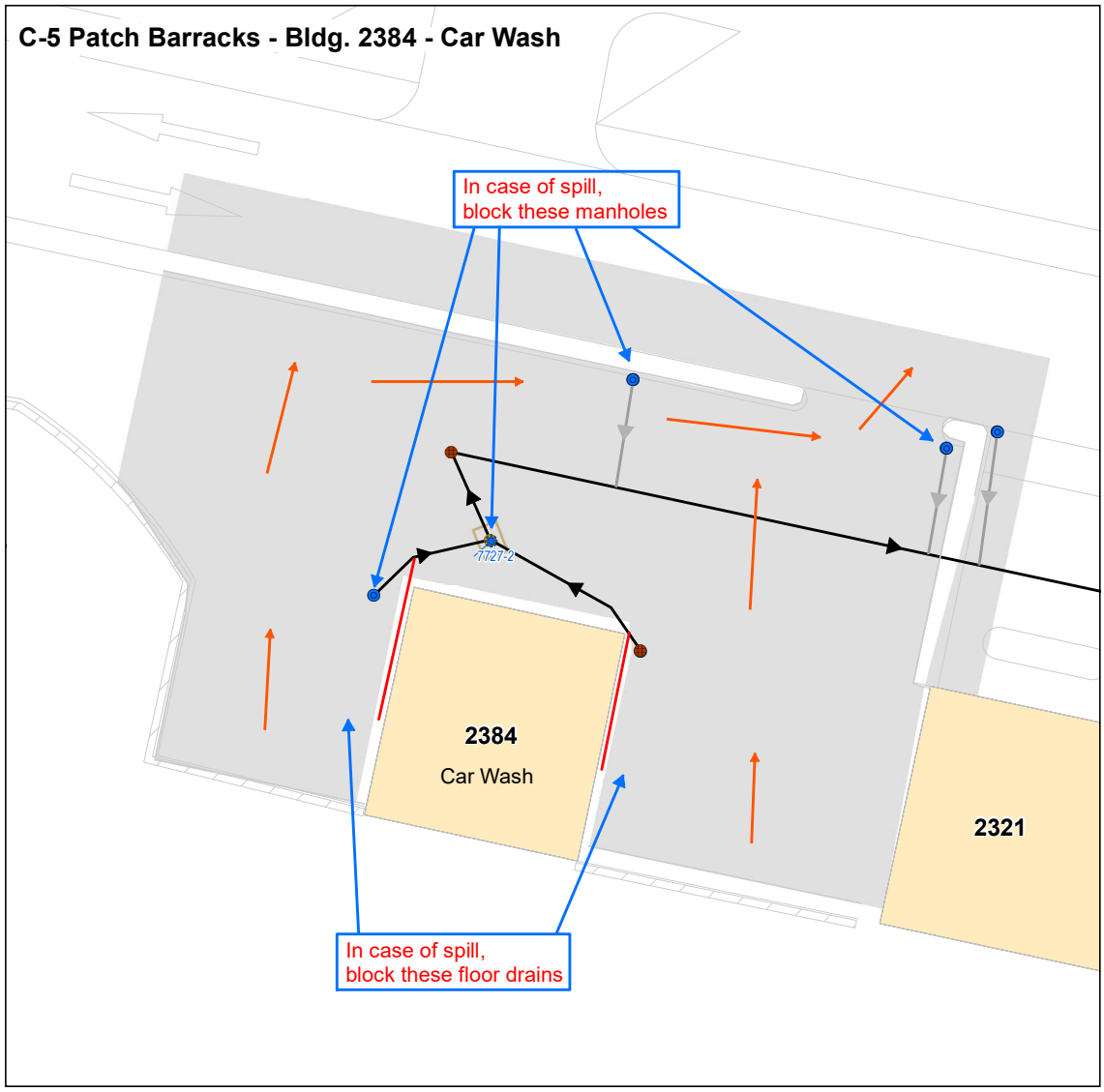
C-4 Patch Barracks - Bldg. 2349 - GAS STATION

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

C-5 Patch Barracks - Bldg. 2384 - Car Wash



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 2,5 5 10 Meters
0 5 10 20 Feet

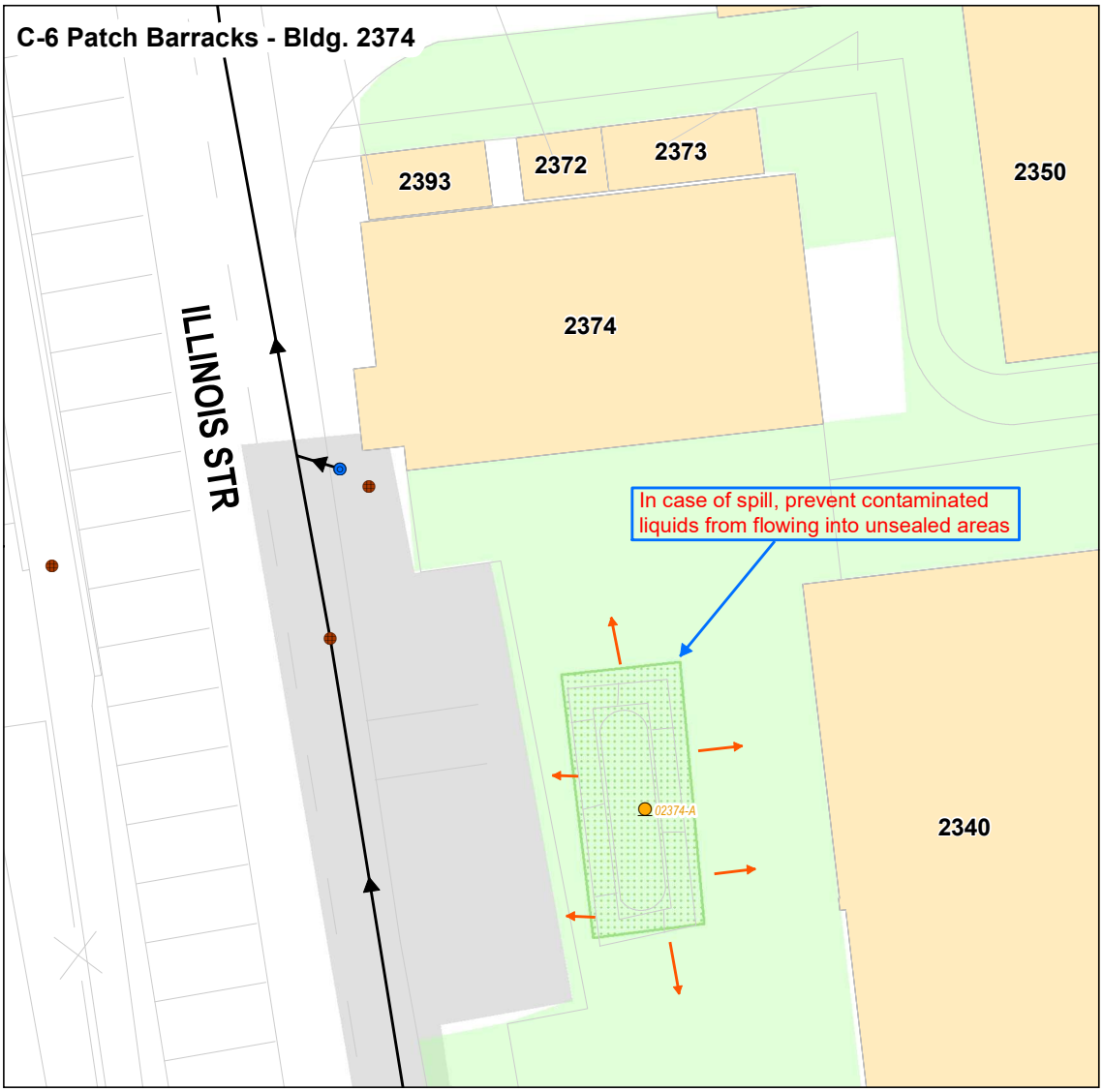
USAG STUTTGART

C-5 Patch Barracks - Bldg. 2384 - Car Wash

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 2,75 5,5 11 Meters
0 5 10 20 Feet

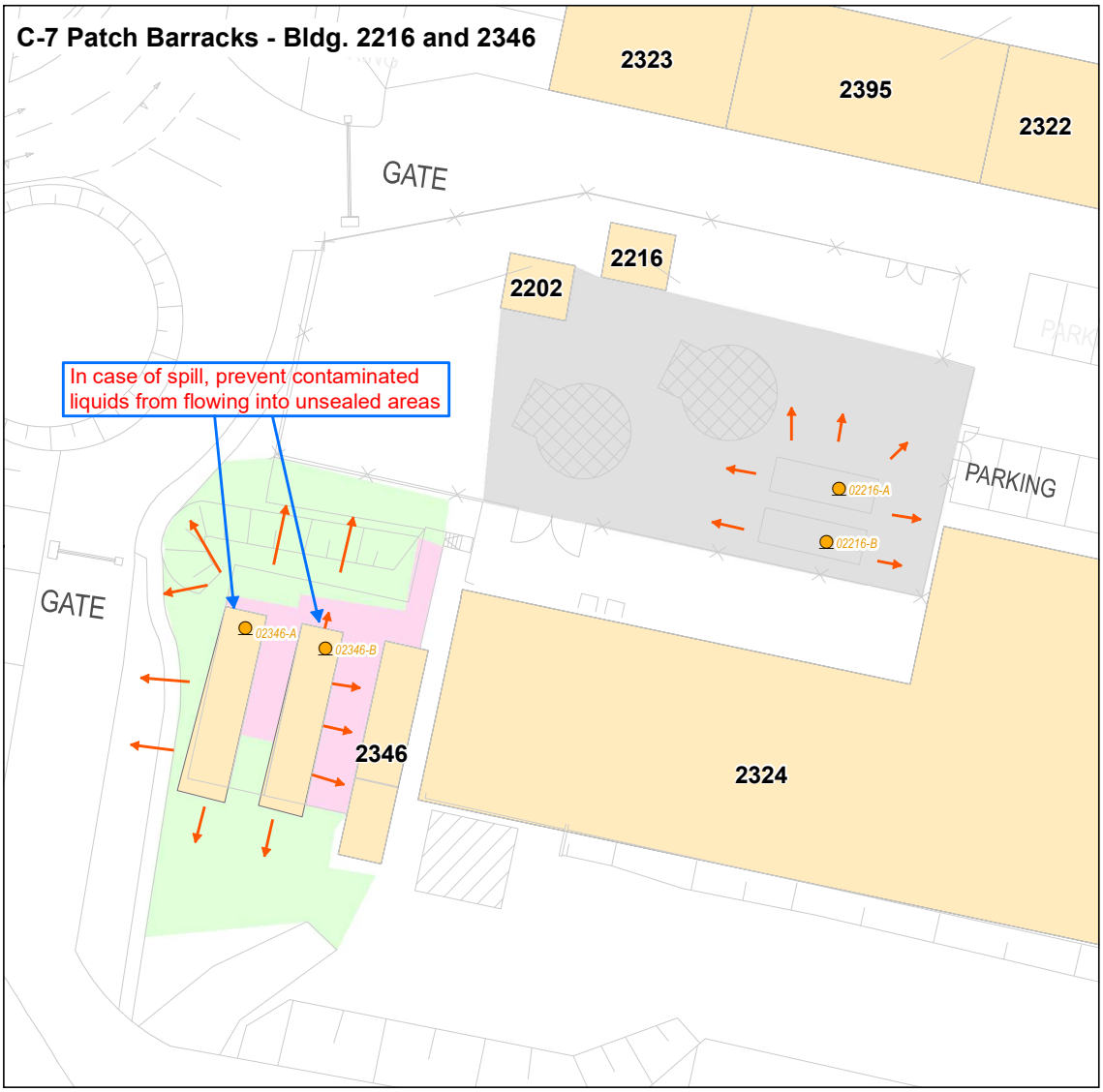
USAG STUTTGART

C-6 Patch Barracks - Bldg. 2374

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 4,5 9 18 Meters
0 12,5 25 50 Feet

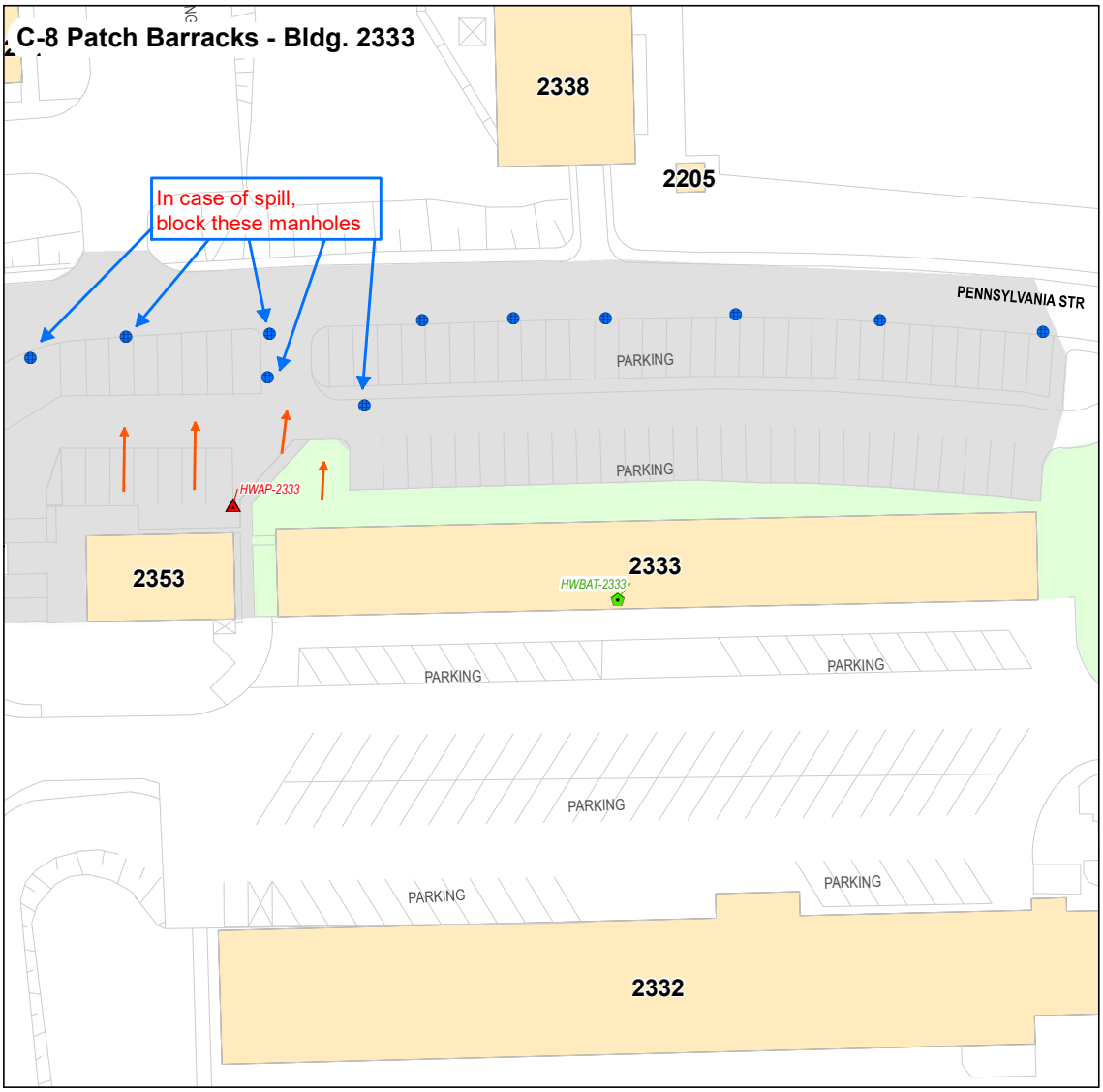
USAG STUTTGART

C-7 Patch Barracks - Bldg. 2216 and 2346

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 20 40 80 Feet

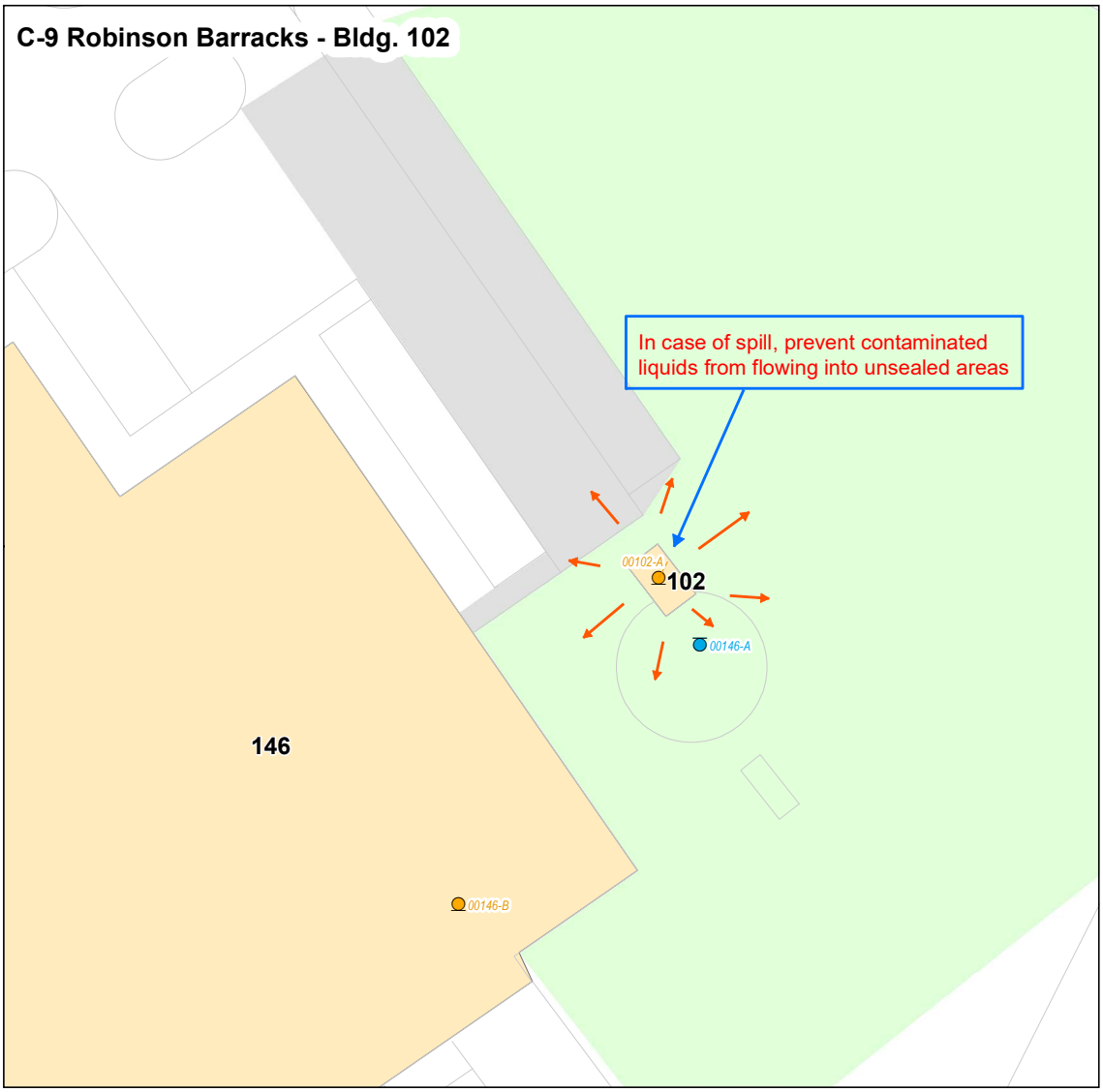
USAG STUTTGART

C-8 Patch Barracks - Bldg. 2333

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 15 30 60 Feet

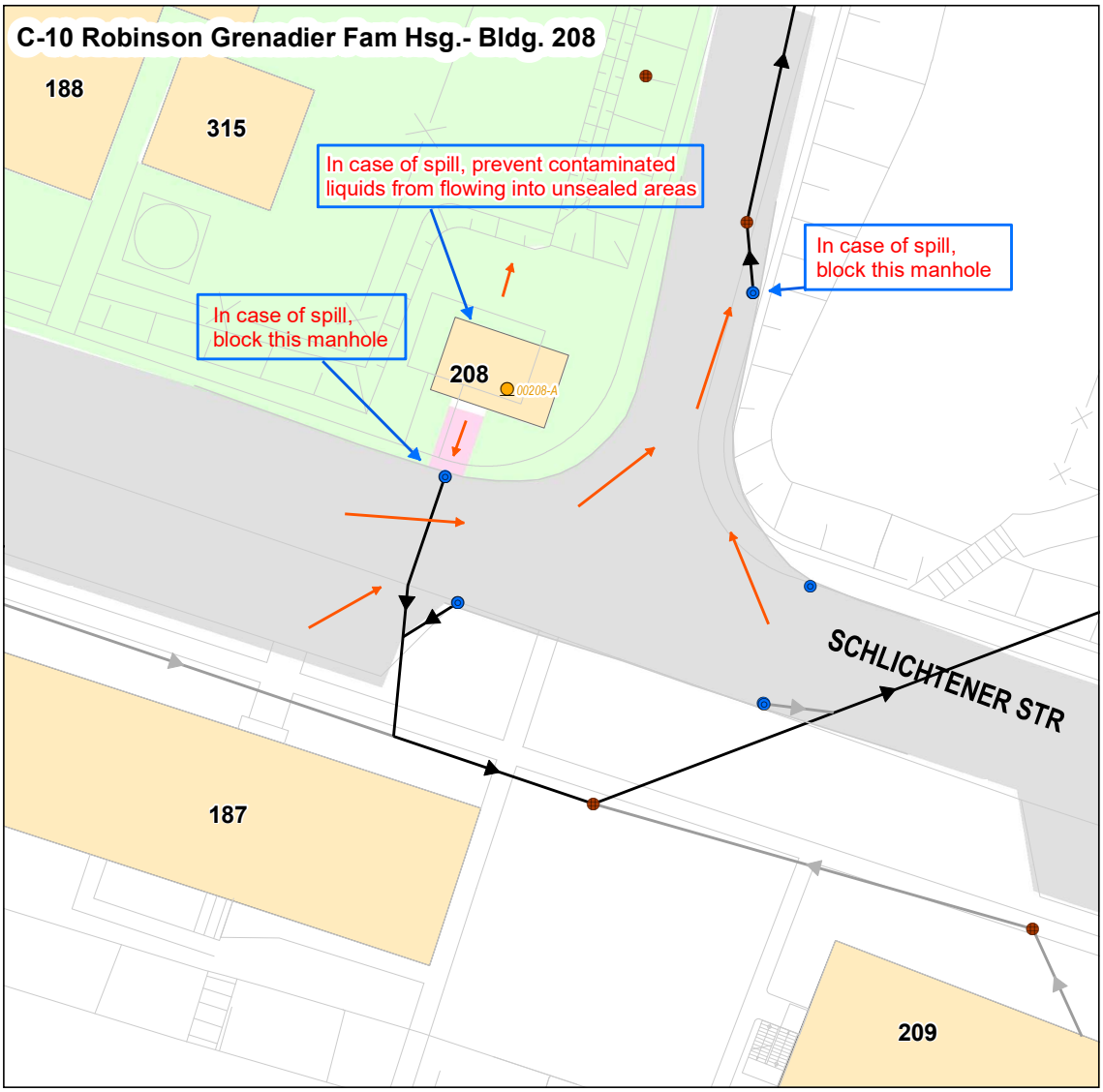
USAG STUTTGART

C-9 Robinson Barracks - Bldg. 102

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 3,75 7,5 15 Meters
0 10 20 40 Feet

USAG STUTTGART

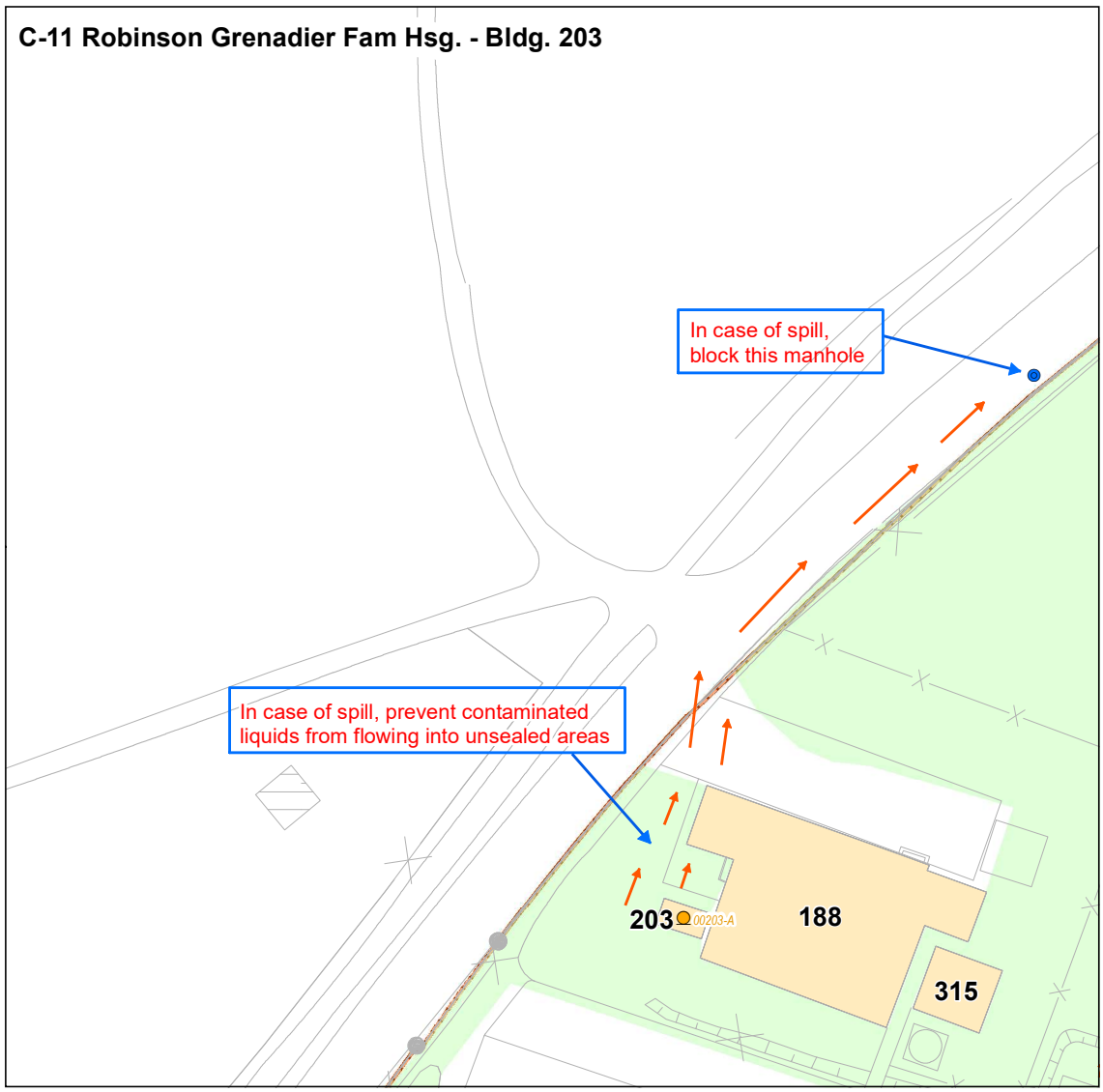
C-10 Robinson Grenadier Fam Hsg.- Bldg. 208

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

C-11 Robinson Grenadier Fam Hsg. - Bldg. 203



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 20 40 80 Feet

USAG STUTTGART

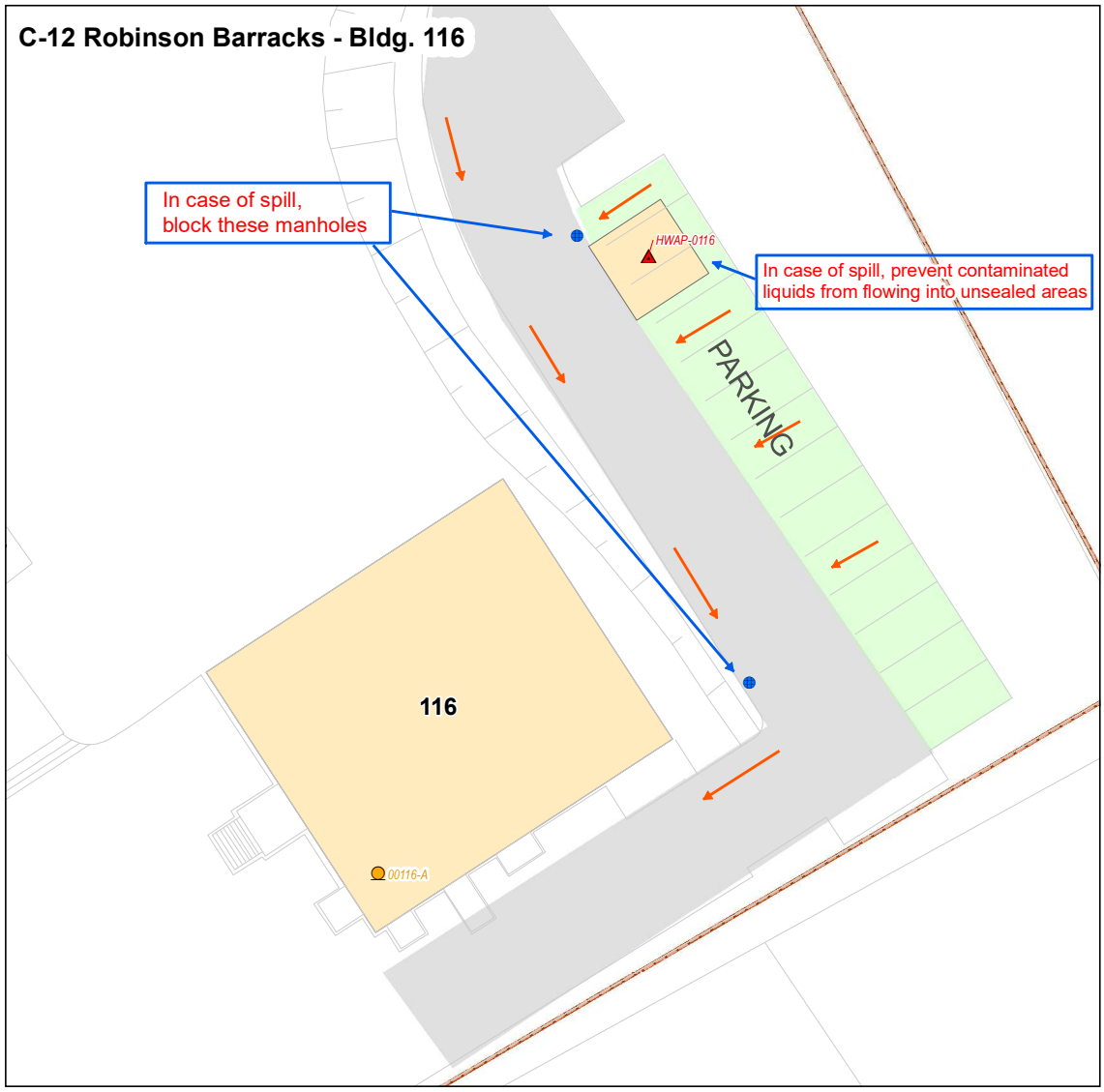
C-11 Robinson Grenadier Fam Hsg - Bldg. 203

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

C-12 Robinson Barracks - Bldg. 116



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 3,75 7,5 15 Meters
0 10 20 40 Feet

USAG STUTTGART

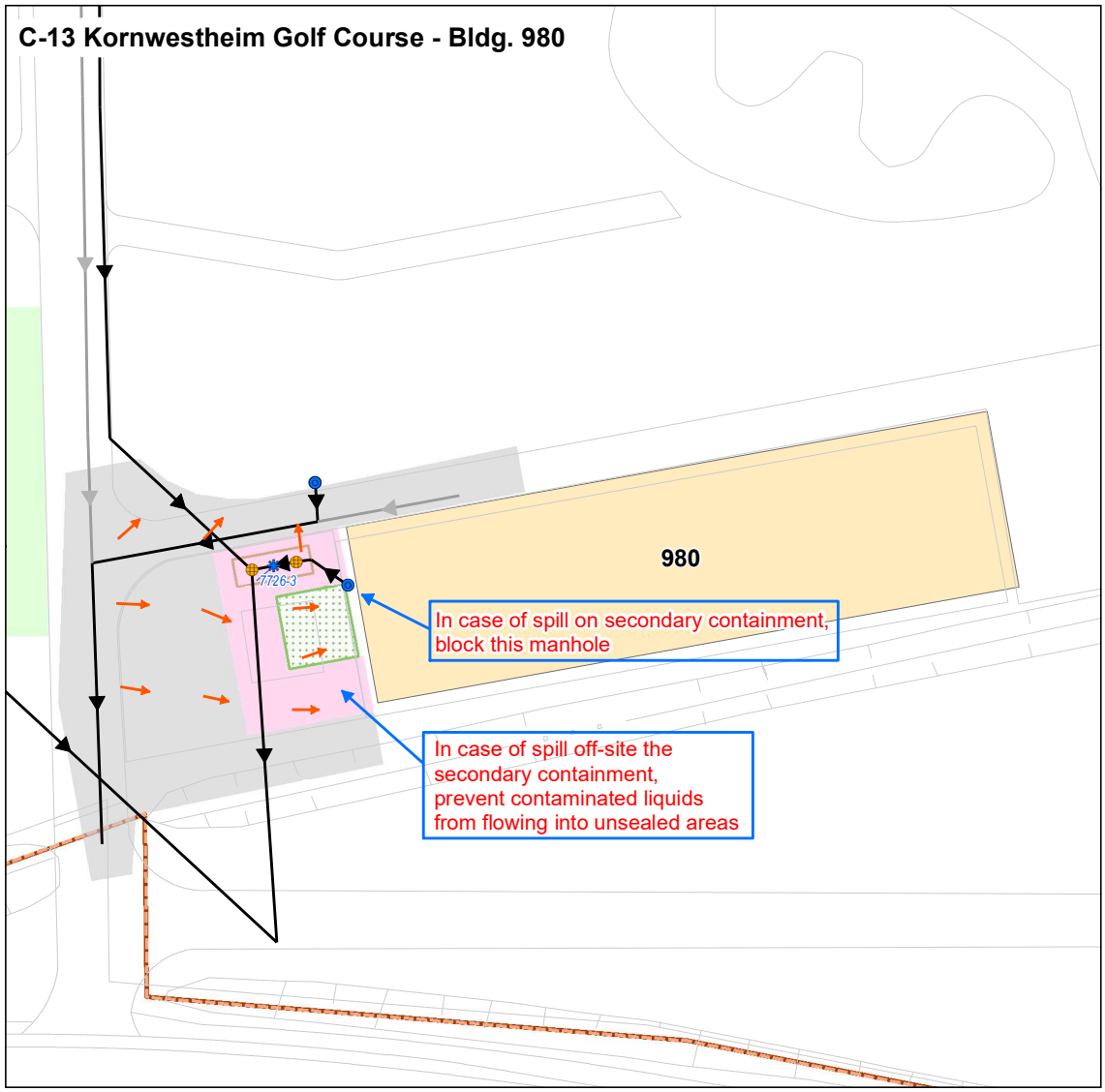
C-12 Robinson Barracks - Bldg. 116

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

C-13 Kornwestheim Golf Course - Bldg. 980



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 4,5 9 18 Meters
0 12,5 25 50 Feet

USAG STUTTGART

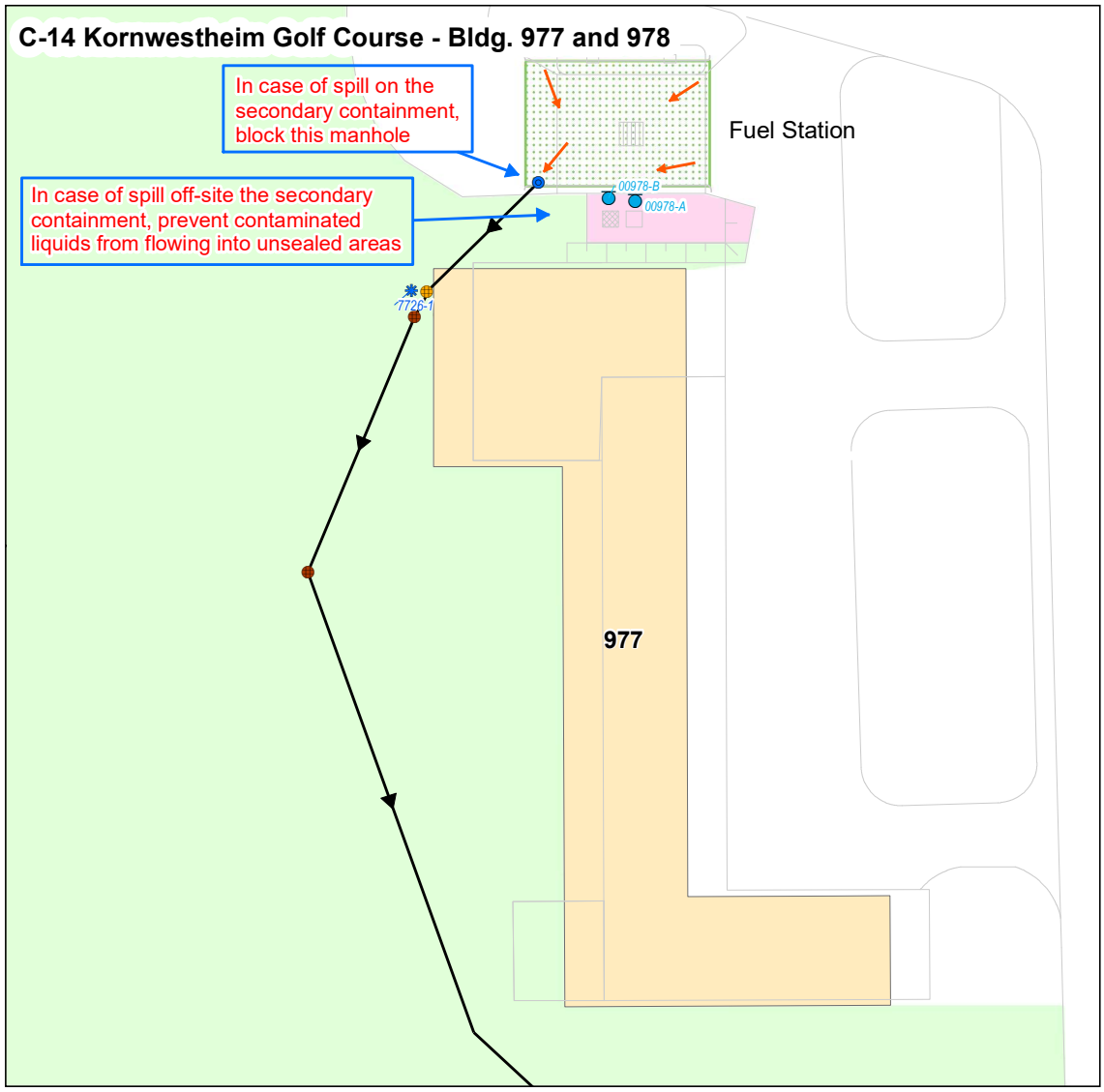
C-13 Kornwestheim Golf Course - Bldg. 980

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

C-14 Kornwestheim Golf Course - Bldg. 977 and 978



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 3,25 6,5 13 Meters
0 10 20 40 Feet

USAG STUTTGART

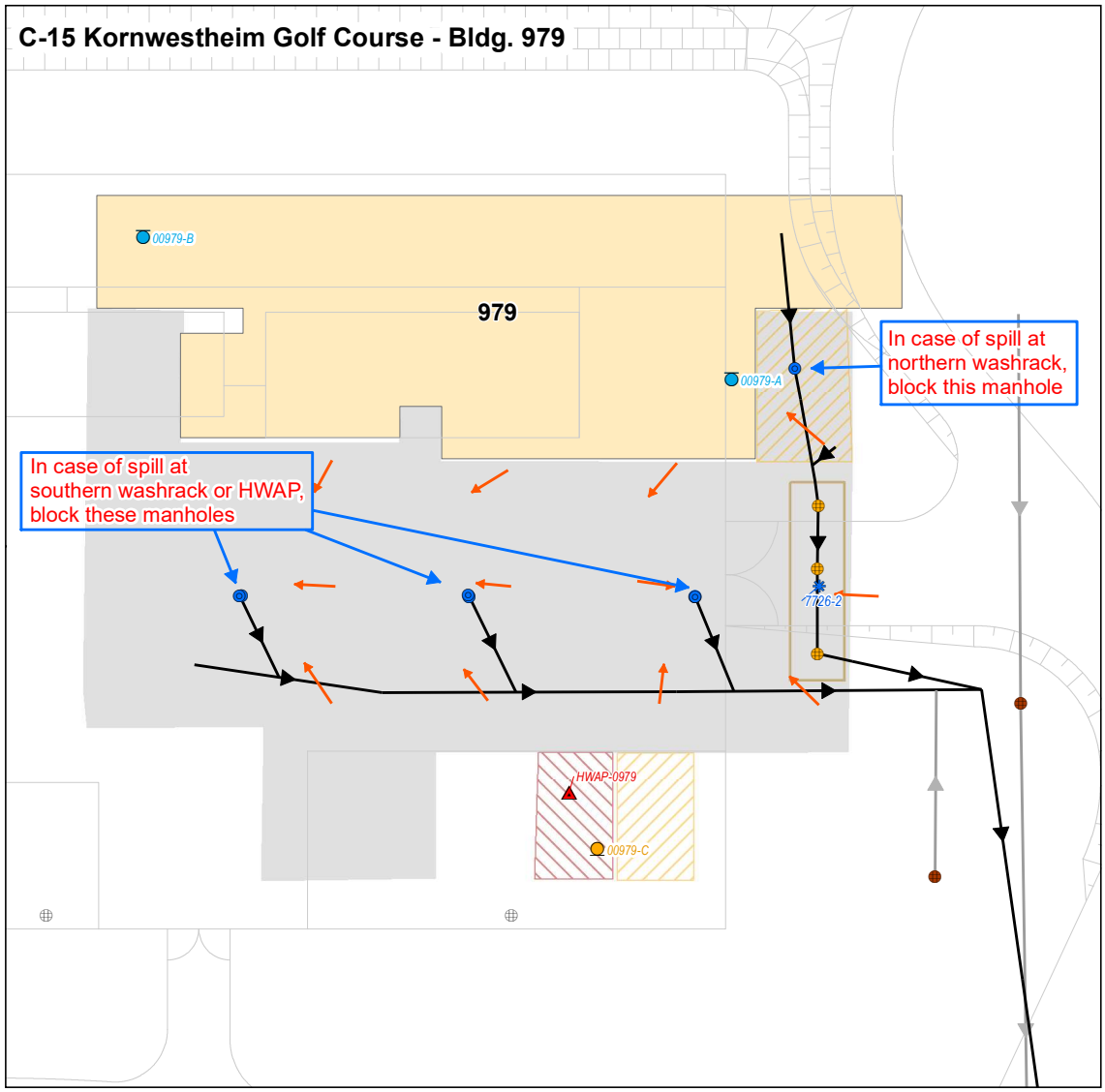
C-14 Kornwestheim Golf Course - Bldg. 977 and 978

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

C-15 Kornwestheim Golf Course - Bldg. 979



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 3 6 12 Meters
0 5 10 20 Feet

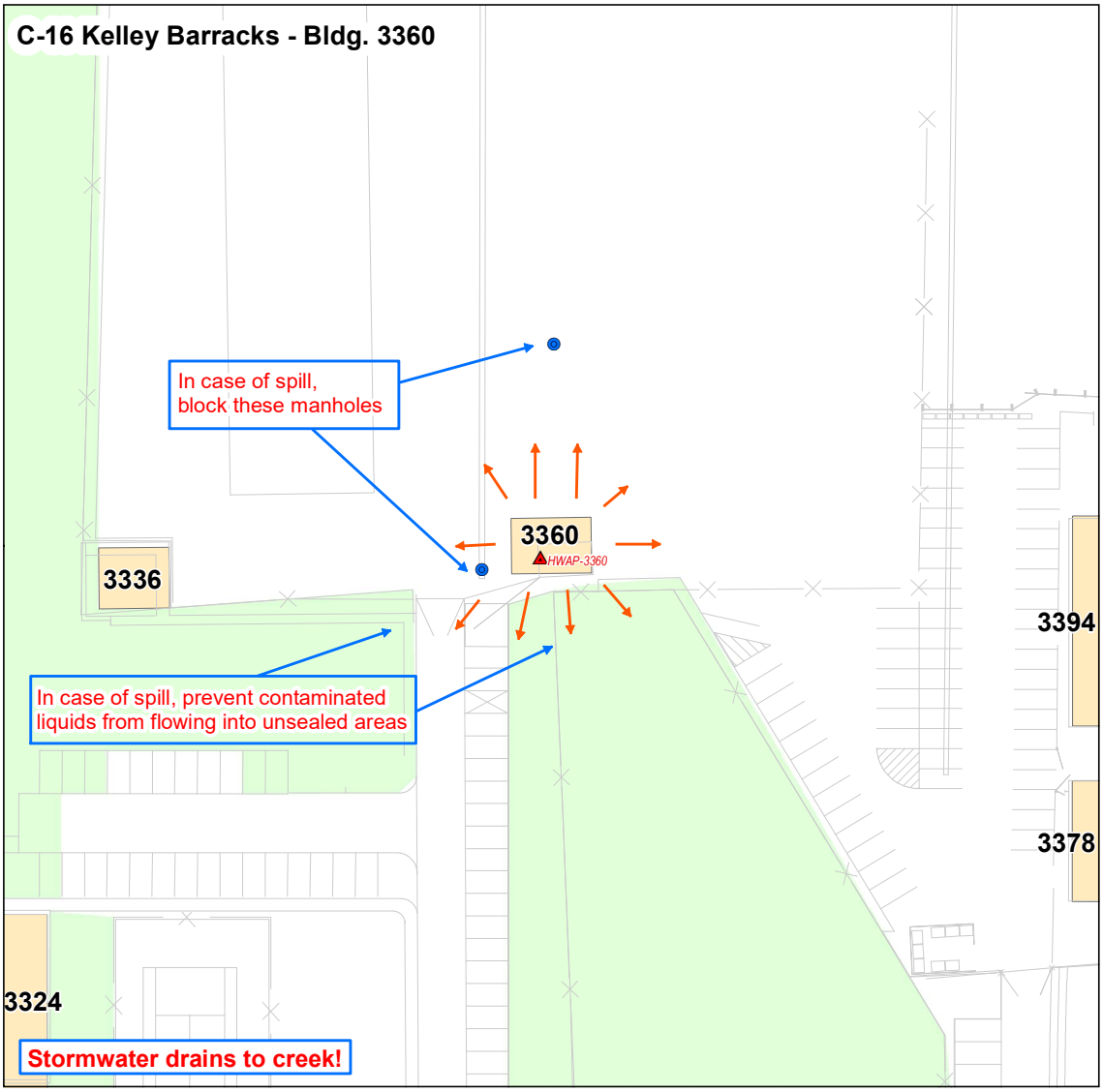
USAG STUTTGART

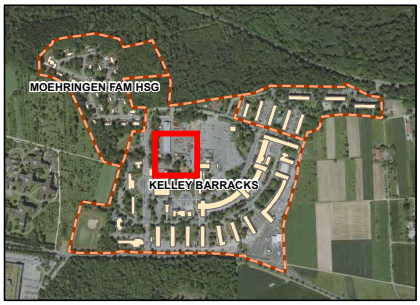
C-15 Kornwestheim Golf Course - Bldg. 979

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 20 40 80 Feet

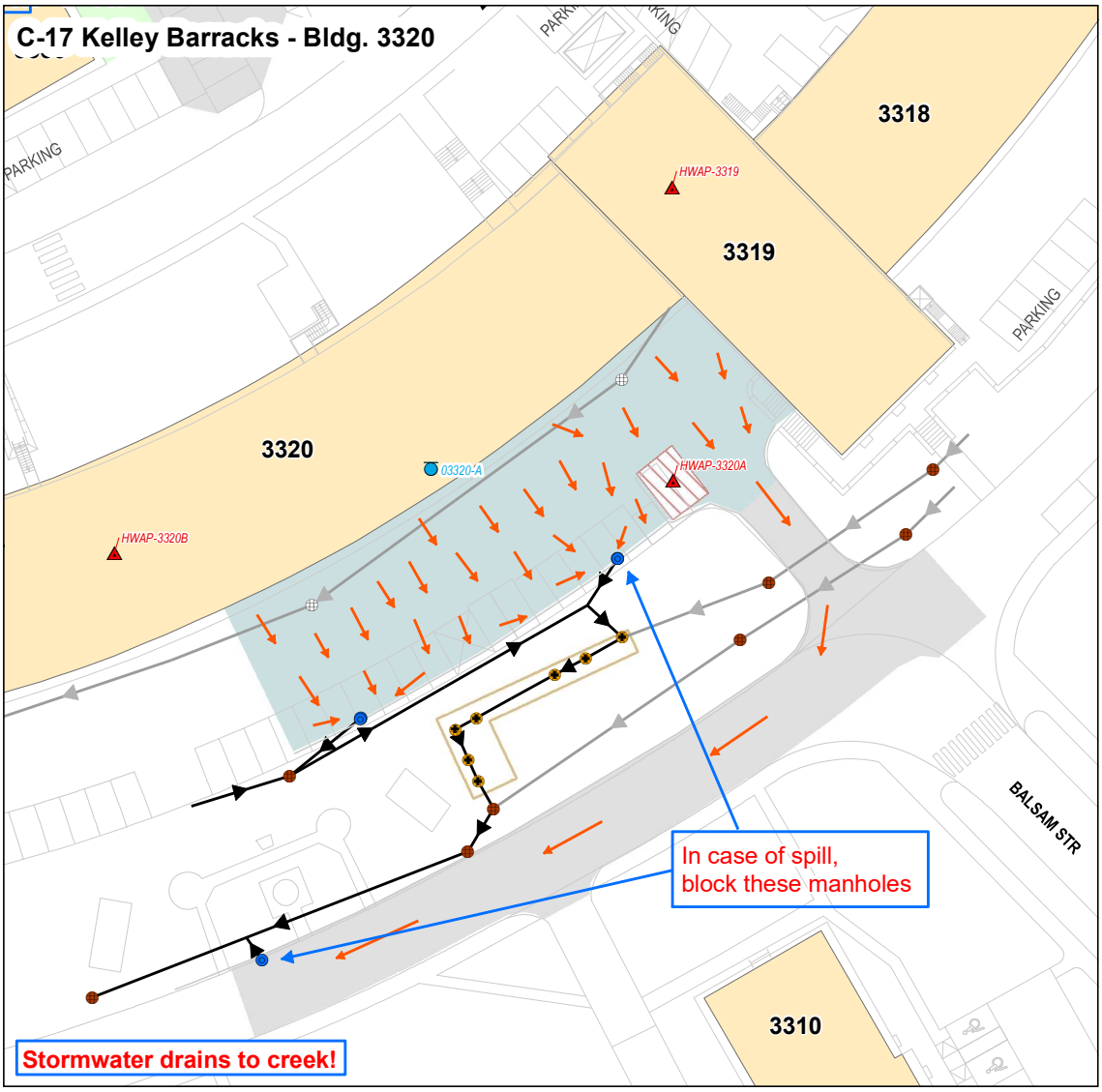
USAG STUTTGART

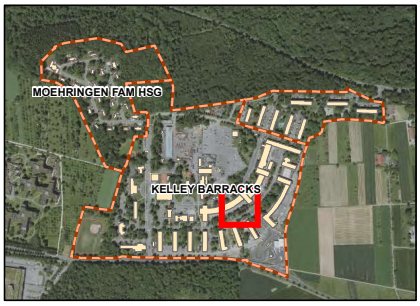
C-16 Kelley Barracks - Bldg. 3360

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 20 40 80 Feet

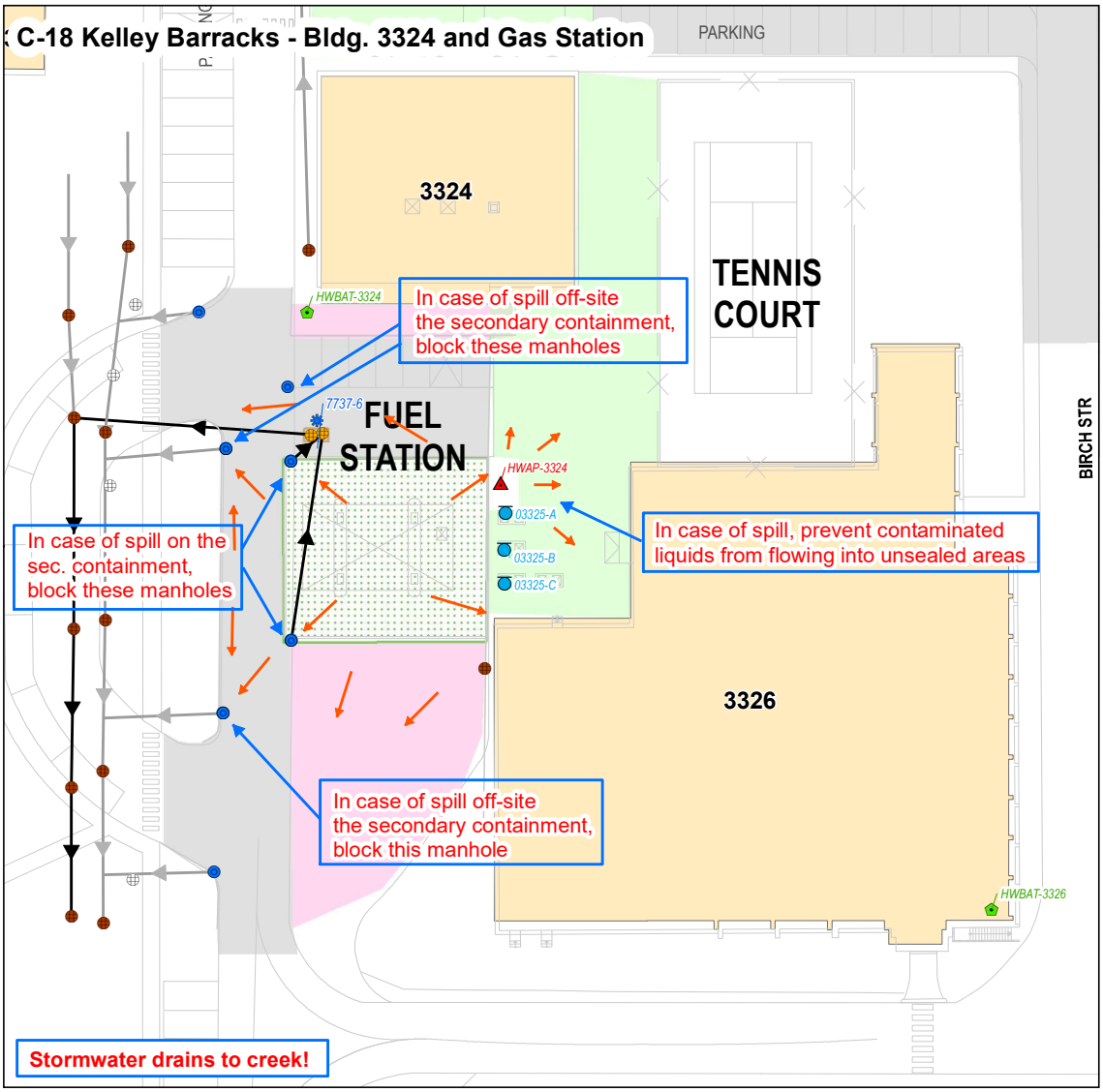
USAG STUTTGART

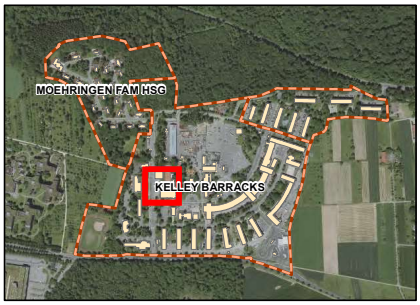
C-17 Kelley Barracks - Bldg. 3320

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 15 30 60 Feet

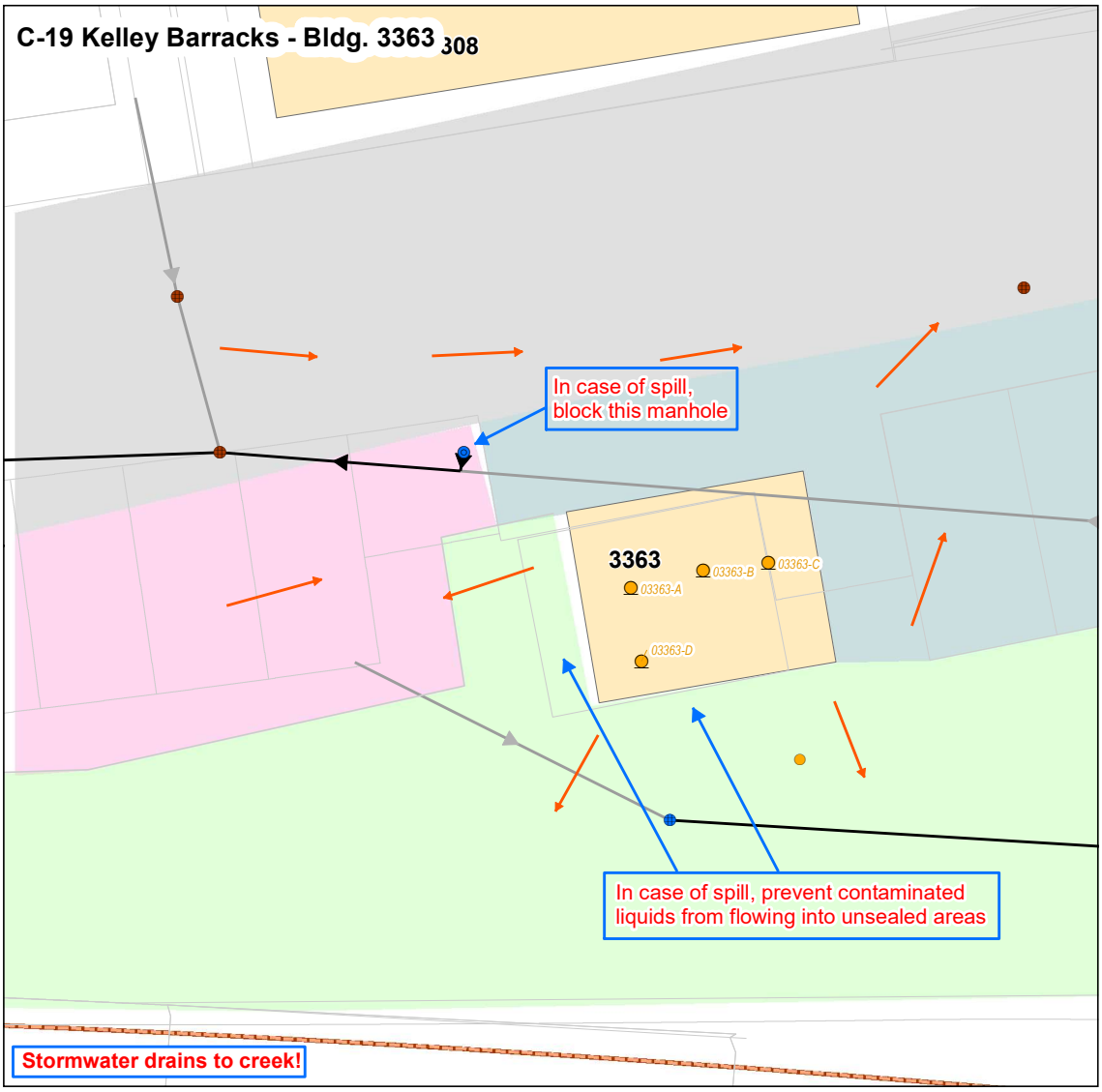
USAG STUTTGART

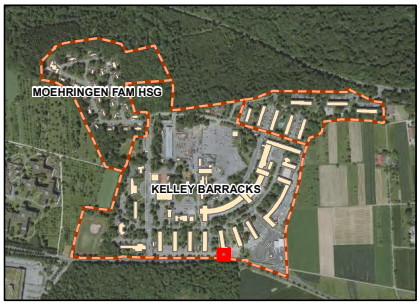
C-18 Kelley Barracks - Bldg. 3324 and Gas Station

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 1,5 3 6 Meters
0 4,75 9,5 19 Feet

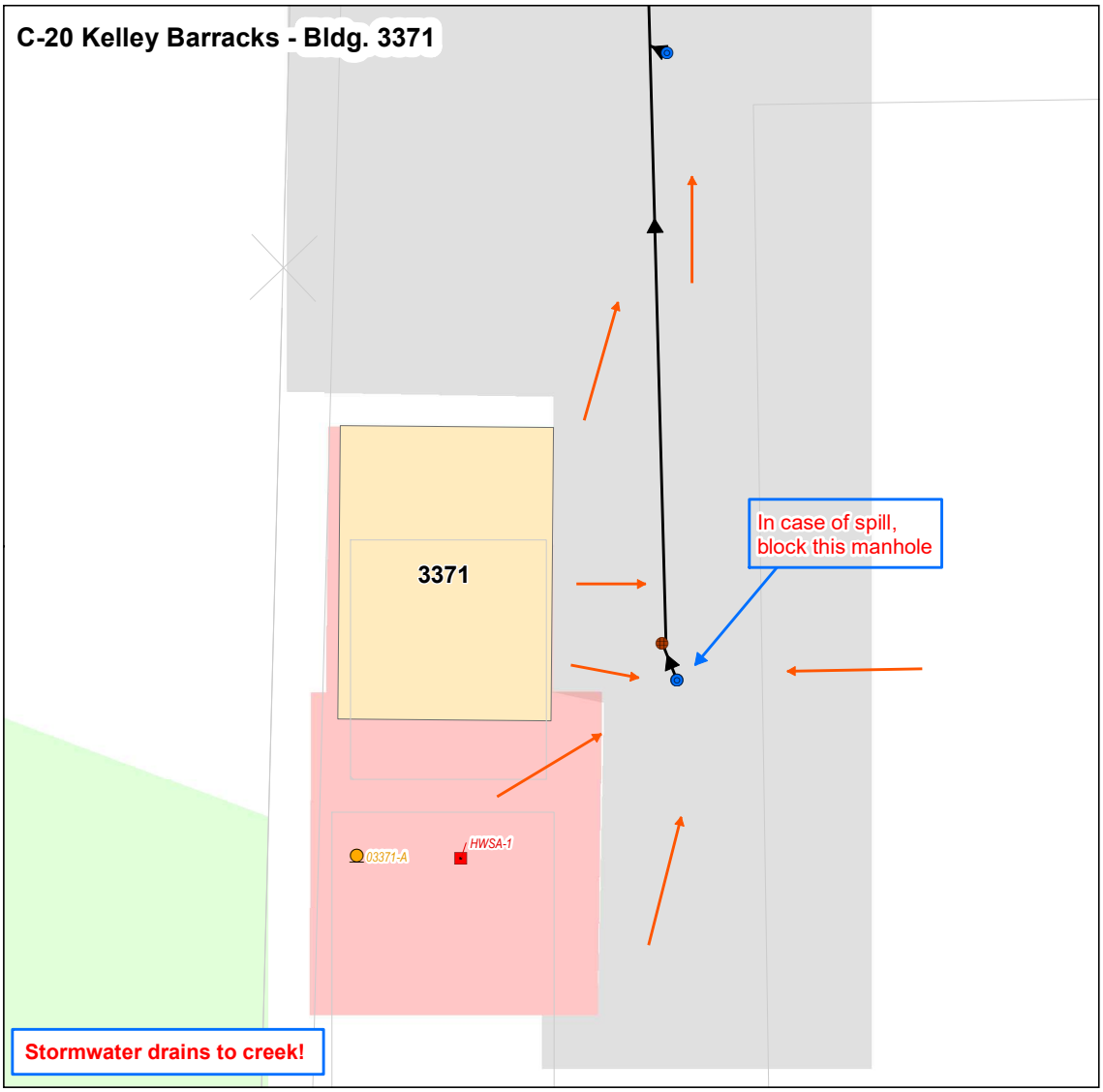
USAG STUTTGART

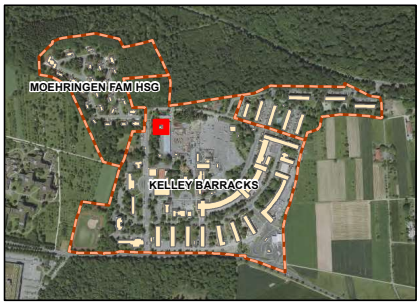
C-19 Kelley Barracks - Bldg. 3363

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 1,75 3,5 7 Meters
0 5 10 20 Feet

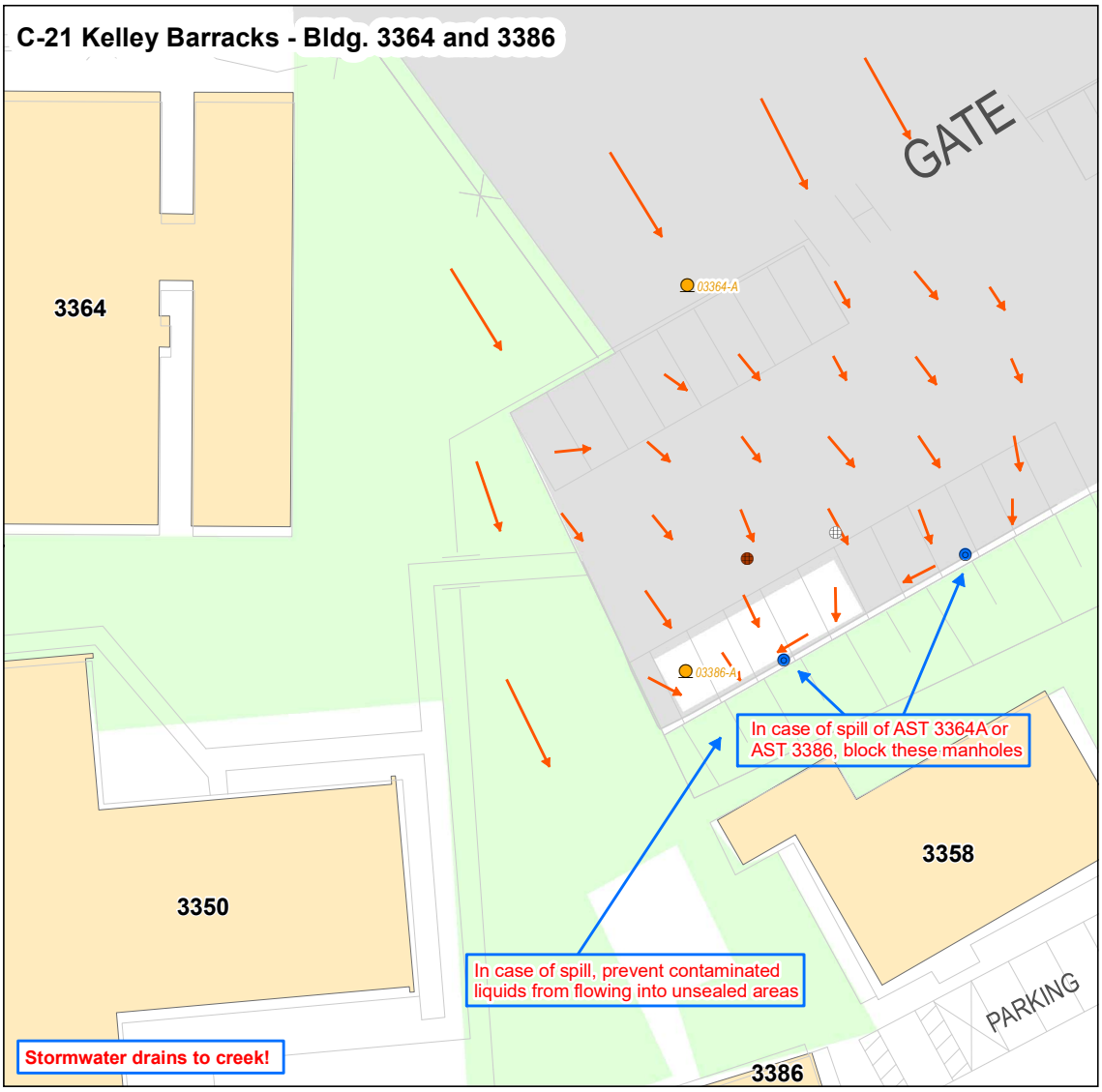
USAG STUTTGART

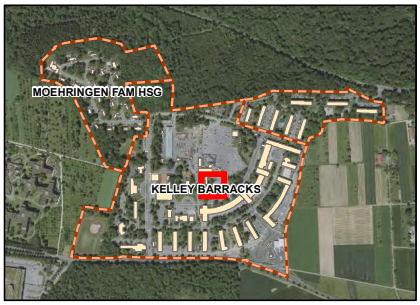
C-20 Kelley Barracks - Bldg. 3371

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 4 8 16 Meters
0 12,5 25 50 Feet

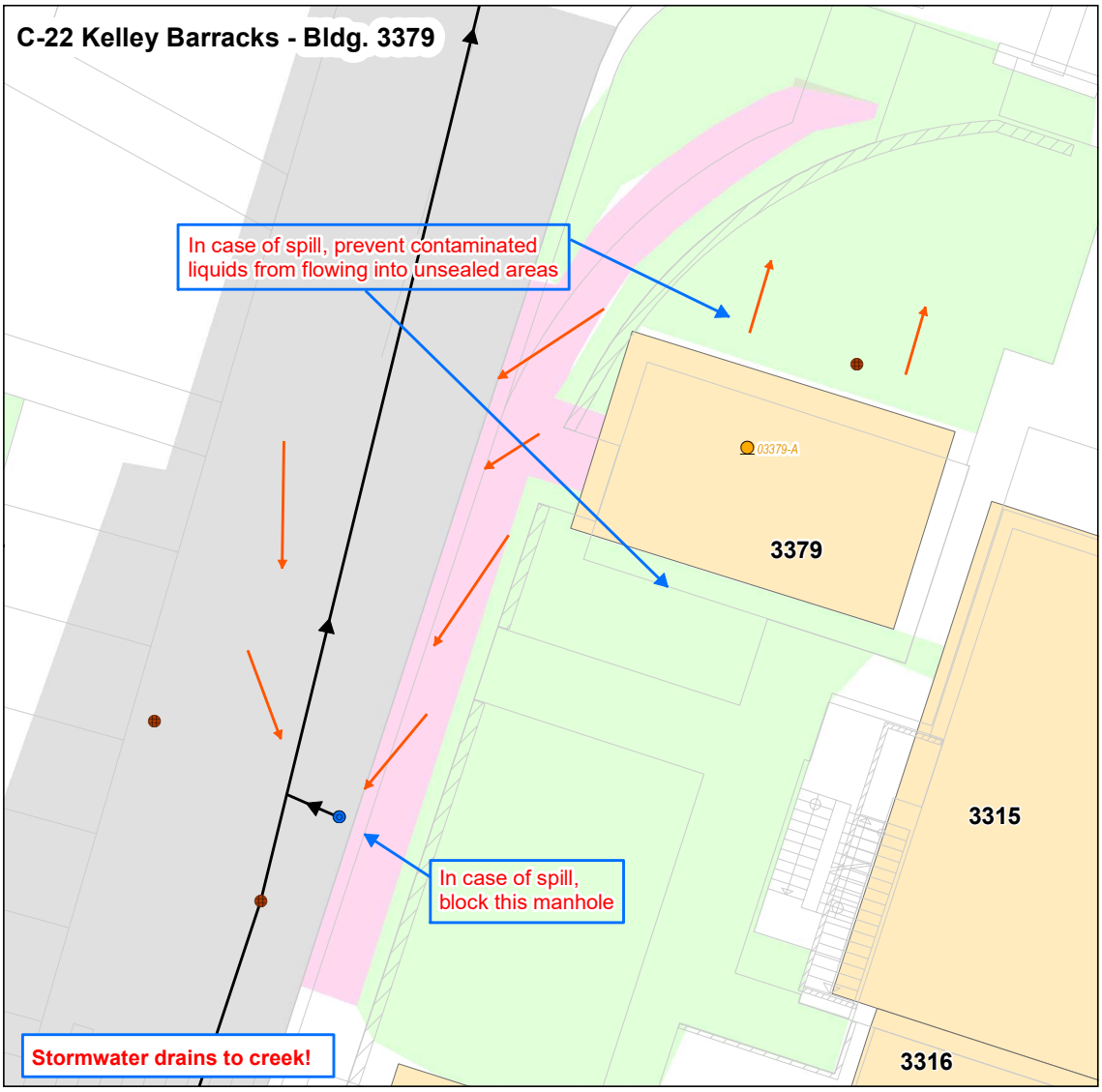
USAG STUTTGART

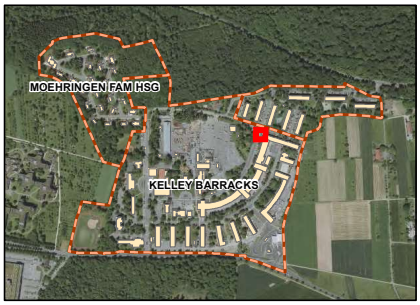
C-21 Kelley Barracks - Bldg. 3364 and 3386

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 1,75 3,5 7 Meters
0 5 10 20 Feet

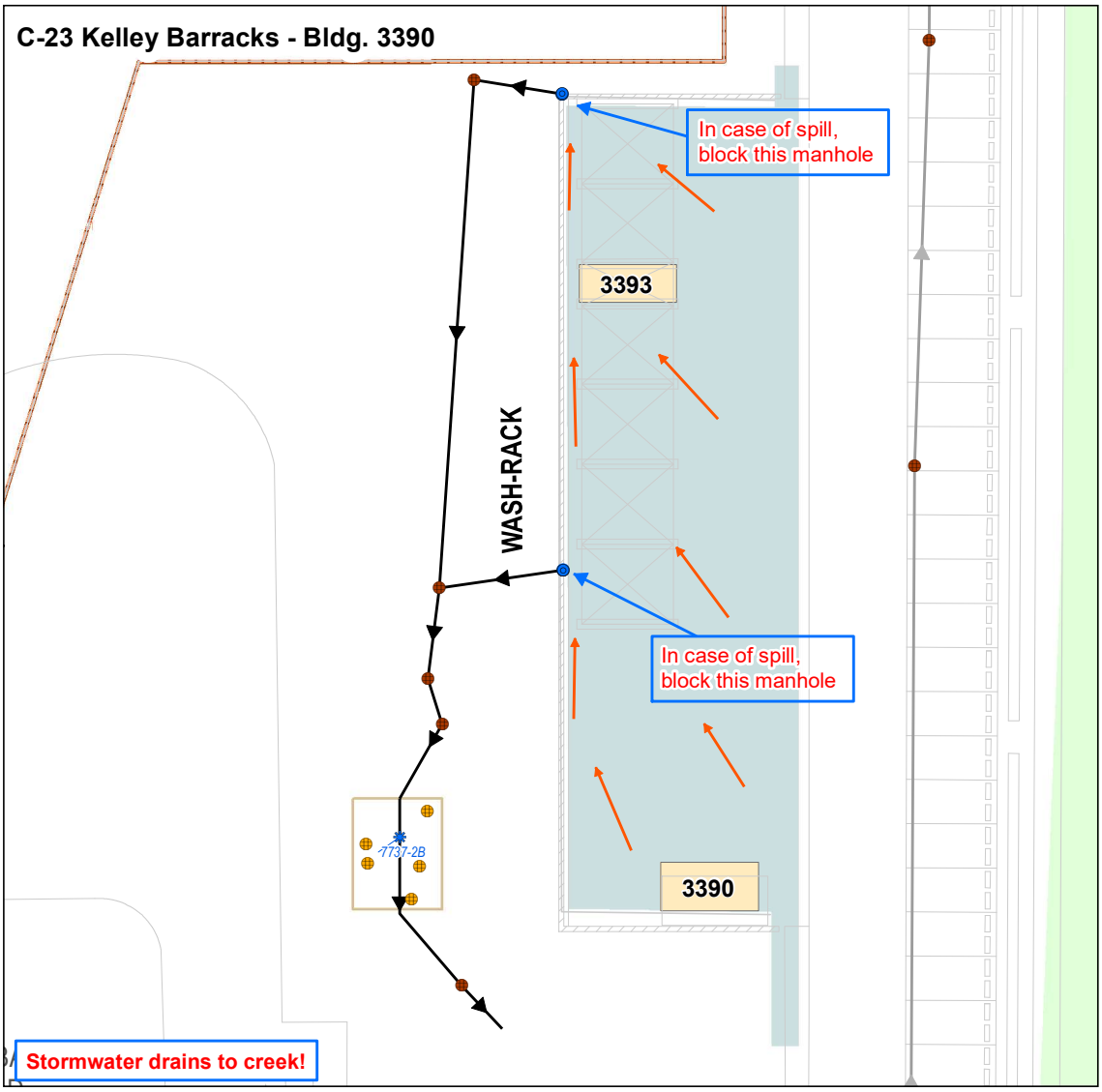
USAG STUTTGART

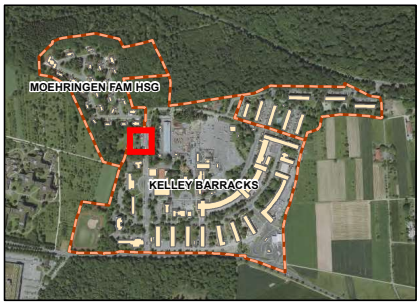
C-22 Kelley Barracks - Bldg. 3379

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 4 8 16 Meters
0 12,5 25 50 Feet

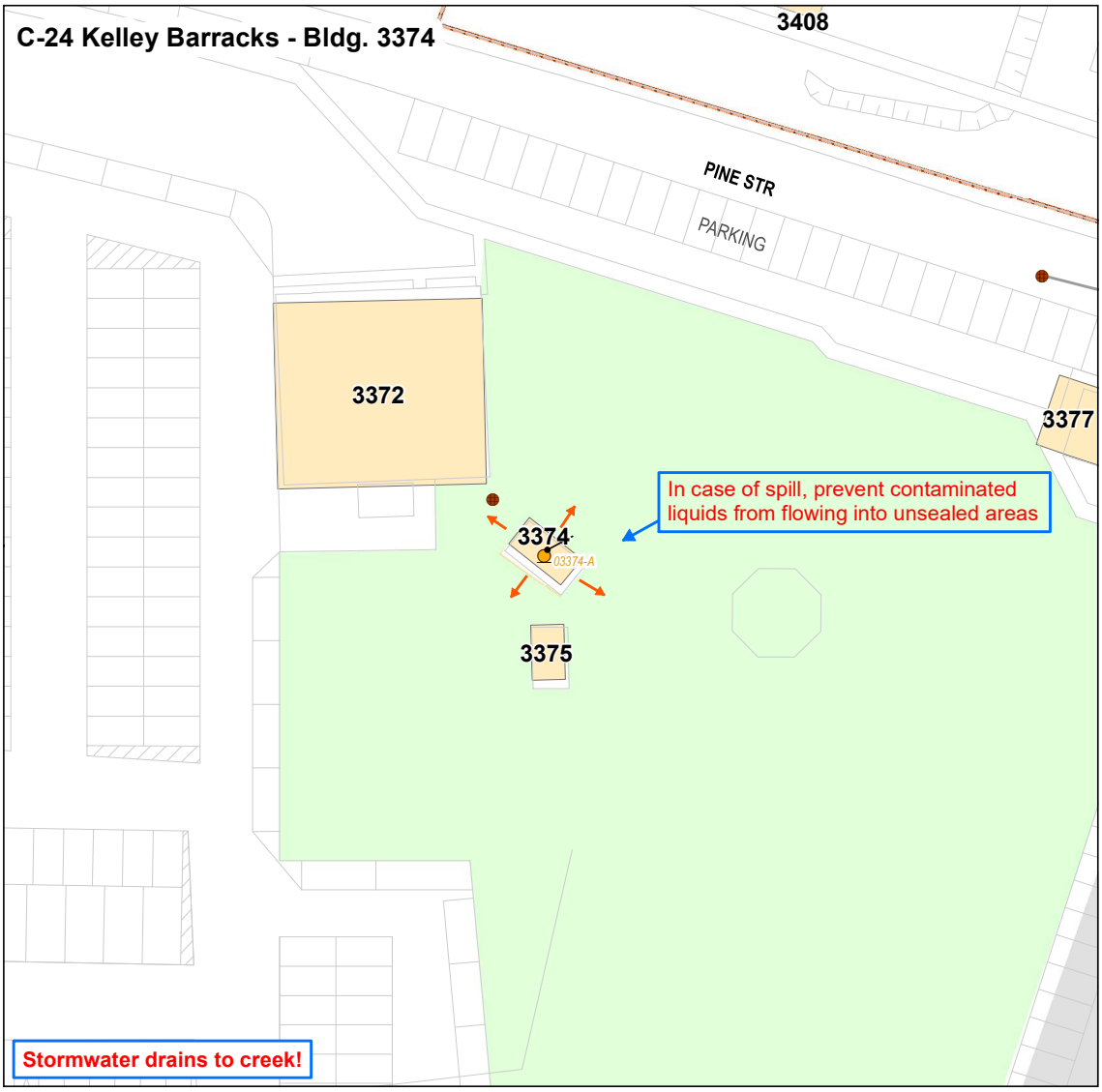
USAG STUTTGART

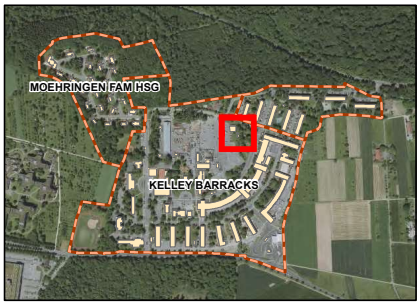
C-23 Kelley Barracks - Bldg. 3390

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 15 30 60 Feet

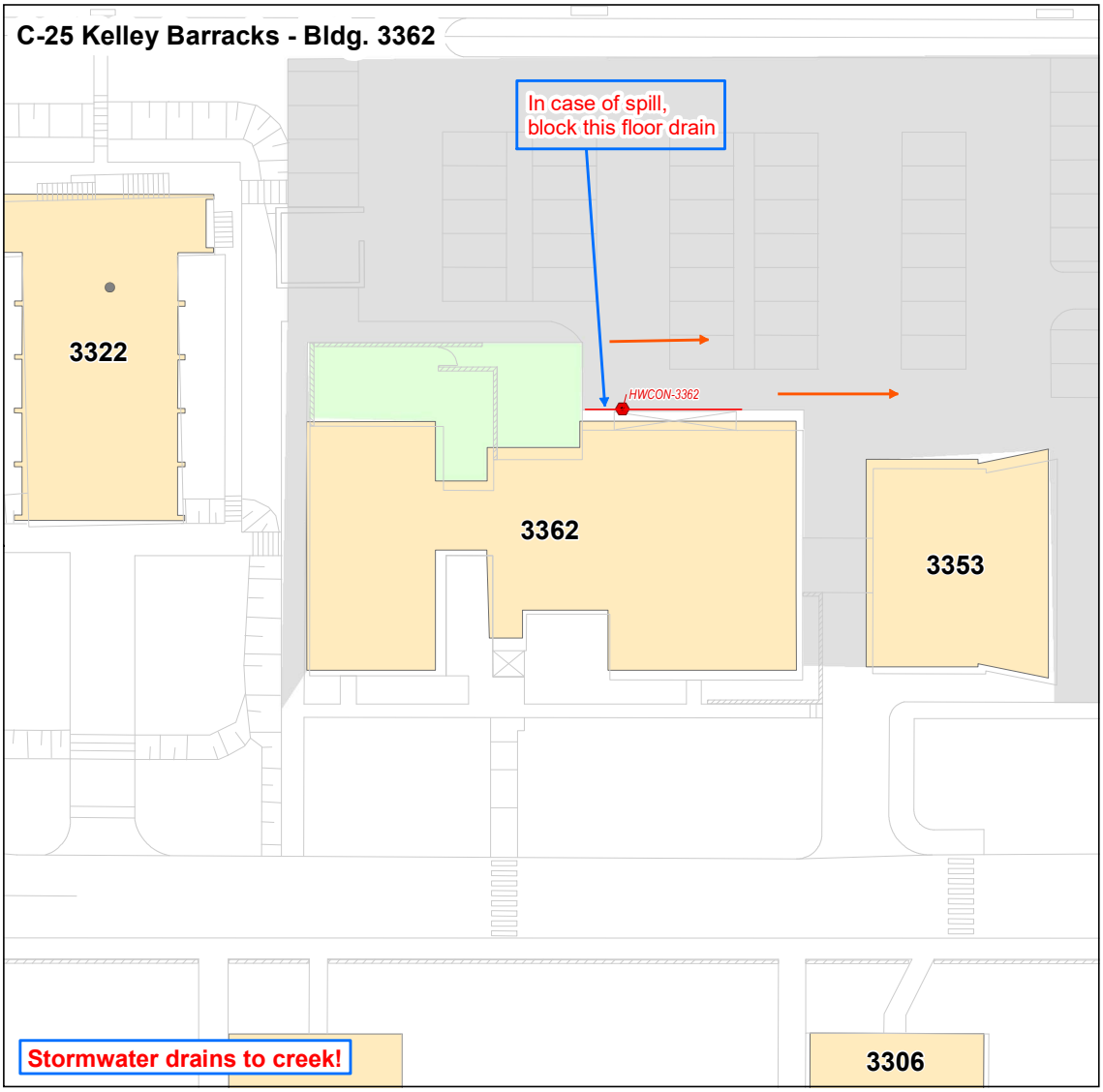
USAG STUTTGART

C-24 Kelley Barracks - Bldg. 3374

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 15 30 60 Feet

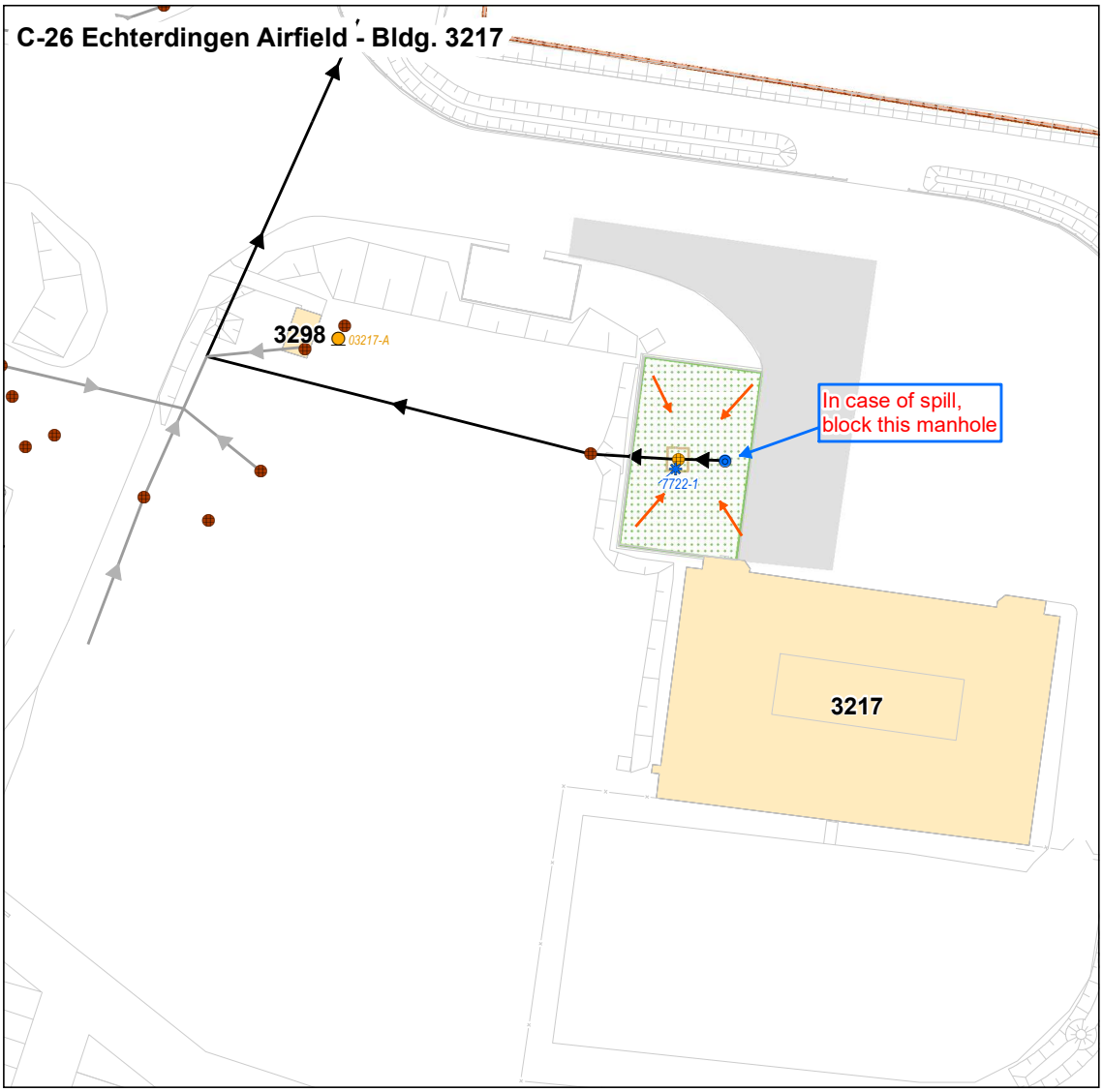
USAG STUTTGART

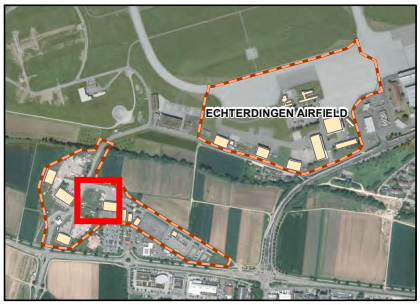
C-25 Kelley Barracks - Bldg. 3362

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 20 40 80 Feet

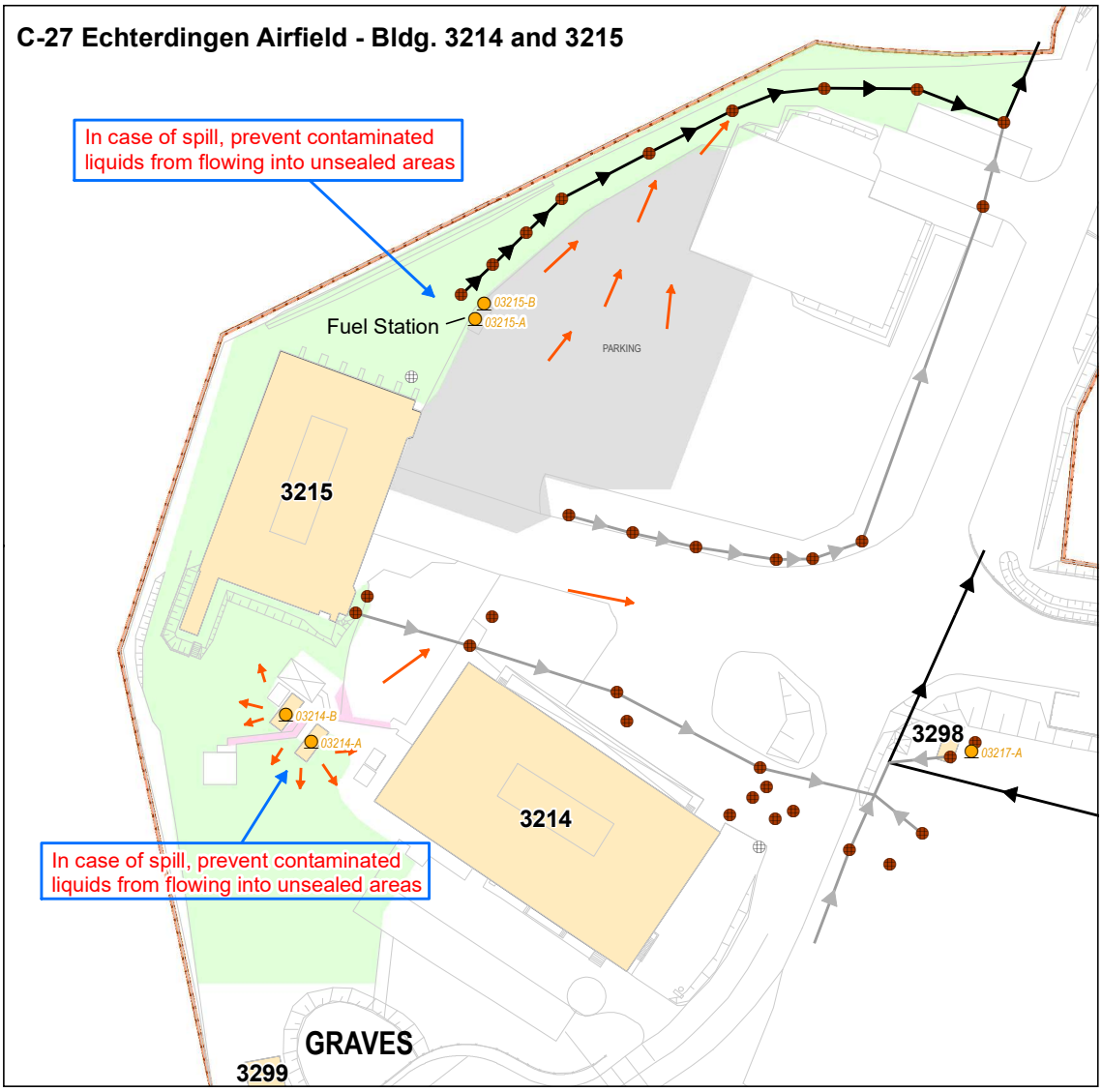
USAG STUTTGART

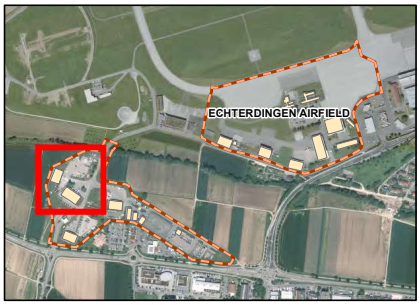
C-26 Echterdingen Airfield - Bldg. 3217

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 10 20 40 Meters
0 30 60 120 Feet

USAG STUTTGART

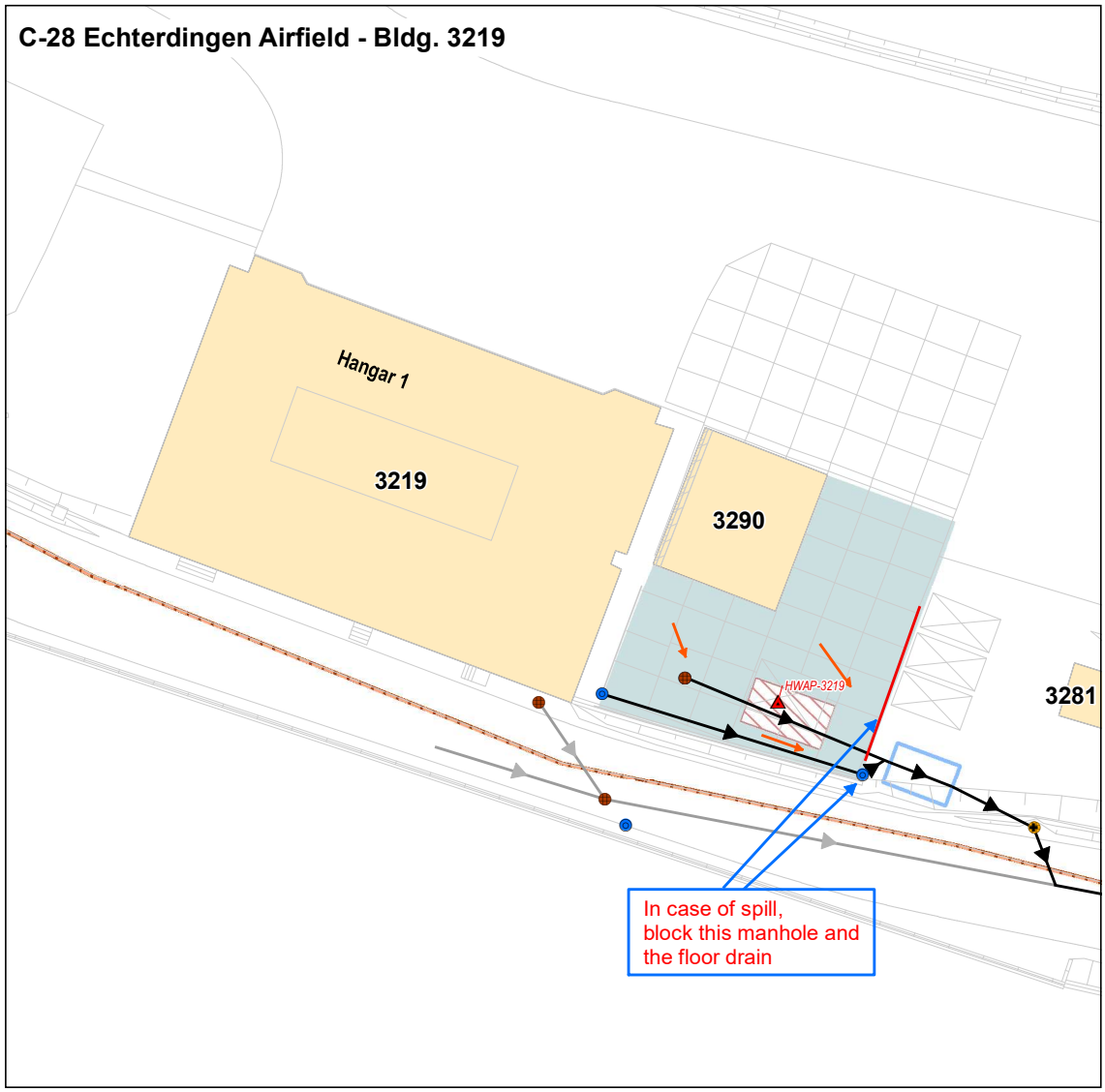
C-27 Echterdingen Airfield - Bldg. 3214 and 3215

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

C-28 Echterdingen Airfield - Bldg. 3219



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 15 30 60 Feet

USAG STUTTGART

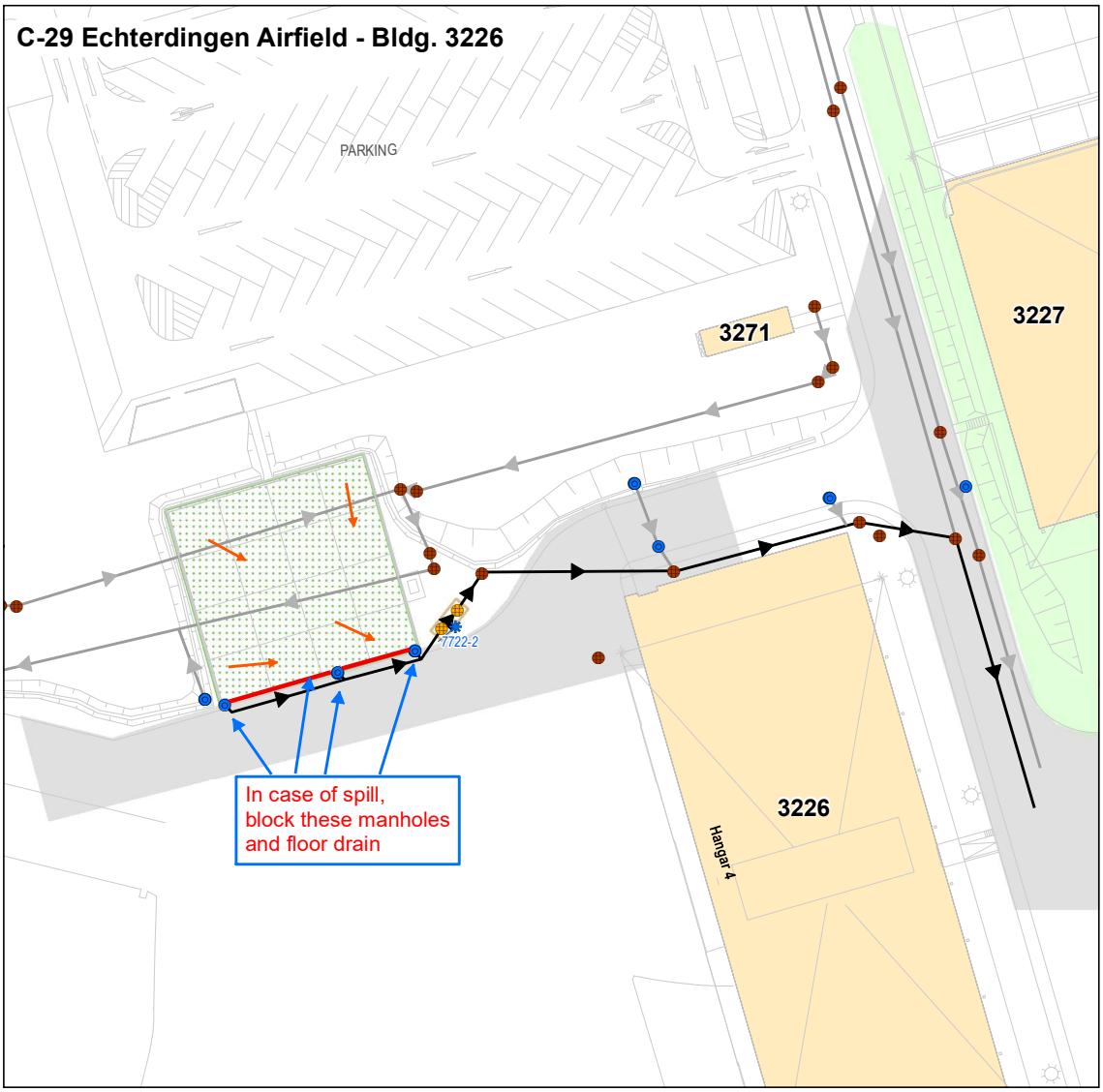
C-28 Echterdingen Airfield - Bldg. 3219

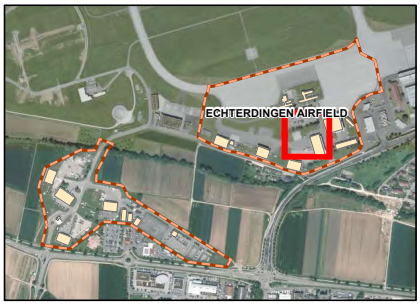
Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

C-29 Echterdingen Airfield - Bldg. 3226





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 20 40 80 Feet

USAG STUTTGART

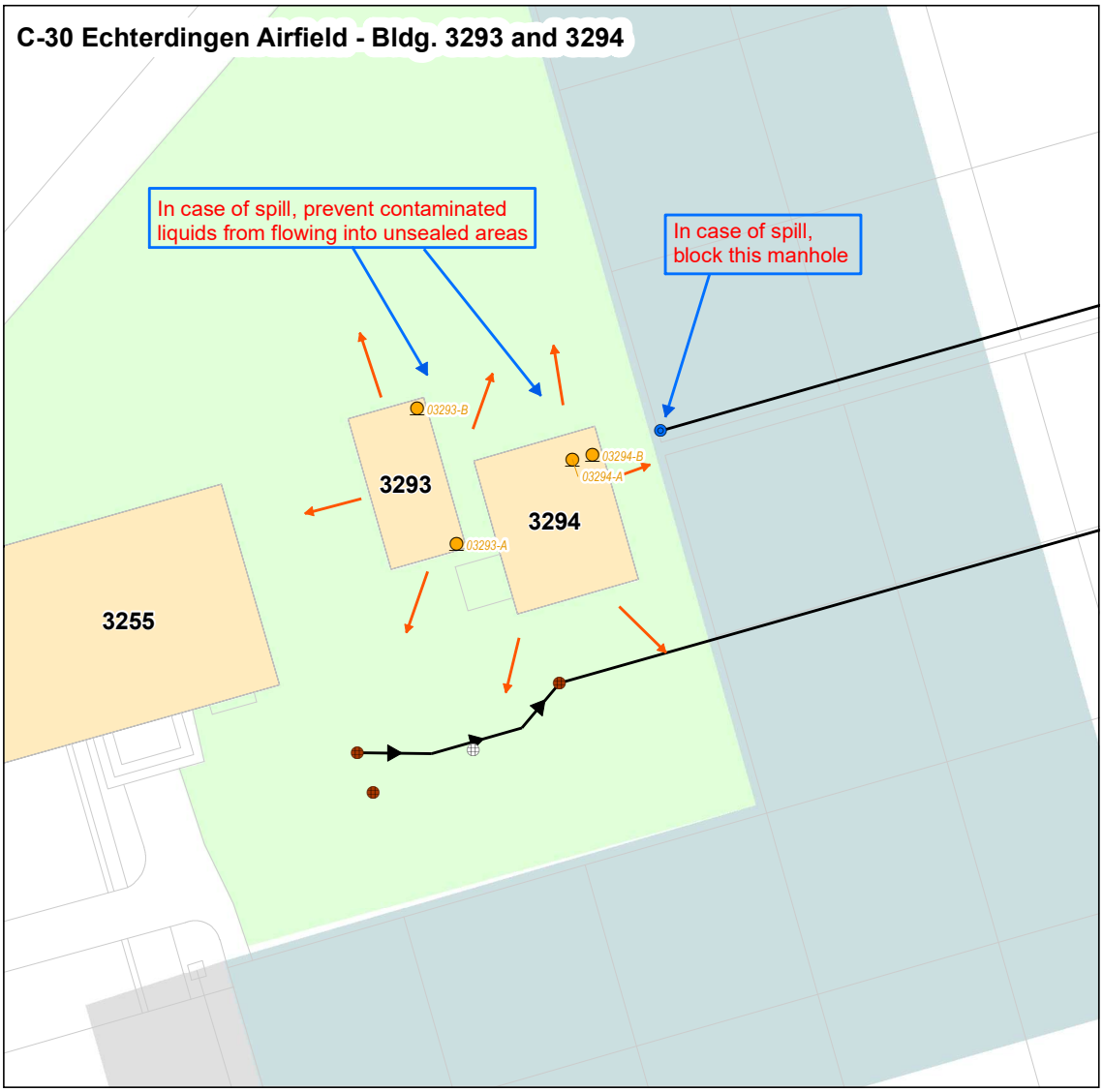
C-29 Echterdingen Airfield - Bldg. 3226

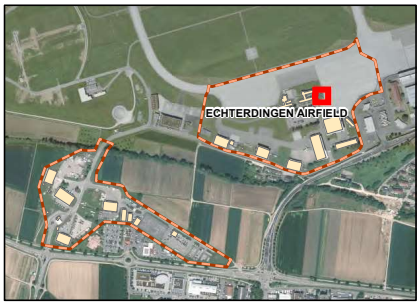
Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

C-30 Echterdingen Airfield - Bldg. 3293 and 3294





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 2 4 8 Meters
0 5 10 20 Feet

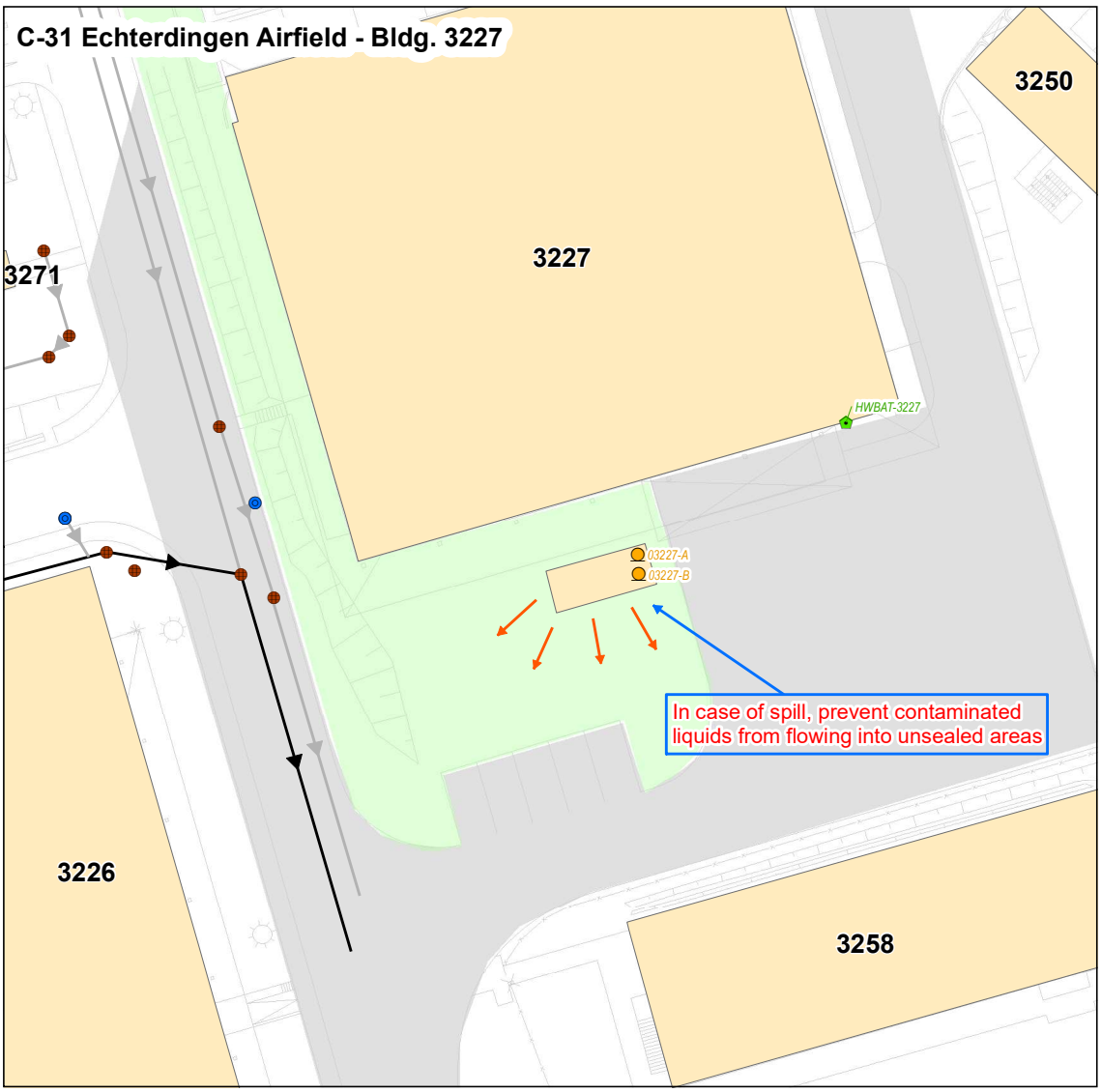
USAG STUTTGART

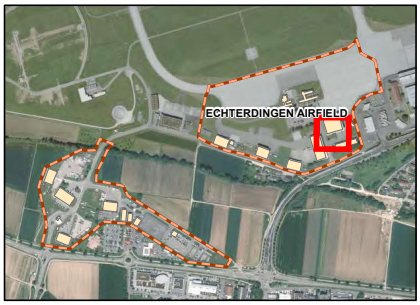
C-30 Echterdingen Airfield - Bldg. 3293 and 3294

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 15 30 60 Feet

USAG STUTTGART

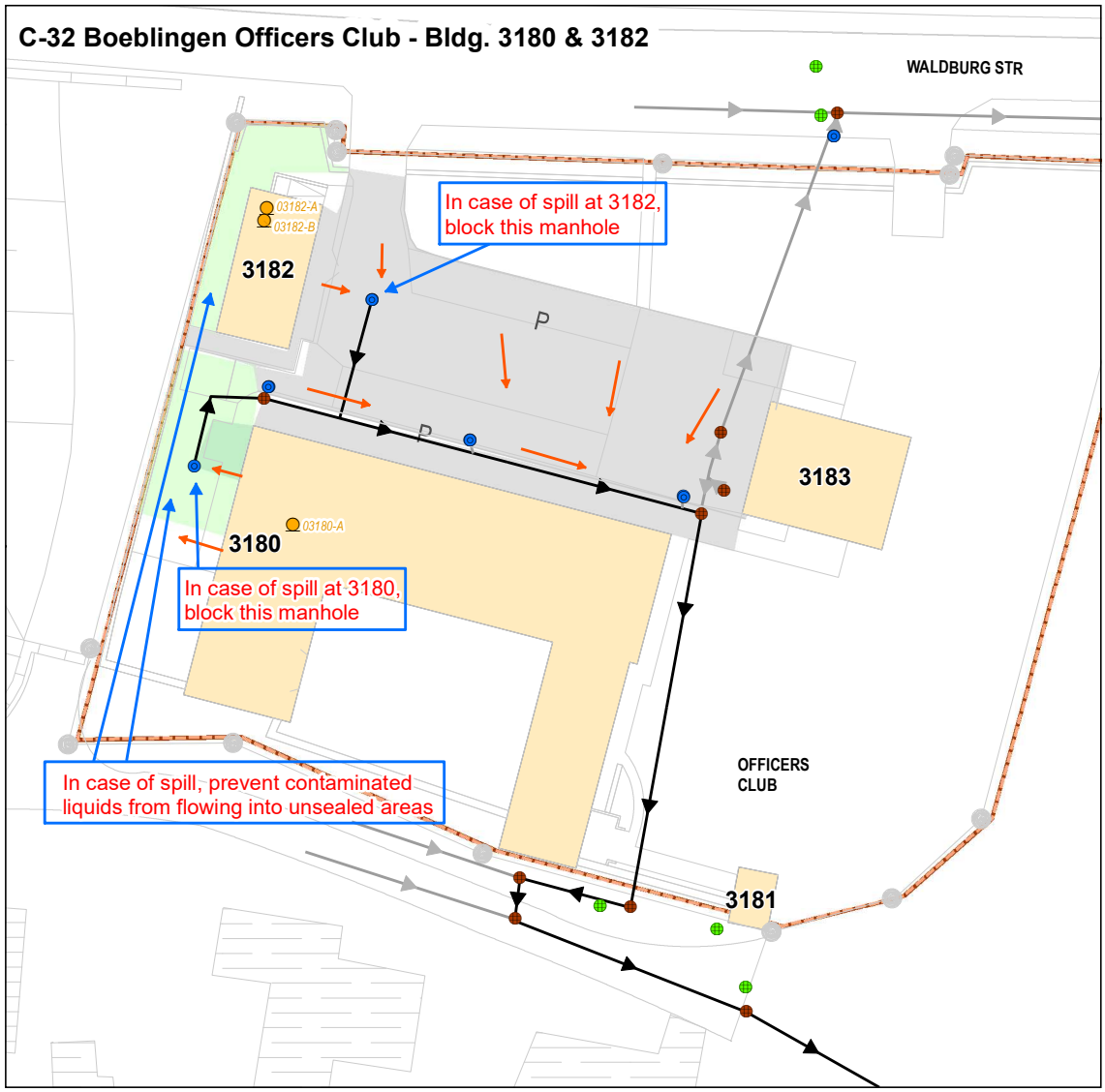
C-31 Echterdingen Airfield - Bldg. 3227

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

C-32 Boeblingen Officers Club - Bldg. 3180 & 3182



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 20 40 80 Feet

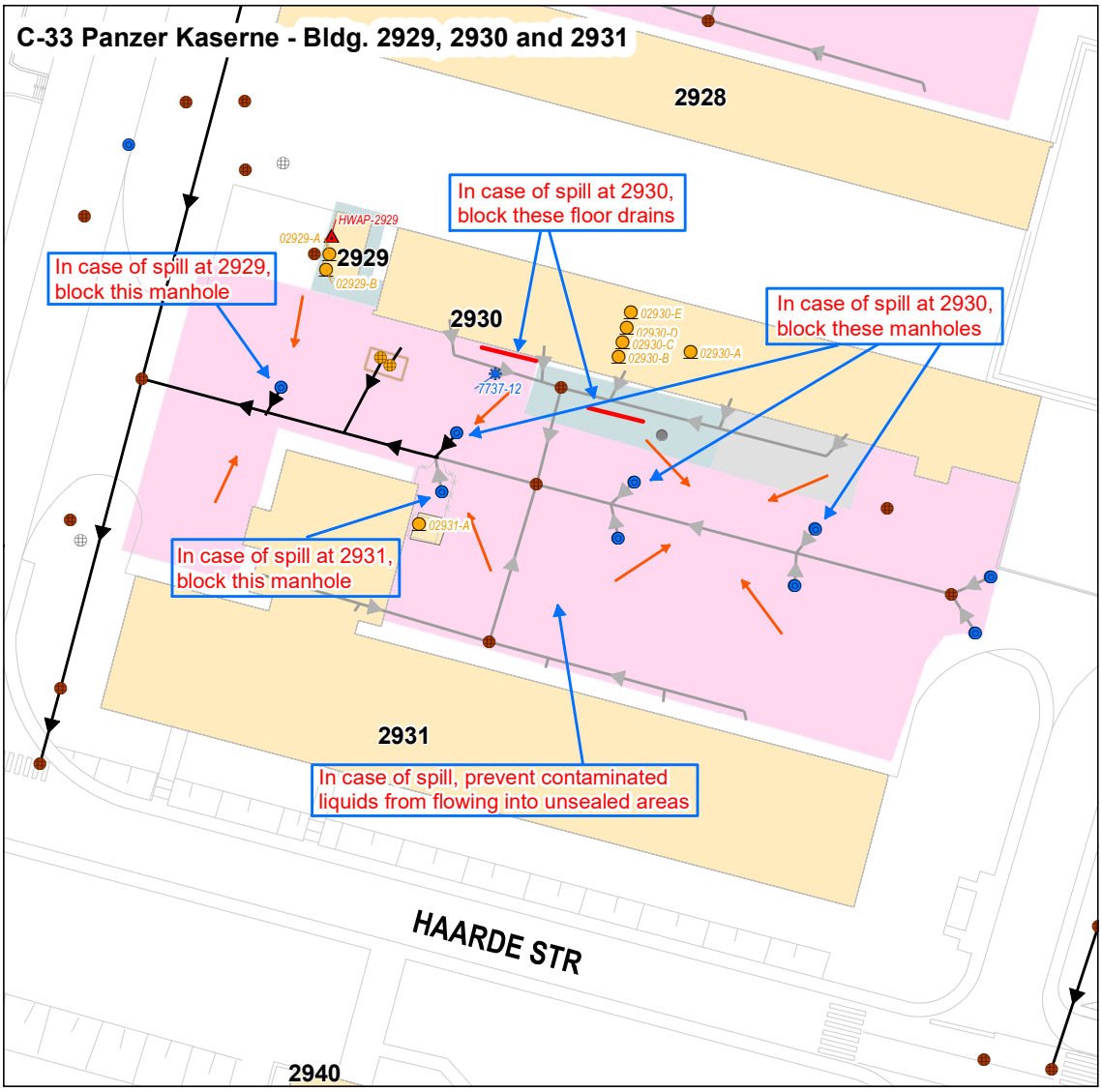
USAG STUTTGART

C-32 Boeblingen Officers Club - Bldg. 3180 & 3182

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 20 40 80 Feet

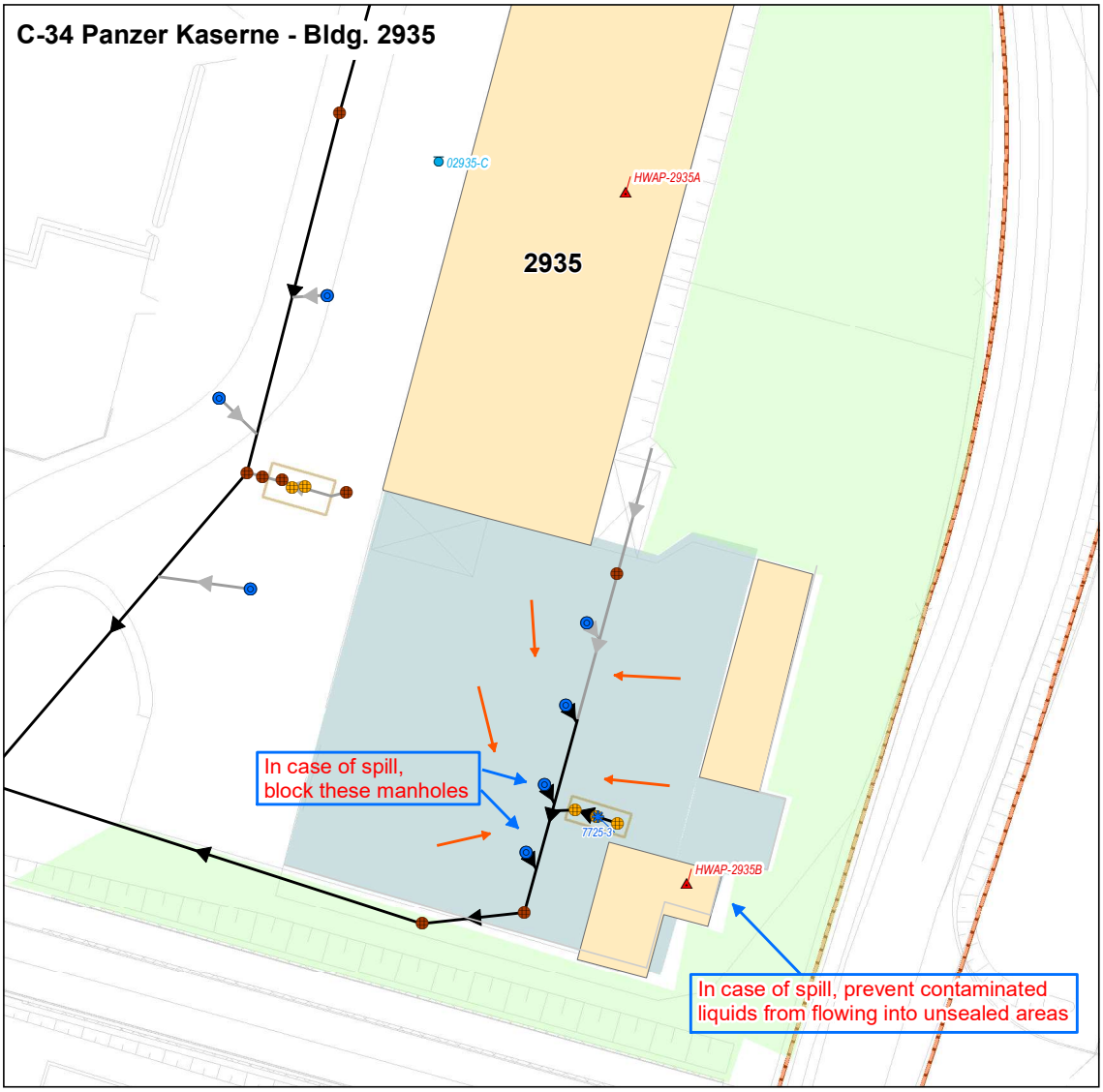
USAG STUTTGART

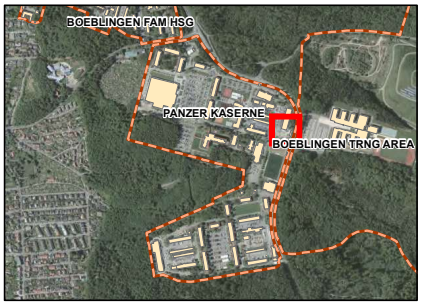
C-33 Panzer Kaserne - Bldg. 2929, 2930 and 2931

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 20 40 80 Feet

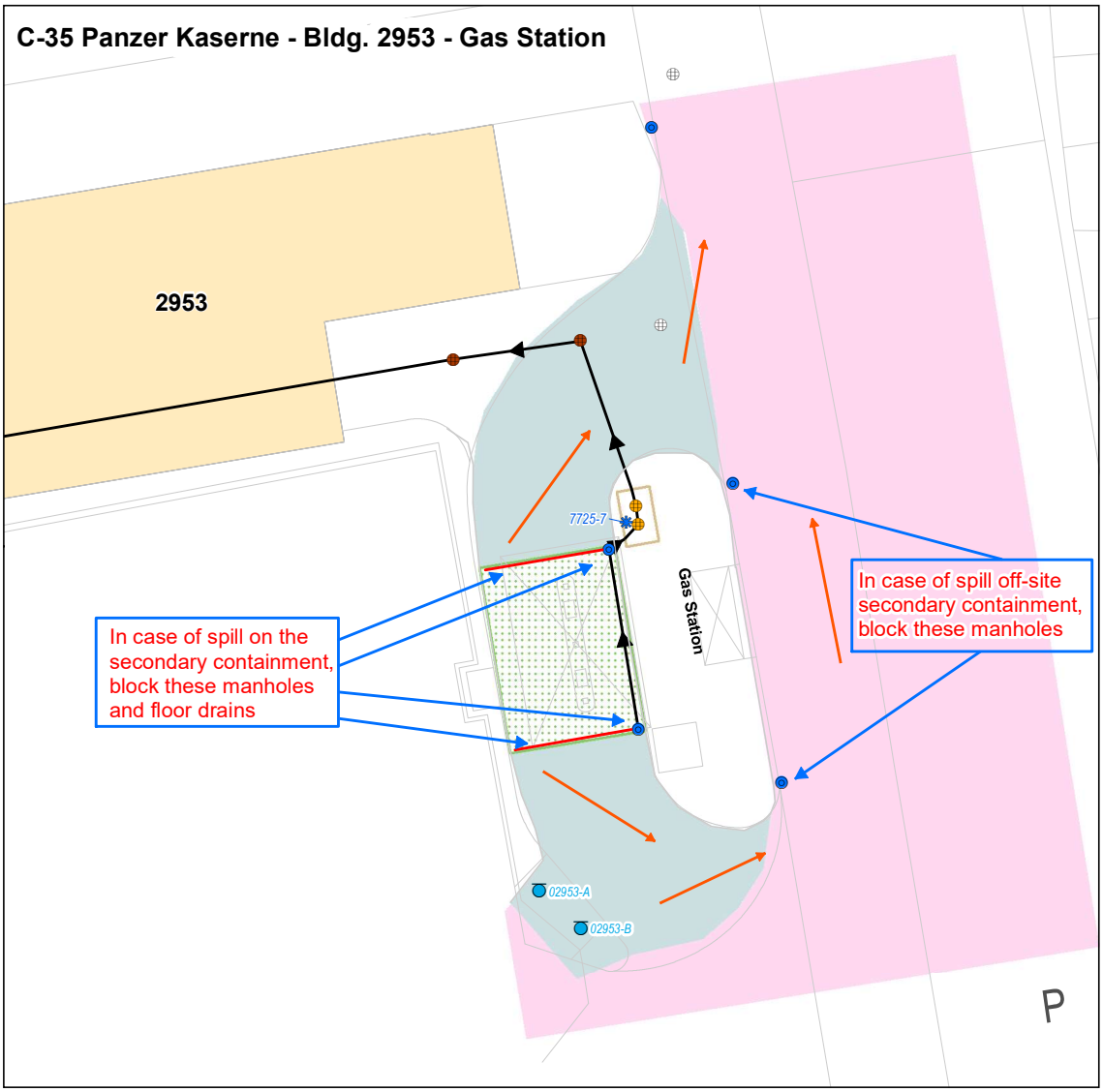
USAG STUTTGART

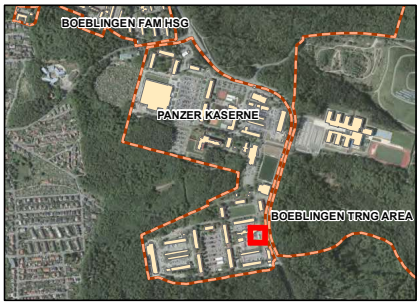
C-34 Panzer Kaserne - Bldg. 2935

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 3,75 7,5 15 Meters
0 10 20 40 Feet

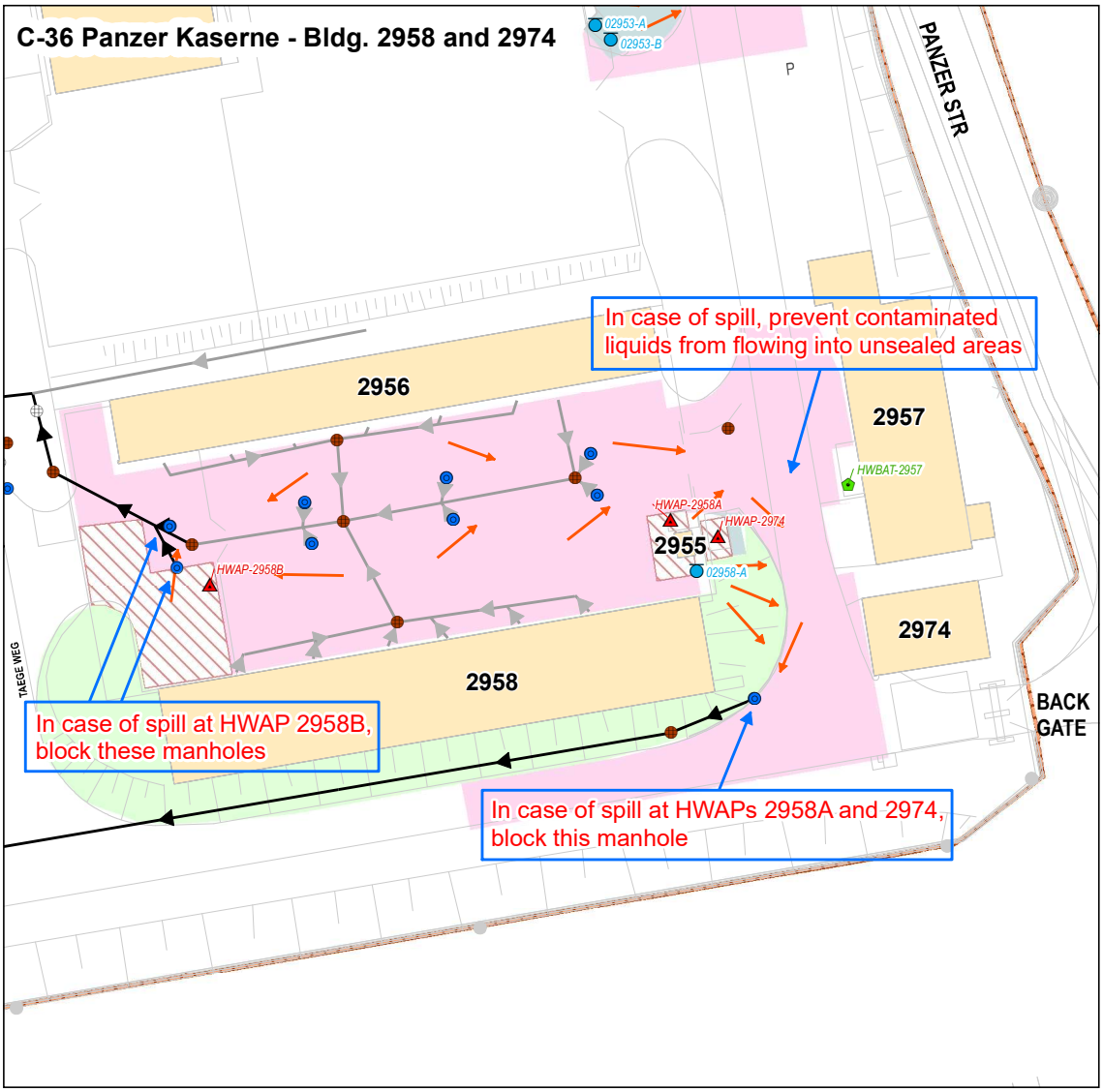
USAG STUTTGART

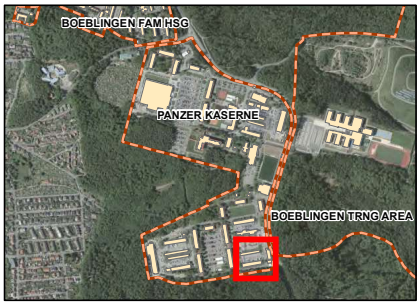
C-35 Panzer Kaserne - Bldg. 2953 - Gas Station

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 10 20 40 Meters
0 30 60 120 Feet

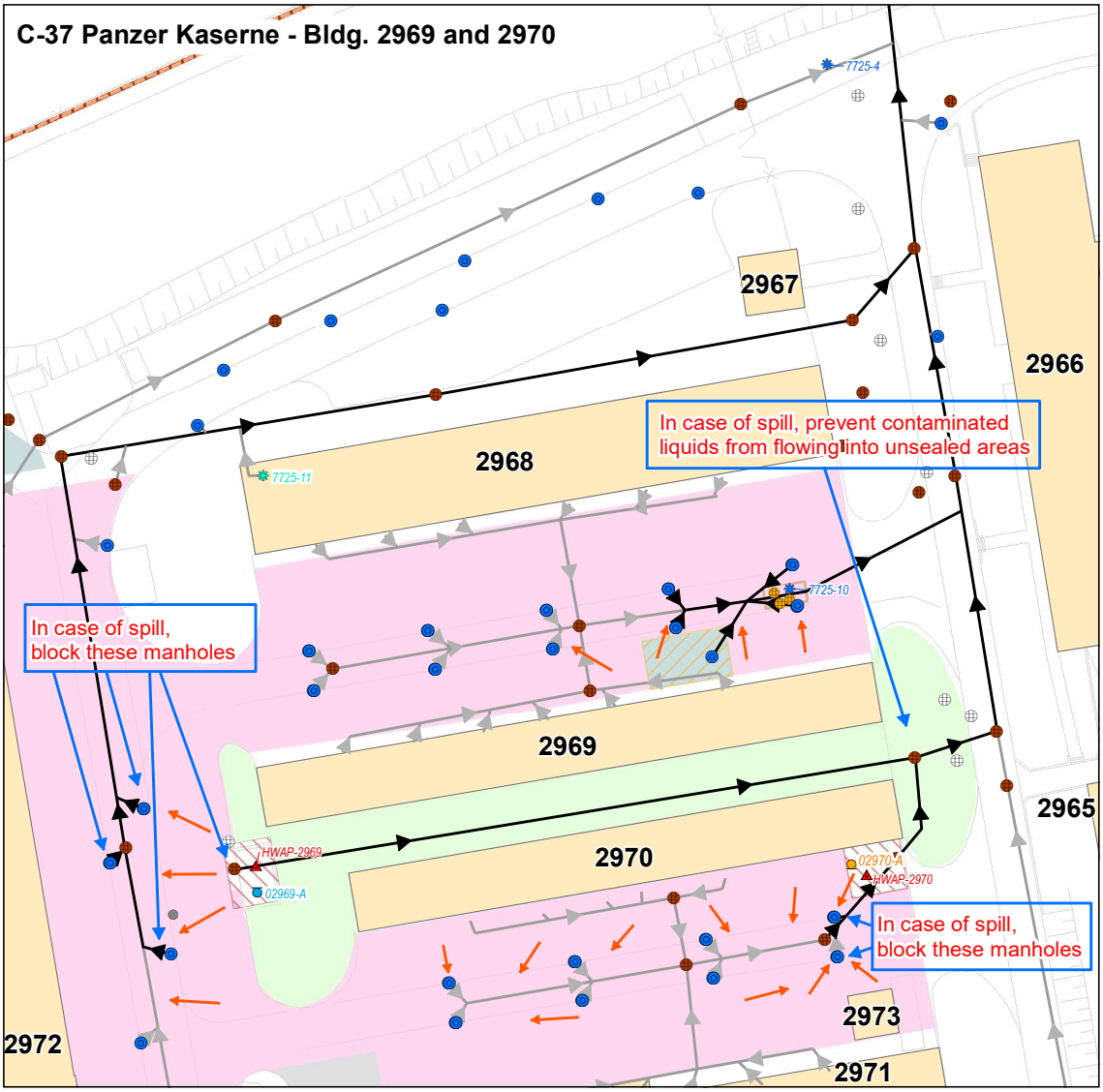
USAG STUTTGART

C-36 Panzer Kaserne - Bldg. 2958 and 2974

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 10 20 40 Meters
0 30 60 120 Feet

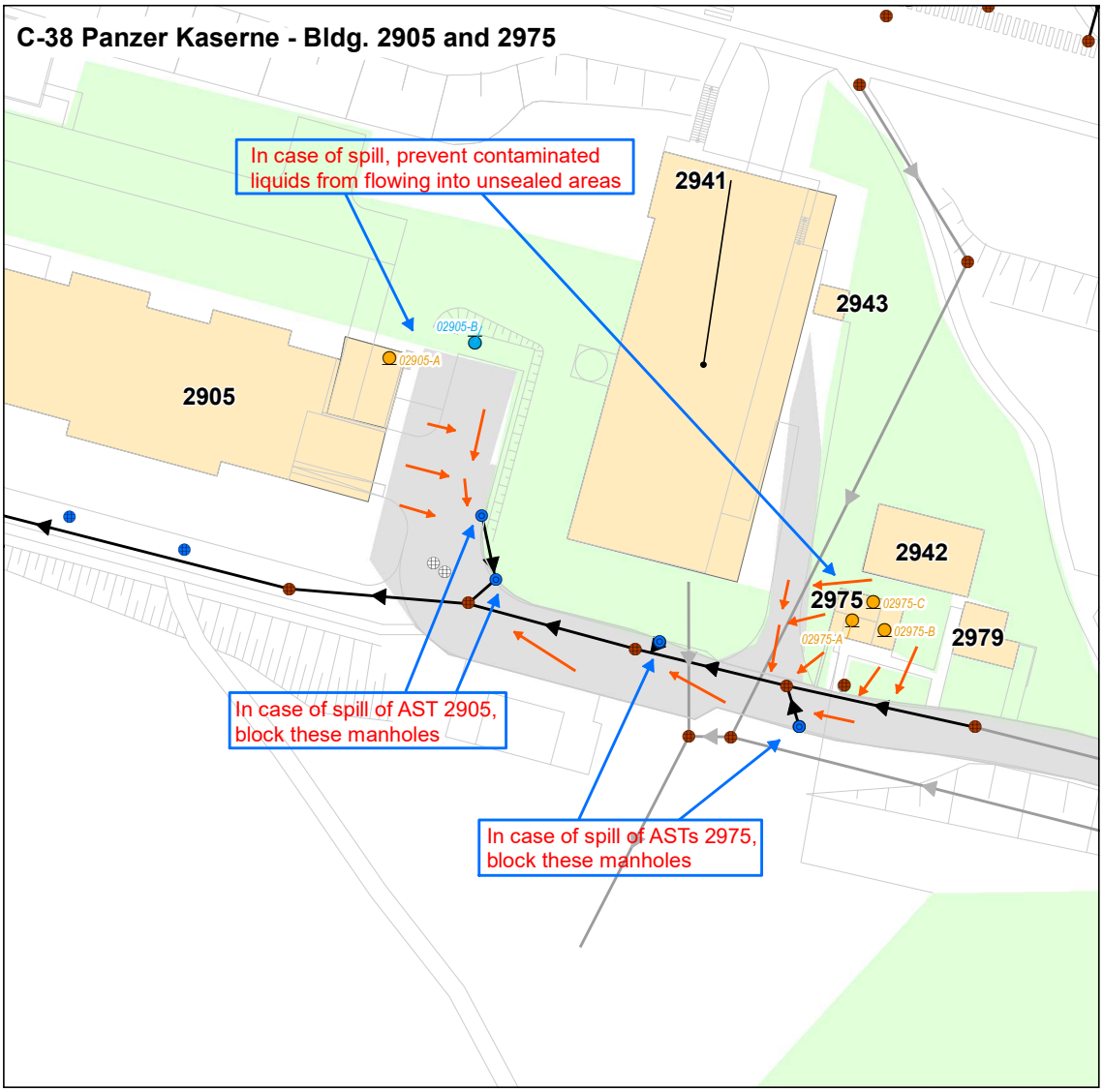
USAG STUTTGART

C-37 Panzer Kaserne - Bldg. 2969 and 2970

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 20 40 80 Feet

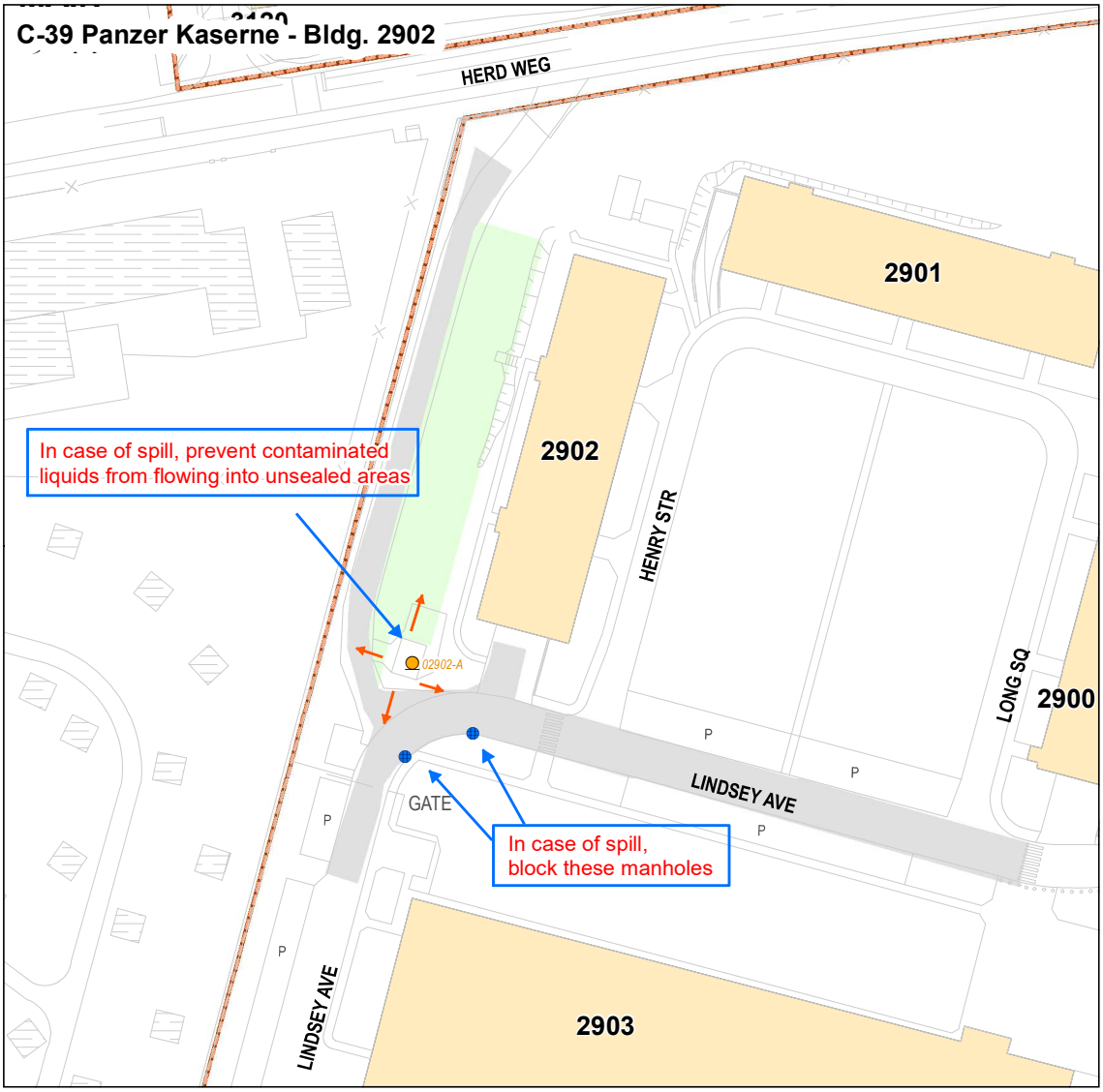
USAG STUTTGART

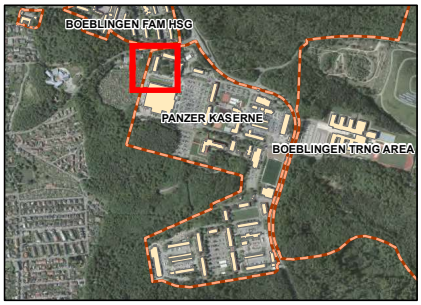
C-38 Panzer Kaserne - Bldg. 2905 and 2975

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020





Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 10 20 40 Meters
0 35 70 140 Feet

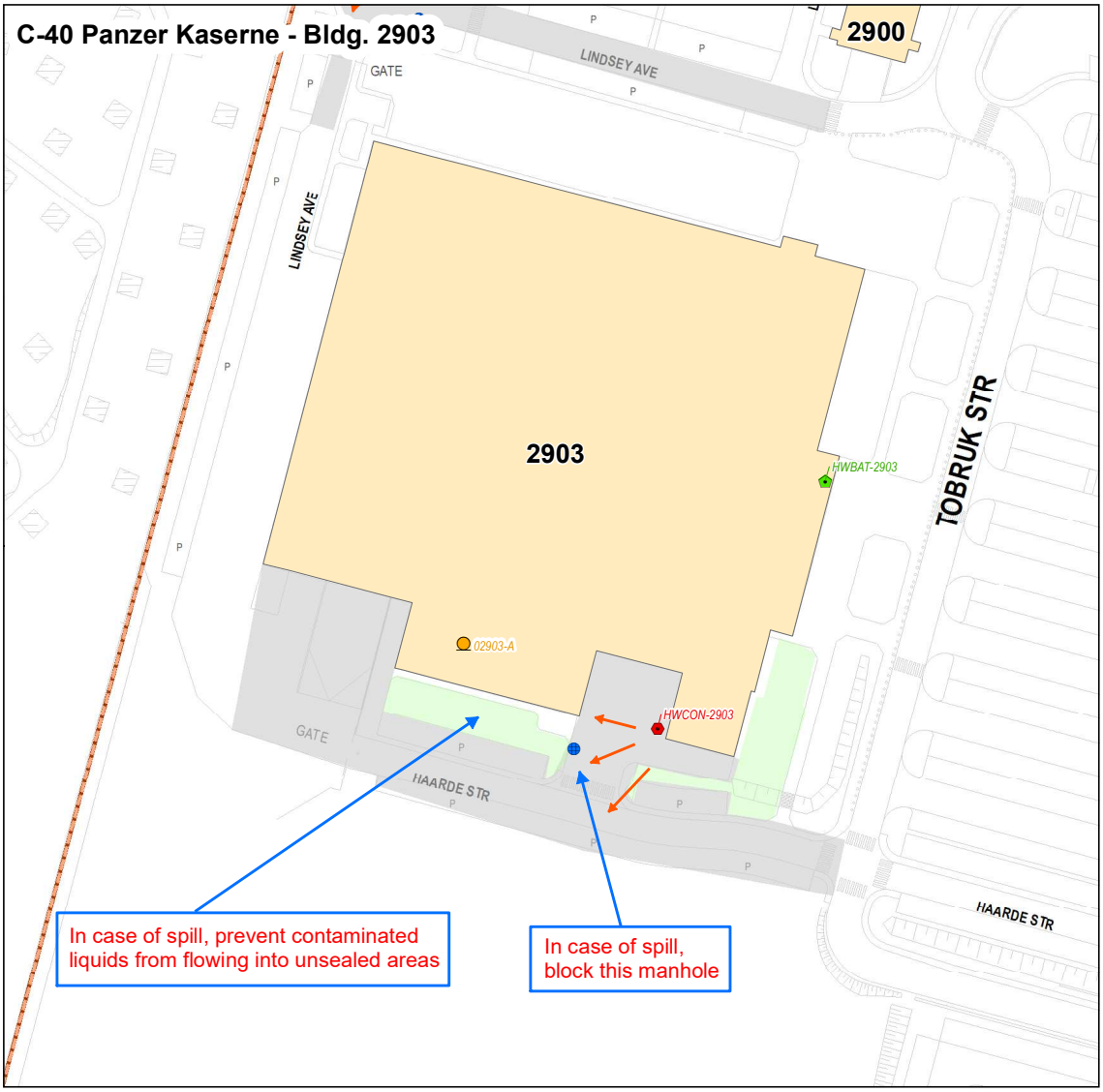
USAG STUTTGART

C-39 Panzer Kaserne - Bldg. 2902

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 15 30 60 Meters
0 45 90 180 Feet

USAG STUTTGART

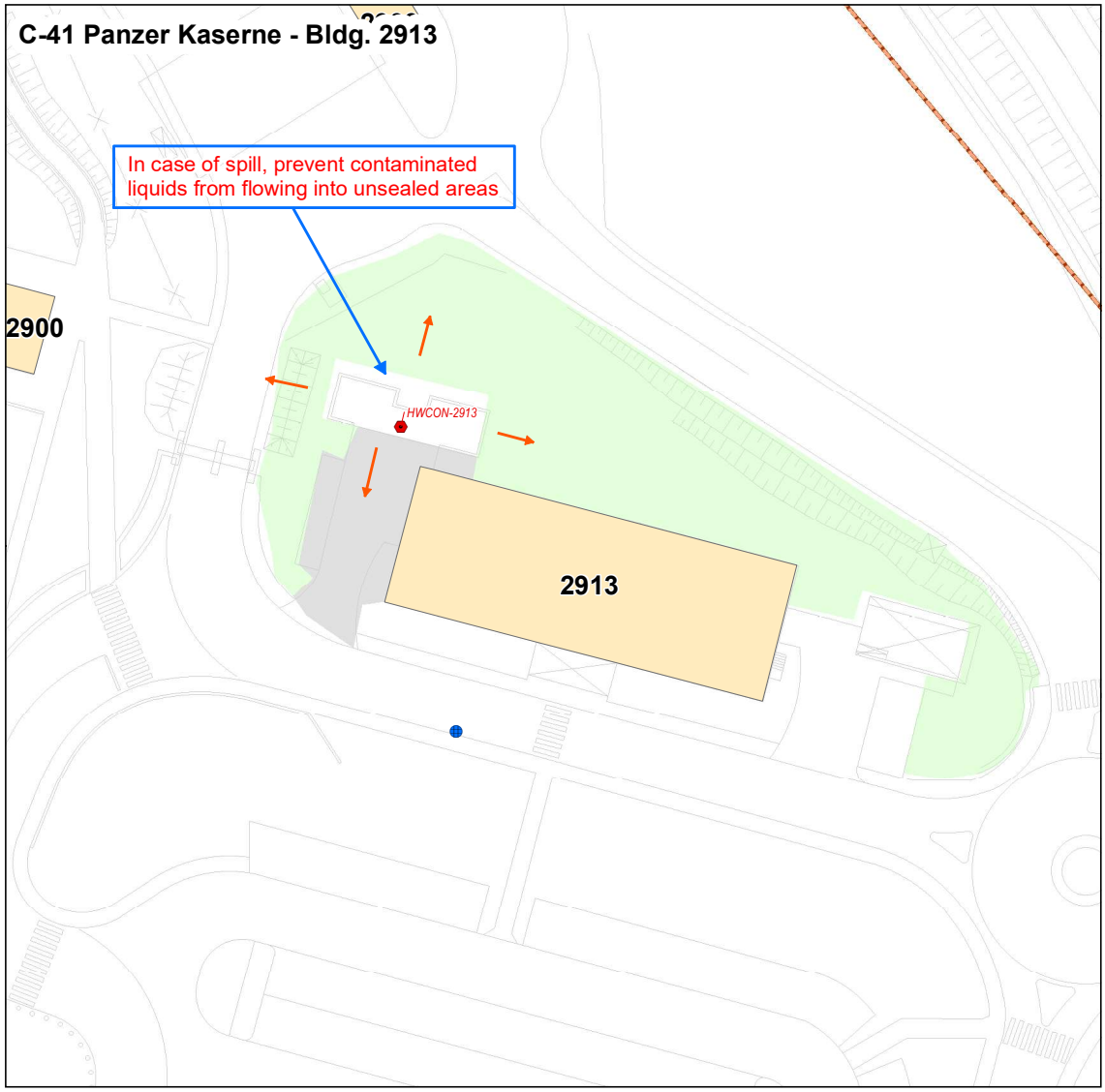
C-40 Panzer Kaserne - Bldg. 2903

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

C-41 Panzer Kaserne - Bldg. 2913



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 20 40 80 Feet

USAG STUTTGART

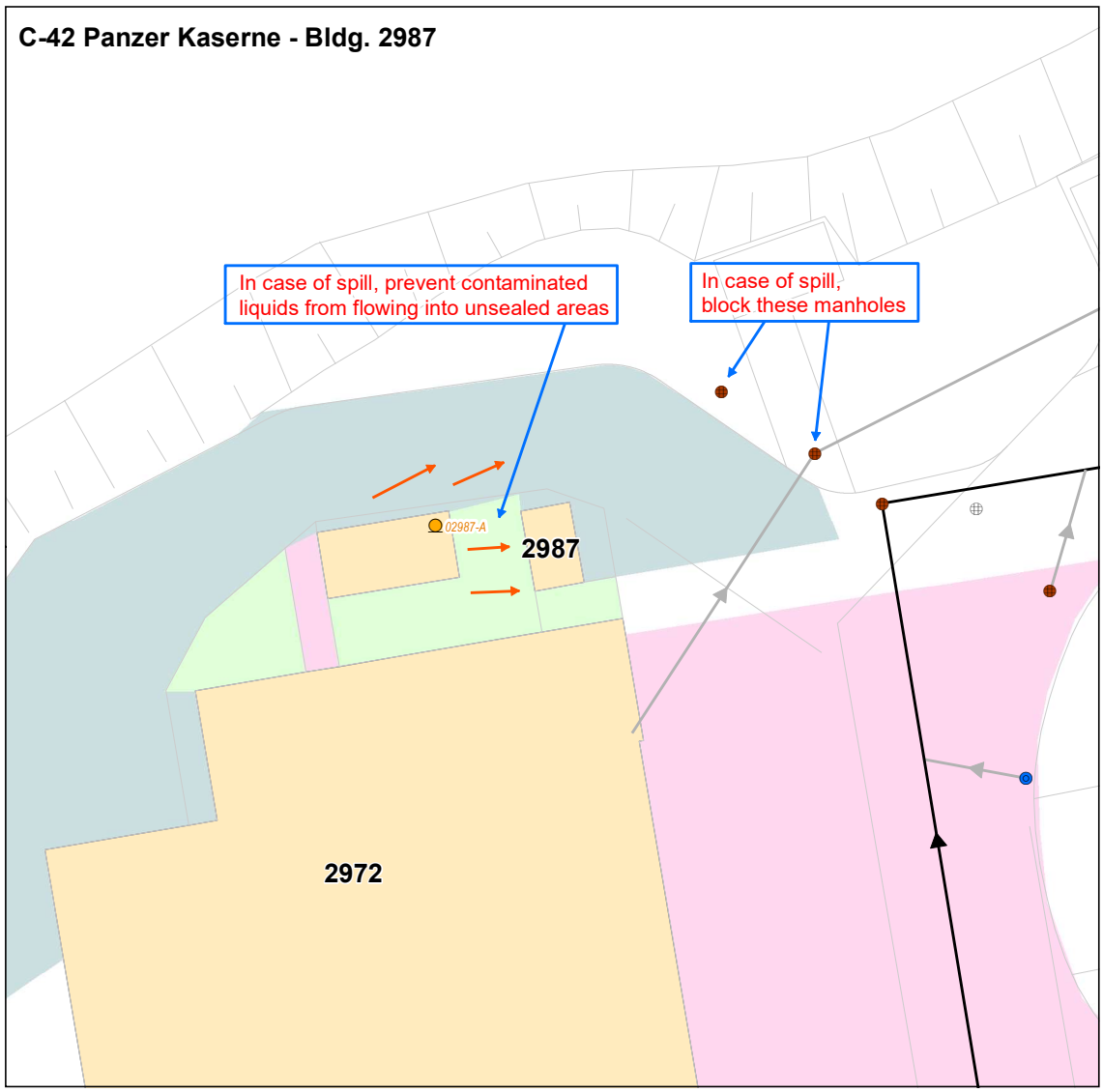
C-41 Panzer Kaserne - Bldg. 2913

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

C-42 Panzer Kaserne - Bldg. 2987



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
- Haz Waste Storage Area/ Lagerfläche gefährlicher Abfall
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- Haz Waste Container/ Container gefährlicher Abfall
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- Slider shaft water/ Schieber für Schachtwasser
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- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 3,25 6,5 13 Meters
0 10 20 40 Feet

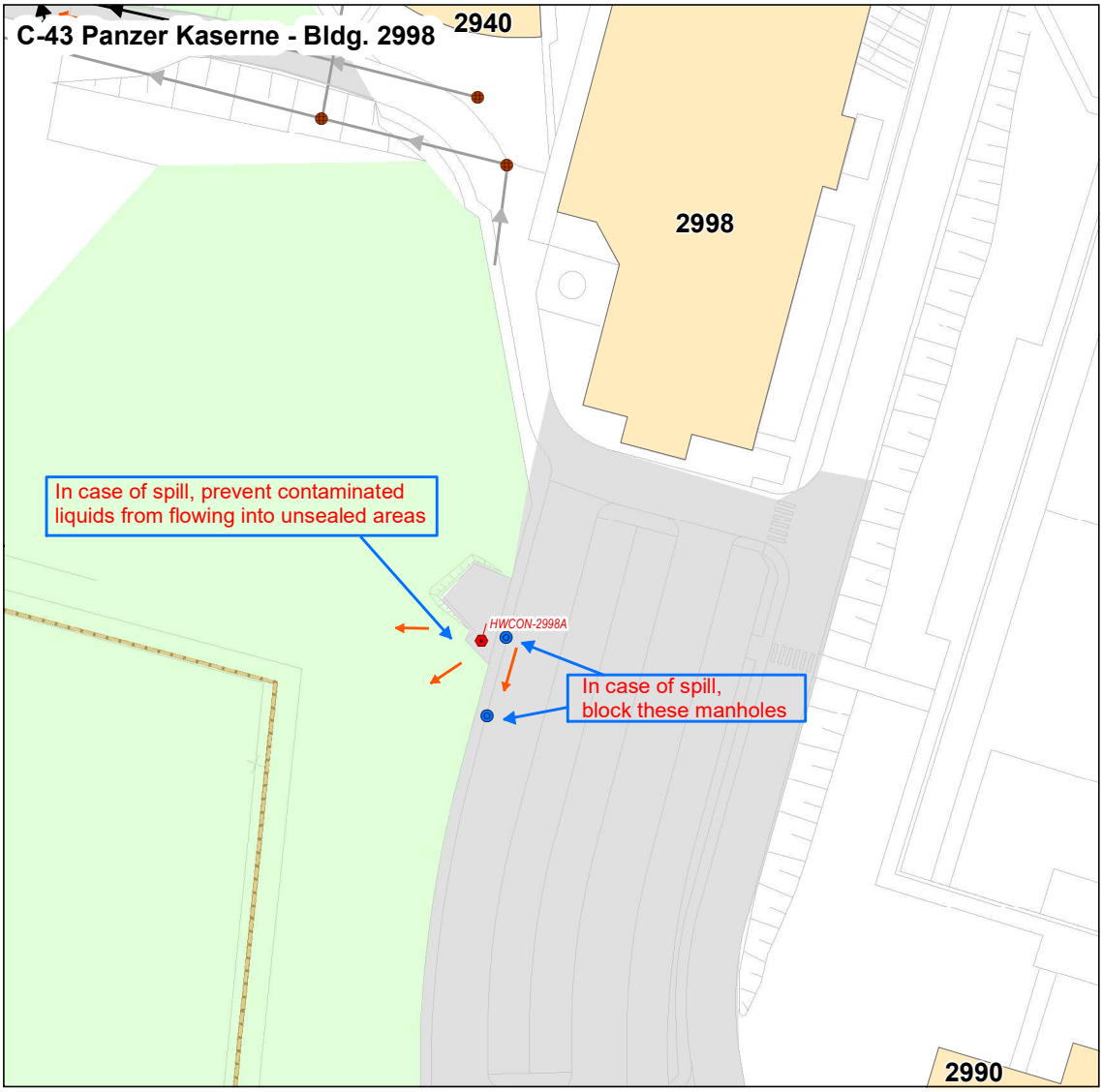
USAG STUTTGART

C-42 Panzer Kaserne - Bldg. 2987

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020



Buildings/ Gebäude
Site Boundary/ Standortgrenze

Environmental Hazards

Tanks
- Above Ground Storage Tank (AST)/ Tank (oberirdisch)
- Underground Storage Tank (UST)/ Tank (unterirdisch)
- Deactivated Storage Tank/ inaktiver Tank

Hazardous Waste Management
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- Haz Waste Accumulation Point/ Sammelstelle gefährlicher Abfall
- Haz Waste Container/ Container gefährlicher Abfall
- Haz Waste Battery Collection Point/ Sammelstelle Altbatterie

Drainage
- Floor drain/ Bodenablauf
- Slider shaft water/ Schieber für Schachtwasser
- Manhole (sealed)/ Kanaldeckel (versiegelt)
- Manhole rain water/ Kanaldeckel Regenwasser
- Manhole oil separator/ Kanaldeckel Ölabscheider
- Manhole oil separator (out of service)/ Kanaldeckel Ölabscheider (ausser Betrieb)
- Manhole sewage/ Kanaldeckel Abwasser
- Pumping station sewage/ Pumpstation Abwasser

Areas/ Flächen
- Park, Open Area/ Grünflaeche
- HWSA/ Lagerbereich für gefährliche Abfälle
- HWAP/ Sammelpunkt für gefährlichen Abfall
- Wash Rack/ Waschanlage
- Retention Basin/ Rückhaltebecken
- Heating/ Heizung
- Generator
- Oil Separator/ Ölabscheider
- Fat Separator/ Fettabscheider

Surface Sealing/ Versiegelung
- Secondary Containment/ Auffangbecken
- Asphalt
- Concrete/ Beton
- Cobbles/ Pflastersteine

Oil Water Separator (OWS)/ Ölabscheider
- OWS - Active
- OWS - Inactive

Sewage System/ Kanalsystem
- Main Flow/ Hauptabfluss
- Secondary Flow/ Sekundärabfluss
- Surface Runoff/ Oberflächenabfluss
- Floor Drain/ Bodenablaufrinnen

0 5 10 20 Meters
0 25 50 100 Feet

USAG STUTTGART

C-43 Panzer Kaserne - Bldg. 2998

Department of the Army
USAG Stuttgart

Directorate of Public Works
Environmental Division

Date created: September 2020

APPENDIX 5

POL AND HS FACILITIES INVENTORY
AND
SPILL RESPONSE EQUIPMENT INVENTORY

Inventory of POL and HS Facilities

Table A- 5.1 to Table A- 5.9 present an inventory of units or organizations at the USAG Stuttgart, where POL and HS are stored or handled, and which might have the potential for a POL and/or HS slug release. This inventory must be updated annually or after any significant changes. Although OWS are structures that are installed to prevent spills from entering the storm water or wastewater system they could also create a potential risk. If they are not properly inspected and maintained regularly, the accumulation of oil and sludge can result in the undesired discharge of oil. Therefore, they are included within this inventory in (Table A- 5.5).

Table A- 5.1: Gas Station Tanks at USAG Stuttgart

Installation	Building Number	Tank_ID	Type of Tank	Size [m^3]	POL
Kelley Barracks – Army Gas Station	3325	03325_A	UST	50	Gasoline
Kelley Barracks – Army Gas Station	3325	03325_B	UST	50	Diesel
Kelley Barracks – AAFES Gas Station	3325	03325_C	UST	50	Gasoline
Kornwestheim Golf Course - MWR	978	00978_A	UST	3.5	Diesel
Kornwestheim Golf Course - MWR	978	00978_B	UST	3.5	Gasoline
Panzer Kaserne - Army Gas Station	2953	02953_A	UST	50	Gasoline
Panzer Kaserne - Army Gas Station	2953	02953_B	UST	50	JP-8
Patch Barracks - AAFES Gas Station	2349	02349_A	UST	40	Gasoline
Patch Barracks - AAFES Gas Station	2349	02349_B	UST	40	Gasoline
Patch Barracks - AAFES Gas Station	2349	02349_C	UST	40	Gasoline
Stuttgart Army Airfield - Airfield Ops	3215	03215_A	AST	1	Gasoline
Stuttgart Army Airfield - Airfield Ops	3215	03215_B	AST	1	Diesel

Table A- 5.2: Emergency Generator Tanks ≥ 0.2 m^3 at USAG Stuttgart

Installation	Building Number	Tank_ID	Type of Tank	Size [m^3]	POL
Robinson Barracks	102	00102-A	AST	1	Diesel
Robinson Barracks	139	00139-A	AST	0.3	Diesel
Robinson Barracks	140	00140-A	UST	13	Diesel
Robinson Barracks	146	00146-B	AST	0.2	Diesel
Robinson-Grenadier Fam Hsg	203	00203-A	AST	1	Diesel
Robinson-Grenadier Fam Hsg	208	00208-A	AST	4.7	Diesel
Kornwestheim Golf Course	978	00978-B	UST	3.5	Diesel
Patch Barracks	2216	02216-A	AST	0.5	Diesel
Patch Barracks	2216	02216-B	AST	0.5	Diesel
Patch Barracks	2216	02216-C	AST	4	Diesel
Patch Barracks	2316	02316-A	AST	50	Diesel
Patch Barracks	2316	02316-B	AST	50	Diesel
Patch Barracks	2316	02316-C	AST	1.95	Diesel
Patch Barracks	2316	02316-D	AST	1.95	Diesel
Patch Barracks	2316	02316-E	AST	1	Diesel
Patch Barracks	2339	02339-A	AST	0.25	Diesel
Patch Barracks	2346	02346-A	AST	5	Diesel
Patch Barracks	2346	02346-B	AST	5	Diesel
Patch Barracks	2346	02346-C	AST	0.44	Diesel
Patch Barracks	2346	02346-D	AST	0.44	Diesel
Patch Barracks	2350	02350-A	AST	0.2	Diesel
Patch Barracks	2363	02363-A	AST	40	Diesel
Patch Barracks	2363	02363-B	AST	40	Diesel
Patch Barracks	2363	02363-C	AST	1.5	Diesel
Patch Barracks	2363	02363-D	AST	1.5	Diesel
Patch Barracks	2374	02374-A	AST	25	Diesel
Panzer Kaserne	2903	02903-A	AST	1	Diesel
Panzer Kaserne	2905	02905-A	AST	3 (2x1.5)	Diesel
Panzer Kaserne	2905	02905-C	AST	0.47	Diesel
Panzer Kaserne	2931	02931-A	AST	0.3	Diesel
Panzer Kaserne	2947	02947-A	UST	15	Diesel
Panzer Kaserne	2957	02957-A	AST	0.2	Diesel
Panzer Kaserne	2975	02975-A	AST	2	Diesel
Panzer Kaserne	2975	02975-B	AST	2	Diesel
Panzer Kaserne	2975	02975-C	AST	2	Diesel

Installation	Building Number	Tank_ID	Type of Tank	Size [m^3]	POL
Panzer Kaserne	2987	02987-A	AST	2	Diesel
Boeblingen Trng Area	3095 [1]	03095-A	AST	5	Diesel
Boeblingen Officers Club	3182	03182-A	AST	2	Diesel
Boeblingen Officers Club	3182	03182-B	AST	2	Diesel
Boeblingen Officers Club	3812	03182-C	AST	0.5	Diesel
Echterdingen Airfield	3214	03214-A	AST	1.5	Diesel
Echterdingen Airfield	3214	03214-B	AST	1.8	Diesel
Echterdingen Airfield	3215	03215-B	AST	1	Diesel
Echterdingen Airfield	3227	03227-A	AST	1.1	Diesel
Echterdingen Airfield	3250	03250-A	AST	1	Diesel
Echterdingen Airfield	3293	03293-A	AST	1.14	Diesel
Echterdingen Airfield	3293	03293-B	AST	0.4	Diesel
Echterdingen Airfield	3294	03294-A	AST	2	Diesel
Echterdingen Airfield	3298	03298-A	AST	0.12	Diesel
Kelley Barracks	3301	03301-A	AST	1	Diesel
Kelley Barracks	3307	03307-A	AST	0.3	Diesel
Kelley Barracks	3318	03318-A	AST	0.2	Diesel
Kelley Barracks	3325	03325-A	UST	50	Diesel
Kelley Barracks	3363	03363-A	AST	2	Diesel
Kelley Barracks	3363	03363-B	AST	2	Diesel
Kelley Barracks	3363	03363-C	AST	2	Diesel
Kelley Barracks	3363	03363-D	AST	0.25	Diesel
Kelley Barracks	3364	03364-A	AST	2.5	Diesel
Kelley Barracks	3373	03373-A	AST	0.15	Diesel
Kelley Barracks	3379	03379-A	AST	4	Diesel
Kelley Barracks	3385	03385-A	AST	5	Diesel
Kelley Barracks	3386	03386-A	AST	5	Diesel
Kelley Barracks	3396	03396-A	AST	0.4	Diesel

[1] The generator associated with the tank 3095-A is out of service, work order in place for closure/removal as of October 2023.

Table A- 5.3: Heating Oil Tanks at USAG Stuttgart

Installation	Building Number	Tank_ID	Type of Tank	Size [m^3]	POL
Robinson Barracks	116	0016_A	AST	8	Heating Oil
Robinson Barracks	146	00146-A	UST	16	Heating Oil
Stuttgart Dependent School	151	00151-A	AST	14	Heating Oil
Robinson-Grenadier Fam Hsg	169	00169-A	AST	17	Heating Oil
Kornwestheim Golf Course	975	00975-A	AST	9.9	Heating Oil
Kornwestheim Golf Course	979	00979-B	UST	7	Heating Oil
Boeblingen Range	3000	03000-A	UST	5	Heating Oil
Boeblingen Fam Hsg	3111[1]	03111-A	AST	19	Heating Oil
Boeblingen Fam Hsg	3162[2]	03162-A	AST	15	Heating Oil
Boeblingen Fam Hsg	3169[2]	03169-A	UST	20	Heating Oil
Boeblingen Officers Club	3180[3]	03180-A	AST	26	Heating Oil
Kelley Barracks	3374	03374-A	AST	10	Heating Oil
Weilimdorf Warehouse	5376	05376-A	UST	30	Heating Oil

[1]Tank is out of service, Work Order for closure/removal in place as of October 2023
[2]Tank is closed as of 13 Sep 2023. Removal Pending.
[3]Tank is closed as of 13 Sep 2023 and removed as of 28 Sep 2023.

Table A- 5.4: Waste Oil Tanks at USAG Stuttgart

Installation	Building Number	Tank_ID	Type of Tank	Size [m^3]	POL
Kornwestheim Golf Course	979	00979-C	AST	1	Haz Waste
Panzer Kaserne	2929	02929-A	AST	1	Used Oil
Panzer Kaserne	2929	02929-B	AST	1	Used Oil
Panzer Kaserne	2929	02929-C	AST	1	Used Oil
Panzer Kaserne	2935	02935-A	UST	5	Used Oil
Panzer Kaserne	2955	02955-A	UST	5	Used Oil
Panzer Kaserne	2969	02969-A	UST	7	Used Oil
Panzer Kaserne	2970	02970-A	AST	1	Used Oil
Echterdingen Airfield	3262	03262-A	UST	3	Used Oil
Kelley Barracks	3320	03320-A	UST	3	Used Oil
Kelley Barracks	3371	03371-A	AST	1	Used Oil

Table A- 5.5: Active Oil-Water Separators at USAG Stuttgart

Installation	OWS No.	HS	Building Number	Type of Tank	Total Volume [m^3]
Golf Course Gas Station	7726-1	Water/POL	977	UST	0.45
Golf Course Wash Rack	7726-2	Water/POL	979	UST	2.5
Golf Course Wash Rack	7726-3	Water/POL	980	UST	2.5
Kelley Barracks Gas Station	7737-6	Water/POL	3324	UST	5.00
Kelley Barracks Car Wash	7737-2	Water/POL	3393	UST	6.00
Panzer Kaserne Vehicle Maintenance	7725-12	Water/POL	2930	UST	2.5
Panzer Kaserne Wash Rack	7725-3	Water/POL	2935	UST	5.00
Panzer Kaserne Gas Station	7725-7	Water/POL	2953	UST	1.20
Panzer Kaserne Vehicle Maintenance	TBD	Water/POL	2958	UST	3.73
Panzer Kaserne Parking Lot	7725-4	Water/POL	2966	UST	17.2
Panzer Kaserne Wash Rack	7725-10	Water/POL	2969	UST	2.5
Patch Barracks Gas Station	7727-4	Water/POL	2349	UST	5.00
Patch Barracks Car Wash	7727-2	Water/POL	2384	UST	2.50
Stuttgart Army Airfield Wash Rack	7722-1	Water/POL	3217	UST	2.50
Stuttgart Army Airfield Wash Rack	7722-2	Water/POL	3226	UST	1.50
Stuttgart Army Airfield Abandoned Vehicle Lot	7722-3	Water/POL	3241	UST	5.00

Table A- 5.6: HWAP Locations at USAG Stuttgart

Installation	HS	Building Number	Type of Container	Size [l]
Kelley Barracks	Various	3318	Metal and plastic	20-1,100
Kelley Barracks	Various	3319	Metal and plastic	20-100
Kelley Barracks	Various	3320 A&B	Metal and plastic	200-800
Kelley Barracks	Various	3324	Metal and plastic	120-800
Kelley Barracks	Various	3360	Metal	120-800
Golf Course	Various	979	Metal and plastic	50-1,000
Panzer Kaserne	Various	2929	Metal and plastic	200-1,000
Panzer Kaserne	Various	2935 A&B	Metal and plastic	200-1,000
Panzer Kaserne	Various	2958 A&B	Metal and plastic	200–1,100
Panzer Kaserne	Various	2969	Metal and plastic	20-800
Panzer Kaserne	Various	2970	Metal and plastic	100-950
Panzer Kaserne	Various	2974	Metal and plastic	1-800
Patch Barracks	Various	2316	Metal and plastic	200-1,100
Patch Barracks	Various	2353	Metal and plastic	200-2,000
Patch Barracks	Various	2349	Plastic	200
Robinson Barracks	Various	116	Metal and plastic	100-1,100
Stuttgart Army Airfield	Various	3219	Metal and plastic	20-800

Table A- 5.7: HWBAT Locations at USAG Stuttgart

Installation	HS	Building Number	Type of Container	Size [l]
Robinson Barracks	Batteries	146	Metal	100
Robinson Barracks	Batteries	148	Plastic	60
Stuttgart Dependent School	Batteries	151	Plastic	5
Patch Barracks	Batteries	2211	Metal	100
Patch Barracks	Batteries	2325	Metal	100
Patch Barracks	Batteries	2333	Plastic	2 x 30
Patch Barracks	Batteries	2337	Plastic	20
Patch Barracks	Batteries	2349	Metal	100
Patch Barracks	Batteries	2350	Metal	2 x 100
Patch Barracks	Batteries	2388	Metal	100
Patch Barracks	Batteries	2390	Metal	100
Panzer Kaserne	Batteries	2903	Metal	100
Panzer Kaserne	Batteries	2952	Metal	100
Panzer Kaserne	Batteries	2957	Metal	100
Panzer Kaserne	Batteries	2990	Metal	5
Stuttgart Army Airfield	Batteries	3220	Plastic	20
Stuttgart Army Airfield	Batteries	3227	Metal	100
Stuttgart Army Airfield	Batteries	3254	Plastic	100
Stuttgart Army Airfield	Batteries	3255	Metal	100
Kelley Barracks	Batteries	3312	Metal	100
Kelley Barracks	Batteries	3317	Metal	100
Kelley Barracks	Batteries	3324	Metal	100
Kelley Barracks	Batteries	3326	Plastic	5

Table A- 5.8: HWCON Locations at USAG Stuttgart

Installation	HS	Building Number	Type of Container	Size [l]
Golf Course	Cooking Oil	975	UST	1,280
Patch Barracks	Cooking Oil	2330	Plastic	4 x 190
Panzer Kaserne	Cooking Oil	2903	Plastic	2 x 1000 + 200
Panzer Kaserne	Cooking Oil	2913	Metal	200
Panzer Kaserne	Cooking Oil	2998	Metal	3 x 200
Kelley Barracks	Cooking Oil	3362	Metal	200

Table A- 5.9: HWSA Location at USAG Stuttgart

Installation	HS	Building Number	Type of Container	Size [l]
Kelley Barracks	Various	3371	Metal and plastic	30 – 1,100

Inventory of Spill Prevention Equipment

Table A- 5.10 to Table A- 5.15 provide specific information on spill prevention, control, and countermeasures, including structures and emergency equipment for each facility, unit, or organization. The locations where POL and/or HS are stored or managed are shown on the maps in Appendix 4. The locations are indexed by a map identification number, which is cross-referenced with the information in Table A- 4.1.

Table A- 5.10: Spill Prevention and Control Equipment and Measures at Gas Stations

Location/ Building Number/ Use	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m³]	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Required Emergency Response Equipment	Control Measures	Containment Type/ Material/ Capacity
Kelley Barracks, Bldg. 3325 Army Gas Station	B-5	Gasoline	UST, 50	WGK 3	C	N/A for UST	-Spill kit -Fire extinguisher -Emergency phone in shop	-Leak detection system -Optical and acoustic alarm -Annual inspection by AAFES contractor -TÜV inspection every 5 years	Double-walled steel tank
Kelley Barracks, Bldg. 3325 Army Gas Station	B-5	Diesel	UST, 50	WGK 2	B	N/A for UST	-Spill kit -Fire extinguisher -Emergency phone in shop	-Leak detection system -Optical and acoustic alarm -Annual inspection by DLA contractor -TÜV inspection every 5 years	Double-walled steel tank
Kelley Barracks, Bldg. 3325 Army Gas Station	B-5	Gasoline	UST, 50	WGK 3	C	N/A for UST	-Spill kit -Fire extinguisher -Emergency phone in shop	-Leak detection system -Optical and acoustic alarm -Annual inspection by DLA contractor -TÜV inspection every 5 years	Double-walled steel tank
Kornwestheim Golf Course, Bldg. 978 Gas Station	B-4	Diesel	UST, 2 x 3.5	WGK 2	B	N/A for UST	-Spill kit -Fire extinguisher	-Leak detection system -Optical and acoustic alarm -Annual inspection -Internal inspections -TÜV inspection every 5 years	Double-walled steel tank

Location/ Building Number/ Use	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m³]	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Required Emergency Response Equipment	Control Measures	Containment Type/ Material/ Capacity
Panzer Kaserne, Bldg. 2953 Army Gas Station	B-9	JP-8	UST, 50	WGK 3	D	N/A for UST	-Spill kit -Fire extinguisher	-Leak detection system -Optical and acoustic alarm -Annual inspection by DLA contractor -TÜV inspection every 5 years	Double-walled steel tank
Panzer Kaserne, Bldg. 2953 Gas Station	B-9	Gasoline	UST, 50	WGK 3	D	N/A for UST	-Spill kit -Fire extinguisher	-Leak detection system -Optical and acoustic alarm -Annual inspection by DLA contractor -TÜV inspection every 5 years	Double-walled steel tank
Patch Barracks, Bldg. 2316	B-1	Diesel	AST, 1	WGK 2	A	C-2	-Spill kit -Fire extinguisher	-Annual inspections by IMC contractor (Centerra)	- Glass-fiber reinforced plastic tank -Secondary containment
Patch Barracks, Bldg. 2349 AAFES Gas Station	B-1	Gasoline	UST, 3 x 40	WGK 3	D	N/A for UST	-Spill kit -Fire extinguisher	-Leak detection system -Optical and acoustic alarm -Annual inspection by AAFES contractor -TÜV inspection every 2.5 years	Double-walled steel tank
Echterdingen Airfield, Bldg. 3215 Gas Station	B-6A	Diesel	AST, 2 x 1	WGK 2	B	C-27	-Spill kit -Fire extinguisher	-Leak detection system -Annual inspection -Fill level control	Double-walled steel tank

Table A- 5.11: Spill Prevention and Control Equipment and Measures at Emergency Generators > 1m³

Location/Building Number/ Use	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m³]	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material
Böblingen Officers Club, Bldg. 3182, Emergency Generator	B-11	Diesel	AST, 2 x 2	WGK 2	B	C-32	-Spill kit -Fire extinguisher	-Annual inspections by IMC contractor (Centerra)	2xGlass-fiber reinforced plastic tanks -Tank room floor designed as secondary containment
Boeblingen Trng Area, Bldg. 3095	B-8	Diesel	AST, 5	WGK 2	B		-Fire extinguisher	-Leak detection system -Annual inspections by IMC contractor (Centerra)	Tank room floor designed as secondary containment
Kelley Barracks, Bldg. 3301 Emergency Generator	B-5	Diesel	AST, 1	WGK 2	A	N/A Located in enclosed building compartment		-Annual inspections by IMC contractor (Centerra) -Leak detection system	-Steel-Tank -Steel secondary containment
Kelley Barracks, Bldg. 3363 Emergency Generator	B-5	Diesel	AST, 3 x 2	WGK 2	B	C-19	-Fire extinguisher	-Annual inspections by IMC contractor (Centerra)	-GFK-Tanks -GFK secondary containment
Kelley Barracks, Bldg. 3364 Emergency Generator	B-5	Diesel	AST, 2.5	WGK 2	B	C-21	-Spill Kit -Fire extinguisher	-Annual inspections by IMC contractor (Centerra)	- Steel-Tank

Location/Building Number/ Use	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m³]	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material
Kelley Barracks, Bldg. 3379 Emergency Generator	B-5	Diesel	AST, 4	WGK 2	B	C-22	-Spill kit -Fire extinguisher	-Annual inspections by IMC contractor (Centerra)	-GFK-Tank -Concrete secondary containment
Kelley Barracks, Bldg. 3385 Emergency Generator	B-5	Diesel	AST, 4.95	WGK 2	B	N/A Located in enclosed building compartment	-Fire extinguisher	-Leak detection system -Annual inspections by IMC contractor (Centerra)	Double-walled steel tank
Kelley Barracks, Bldg. 3386 Emergency Generator	B-5	Diesel	AST, 5	WGK 2	B	C-21		-Leak detection system -Annual inspections by IMC contractor (Centerra)	Steel tank with inner lining
Panzer Kaserne, Bldg. 2903 Emergency Generator	B-9	Diesel	AST, 1	WGK 2	A	C-40	-Spill kit -Fire extinguisher	-Annual inspections by IMC contractor (Centerra)	-Steel-Tank -Steel secondary containment
Panzer Kaserne, Bldg. 2905 Emergency Generator	B-9	Diesel	AST, 2 x 1.5	WGK 2	B	C-38	-Fire extinguisher	-Annual inspections by IMC contractor (Centerra)	Double-walled plastic tank

Location/Building Number/ Use	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m³]	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material
Panzer Kaserne, Bldg. 2947 Emergency Generator	B-9	Diesel	UST, 15	WGK 2	C	N/A for UST	-Spill kit -Fire extinguisher	-Annual inspections by IMC contractor (Centerra) -TÜV inspection every 5 years -Leak detection system -Alarm system	Double-walled steel tank
Panzer Kaserne, Bldg. 2975 Emergency Generator	B-9	Diesel	AST, 3 x 2	WGK 2	B	C-38	-Spill kit -Fire extinguisher	-Annual inspections by IMC contractor (Centerra) -Visible fill level	-1 x GFK with secondary containment -2 x Double walled GFK Tank
Panzer Kaserne, Bldg. 2987 Emergency Generator	B-9	Diesel	AST, 2	WGK 2	B	C-42	-Fire extinguisher	-Annual inspections by IMC contractor (Centerra)	-Double walled Plastic-Tank - Tank room floor designed as secondary containment
Patch Barracks, Bldg. 2216 Emergency Generator	B-1	Diesel	2216-C 4m3 2216-A&B, 0.5m3	WGK 2	B	C-7		-Annual inspections by IMC contractor (Centerra)	- Steel tank - Tank room floor designed as secondary containment

Location/Building Number/ Use	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m³]	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material
Patch Barracks, Bldg. 2316 Emergency Generator	B-1	Diesel	AST, 2 x 50	WGK 2	C	C-2	Fire Extinguisher	-Annual inspections by IMC contractor (Centerra) -TÜV inspection every 5 years -Leak detection system - Alarm system	-Steel tank with inner lining -Concrete secondary containment
Patch Barracks, Bldg. 2316 Emergency Generator	B-1	Diesel	AST, 2 x 1.95	WGK 2	B	C-2	-Fire extinguisher	-Annual inspections by IMC contractor (Centerra) -TÜV inspection every 5 years -Leak detection system	-Steel tank -Steel secondary containment
Patch Barracks, Bldg. 2346 Emergency Generator	B-1	Diesel	AST, 2 x 5	WGK 2	B	C-7	-Fire extinguisher	-Leak detection system -Annual inspections by IMC contractor (Centerra) -Fill level gauge	Double-walled steel tank
Patch Barracks, Bldg. 2346 Emergency Generator	B-1	Diesel	AST, 2 x 0.5	WGK 2	B	C-7	-Fire extinguisher	-Annual inspections by IMC contractor (Centerra)	Double-walled steel tank

Location/Building Number/ Use	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m³]	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material
Patch Barracks, Bldg. 2363 Emergency Generator	B-1	Diesel	AST, 2 x 40	WGK 2	C	C-1		-Annual inspections by IMC contractor (Centerra) -TÜV inspection every 5 years -Leak detection system -Alarm system	-Steel tank with inner lining -Concrete secondary containment
Patch Barracks, Bldg. 2363 Emergency Generator	B-1	Diesel	AST, 2 x 1.5	WGK 2	"B"	C-1	-Fire extinguisher -Spill Kit	-Annual inspections by IMC contractor (Centerra) -TÜV Inspection every 5 years -Leak detection system	-Steel-Tank -Steel secondary containment
Patch Barracks, Bldg. 2374 Emergency Generator	B-1	Diesel	AST, 25	WGK 2	C	C-6		-Annual inspections by IMC contractor (Centerra) -TÜV inspection every 5 years -Leak detection system -Alarm system	- Double-walled steel tank - Concrete secondary containment
Robinson Barracks, Bldg. 102, Emergency Generator	B-2	Diesel	AST, 1	WGK 2	A	C-9	-Spill kit -Fire extinguisher	-Annual inspections by IMC contractor (Centerra)	-Plastic-Tank -Plastic containment

Location/Building Number/ Use	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m³]	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material
Robinson Barracks, Bldg. 140, Emergency Generator	B-2	Diesel	UST, 13	WGK 2	C	N/A for UST	-	-Annual inspections by IMC contractor (Centerra) -TÜV inspection every 5 years -Leak detection system -Alarm system	Double-walled steel tank
Robinson Barracks, Bldg. 203, Emergency Generator	B-2	Diesel	AST, 1.1	WGK 2	B Inventory says A	C-11		-Annual inspections by IMC contractor (Centerra)	-Steel-Tank - Tank room floor designed as secondary containment
Robinson Barracks, Bldg. 208, Emergency Generator	B-2	Diesel	AST, 4.7	WGK 2	B	C-10	-Fire extinguisher	-Annual inspections by IMC contractor (Centerra) -Leak detection system	-Steel-Tank with inner lining - Tank room floor designed as secondary containment
Echterdingen Airfield, Bldg. 3214 Emergency Generator #2	B-6A	Diesel	AST, 1.5	WGK 2	B	C-27	-Fire extinguisher	-Annual inspections by IMC contractor (Centerra) -Leak detection system -Alarm system	Double-walled steel tank
Echterdingen Airfield, Bldg. 3214 Emergency Generator #1	B-6A	Diesel	AST, 1.8	WGK 2	B	C-27	-Fire extinguisher	-Annual inspections by IMC contractor (Centerra)	-GFK-Tank -Tank room floor designed as secondary containment

Location/Building Number/ Use	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m³]	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material
Echterdingen Airfield, Bldg. 3227 Emergency Generator	B-6B	Diesel	AST, 1	WGK 2	B	C-31	-Fire extinguisher	-Annual inspections by IMC contractor (Centerra) -Leak detection system	Double-walled steel tank Tank room floor designed as secondary containment
Echterdingen Airfield, Bldg. 3250	B-6B	Diesel	AST, 1	WGK 2	B	-		-Annual inspections by IMC contractor (Centerra)	
Echterdingen Airfield, Bldg. 3293 Emergency Generator	B-6B	Diesel	AST, 1.14	WGK 2	B	C-30	-Spill kit -Fire extinguisher	-Annual inspections by IMC contractor (Centerra)	-GFK-Tank -Tank room floor designed as secondary containment
Echterdingen Airfield, Bldg. 3294 Emergency Generator	B-6B	Diesel	AST, 2	WGK 2	B	C-30	-Spill kit -Fire extinguisher	-Annual inspections by IMC contractor (Centerra)	-GFK-Tank -GFK secondary containment

Table A- 5.12: Spill Prevention and Control Equipment and Measures at Heating Oil Tanks

Location/Building Number/ Unit	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m³]	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material
Robinson Barracks, Bldg. 116 Heating plant	B-2	Heating oil	AST, 4 x 2	WGK 2	B	C-12	-Spill kit -Fire extinguisher	-Fill level control -Annual inspection	-GFK-Tanks -Concrete secondary containment
Robinson Barracks, Bldg. 146 Heating plant	B-2	Heating oil	UST, 16	WGK 2	C	N/A for UST	-Spill kit -Fire extinguisher	-Leak detection system -Optical and acoustic alarm -Annual inspection -TÜV inspection every 2.5 years	-Double-walled steel tank
Robinson Barracks, Bldg. 151 Heating plant	B-2	Heating oil	AST, 14.5	WGK 2	C	N/A Located in enclosed building compartment	-Fire extinguisher	-Leak detection system -Optical and acoustic alarm -Annual inspection -TÜV inspection every 5 years	-Steel tank with inner lining -Concrete secondary containment
Robinson Barracks, Bldg. 169 Heating plant	B-2	Heating oil	AST, 17.1	WGK 2	C	N/A Located in enclosed building compartment	-Spill kit -Fire extinguisher	-Leak detection system -Optical and acoustic alarm -Annual inspection -TÜV inspection every 5 years	-Steel tank with inner lining -Concrete secondary containment
Kornwestheim Golf Course, Bldg. 975 Club House	B-4	Heating oil	AST, 10	WGK 2	B	N/A Located in enclosed building compartment	-Spill kit -Fire extinguisher	-Leak detection system -Optical and acoustic alarm -Annual inspection	-Steel tank with inner lining -Concrete secondary containment

Location/Building Number/ Unit	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m³]	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material
Kornwestheim Golf Course, Bldg. 979 Heating plant	B-4	Heating oil	UST, 7	WGK 2	B	N/A for UST	-Fire extinguisher	-Leak detection system -Optical and acoustic alarm -Annual inspection -TÜV inspection every 5 years	-Double-walled steel tank
Böblingen Range Control, Bldg. 3000 Heating plant	B-7	Heating oil	UST, 5	WGK 2	B	N/A for UST	-Spill kit -Fire extinguisher	-Leak detection system -Optical and acoustic alarm -Annual inspection -TÜV inspection every 5 years	-Double-walled steel tank
Böblingen Family Housing, Bldg. 3111 Heating plant *Inactive*	B-10	Heating oil	AST, 18.6	WGK 2	C	N/A Located in enclosed building compartment		Tank inactive, closure and removal are pending.	-Steel tank with inner lining
Böblingen Family Housing, Bldg. 3162 Heating plant * Closed*	B-10	Heating oil	AST, 15	WGK 2	C	N/A Located in enclosed building compartment	-Spill kit	Tank closed as of 13 Sep 2023; removal pending.	-Double-walled steel tank with inner lining
Böblingen Family Housing, Bldg. 3169 Heating plant *Closed	B-10	Heating oil	UST, 20	WGK 2	C	N/A for UST	-Spill kit -Fire extinguisher	Tank closed as of 13 Sep 2023; removal pending.	-Double-walled steel tank

Location/Building Number/ Unit	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m³]	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material
Kelley Barracks, Bldg. 3374 Heating plant	B-5	Heating oil	AST, 5 x 2	WGK 2	B	C-24	-Fire extinguisher	-Fill level control -Annual inspection	-Three plastic-tanks -Tank room floor designed as secondary containment
Weilimdorf Warehouse, Bldg. 5376 Heating plant	B-3	Heating oil	UST, 30	WGK 2	C	N/A for UST	-Spill kit -Fire extinguisher	-Leak detection system -Optical and acoustic alarm -Annual inspection -TÜV inspection every 5 years	-Double-walled steel tank

Table A- 5.13: Spill Prevention and Control Equipment and Measures at Waste Oil Tanks

Location/Building Number/ Use	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m³]	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material
Kelley Barracks, Bldg. 3320 Vehicle Maintenance	B-5	Waste oil	UST, 3	WGK 3	C	N/A for UST	-Spill kit -Fire extinguisher -Emergency phone	-Leak detection system -Optical and acoustic alarm -Annual inspection -TÜV inspections every 5 years	-Double-walled steel tank
Kelley Barracks, Bldg. 3371 HWSA	B-5	Waste oil	AST, 1	WGK 3	B	Into secondary containment then into collection basin (C-20)	-Spill kit -Fire extinguisher	-Leak detection system -Dipstick control -Weekly inspection	-Double-walled steel tank -Secondary containment >10 %
Kornwestheim Golf Course, Bldg. 979 Vehicle Maintenance	B-4	Waste oil	UST, 1	WGK 3	B	N/A for UST	-Spill kit -Fire extinguisher -Emergency phone	-Leak detection system -Optical and acoustic alarm -Annual inspection -TÜV inspections every 5 years	-Double-walled steel tank
Panzer Kaserne, Bldg. 2929 Vehicle Maintenance	B-9	Waste oil	AST, 2 x 1	WGK 3	B	Into secondary containment (C-29)	-Spill kit -Fire extinguisher -Emergency phone in Bldg. 2930	-Visual inspection every business day	-Double-walled steel tanks
Panzer Kaserne, Bldg. 2935 Vehicle Maintenance	B-9	Waste oil	UST, 5	WGK 3	C	N/A for UST	-Spill kit -Fire extinguisher -Emergency phone	-Leak detection system -Optical and acoustic alarm -Annual inspection -TÜV inspections every 5 years	-Double-walled steel tank

Location/Building Number/ Use	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m^3]	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material
Panzer Kaserne, Bldg. 2958 Vehicle Maintenance	B-9	Waste oil	UST, 5	WGK 3	C	N/A for UST	-Spill kit -Fire extinguisher -Emergency phone in Bldg. 2958	-Leak detection system -Optical and acoustic alarm -Annual inspection -TÜV inspections every 5 years	-Double-walled steel tank
Panzer Kaserne, Bldg. 2969 Vehicle Maintenance	B-9	Waste oil	UST, 7	WGK 3	C	N/A for UST	-Spill kit -Fire extinguisher -Emergency phone	-Leak detection system -Optical and acoustic alarm -Annual inspection -TÜV inspections every 5 years	-Double-walled steel tank
Panzer Kaserne, Bldg. 2970 Vehicle Maintenance	B-9	Waste oil	AST, 1	WGK 3	B	Into secondary containment, then into collection basin (C-37)	-Spill kit -Fire extinguisher -Emergency phone in Bldg. 2970	-Visual inspection every business day	- Double-walled steel tank -Collection basin approx. 1 m^3
Echterdingen Airfield, Bldg. 3262 Aircraft Maintenance	B-6B	Waste oil	UST, 3	WGK 3	C	N/A for UST	-Emergency phone in Hangar 2	-Leak detection system -Optical and acoustic alarm -Annual inspection -TÜV inspections every 5 years	-Double-walled steel tank

Table A- 5.14: Spill Prevention and Control Equipment and Measures at Oil-Water Separators

Location/ Building Number/ Unit/ OWS ID	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m³]	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material
Kornwestheim Golf Course, Bldg. 977 Gas Station ID 7726-1	B-4	Water/POL	UST, 0.9	C-14	N/A	-Optical and acoustic alarm -Monthly inspections	N/A
Kornwestheim Golf Course, Bldg. 979 Wash Rack ID 7726-2	B-4	Water/POL	UST, 2.50	C-15	N/A	-Optical and acoustic alarm -Monthly inspections	N/A
Kornwestheim Golf Course, Bldg. 980 Wash Rack ID 7726-3	B-4	Water/POL	UST, 2.5	C-13	N/A	-Optical and acoustic alarm -Monthly inspections	N/A
Kelley Barracks, Bldg. 3324 Gas Station ID 7737-6	B-5	Water/POL	UST, 5.0	C-18	N/A	-Optical and acoustic alarm -Monthly inspections	N/A
Kelley Barracks, Bldg. 3393 Car Wash ID 7737-2B	B-5	Water/POL	UST, 9.60	C-23	N/A	-Optical and acoustic alarm -Monthly inspections	N/A
Panzer Kaserne, Bldg. 2930 Wash Rack ID 7725-12	B-9	Water/POL	UST, 2.5	C-33	N/A	-Optical and acoustic alarm -Monthly inspections	N/A
Panzer Kaserne, Bldg. 2935 Wash Rack ID 7725-3	B-9	Water/POL	UST, 5.0	C-34	N/A	-Optical and acoustic alarm -Monthly inspections	N/A
Panzer Kaserne, Bldg. 2953 Gas Station ID 7725-7	B-9	Water/POL	UST, 1.27	C-35	N/A	-Optical and acoustic alarm -Monthly inspections	N/A

Location/ Building Number/ Unit/ OWS ID	Map I.D. Number	General Types of POL and HS	Type of Tank and Size [m³]	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material
Panzer Kaserne, Bldg. 2958 Parking Lot ID 7725-TBD	B-9	Water/POL	UST, 3.73	C-36	N/A	-Optical and acoustic alarm -Monthly inspections	N/A
Panzer Kaserne, Bldg. 2966 Parking Lot ID 7725-4	B-9	Water/POL	UST, 17.2	C-37	N/A	-Optical and acoustic alarm -Monthly inspections	N/A
Panzer Kaserne, Bldg. 2969 Wash Rack ID 7725-10	B-9	Water/POL	UST, 2.5	C-37	N/A	-Optical and acoustic alarm -Monthly inspections	N/A
Patch Barracks, Bldg. 2349 Gas Station ID 7727-4	B-1	Water/POL	UST, 5.0	C-4	N/A	-Optical and acoustic alarm -Monthly inspections	N/A
Patch Barracks, Bldg. 2384 Car Wash ID 7727-2	B-1	Water/POL	UST, 2.5	C-5	N/A	-Optical and acoustic alarm -Monthly inspections	N/A
Echterdingen Airfield, Bldg. 3217 Wash Rack ID 7722-1	B-6A	Water/POL	UST, 2.5	C-26	N/A	-Optical and acoustic alarm -Monthly inspections	N/A
Echterdingen Airfield, Bldg. 3226 Wash Rack ID 7722-2	B-6B	Water/POL	UST, 1.5	C-29	N/A	-Optical and acoustic alarm -Monthly inspections	N/A
Echterdingen Airfield, Bldg. 3241 Abandoned Vehicle Lot ID 7722-3	B-6A	Water/POL	UST, 5.0	Not Available	N/A	-Optical and acoustic alarm -Monthly inspections	N/A

Table A- 5.15: Spill Prevention and Control Equipment and Measures at HWAPs/ HWSA

Location/ Building Number/ Unit	Map I.D. Number	General Types of POL and HS	Type of Tank and Size	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material/ Capacity
Kelley Barracks, Bldg. 3318 HWAP	B-5	Fluorescent light tubes and lamps, aerosol cans, batteries	Metal and plastic containers 20 - 1,100 l	AWG	N/A	N/A for solid waste	-Spill kit -Fire extinguisher -Emergency phone	-Inspections by EO	N/A
Kelley Barracks, Bldg. 3319 HWAP	B-5	Flammable solids, hazardous metal container, aerosol cans	Metal and plastic containers 20 - 100 l	AWG	N/A	N/A for solid waste (C-17)	-Fire extinguisher -Emergency phone	-Inspections by EO	N/A
Kelley Barracks, Bldg. 3320 A&B HWAP	B-5	POL contaminated solids, hazardous plastic container aerosol cans	Metal and plastic containers 200 - 800 l	AWG	N/A	N/A for solid waste (C-17)	-Spill kit -Fire extinguisher -Emergency phone	-Inspections by EO	N/A
Kelley Barracks, Bldg. 3324 HWAP	B-5	Hazardous plastic container, empty gas cylinder	Metal and plastic containers 120 - 800 l	AWG	N/A	N/A for solid waste (C-18)	-Spill kit -Fire extinguisher -Emergency phone	-Inspections by EO	N/A

Location/ Building Number/ Unit	Map I.D. Number	General Types of POL and HS	Type of Tank and Size	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material/ Capacity
Kelley Barracks, Bldg. 3360 HWAP	B-5	Printing products and toner, non-halogenated liquid paint, batteries, aerosols	Metal containers 120 - 1000 l	To be deter-mined	To be deter-mined	C-16	-Spill kit -Fire extinguisher -Emergency phone	-Inspections by EO	All containers currently empty (therefore no water hazard class / level determined). No approved sec. containments for liquid HW available
Kelley Barracks, Bldg. 3371 HWSA	B-5	Various flammables, corrosives, toxics HS, solids and liquids	Metal and plastic containers 30 - 1,100 l	3	D	C-20	-Spill kit -Fire extinguisher -Emergency phone -Emergency shower -Eye-wash solution -PPE	-Fire alarm -Inspections by ED HW manager -External expert inspections required	Liquid HW container with secondary containments >10 %
Kornwestheim Golf Course, Bldg. 979 HWAP	B-4	POL contaminated solids, hazardous plastic container aerosols, batteries, antifreeze	Metal and plastic containers 50 – 1000 l	3	N/A	C-15	-Spill kit -Fire extinguisher -Emergency phone	-Inspections by EOs	Liquid HW container with secondary containments >10 %

Location/ Building Number/ Unit	Map I.D. Number	General Types of POL and HS	Type of Tank and Size	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material/ Capacity
Panzer Kaserne, Bldg. 2929 HWAP	B-9	Waste oil, POL contaminated solids, used oil filters, aerosols	Metal and plastic containers 200 – 1,000 l	3	C	C-33	-Spill kit -Fire extinguisher -Emergency phone in Bldg. 2930	-Inspections by EO -External expert inspections required	-sealed concrete hardstand - Liquid HW container double-walled
Panzer Kaserne, Bldg. 2935 A&B HWAP	B-9	Empty oil bins, POL contaminated solids, hazardous metal / plastic container, used oil filters antifreeze, diethylene glycol, liquid paint, batteries, aerosols	Metal and plastic containers 200 – 1,000 l	3	B (2935A) C (2935B)	C-34	-Spill kit -Fire extinguisher -Emergency phone in Bldg. 2935	-Sloped concrete area leads to OWS at HWAP 2935B -Inspections by unit EOs -External expert inspections required (at 2935B)	-Concrete floor - Liquid HW on secondary containments >10% or in double-walled container

Location/ Building Number/ Unit	Map I.D. Number	General Types of POL and HS	Type of Tank and Size	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material/ Capacity
Panzer Kaserne, Bldg. 2958 A&B HWAP	B-9	Waste fuels, hazardous plastic and metal container, POL contaminated solids, waste used oil, antifreeze, liquid paint, used oil filters, fluorescent light tubes, empty gas cylinders and fire extinguishers, batteries, aerosols	Metal and plastic containers 200 – 1,100 l	3	B (2958A) C (2958B)	C-36	-Fire extinguisher -Spill kit -Emergency phone in Bldg. 2958	-Inspections by unit EOs -External expert inspections required (at 2958B)	- Liquid HW on secondary containments >10% or in double-walled container
Panzer Kaserne, Bldg. 2969 HWAP	B-9	POL contaminated solids, used metal / plastic container, waste oil, waste fuel, antifreeze, batteries, aerosols	Metal and plastic containers 20 – 800 l	3	C	C-37	-Spill kit -Fire extinguisher -Emergency phone in Bldg. 2969	-Inspections by unit EOs -External expert inspections required	Most liquid HW container with secondary containments) >10 %, but some without or insufficient sec. containment

Location/ Building Number/ Unit	Map I.D. Number	General Types of POL and HS	Type of Tank and Size	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material/ Capacity
Panzer Kaserne, Bldg. 2970 HWAP	B-9	POL contaminated solids, hazardous metal container, waste fuel, waste oil antifreeze, batteries, empty gas cylinders	Metal and plastic containers 100 – 950 l	3	C	C-37	-Spill kit -Fire extinguisher -Emergency phone in Bldg. 2970	-Sloped hardstand -Inspections by unit EOs -External expert inspections required	-Collection basin of approx. 1 m^3 - Concrete floor - Some liquid HW container with insufficient sec. containment
Panzer Kaserne, Bldg. 2974 HWAP	B-9	Hazardous plastic container, liquid paint, antifreeze, waste fuel, waste used oil batteries	Metal and plastic containers 1 – 800 l	3	C	C-36	-Spill kit -Fire extinguisher	-Sloped hardstand -Inspections by ED HW manager and IC -External expert inspections required	-Concrete collection basin approx. 1 m^3 - Some liquid HW container with insufficient sec. containment

Location/ Building Number/ Unit	Map I.D. Number	General Types of POL and HS	Type of Tank and Size	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material/ Capacity
Panzer Kaserne, Bldg. 2996 A&B HWAP	B-9	Amalgam (2996A) Cleaner and needles (2996B)	Plastic container 30 l (2996A) Small cans / bottles (2996B)	AWG (2996A) N/A (2996B)	N/A	N/A Placed in storage container inside the building	-Spill kit -Fire extinguisher	-Closed storage container, -Inspections by Clinic EO	N/A
Patch Barracks, Bldg. 2316 HWAP	B-1	POL contaminated solids, antifreeze, batteries, waste fuel, cartridges, inorganic acids, waste used oil, brake fluid, liquid paint detergents, aerosols, fluorescent light tubes and lamps, printing products, fire extinguisher canisters	Metal and plastic containers 200 – 1,100 l	3	C	C-2	-Spill kit -Fire extinguisher	-Sloped hardstand -Inspections by ED HW manager and IC -External expert inspections required	-Concrete collection basin approx. 1 m^3 - One sec. containment for all liquid HW container - not sufficient
Patch Barracks, Bldg. 2353 HWAP	B-1	Fluorescent light tubes and lamps, empty gas cylinders	Metal and plastic containers 200 – 2,000 l	AWG	N/A	C-8		-Inspections by ED HW manager and IC	N/A
Patch Barracks, Bldg. 2349 HWAP	B-1	Hazardous plastic containers, POL contaminated solids	Plastic container 200 l	AWG	N/A	N/A for solid waste (C-4)	-Spill kit -Fire extinguisher	-Inspections by EO	N/A

Location/ Building Number/ Unit	Map I.D. Number	General Types of POL and HS	Type of Tank and Size	Water Hazard Class	Water Hazard Level	Predicted Spill Flow Direction Map #	Available Emergency Response Equipment	Control Measures	Containment Type/ Material/ Capacity
Robinson Barracks, Bldg. 116 HWAP	B-2	Liquid paint, antifreeze, printing products, light tubes and lamps, waste fuel, POL contaminated solids, aerosols, hazardous plastic container, waste used oil, diethylene glycol, batteries, detergents, fluorescent light tubes, empty gas cylinder	Metal and plastic containers 100 – 1,100 l	3	C	C-12	-Spill kit -Fire extinguisher	-Inspections by ED HW manager and IC -External expert inspections required	-Container floor serves as sec. containment, additional sec. containment available but not used
Echterdingen Airfield, Bldg. 3219 HWAP	B-6B	POL contaminated solids, hazardous metal / plastic container, chemical packaging, aerosols, batteries, antifreeze, waste used oil, waste fuel	Metal and plastic containers 20 – 800 l	3	B	C-28	-Spill kit -Fire extinguisher	-Sloped hardstand -Inspections by ED HW manager	-Concrete collection basin approx. 1 m^3

APPENDIX 6

SLUG PREVENTION PLAN

INTRODUCTION

A Slug Prevention Plan has been prepared and implemented by the United States Army Garrison (USAG) Stuttgart. This Slug Plan has been prepared to:

1. Identify areas where petroleum, oil and lubricants (POL) and /or hazardous substances (HS) may be released, at one time, in a volume and/or concentration (i.e., "slug") that negatively impacts the ability of the receiving wastewater treatment plant(s) to operate within normal parameters;
2. Identify response procedures to be implemented by personnel after a slug release; and
3. Identify resources available on- and off-site to respond to a slug release.

This plan contains the following elements as required by GFGS Chapter C4.3.2.3.6. Spills and Batch Discharges (Slugs):

- Section 1.0 – Description of discharge practices, including non-routine batch discharges (GFGS Chapter C4.3.2.3.6.1.);
- Section 2.0 – Description of stored chemicals (GFGS Chapter C4.3.2.3.6.2.);
- Section 3.0 – Plan for immediately notifying the domestic wastewater treatment system (DWTS) of slug discharges and discharges that would violate prohibitions under this section, including procedures for subsequent written notification within five days (GFGS Chapter C4.3.2.3.6.3.);
- Section 4.0 – Necessary practices to prevent accidental spills. This includes proper inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of facility site runoff, and worker training (GFGS Chapter C4.3.2.3.6.4.);
- Section 5.0 – Proper procedures for building containment structures or equipment (GFGS Chapter C4.3.2.3.6.5.);
- Section 6.0 – Necessary measures to control toxic organic pollutants and solvents (GFGS Chapter C4.3.2.3.6.6.); and
- Section 7.0 – Proper procedures and equipment for emergency response, and any subsequent plans necessary to limit damage suffered by the treatment facility or the environment (GFGS Chapter C4.3.2.3.6.7.).

This plan has been prepared as an appendix to the USAG Stuttgart SPRP. Portions of this plan reference information contained in the SPRP. The office with primary responsibility for maintenance and implementation of this plan is the Directorate of Public Works (DPW), Environmental Division (ED).

1.0 DRAINAGE SYSTEM AND DISCHARGE PRACTICES

Kelley Barracks

At Kelley Barracks storm water is predominantly drained by a separate storm sewer system. A storm water drainage divide splits the Barracks in two (2), with the northwest corner draining through the North Storm Water Retention and Sedimentation Basin and the remainder of the Barracks draining to the South Storm Water Retention Basin. The two (2) storm water retention basins serve as outflow control devices. Storm water from the new Access Control Point (ACP; opened in January 2017) is collected in an underground cistern, and reportedly is pumped (outflow controlled) to the discharge line from the South Storm Water Retention Basin to the Koersch Creek.

Outflow from the northern portion of the installation eventually enters the Weidach Creek. The majority of the storm water in the north is collected and discharged to the North Storm Water Retention and Sedimentation Basin. The basin connects to the Weidach Creek (and eventually to the Koersch Creek). Outflow from the southern portion of the base eventually enters the Koersch Creek via the South Storm Water Retention Basin. An oil water separator (OWS) is not associated with the South Storm Water Retention Basin to the Koersch Creek and the ACP cistern.

Panzer Kaserne

Storm water is either drained by a combined sanitary and storm sewer collection system at Panzer Kaserne, infiltrated to the ground (e.g. Panzer Exchange), or discharged to open water bodies (Panzer Hotel and new Stuttgart Elementary and High Schools). All storm water associated with industrial activity areas flows to the Wastewater Retention Basin located to the west and outside the fenceline. Combined sanitary and storm water from the northern and southern part of the Panzer Kaserne discharges into the Wastewater Retention Basin. The Wastewater Retention Basin discharges to the local wastewater treatment plant Boeblingen.

Storm water from the roof of the Panzer Exchange (Bldg. 2903) is discharged to a rainwater retention and infiltration basin north of the building; during major rain events the storm water is also discharged to the combined sewer system via an overflow.

Storm water from the driveway, parking lot, walkways, and roof of the new Stuttgart Elementary and High Schools (Bldgs. 3080 and 3081) drain through an underground storm water storage basin or a fire water / rain water reservoir (emergency overflow) directly to the protected, open ditch "*Waldklinge*" just outside of the Kaserne's southern fence line and on the Boeblingen Local Training Area (LTA).

Storm water collected from the roof, walkways, driveway, and the parking lot of the Panzer Hotel (Bldg. 2905) is collected and discharged via a storm overflow shaft, a successive pre-treatment shaft with constant water table into an open rainwater retention basin located to the south of the hotel complex. Rain water infiltrates into the soil and is drained through three underground drainage pipes into a collection shaft at the eastern end of the basin. The storm water discharges to the open ditch "*Wolfsburger Hau*" outside of the installation and eventually discharges into the down-gradient Ganssee Lake.

Patch Barracks

Storm water is drained by a combined sanitary and storm sewer collection system at Patch Barracks. Drainage from the western portion of Patch Barracks falls within Water Protection Zone IIIB as designated by the City of Stuttgart (*Landeshauptstadt Stuttgart*). This designation does not affect the requirements of the USAG Stuttgart as this area does not contain industrial activity.

Almost all storm water from Patch Barracks flows to the main wastewater treatment plant at Stuttgart-Muehlhausen except storm water from the open material storage area which is located near Bldgs. 2338 and 2366. Also, the area of the Patch Theater and the NCO Club as they

discharge to nearby outfalls and directly to an open ditch area to Katzenbach Creek – but these facilities and the surrounding area are not considered to be industrial in nature.

Stuttgart Army Airfield (SAAF)

Storm water is drained via different systems at the SAAF. The drainage system in the Northern Hangar Area is owned and operated by the host airport, FSG; whereas the U.S. Army is responsible for operation and maintenance of the drainage system in the Southern Entrance Area.

Northern Hangar and Flight Line Area:

Storm water near buildings, roads, taxiways, and the flight line in the northern area is drained via different storm sewer systems. In some of these areas storm water discharges to the off-post Rainwater Retention Basin Middle; this water is monitored automatically for TOC and based on these readings the water is discharged either to the Wagenbach Creek or to the waste water treatment plant Plieningen. Some are connected to the combined sanitary and storm sewer which drains via outfall to the municipal waste water treatment plant at Sielmingen. Storm water also discharges into the off-post Rainwater Retention Basin South, which drains into the Katzenbach Creek.

Parts of the Hangar area, the Maintenance Pad north of Bldg. 3220, the Waste Oil Collection Point (Bldg. 3262), and the HWAP (adjacent to Bldg. 3219) in summer the water is discharged via the off-post Rainwater Retention Basin South into the Katzenbach Creek. In winter or in case of an emergency the gate/valve in shaft is closed and the storm water is re-routed via a pump station and directed to the off-post Rainwater Retention Basin Middle; this water is monitored permanently and discharges accordingly either to the Wagenbach Creek or waste water treatment plant Plieningen.

Southern Entrance Area:

Storm water in the southern entrance area is drained by separate storm discharge systems. A system of perforated pipes set in underground gravel percolation drainage beds that disperse storm water directly into the subsurface is established in the western portion of the Southern Entrance Area. Reportedly, the infiltration pipes are overlain with an absorbent fabric to protect the drainage system from overload (due to unusually heavy rainfall or rapid snowmelt). This infiltration system drains into the Katzenbach Creek.

Other industrial-use areas such as the Wash Rack near Building 3217 are connected to the municipal sewer system. A pump station (Bldg. 3298) is pumping water in an underground pipeline to the waste water treatment plant at Sielmingen.

The remaining areas of the western portion of the Southern Entrance Area are either connected to the sewer system or are drained via the infiltration pipes/ditches or percolation beds to the ground and/or the Katzenbach Creek.

The majority of the elongated area extending to the south-east of the Southern Entrance Area is drained through an infiltration ditch system running along the northern site boundary and

discharges into a Rainwater Collection Basin. The collected rainwater infiltrates into the ground or evaporates; an outfall is not associated with this Rainwater Collection Basin.

Kornwestheim Golf Course

Storm water is drained by a combined sanitary and storm sewer system in the maintenance area (Building Complex 979), the Fuel Point north of Bldg. 977A, and the Golf Caddy Garage (Bldg. 980) of Kornwestheim Golf Course. Most of the overland flow of storm water from the areas with industrial activities flows to the local municipal wastewater treatment plant. The remainder of the area is a golf course and is drained by overland flow through a series of earthen ditches, creeks, and ponds.

Robinson Barracks

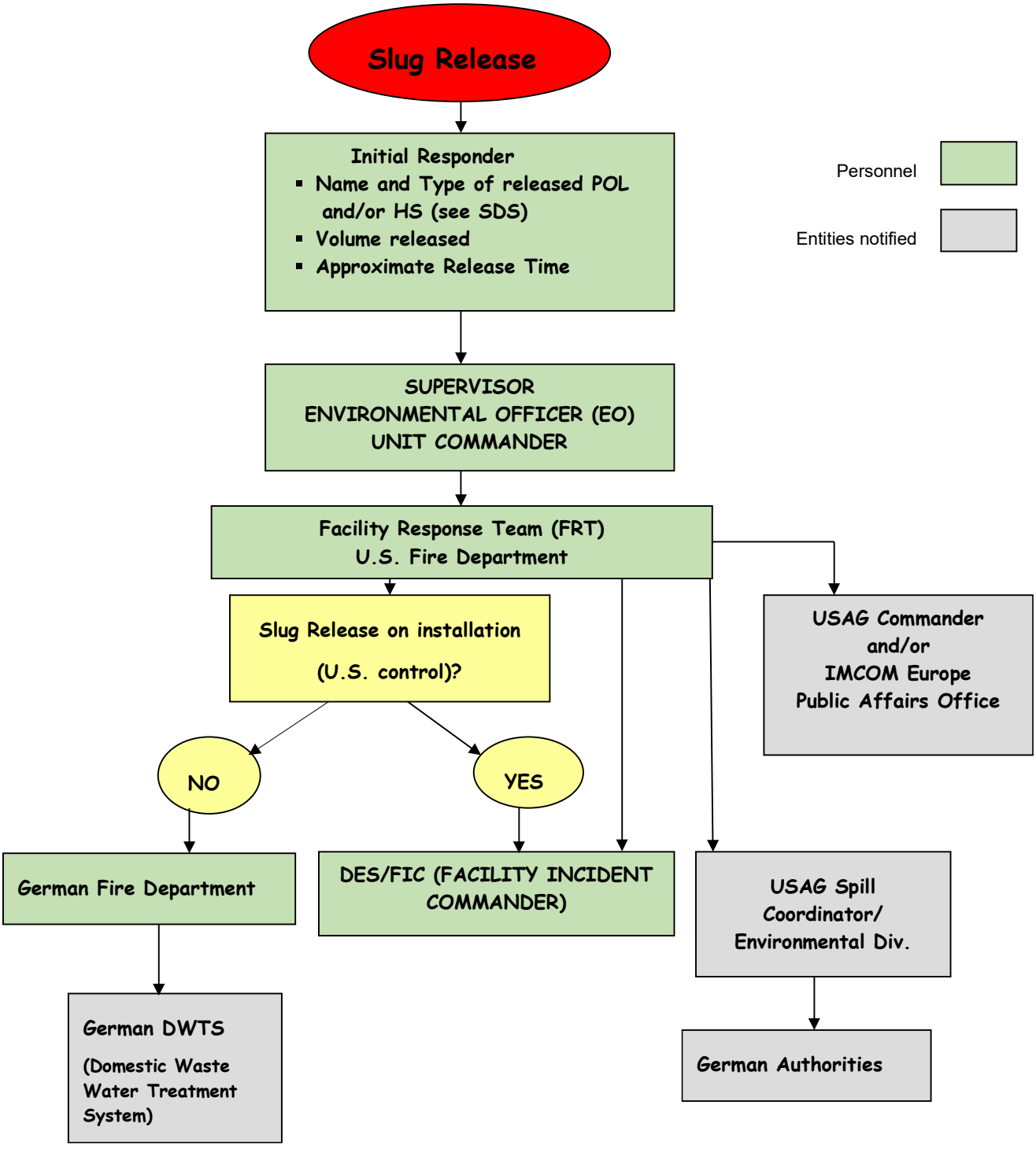
Storm water is drained by a combined sanitary and storm sewer system at Robinson Barracks. Almost all collected storm water from Robinson Barracks flows to the main municipal wastewater treatment plant at Stuttgart-Muehlhausen.

2.0 SLUG Potential Inventory

Table A- 5.1 to Table A- 5.9 provide specific information for each facility, unit, or organization to identify the locations, on the installation, that have the potential to release a POL and/or HS slug into the sewer system. The locations where POL and/or HS are stored or managed at each facility, unit, or organization are shown on the maps in Appendix 4.

3.0 NOTIFICATION OF A SLUG RELEASE

If a slug of POL and/or HS enters the sanitary sewer system, the following actions should be initiated as soon as practicable:



The following personnel and organizations are points of contact (POCs), which (may) need to be contacted in the event of a slug release:

Table A- 6.1: POCs for Slug Release Situations

Position/Title	Name of Individual	Organization/ Mailing Address	Telephone No. (Work)
Facility Response Team (FRT) US Fire Department 1		**Bldg. 3254, Stuttgart Army Airfield**	**DSN 112 CIV 0711-729-112**
Military Police1 (Provost Marshal Office)	**MP Desk**	**DES, Bldg. 2949 Panzer Kaserne**	**DSN 112 CIV 07031-15-3102**
POC for FRT, Chief Fire Department 1	**Michael Ambacher**	**DES, Bldg. 3180 Panzer Kaserne**	**DSN 596 3830 CIV 09641 70596 3830**
Facility Incident Commander (FIC) 1	**Director of Emergency Services**	**DES, Bldg. 3180 Panzer Kaserne**	**DSN 596 3830 CIV 09641 70596 3830**
Service desk for after duties emergencies	**Base maintenance Contractor**	**Building 3320, Kelley Barracks**	**DSN: 596-6200 CIV: 09641 70596 6200**
Chief Environmental Division	Anja Emmenecker	DPW, Bldg. 3318 Kelley Barracks	DSN 596-6131 CIV 09641-70596-6131
Spill Coordinator	Therese Mundorff	DPW, Bldg. 3318 Kelley Barracks	DSN 596-6135 CIV 09641-70596-6135
DPW Operations & Maintenance (O&M) Division	Salam Othman	DPW, Bldg. 3318, Kelley Barracks	DSN 596–6250 CIV 09641-70596-6250
German Fire Department		Stadt Stuttgart / Berufsfeuerwehr	CIV 112
Domestic Wastewater Treatment Plant (DWTS) receiving wastewater from			
1. Kelley Barracks	Hr. Berra	Klärwerk Möhringen	0711-216-98308
2. Patch Barracks	Fr. Schwinghammer	Hauptklärwerk Mühlhausen	0711-216-33001
3. Robinson Barracks	Fr. Schwinghammer	Hauptklärwerk Mühlhausen	0711-216-33001
4. Panzer Kaserne	Standby / Bereitschaft	Klärwerk Böblingen-Sindelfingen	07031-793650
5. Stuttgart Army Airfield	Standby / Bereitschaft	Klärwerk Silmingen	07158-3790
6. Kornwestheim Golf Course	Fr. Schwinghammer	Hauptklärwerk Mühlhausen	0711-216-33001

Position/Title	Name of Individual	Organization/ Mailing Address	Telephone No. (Work)
Stadtentwässerung Stuttgart	Hr. Diehm	Stadtwerke Stuttgart	0711-216-80955
German Environmental Agency (Umweltamt/ Untere Wasserbehörde)	Hr. Schwenk	Amt für Umweltschutz Gaisburgstr. 4 70182 Stuttgart	CIV: 0711-216-88424 CELL: 0177 1492892
Kanalbetrieb – Stuttgart		24h-Service	0711-216-62813
Eigenbetrieb Sadtentwässerung Böblingen		24h-Service	0171-3381689
Stadt Filderstadt	Hr. Rudolf	Tiefbauamt	0711-7003-629

4.0 SLUG RELEASE PREVENTION, CONTROL, AND RESPONSE

Section 2 of the SPRP and this slug prevention plan provide general information on prevention structures and equipment for all types of spills of POL and/or HS. Table A- 5.10 through to Table A-5.15 list the available emergency response equipment at the facility, unit, or organizations handling or storing POL and/or HS.

5.0 BUILDING CONTAINMENT STRUCTURES AND EQUIPMENT

This section includes a general description of the types of building containment structures and equipment that are typically used at the U.S. Army Garrison Stuttgart.

5.1 Building Containment

Building containment construction materials include poured concrete walls, concrete block walls, concrete containment curbs, containment sumps, and trenches. Containment equipment consists of absorbent materials, booms and other barriers or preventive systems. The materials used must be compatible with the released material and sufficiently impervious to contain the spilled material. Containments must also comply with the applicable standards for volume and precipitation volume.

Containment sumps are tanks and pits that collect gravity drainage and are emptied by gravity or pumped flow. Generally, they consist of a collection tank, level detector, pump, and level-actuated pump control to empty the contents of the receiving tank. Sumps are used in many locations to collect wastewaters for transport to storage or treatment systems. Sumps are used as full or partial containments, as appropriate.

Additional operational and maintenance issues that are considered in the design of containments include structural strength and integrity, traffic of equipment and vehicles, leaks from penetration through walls and floors, and leaks from expansion and contraction at joints. Concrete block structures may leak at the joints between blocks and are subject to damage from the expansion of water that penetrates the block. Pits and trenches must be properly cleaned to maintain flow and capacity and grates and covers must be maintained to prevent pedestrian hazards.

5.2 Diversionary Structures

Where containments are not practical, diversions are used to direct drainage as needed. Drainage controls are needed to direct spilled materials away from retention basins, or direct storm water away from equipment storage areas. The diverted materials are often diverted through an OWS. Diversions can include curbs, trenches, catch basins, or retention ponds that are used to redirect or retain spilled materials. Provisions to return spilled materials to the source facility should be provided where practical.

5.3 Separator Systems

There are several different types of separator systems used at the USAG Stuttgart. For slug releases of POL, OWSs are the most effective interceptor systems currently in place. OWSs rely on the difference in density between water and POLs, which are generally less dense than water. OWSs are typically made of one or more cylinders with internal baffles or weirs that operate on a flow-through basis. Free oil, water, and entrained oil droplets are directed to an internal reservoir that collects oil on top and allows clean water underflow. It is not allowed to use solvents or detergents, that break down oil drops, for cleaning vehicles at a wash rack. Emulsified oils will not be separated and would flow through into the sewer system.

It should be noted that transformer fluids and other synthetic oils might not separate from water. Besides, other used hazardous substances (such as solvents and pesticides) may not be intercepted in an OWS.

The operation of OWSs requires frequent inspections:

1. Monthly inspection to check the fill levels of the OWS and the oil reservoir by maintaining a logbook.

2. Bi-annual inspections (every 6 months) that include in addition to the monthly inspection also emptying (removal of oil-water, sludge and oil) and checking the alarm systems.

3. 5-yearly main inspection, that include in addition to the Bi-annual inspections also cleaning of all OWS bodies and built-in components, detailed inspection of the condition and functionality, a tightness proof test and other measures. An inspection report will be prepared that states if the OWS passed or failed the inspection. If the OWS failed the inspection, the operation permit is expired and a re-inspection must be conducted after the deficiencies are corrected. A passed inspection extends the operation of an OWS for 5 more years.

All inspections above must be done by a technical expert in accordance with the Industry norm DIN 1999-100.

Table A- 6.2: Active Oil Water Separator Systems at USAG Stuttgart

Installation	HS	OWS No.	Building Number	Type of Tank	Size [m^3] Sludge Trap / Total
Golf Course Gas Station	Water/POL	7726-1	975	UST	0.9 / 0.45
Golf Course Wash Rack	Water/POL	7726-2	979	UST	1.25 / 2.50
Golf Course Wash Rack	Water/POL	7726-3	980	UST	1.25 / 2.50
Kelley Barracks Gas Station	Water/POL	7737-6	3324	UST	2.5 / 5.0
Kelley Barracks Car Wash	Water/POL	7737-2	3393	UST	3.0 / 6.0
Panzer Kaserne Wash Rack	Water/POL	7725-12	2930	UST	1.25 / 2.5
Panzer Kaserne Wash Rack	Water/POL	7725-3	2935	UST	2.5 / 5.0
Panzer Kaserne Gas Station	Water/POL	7725-7	2953	UST	2.5 / 1.2
Panzer Kaserne Wash Rack	Water/POL	7725-(new)	2958	UST	2.5 / 3.73
Panzer Kaserne Parking Lot	Water/POL	7725-4	2966	UST	45.0 / 17.2
Panzer Kaserne Wash Rack	Water/POL	7722-10	2969	UST	5.0 / 2.5
Patch Barracks Gas Station	Water/POL	7727-4	2349	UST	2.50 / 5.00
Patch Barracks Car Wash	Water/POL	7727-10	2384	UST	1.25 / 2.5
Stuttgart Army Airfield Wash Rack	Water/POL	7722-1	3217	UST	1.25 / 2.5
Stuttgart Army Airfield Wash Rack	Water/POL	7722-2	3226	UST	3.0 / 1.5
Stuttgart Army Airfield Abandoned Vehicle Lot	Water/POL	7722-3	3241	UST	2.54 / 5.0

6.0 MEASURES TO CONTROL TOXIC ORGANIC POLLUTANTS AND SOLVENTS

The following measures must be followed when handling or storing toxic organic pollutants and solvents:

- Storage areas for organic toxic pollutants and solvents must be well lit. Lights must not heat the stored materials and must be at least 0.5 meters from toxic organic pollutants.
- Smoking, open flames, and fires are not permitted in areas where toxic organic pollutants or solvents are stored or handled.
- Toxic organic pollutants cannot be stored together with flammable materials if they are not separated from each other by e.g., adequate secondary containment.
- Toxic organic pollutants and solvents must be kept in closed packages or containers that do not leak.
- Areas, where toxic organic pollutants and solvents are stored or handled, must be leak-proof.

APPENDIX 7

THE RED PLAN

Red Plan

In the event of a spill of POL and/or HS, this Red Plan serves as an immediate action tool to initiate the correct response at the earliest possible time. The Spill Prevention and Response Plan (SPRP) reinforces this Red Plan and provides in-depth information on spill prevention, response, notification, and cleanup procedures.

INITIAL SPILL RESPONSE ACTION LIST

If it is a MINOR SPILL: clean up immediately, collect contaminated material, and contact:
Environmental Division*, DSN 596-6135/131 or CIV 09641-70596-6135/131

It is a SIGNIFICANT SPILL if the spilled material:

- **Exceeds 110 gal. liquid or 500 lb. solid**
- **Enters or threatens to enter water**
- **Is a safety or environmental threat**

***Outside of duty hours contact the Garrison Fire Department DSN 112 or 421-2085; CIV 0711-729-112 and they will contact the Emergency helpdesk at 115 or 596 6200**

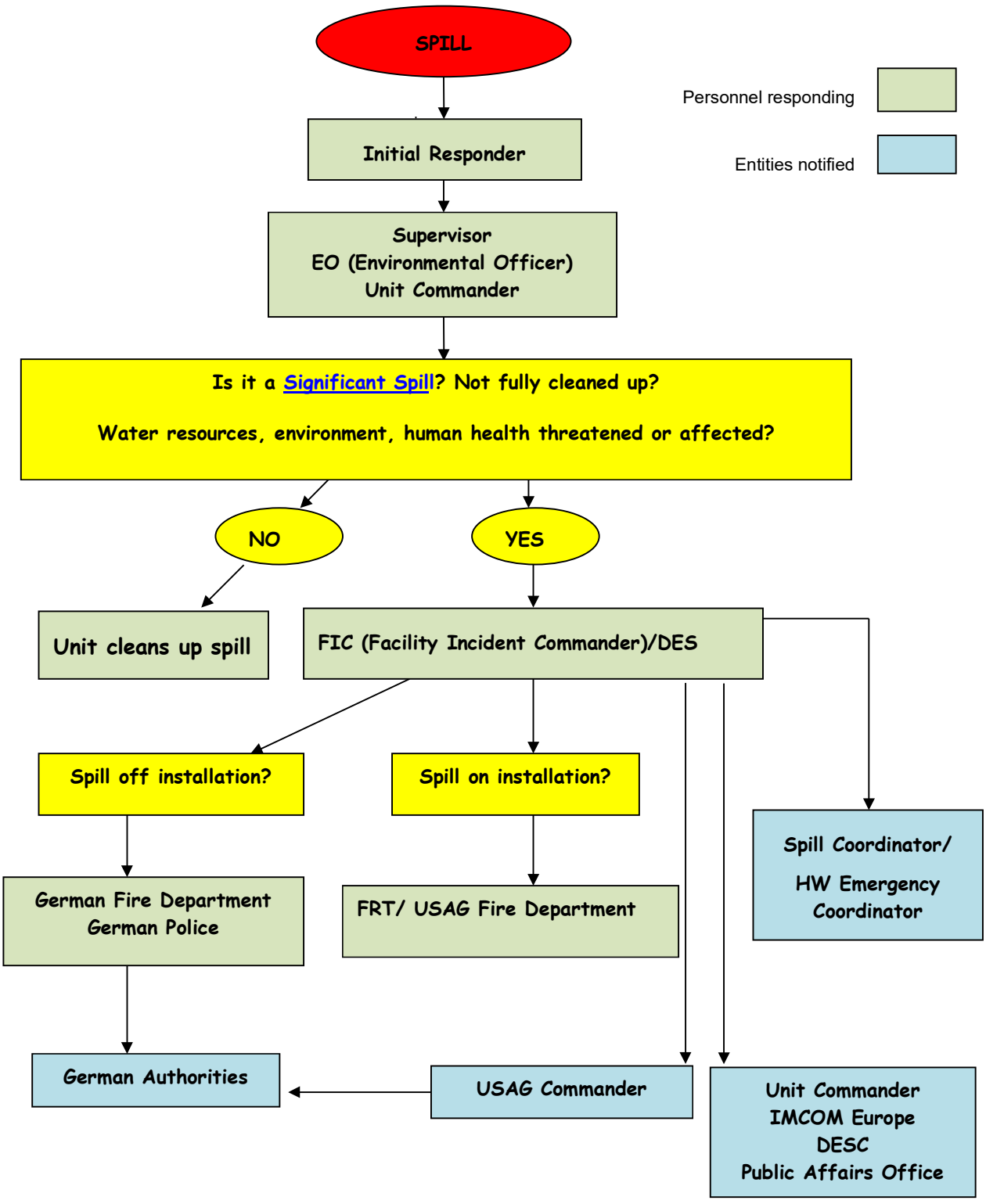
If it is a SIGNIFICANT SPILL do the following:

1. Report the Spill	**Call Garrison Fire Department** **DSN 112 or 421-2085; CIV 0711-729-112** **Report the following:** **Initial responder name and phone number, location, type/quantity of spilled material, injured persons.**
2. Safe Actions	**What is it, how can it hurt me, and what safe actions are possible?** **Check SDS of spilled material.** **Take safe, no-contact simple actions to help injured people.** ***Safe actions may not be possible.***
3. Stop the Leak	**Wear protective equipment.** **If there is no safety risk:** **Close valves, stop pumps, shut down power.** **Don't get into contact with material or breathe in vapors. Put proper controls in place to limit entry to storm drains or retention basins.**
4. Control and Contain	**Only if possible, without endangering yourself:** **Keep the spill from spreading; use Spill Response materials.**

FACILITY RESPONSE TEAM ACTION LIST

FOR SIGNIFICANT SPILLS / EMERGENCIES

Follow the Spill Plan	• Obtain personnel and equipment. • Determine installation/unit information
Determine Safe Actions	• Evaluate material, hazards, evacuation needs. • Determine extent, migration, weather. • Provide personal protective equipment. • Determine safe actions and set up team.
Rescue and Evacuate	• Determine threatened areas and populations. • Determine safe distances, safe refuge, evacuation routes. • Activate evacuation personnel and provide for medical treatment needs.
Protect Humans and Animals	• Suppress airborne hazards: vapors, gas, and dust. • Notify affected workers, residents. • Control access to the spill site and threatened areas.
Prevent/Control Fire, Explosions	• Assess existing/potential fires or explosion hazards. • Exercise caution with POLs and flammables. • Control ignition sources and fuels. • Properly handle fire water runoff.
Set Envir. Protection Priorities	• Protect drinking water resources. • Wastewater Treatment Plants. • Critical or sensitive ecological areas.
Prevent Material Spread	• Stop or slow the release. • Set up containments, diversions, and surface impoundments. • Transfer materials to safe storage.
Address Non-Critical Priorities	• Recover human and animal victims. • Recover property and equipment in immediate danger. • Prevent property and equipment damage. • Dispose of spilled materials.


SPILL
Personnel responding
Initial Responder
Entities notified
Supervisor
EO (Environmental Officer)
Unit Commander
Is it a Significant Spill? Not fully cleaned up?
Water resources, environment, human health threatened or affected?
NO
YES
Unit cleans up spill
FIC (Facility Incident Commander)/DES
Spill off installation?
Spill on installation?
Spill Coordinator/
HW Emergency
Coordinator
German Fire Department
German Police
FRT/ USAG Fire Department
German Authorities
USAG Commander
Unit Commander
IMCOM Europe
DESC
Public Affairs Office

POINTS OF CONTACT

Table A- 7.1: Points of Contact

Position/Title/Activity	Name	Organization/ Location	Telephone No. (Work)
Facility Response Team (FRT) US Fire Department [1]		Bldg. 3254, Stuttgart Army Airfield	DSN 112 CIV 0711-729-112
Military Police[1] (Provost Marshal Office)	MP Desk	DES, Bldg. 2949 Panzer Kaserne	DSN 112 CIV 07031-15-3102 CIV 0711-680-5262
POC for FRT, Chief Fire Department [1]	Michael Ambacher	DES, Bldg. 3180 Panzer Kaserne	DSN 596-3830 CIV 09641-70-596-3830
Facility Incident Commander (FIC) [1]	Director of Emergency Services	DES, Bldg. 3180 Panzer Kaserne	DSN 596-3083 CIV 07031-15-3083
Service desk for after duties emergencies	Base maintenance Contractor	Building 3320, Kelley Barracks	DSN 596-6200 CIV 09641-70596-6200
German Fire Department		City of Stuttgart	CIV 112 CIV 0711-21670
German Police Department	Kelley Barracks Patch Barracks Panzer Kaserne Robinson Barracks Stuttgart Army Airfield	Möhringen Vaihingen Böblingen Kornwestheim Echterdingen	CIV 110 CIV 0711-89903400 CIV 07042-9410 CIV 07031-132500 CIV 07154-13130 CIV 0711-903770
USAG Commander	COL G. Kirk Alexander	Bldg. 2949, Panzer Kaserne	DSN 596-1300 CIV 09641-70596-1300
USAG Spill Coordinator	Therese Mundorff	DPW, ED Bldg. 3318, Kelley Barracks	DSN 596-6135 CIV 09641-70596-6135
Hazardous Waste (HW) Emergency Coordinator	Therese Mundorff	DPW, ED Bldg. 3318, Kelley Barracks	DSN 596-6135 CIV 09641-70596-6135
Environmental Division, Chief	Anja Emmenecker	DPW, ED Bldg. 3318, Kelley Barracks	DSN 596-6131 CIV 09641-70596-6131
Domestic Wastewater System Coordinator	Vacant, POC Salam Othman	DPW, O&M Bldg. 3318, Kelley Barracks	DSN 596-6250 CIV 09641-70596-6250
DPW Operations & Maintenance (O&M) Division	Salam Othman	DPW, O&M Bldg. 3318, Kelley Barracks	DSN 596–6250 CIV 09641-70596-6250

Position/Title/Activity	Name	Organization/ Location	Telephone No. (Work)
Public Affairs Office (PAO)		Bldg. 2949, Panzer Kaserne	DSN 596-1400 CIV 09641-70596-3105
Local Hospitals	Kelley Barracks and Patch Barracks	Katharinenhospital Kriegsbergstr. 60 70174 Stuttgart Marienhospital Boeheimstr. 37 70199 Stuttgart	CIV 0711-278-01 CIV 0711-6489-0
	Panzer Kaserne	Klinken Böblingen Bunsenstr. 120 71032 Böblingen	CIV 07031-668-0
	Robinson Barracks	Robert-Bosch-Krankenhaus Auerbachstr. 110 70376 Stuttgart	CIV 0711-8101-0
	Stuttgart Army Airfield	Filderklinik Im Haberschlai 7 70794 Filderstadt	CIV 0711-7703-0
	Kornwestheim Golf Course	Klinikum Ludwigsburg Posilipostr. 4 71638 Ludwigsburg	CIV 07141-9990 CIV 07141-9966699 (central emergency room)
District Fire Chief	Hr. Lieb Hr. Plischek Hr. Kenner Hr. Dorroch	Stuttgart Böblingen Esslingen Ludwigsburg	CIV 0711-90411620 CIV 07031-663-1345 CIV 0173-325-4688 CIV 07141-144-43410
District Disaster Protection Services	Hr. Lieb Hr. Plischek Hr. Kenner Hr. Ladenburger	Stuttgart Böblingen Esslingen Ludwigsburg	CIV 0711-90411620 CIV 07031-663-1345 CIV 0173-325-4688 CIV 07141-144-42616
German Environmental Agency / Water Authority	Hr. Schwenk	Amt für Umweltschutz/ Untere Wasserbehörde Gaisburgstr. 4 70182 Stuttgart	CIV 0711-216-88424

[1] Must be reachable 24 hours per day.

APPENDIX 8

ALARMPLAN

(RED PLAN GERMAN VERSION)

Alarmplan

Im Falle eines Unfalls mit Gefahrstoffen auf einer Liegenschaft dient der vorliegende Alarmplan als Soforthilfsmittel, um die erforderlichen Gegenmaßnahmen zum frühestmöglichen Zeitpunkt in die Wege zu leiten. Der SPRP ergänzt den Alarmplan und bietet weitergehende Informationen über die Vermeidung, Bekämpfung, Meldung und Beseitigung von Gefahrstoffunfällen.

Abb. 1

HANDLUNGSANWEISUNG FÜR ERSTHELFER

Sind die ausgetretenen Mengen gering: sofort beseitigen, kontaminiertes Material sammeln, kontaktieren:

Environmental Division*: 596-6135/131 oder 09641-70596-6135/131

Es ist ein SIGNIFIKANTER GEFAHRSTOFFUNFALL:

- **Wenn mehr als 417 l oder 225 kg ausgetreten sind**
- **Wenn es möglich ist, dass Gewässer verunreinigt werden**
- **Wenn ein Sicherheits- oder Umweltrisiko besteht**

***Außerhalb der Dienstzeiten kontaktieren Sie die Garrison Feuerwehr DSN 112 oder 421-2085; CIV 0711-729-112, die sich mit der Notrufzentrale unter 115 oder 596 6200 in Verbindung setzen wird.**

1. Unfall melden	**Garrison Feuerwehr anrufen** **DSN 112 oder 421-2085; CIV 0711-729-112** **Folgende Informationen geben:** **Ersthelfer Name und Tel Nr., Ort,** **Art/Menge des ausgetretenen Stoffes,** **verletzte Personen**
2. Sicherheitsmaßnahmen	**Was ist es, wie kann es mir schaden, welche sicheren Maßnahmen sind möglich?** **Sicherheitsdatenblatt des freigesetzten Stoffes prüfen.** **Sichere, kontaktfreie, einfache Maßnahmen ergreifen, um verletzten Personen zu helfen.** ***Eventuell sind keine Sicherheitsmaßnahmen möglich.***
3. Leckage stoppen	**Schutzkleidung anlegen.** **Nur ohne Sicherheitsrisiko:** **Ventile schließen, Pumpen stoppen, Strom abschalten. Nicht in Berührung mit dem Stoff kommen oder dessen Dämpfe einatmen. Ausreichende Kontrollen einführen, um den Eintritt in Regenwasserkanäle oder Rückhaltebecken zu begrenzen.**
4. Kontrollieren und Auffangen	**Falls ohne Selbstgefährdung möglich:** **Ausbreitung des Gefahrstoffes verhindern;** **Notfallausrüstung benutzen**

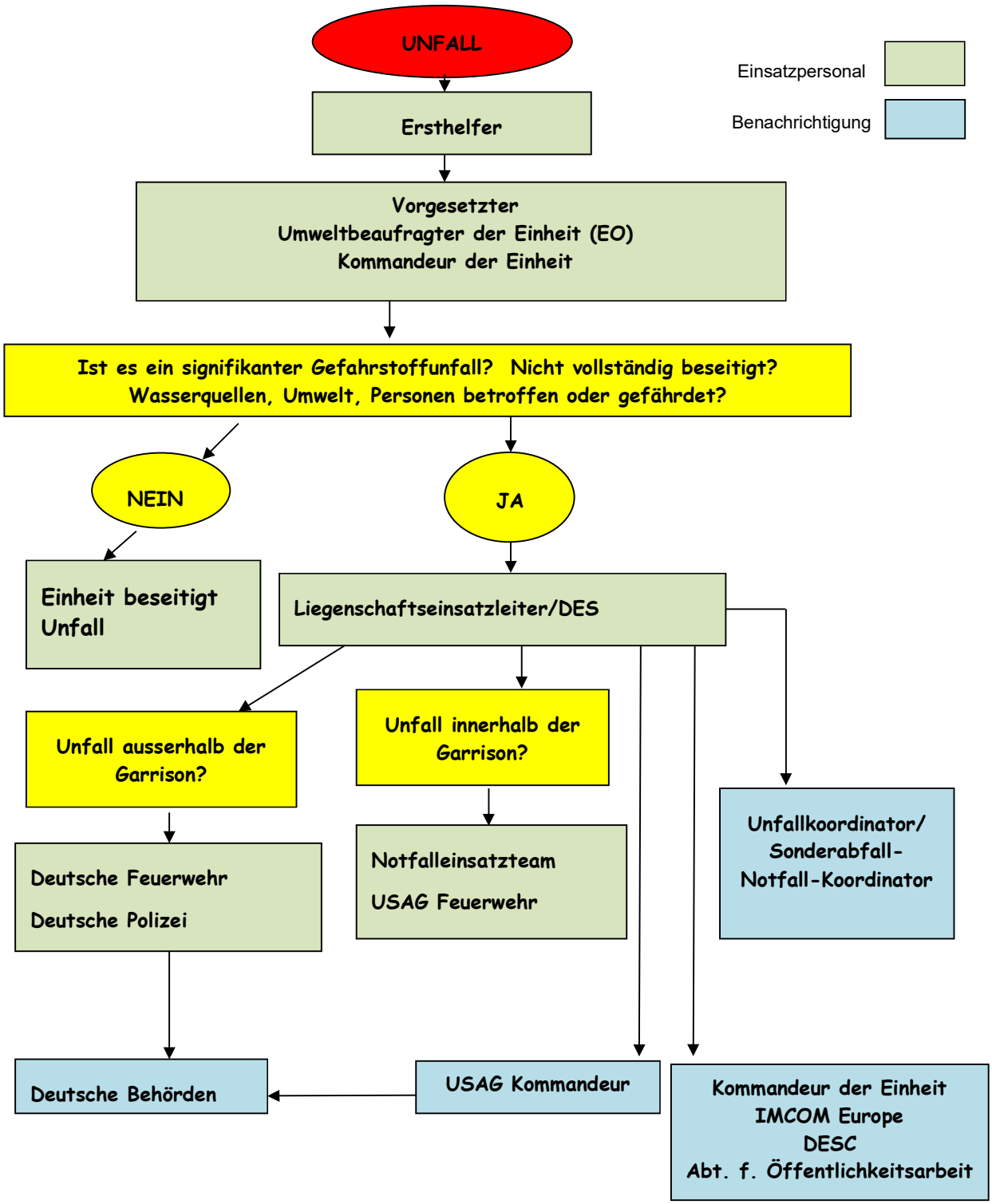
Abb. 2

HANDLUNGSANWEISUNG FÜR NOTFALLEINSATZTEAM BEI SIGNIFIKANTEN UNFÄLLEN

Spill Plan befolgen	• Personal und Ausrüstung beschaffen • Liegenschafts- o. einheitsspez. Informationen ermitteln
Sichere Maßnahmen festlegen	• Stoff, Gefahren und Bedarf an Evakuierung beurteilen • Ausmaß, Ausbreitung, Wetter erfassen • Persönliche Schutzausrüstungen bereitstellen • Sichere Maßnahmen ermitteln und Team zusammenstellen
Retten und Evakuieren	• Gefährdete Bereiche und gefährdete Personen erfassen • Sicherheitsabstände, sichere Zufluchtsorte und Evakuierungsrouten ermitteln • Evakuierungspersonal aktivieren und medizinische Hilfe bereitstellen
Menschen und Tiere schützen	• In der Luft befindliche Gefahrstoffe – Dämpfe, Gase, Staub - eindämmen • Betroffene Arbeiter, Anwohner benachrichtigen • Zugang zum Unfallort und gefährdeten Bereichen kontrollieren
Feuer und Explosionen verhindern, unter Kontrolle halten und eindämmen.	• Vorhandene/potenzielle Feuer- oder Explosionsgefahren beurteilen • Vorsicht im Umgang mit Mineralölprodukten und brennbaren Stoffen • Zündquellen und Kraftstoffe überwachen • Sachgemäßen Umgang mit ablaufendem Löschwasser berücksichtigen
Prioritäten für den Schutz der Umwelt setzen	• Trinkwasserquellen schützen • Ökologisch empfindliche oder kritische Bereiche schützen • Den Ablauf über die Kanalisation verhindern
Ausbreitung der Stoffe verhindern	• Freisetzung stoppen oder verlangsamen • Auffangeinrichtungen, Ableitungen und Auffanggruben errichten • Stoffe einer sicheren Lagerung zuführen
Maßnahmen geringer Priorität ausführen	• Betroffene Personen und Tiere bergen • Ausrüstung und Gegenstände in unmittelbarer Gefahrenzone bergen • Ausrüstung und Gegenständen vor Schäden schützen • Ausgetretene Stoffe entsorgen

Abb. 3

GEFAHRSTOFFUNFALL ERSTEINSATZ UND MELDUNG



KONTAKTPERSONEN

Table A- 8.1: Kontaktliste

Position/Titel	Name	Organisation/ Adresse	Telefonnummer (Geschäftlich)
Notfalleinsatzteam US Feuerwehr [1]		Geb. 3254, Stuttgart Army Airfield	DSN 112 CIV 0711-729-112
USAG Militär Polizei [1]	MP Büro	DES, Bldg. 2949 Panzer Kaserne	DSN 112 CIV 07031 15 3102 CIV 0711-680-5262
Leiter Notfalleinsatzteam[1] Feuerwehrchef	Michael Ambacher	DES, Bldg. 3180 Panzer Kaserne	DSN 596 3830 CIV 09641 70596 3830
Liegenschafts-einsatzleiter[1]	Director of Emergency Services	DES, Bldg. 3180 Panzer Kaserne	DSN 596 3830 CIV 09641 70596 3083
Notfallmeldestelle außer-halb der Dienstzeiten	Wartungsfirma auf der Base	Building 3320, Kelley Barracks	DSN: 596-6200 CIV: 09641-70596-6200
Deutsche Feuerwehr		Stadt Stuttgart	CIV 112 CIV 0711-21670
Deutsche Polizei	Kelley Barracks Patch Barracks Panzer Kaserne Robinson Barracks Stuttgart Army Airfield	Möhringen Vaihingen Böblingen Kornwestheim Echterdingen	CIV 110 CIV 0711-89903400 CIV 07042-9410 CIV 07031-132500 CIV 07154-13130 CIV 0711-903770
USAG Kommandeur	COL G. Kirk Alexander	Geb. 2949, Panzer Kaserne	DSN 596-1300 CIV 09641-70596-1300
USAG Unfallkoordinator	Therese Mundorff	DPW, Umweltabt. Geb. 3318, Kelley Barracks	DSN 596-6135 CIV 09641-70596-6135
Sonderabfall-Notfallkoordinator	Therese Mundorff	DPW, Umweltabt. Geb. 3318, Kelley Barracks	DSN 596-6135 CIV 09641-70596-6135
DPW, Umweltabteilung, Leiter	Anja Emmenecker	DPW, Umweltabt. Geb. 3318, Kelley Barracks	DSN 596-6131 CIV 09641-70596-6131
Koordinator für das örtliche Abwassersystem	Vacant, POC Salam Othman	DPW, O&M Geb. 3318, Kelley Barracks	DSN 596-6250 CIV 09641-70596-6250

Position/Titel	Name	Organisation/ Adresse	Telefonnummer (Geschäftlich)
DPW, Operations & Maintenance (O&M) Division	Salam Othman	DPW, O&M Geb. 3318, Kelley Barracks	DSN 596–6250 CIV 09641-70596-6250
Public Affairs Office (PAO)		Geb. 2949, Panzer Kaserne	DSN 596-1400 CIV 09641-70596-3105
Krankenhäuser	Kelley Barracks und Patch Barracks	Katharinenhospital Kriegsbergstr. 60 70174 Stuttgart Marienhospital Boeheimstr. 37 70199 Stuttgart	CIV 0711-278-01 CIV 0711-6489-0
	Panzer Kaserne	Klinken Böblingen Bunsenstr. 120 71032 Böblingen	CIV 07031-668-0
	Robinson Barracks	Robert-Bosch-Krankenhaus Auerbachstr. 110 70376 Stuttgart	CIV 0711-8101-0
	Stuttgart Army Airfield	Filderklinik Im Haberschlai 7 70794 Filderstadt	CIV 0711-7703-0
	Kornwestheim Golf Course	Klinikum Ludwigsburg Posilipostr. 4 71638 Ludwigsburg	CIV 07141-9990 CIV 07141-9966699 (Notfall)
Kreisbrandmeister	Hr. Lieb Hr. Plischek Hr. Kenner Hr. Dorroch	Stuttgart Böblingen Esslingen Ludwigsburg	CIV 0711-90411620 CIV 07031-663-1345 CIV 0173-325-4688 CIV 07141-144-43410
Katastrophenschutz	Hr. Lieb Hr. Plischek Hr. Kenner Hr. Ladenburger	Stuttgart Böblingen Esslingen Ludwigsburg	CIV 0711-90411620 CIV 07031-663-1345 CIV 0173-325-4688 CIV 07141-144-42616
Umweltamt/Untere Wasserbehörde	Hr. Schwenk	Amt für Umweltschutz Gaisburgstr. 4 70182 Stuttgart	CIV 0711-216-88424

[1] Müssen 24 Std. täglich erreichbar sein.

APPENDIX 9

REGULATORY HOST NATION REQUIREMENTS

REGULATORY HOST NATION REQUIREMENTS (according to German regulation for handling of substances that are hazardous to water – AwSV)

The following text provides short excerpts of the most relevant paragraphs of the AwSV. For further details, please refer to the original document.

§44 Operating instructions; instruction sheet

(1) The operator shall keep operating instructions to hand which contain monitoring, maintenance and emergency plans and stipulate urgent measures to prevent detrimental changes to the characteristics of bodies of water. (…). The operator shall ensure compliance with the operating instructions and also that they are kept up to date.

(2) The facility's operating personnel must then be instructed on how to conduct themselves according to the operating instructions before commencing work and at appropriate intervals on a regular basis thereafter, but at least once a year. The operator must then document that the instruction has been carried out.

(3) The operating instructions must be accessible to the facility's operating personnel at all times.

(4) Paragraphs 1 to 3 shall not apply to

1. facilities in hazard level A,

2. petrol stations for own consumption,

3. fuel oil consumer installations,

4. facilities for handling floating liquid substances with a volume of up to 100 m3 and

5. facilities containing up to 1 000 tons of solid mixtures.

Instead, in the case of facilities as per sentence 1 point 3, the instruction sheet on operating regulations and the code of conduct when operating fuel oil consumer installations as per Appendix 3 and, in the case of facilities as per sentence 1 points 1, 2, 4 and 5, the instruction sheet on operating regulations and the code of conduct when handling substances that are hazardous to water as per Appendix 4, must be permanently displayed in an easily visible location in the vicinity of the facility. The affixing of the instruction sheet as per Appendix 4 can be dispensed with if the information stipulated therein is documented by other means in the vicinity of the facility such that it is easily visible. In the case of facilities for utilizing substances that are hazardous to water in hazard level A which are operated outdoors outside of municipalities, it shall suffice to display a telephone number in an easily visible location that can be used to alert people to operational malfunctions.

§45 Obligation to employ a specialist company; exemptions

(1) The following facilities, including all the parts thereof, may only be erected, cleaned internally, repaired and decommissioned by specialist companies in accordance with § 63:

1. underground facilities;

2. aboveground facilities for handling liquid substances that are hazardous to water in hazard levels C and D;

3. aboveground facilities for handling liquid substances that are hazardous to water in hazard level B within water protection areas;

4. fuel oil consumer installations in hazard levels B, C and D;

5. biogas facilities;

6. facilities for handling intermodal transport; and

7. facilities for handling floating liquid substances pursuant to § 3(2) sentence 1 point 7.

(2) By way of deviation from paragraph 1, work on facilities or parts thereof, which is not of direct importance for the safety of the facility, does not have to be performed by specialist companies.

§46 Operator's monitoring and inspection duties

(1) The operator must inspect the imperviousness of the facility and the functionality of the safety devices at regular intervals. (…).

(2) Operators must arrange for facilities located outside of protected areas and defined or provisionally secured flood plains to be inspected to ensure that they are in proper working order at inspection times and intervals established in accordance with Appendix 5.

(3) Operators must arrange for facilities located inside protected areas and in defined or provisionally secured flood plains to be inspected to ensure that they are in proper working order at inspection times and intervals established in accordance with Appendix 6.

(4) The competent authority may order a one-off inspection or recurrent inspections, (…).

(5) Operators must arrange for facilities in which a significant or hazardous defect has been detected in accordance with § 48(2) to be reinspected once the defect has been rectified in accordance with § 49(1).

More details are described in sections (6) to (7) of §46 AwSV.

§47 Inspection by experts

(1) Inspections as per § 47(2) to (5) may only be conducted by experts.

(2) The expert must classify the facility based on the outcome of the inspections in accordance with § 47 into one of the following classes:

1. free from defects,
2. with minor defects,
3. with significant defects or
4. with hazardous defects.

(3) The expert must submit an inspection report to the competent authority on the outcome of each inspection he has conducted in accordance with § 47 within 4 weeks of the date of the inspection. The expert shall inform the competent authority of any hazardous defects forthwith. (…)

(4) If, once the inspection is complete, the expert classifies a fuel oil consumer installation as being 'free from defects' or 'with minor defects' in accordance with paragraph 2, he shall affix a sticker to the facility in an easily visible location which indicates the date the inspection was carried out and the date of the next one.

(5) While inspecting a fuel oil consumer installation, the expert shall hand over to the operator the instruction sheet as per Appendix 3 if such an instruction sheet has not already been displayed on the facility.

§48 Rectification of defects

(1) If the inspections as per § 47 which have been carried out by an expert reveal minor defects, the operator must rectify these defects within 6 months and, if required in accordance with § 46, must have said defects eliminated by a specialist company pursuant to § 63. Significant and hazardous defects must be eliminated forthwith, however.

(2) If the expert detects a hazardous defect within the meaning of § 48(2) point 4 during his inspection in accordance with § 47, the operator must shut down the facility straight away and, if this is deemed necessary on the basis of an assessment by the expert, drain it. The facility may only be put back into operation if the competent authority is in receipt of confirmation from the expert that the defects have been remedied successfully.

§49 Requirements pertaining to facilities in protected areas

(1) Facilities may not be erected and operated within the coverage area and the narrower zone of protected areas.

More details about facilities that may not be established (or expanded if already existing) in the broader zone of protected areas are described in sections (2) and (3) of §49 AwSV

(4) The competent authority may issue an exemption from the requirements (…).

(5) Paragraphs 2 and 3 shall not apply if Federal State ordinances on defining protected areas lay down more extensive regulations.

AwSV Appendix 5 (re § 47(2)) and **Appendix 6** (re § 47(3))

Inspection times and intervals for facilities

	Appendix 5 - facilities outside protected areas and defined or provisionally secured flood plains				Appendix 6 - facilities in protected areas and defined or provisionally secured flood plains			
	Facilities[1), 2)]	Inspection times and intervals			Facilities[1), 2)]	Inspection times and intervals		
	Column 1	Column 2	Column 3	Column 4	Column 1	Column 2	Column 3	Column 4
Row 1		Prior to commissioning [3)] or following a significant alteration	Recurrent inspection [4), 5)]	Upon decommissioning of a facility		Prior to commissioning [3)] or following a significant alteration	Recurrent inspection [4), 5)]	Upon decommissioning of a facility
Row 2	Underground facilities with liquid or gaseous substances that are hazardous to water	A, B, C and D	A, B, C and D every 5 years	A, B, C and D	Underground facilities with liquid or gaseous substances that are hazardous to water	A, B, C and D[3)]	A, B, C and D every 30 months[4)]	A, B, C and D
Row 3	Aboveground facilities with liquid or gaseous substances that are hazardous to water, including fuel oil consumer installations	B, C and D	C and D every 5 years	C and D	Aboveground facilities with liquid or gaseous substances that are hazardous to water, including aboveground fuel oil consumer installations	B, C and D	B, C and D every 5 years	B, C and D
Row 4	Facilities with solid substances that are hazardous to water	In excess of 1 000 t	Underground facilities and outdoor facilities in excess of 1 000 t, every 5 years	Underground facilities and outdoor facilities in excess of 1 000 t	Facilities with solid substances that are hazardous to water	In excess of 1 000 t	Underground facilities and outdoor facilities in excess of 1 000 t, every 5 years	Underground facilities and outdoor facilities in excess of 1 000 t
Row 5	Facilities for handling substances that are hazardous to water in intermodal transport	In excess of 100 t of substances handled every working day	Facilities with over 100 t of substances handled every working day, every 5 years	Facilities with over 100 t of substances handled every working day	Facilities for handling substances that are hazardous to water in intermodal transport	In excess of 100 t of substances handled every working day	In excess of 100 t of substances handled every working day, every 5 years	In excess of 100 t of substances handled every working day
Row 6	Facilities with floating liquid substances	In excess of 100 m^3	In excess of 1 000 m^3, every 5 years	In excess of 1 000 m^3	Facilities with floating liquid substances	In excess of 100 m^3	In excess of 1 000 m^3, every 5 years	In excess of 1 000 m^3
Row 7	Biogas facilities in which fermentation substrates as per § 2(8) are used exclusively [6)]	In excess of 100 m^3	In excess of 1 000 m^3, every 5 years	In excess of 1 000 m^3	Biogas facilities in which fermentation substrates as per § 2(8) are used exclusively [6)]	In excess of 100 m^3	In excess of 1 000 m^3, every 5 years	In excess of 1 000 m^3
Row 8	Facilities for drawing off and handling, and facilities for loading and unloading ships	B, C and D	B every 10 years; C and D every 5 years	B, C and D	Facilities for drawing off and handling, and facilities for loading and unloading ships	B, C and D	B, C and D, every 5 years	B, C and D

[1)] Letters A, B, C and D used in the table relate to the hazard levels of the facilities to be inspected pursuant to § 40(1).

[2)] The data relating to volume and mass included in the table relate to the decisive volume or mass of the substances that are hazardous to water (§ 40) which are handled in the facility.

[3)] The commissioning test and inspection following a significant alteration of facilities for drawing off and handling includes a repeat examination of the areas used for drawing off or handling after 1 year of operation. The repeat examination does not defer the date of completion of the inspection prior to commissioning.

[4)] The deadlines for the recurrent inspections begin with the completion of the inspection prior to commissioning or following a significant alteration as per column 2.

[5)] In order to maintain the deadlines for the recurrent inspections, it is sufficient to perform the inspections by the end of the month in which they are due.

[6)] The decisive volume of a biogas facility within the meaning of § 40( ).

APPENDIX 10

EVACUATION PLAN TEMPLATE

EVACUATION PLAN

The following example of an evacuation plan, along with one or more escape route maps, are posted in several conspicuous locations in and around each storage area.

Building No._____ Evacuation Plan

Facility/Location Name:	
Evacuation Signals:	
Primary Evacuation Route:	
Alternate Evacuation Route:	
Designated Meeting Place Following Evacuation:	
Emergency Telephone Numbers	
USAG Fire Department:	**DSN 112** **CIV 0711-729-112**
German Fire Department:	**CIV 112**
Medical Emergency:	**CIV 112**
Military Police:	**DSN 114; CIV 07031-15-3102**
German Police:	**CIV 110**
Facility Incident Commander:	**DSN 596-3083** **CIV 09641-70596-3083**
USAG Spill Coordinator:	**DSN 596-6135** **CIV 09641-70596-6135**
DPW, Environmental Division:	**DSN 596-6131** **CIV 09641-70596-6131**
USAG Commander:	**DSN 596-1300** **CIV 07031-15-1300**
Instructions for Turning Off Power and Water:	
Fire Extinguisher Locations:	
Evacuation Instructions:	

APPENDIX 11

PAST SPILL REPORTS

Table A- 11.1: Summary of Past Spill Events

Date	Location	Material	Amount	Impact to Navigable Water?
7/19/2021	SAAF Position 901 Stuttgart Army Airfield DD 09107	Jet Fuel	750 L	No
11/4/2022	Parking lot (in front of Fire Station-1 / Base-OPS) 2354 Army Airfield Stuttgart DD 09107	Hydraulic Oil	15 L	No
8/2/2023	Patch Commissary Parking Lot 2350 Ohio Strasse ST Patch Barracks DD 09107	Gasoline	10-15 Gallons	No

USAG Stuttgart Station: **31** Shifts Or Platoon: **C-Shift**	Location: **Saaf Position 901** **Stuttgart Army Airfield DD 09107** Zone: **1 - AF SAAF** Location Type: **1 - Street address**	Incident Type: **410 - Combustible/flammable gas/liquid condition, other** FDID: **A4002** Incident #: **2021-243** Exposure ID: **37755573** Exposure #: **0** Incident Date: **07/19/2021**

Report Completed by:	Ambacher , Michael	**ID:**	**Date:** 07/20/2021
Report Reviewed by:	Ambacher , Michael	**ID:**	**Date:** 07/20/2021
Report Printed by:	Ambacher, Michael	**ID:**	**Date:** 7/20/2021 **Time:** 13:23

Structure Type:	Property Use: **974 - Aircraft loading area**				
Automatic Extinguishment System Present: ☐	Detectors Present: ☐	Cause of Ignition:			
Aid Given or Received: **Mutual aid received**	Primary action taken: **44 - Hazardous materials leak control & containment**				
Losses	**Pre-Incident Values**				
Property:	Property:	Civilian Injuries:	**0**	Fire Service Injuries:	**0**
Contents:	Contents:	Civilian Fatalities:	**0**	Fire Service Fatalities:	**0**
Total:	Total:	Total Casualties:	**0**	Total Fire Service Casualties:	**0**
Total # of apparatus on call:	**4**	Total # of personnel on call:	**8**		

Special Studies	
COVID 19 was a factor in this incident.	No, COVID 19 was not a factor.

Neighboring Agencies
Agency Name: Feuerwehr FSG
Agency ID: FSG-FW
Agency Type: Fire

NARRATIVE (1)

Narrative Title: n/a

Narrative Author: Hieber, Dietmar

Narrative Date: 07/19/2021 14:18:00

Narrative Apparatus ID: 31-25

Narrative:

11:50 hrs. 31-25 reported fuel leak on plane B 747, Airline National, # N952CA, on the right hand side wing during refuel operation.

NARRATIVE (2)

Narrative Title: Fire Control

Narrative Author: Hieber, Dietmar

Narrative Date: 07/19/2021 13:54:56

Narrative Apparatus ID: n/a

Narrative:

11:50 hrs. Fire Control Operator requested Stuttgart Airport Fire Department for assistance by Order of the Crew Chief.

NARRATIVE (3)

Narrative Title: Fire Control

Narrative Author: Hieber, Dietmar

Narrative Date: 07/19/2021 15:07:07

Narrative Apparatus ID: n/a

Narrative:

11:57 hrs. Fire Crew Boeblingen requested by Asst. Fire Chief.

NARRATIVE (4)

Narrative Title: Fire Control

Narrative Author: Hieber, Dietmar

Narrative Date: 07/19/2021 14:09:12

Narrative Apparatus ID: n/a

Narrative:

12:55 hrs. Environmental specialist on scene

NARRATIVE (5)

Narrative Title: Asst. Chief

Narrative Author: Ambacher, Michael

Narrative Date: 07/19/2021 15:22:08

Narrative Apparatus ID: 30-1

Narrative:

This alarm was for a reported Boeing 747 leaking fuel while being tanked. The amount of fuel that was leaking was quiet significant and Mutual aid was requested from the Airport Fire Department. US Fire crews began containment procedures and upon arrival of Host Nation they assisted with setting up a larger containment basin. Garrison Environmental was notified a Ms. Therese Mundorff as to the situation while as the fuel also leaked on to the grass area beside the tarmac. Once the fuel had stopped leaking Airport Fire department cleared the scene. The plane was

then towed on to the taxi way so that if any more fuel leaked it could be easier to clean up. US fire crews transferred all the spilled fuel (approx. 750+ liters) from the containment basins into 45 gallon drums to transport to environment division for disposal. All used equipment cleaned with Sorbix.

Command was terminated

APPARATUS

Unit	31-25	**Unit**	32-49
Type:	ARFF (aircraft rescue & firefighting)	**Type:**	Engine
Use:	Suppression	**Use:**	Suppression
Response Mode:	Lights and Sirens	**Response Mode:**	Lights and Sirens
# of People	2	**# of People**	3
Alarm	07 /19/2021 11:50:00	**Alarm**	07 /19/2021 11:57:00
Dispatched	07 /19/2021 11:50:00	**Dispatched**	07 /19/2021 11:57:00
Enroute	07 /19/2021 11:50:00	**Enroute**	07 /19/2021 11:58:00
Arrived	07 /19/2021 11:50:00	**Arrived**	07 /19/2021 12:12:00
Cancelled	-- /-- /-- -- : -- : --	**Cancelled**	-- /-- /-- -- : -- : --
Cleared Scene	07 /19/2021 15:27:00	**Cleared Scene**	07 /19/2021 15:35:00
In Quarters	07 /19/2021 15:30:00	**In Quarters**	07 /19/2021 16:52:00
In Service	07 /19/2021 15:30:00	**In Service**	07 /19/2021 16:52:00
Unit	31-74	**Unit**	30-1
Type:	Support apparatus, other	**Type:**	Chief officer car
Use:	Other	**Use:**	Other
Response Mode:	Lights and Sirens	**Response Mode:**	Lights and Sirens
# of People	1	**# of People**	1
Alarm	07 /19/2021 11:57:00	**Alarm**	07 /19/2021 11:57:00
Dispatched	07 /19/2021 11:57:00	**Dispatched**	07 /19/2021 11:57:00
Enroute	07 /19/2021 11:58:00	**Enroute**	07 /19/2021 11:58:00
Arrived	07 /19/2021 12:12:00	**Arrived**	07 /19/2021 12:12:00
Cancelled	-- /-- /-- -- : -- : --	**Cancelled**	-- /-- /-- -- : -- : --
Cleared Scene	07 /19/2021 15:35:00	**Cleared Scene**	07 /19/2021 15:35:00
In Quarters	07 /19/2021 16:52:00	**In Quarters**	07 /19/2021 16:52:00
In Service	07 /19/2021 16:52:00	**In Service**	07 /19/2021 16:52:00

Number Of People not on apparatus: 1

Member Making Report (C-6A Assistant Fire Chief Michael Ambacher):

NARRATIVE (1)

Narrative Title: FCC Report

Narrative Author: Wenzel, Jorrit

Narrative Date: 11/04/2022 19:27:53

Narrative Apparatus ID: E-1

Narrative:

Sir,

we got a call from Mrs. Kröpp (Base-Ops) that we have a truck on the parking lot in front of Station-1 (Stuttgart Army Airfield) that is losing oil and pieces of broken glass.

- **02:50pm**: The writer dispatch Daily-1 with 4 persons to the location
- **03:05pm**: Daily-1 is leaving station-1 without lights & sirens
- **03:06pm**: Daily-1 arrived on scene. Capt. Hennemann in command
- **03:11pm**: **Command:** cause of that oil spill is a broken hydraulic pipe on a trash loading crane from the AWB Böblingen (garbage company). Truck loses around 15 Liters of hydraulic oil. Crew start cleaning the parking lot with oil absorber.
- **03:19pm Command:** FD used already 6 bags of oil absorber and spread them around the garbage truck to prevent the oil from spreading further.
- **03:32pm Command:** request MP to incident location
- **03:35pm**: MP Desk confirmed request. Patrol 2-5 enroute to SAAF.
- **03:36pm**: The writer informed the Fire Chief about the incident
- **03:40pm Command:** The mechanic of the waste company arrived on scene and try to repair the oil pipe.
- **03:31pm Command:** FD is now on Stand-by until the mechanic has repaired the hydraulic pipe, and the driver is able to move the truck.
- **05:51pm Command:** Mechanic could fix the truck, so they can drive it away. Crew starts to clean up the parking lot. Engine-2 is also on scene to illuminate the incident location.
- **06:06pm Command:** oil absorber swept together with the employees of the garbage company. Most of it is disposed of by the garbage company itself. Parking lot also sprayed with Sorbix.
- **06:30pm Command:** disposed the used oil absorber at the hazmat storage on the Airfield. Engine-2 and Daily-1 back in service. heading now back to station. command terminated.

total consumed material:

6 x Oil Absorber (bag)

end of report

NARRATIVE (2)

Narrative Title: Parkplatz SAAF

Narrative Author: Hennemann, Hubert

Narrative Date: 11/04/2022 19:32:31

Narrative Apparatus ID: D-1

Narrative:

We were alerted to an oil spill in the parking lot across from the fire station by the dumpsters. The investigation revealed that the main hydraulic hose of the crane on a vehicle with the license plate number BB-AW2866 from the Waste Management Association in Böblingen tore while emptying the glass container and about 15-20 liters of hydraulic oil then leaked out. So the statement of the driver Mr. Semtürk Murettin. We have sprinkled the entire area under the vehicle and on the outside with oil binding agent, thus preventing the risk of the substance spreading. In addition, the MP was alerted to the scene to record the damage. the incident was reported by MP Spc. Andrew Harvey recorded. A workshop vehicle came from AWB BB to replace the broken hydraulic hose. However, this first had to be manufactured by a company for hydraulic hoses. Until this arrives, the use of the FD was interrupted until after the installation.

After the installation of the new hydraulic hose by the fitters of the AWB BB, we were able to pick up the contaminated oil binding agent together with the employees of the AWB and store it in the hazardous goods store on the airfield. The AWB took about 70% of the contaminated oil binding agent for disposal. The place of action was sprayed with Sorbix by FD. End of service for the fire brigade

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11/4/22, 7:13 PM USAG Stuttgart : 2022-507

USAG Stuttgart
Station: **1**
Shifts Or Platoon: **C-Shift**

Location: **Parking lot (in front of Fire Station-1 / Base-OPS** **2354 Army Airfield** **Stuttgart DD 09107** Zone: **1 - AF SAAF** Location Type: **3 - In front of**	Incident Type: **413 - Oil or other combustible liquid spill** FDID: **A4002** Incident #: **2022-507** Exposure ID: **37948483** Exposure #: **0** Incident Date: **11/04/2022**

Report Completed by:	**Not Completed**		
Report Reviewed by:	**Not Reviewed**		
Report Printed by:	Wenzel, Jorrit	**ID:**	**Date:** 11/4/2022 **Time:** 20:13

Structure Type:	Property Use: **965 - Vehicle parking area**	
Automatic Extinguishment System Present: ☐	Detectors Present: ☐	Cause of Ignition:
Aid Given or Received: **None**	Primary action taken:	**48 - Remove hazardous materials**

Losses	**Pre-Incident Values**				
Property:	Property:	Civilian Injuries:	**0**	Fire Service Injuries:	**0**
Contents:	Contents:	Civilian Fatalities:	**0**	Fire Service Fatalities:	**0**
Total:	Total:	Total Casualties:	**0**	Total Fire Service Casualties:	**0**

Total # of apparatus on call:	**2**	Total # of personnel on call:	**6**

Special Studies	
COVID 19 was a factor in this incident.	No, COVID 19 was not a factor.

CBII

https://army.ultrasecure.emergencyreporting.us/nfirs/print.asp?printtype=2&printtype=3&printtype=4&printtype=5&printtype=5b&printOption=1&printOp... 1/4

INCIDENT IMAGES

PERSONNEL ON CALL

Name	Personnel Rank	Role(s)	Apparatus
Flaig, Marcel	P-1 Firefighter	48 - Remove hazardous materials	D-1
Geissler, Dominik	P-3 Firefighter	57 - Provide light or electrical power, 58 - Drive / Operate apparatus or vehicle	E-2
Hennemann, Hubert I	P-5 Lead Firefighter	58 - Drive / Operate apparatus or vehicle, 81 - Incident command	D-1
Hieber, Dietmar	P-4 Dispatcher / Firefighter	92 - Standby	Other
Schmidt, Florian	P-1 Firefighter	48 - Remove hazardous materials	E-2
Wenzel, Jorrit	P-4 Dispatcher/Firefighter	82 - Notify other agencies.	Other

CBII

APPARATUS

Unit	D-1	**Unit**	E-2
Type:	Support apparatus, other	**Type:**	Engine
Use:	Other	**Use:**	Other
Response Mode:	No Lights or Sirens	**Response Mode:**	No Lights or Sirens
# of People	2	**# of People**	2
Alarm	11 /04/2022 15:00:00	**Alarm**	11 /04/2022 17:51:00
Dispatched	11 /04/2022 15:00:00	**Dispatched**	11 /04/2022 17:51:00
Enroute	11 /04/2022 15:03:00	**Enroute**	11 /04/2022 17:52:00
Arrived	11 /04/2022 15:05:00	**Arrived**	11 /04/2022 17:52:00
Cancelled	-- / -- / -- -- : -- : --	**Cancelled**	-- / -- / -- -- : -- : --
Cleared Scene	11 /04/2022 18:06:00	**Cleared Scene**	11 /04/2022 18:06:00
In Quarters	11 /04/2022 18:30:00	**In Quarters**	11 /04/2022 18:30:00
In Service	11 /04/2022 18:30:00	**In Service**	11 /04/2022 18:30:00

Number Of People not on apparatus: 2

VEHICLES

Vehicle

Make	MAN
Type	
Model	TGS
Color	
Vin Number	
Year	
License Plate Number	BB-AW 2866

Owner

Name	Abfallwirtschaftsbetrieb Landratsamt Böblingen
Phone Number	+4970316631550
Address	33 Wolf-Hirth-Strasse ST, Böblingen, 71034

Driver

Name	Semtürk Murettin
Phone Number	
Address	
License Number	***
Driver Is Owner	No
Driver Is Resident	Undetermined

Insurance

Company Name	Württembergische Gemeinde Versicherungs AG
Company Policy Number	
Company Coverage Level	
Agent Name	
Agent Phone Number	

Involvement

Law Enforcement Officer	MP Patrol 2-5 SPC Harvey
Police Report Or File Number	
Number Of Occupants	1
Number Of Injured Occupants	
Number Of Fatalities	
Disposable Equipment Used	

Narrative Text

Vehicle is a garbage collecting truck owned by the Böblingen County waste - management department cause for the oil spill was a broken hydraulic pipe from the container loading crane. Insurance Case Manager: MR Spengler Phone: +49 7031 6632661

PEOPLE -- PERSON 1

Is Owner	False	**Business Name**	SAAF Base-Ops
Telephone Number	421-311	**Involvement**	calltaker / Base OPS
Name	MRS Susanne Kropp	**Date of Birth**	
Address	3255 Army Airfield (SAAF) ST Stuttgart, DD 09107-		

CBII

NARRATIVE (2)

Narrative Title: IC

Narrative Author: Gissinger, Michael

Narrative Date: 08/03/2023 06:48:06

Narrative Apparatus ID: E-2

Narrative:

Sir,

this alarm was dispatched as an bigger gasoline spill at the Commisary Parking Lot, Bldg. #2350, Patch Barracks.

FCC dispatched E-2 to scene with lights and siren.

Upon arrival, the writer reported two MP cars on site, whose crew cordoned off the area around the affected vehicle.

I establish Command and proceed to investigate. E-2 crew waits for further instructions.

On scene IC found a bigger spill from gasoline, approx. 10 to 15 gal and a lane of gasoline running under surounded cars. There was also a heavy smell of gasoline. IC has a gas detector to measure the area to check if there are any explosive conditions. No explosive conditions found. E-2 crew placed a container under the car to collect the gasoline still dropping out of the car. Crew also starts to remove the spill with absorber and brooms. No gasoline run into the drain outlet.

German police support the vehicle owner by requesting a towing service.

Towing service arrived at 20:40, crew support while loading the vehicle.

After the car was removed the crew cleaned up the rest of the absorber. No further actions needed by FD.

Material in use:

- 1 bag of oil absorber
- one plastic bag
- two brooms
- one collection container

Command was terminated, E-2 return to the quarters.

APPARATUS

Unit	E-2
Type:	Engine
Use:	Suppression
Response Mode:	Lights and Sirens
# of People	4
Alarm	08 /02/2023 18:11:00
Dispatched	08 /02/2023 18:11:00
Enroute	08 /02/2023 18:14:00
Arrived	08 /02/2023 18:24:00
Cancelled	-- / -- / -- -- : -- : --
Cleared Scene	08 /02/2023 21:03:00
In Quarters	-- / -- / -- -- : -- : --
In Service	08 /02/2023 21:14:00

Number Of People not on apparatus: 1

CBII

NARRATIVE (1)

Narrative Title: CDOC Report

Narrative Author: Wenzel, Jorrit

Narrative Date: 08/02/2023 21:16:31

Narrative Apparatus ID: n/a

Narrative:

Sir,

the CDOC was informed by Mr. Mitchell that after he tried to start his Car in the Patch Commissary parking lot, its lost all of his fuel (gasoline). The writer dispatched Engine-2 to the scene and informed SC Dörfler via his duty cellphone. Before the FD arrived, 2 Patrol were protecting the area so no one would drive thru. After Engine-2 arrived, CC Gissinger established command and went on investigation. The first situation report the IC provides stated there were around 5,5 gallons of gasoline spilled around the car and have spread among the vehicles parked nearby. The Crew of Engine-2 started to clean up the Parking lot by using oil absorber, and the IC got in contact with the German police on scene to request them to order a towing truck to the scene.

- **06:11pm**: Alarm for Engine-2
- **06:14pm**: Engine-2 responding, Patch Gate is informed.
- **06:24pm**: Engine-2 arrived scene. CC Gissinger in command, MP with two patrols on scene. Begin investigation.
- **06:29pm IC**: Around 5,5 gallons of gasoline are spilled, begin with the cleaning measures now.
- **06:36pm IC**: German police on scene assist the vehicle owner to contact a towing service, Engine-2 stays on scene until the tow truck arrives.
- 08:40 pm IC: Towing truck now on scene
- 08:55pm IC: Car was loaded onto the tow truck
- 09:03 pm IC: Crew has cleaned up the Parking lot. Incident completed, command terminated, heading back to Station-2.

end of report

CBII

USAG Stuttgart
Station: 2
Shifts Or Platoon: **B-Shift**

Location: **Patch Commissary Parking Lot** **2350 Ohio Strasse ST** **Patch Barracks DD 09107** Zone: **3 - PB Patch Barracks** Location Type: **5 - Adjacent to** Population Density: **Urban**	Incident Type: **411 - Gasoline or other flammable liquid spill** FDID: **A4002** Incident #: **2023-330** Exposure ID: **38066254** Exposure #: **0** Incident Date: **08/02/2023**

Report Completed by:	Gissinger , Michael	**ID:** 0005F4989	**Date:** 08/03/2023
Report Reviewed by:	**Not Reviewed**		
Report Printed by:	Wenzel, Jorrit	**ID:**	**Date:** 8/3/2023 **Time:** 07:44

Structure Type:	Property Use: **960 - Street, other**	
Automatic Extinguishment System Present: ☐	Detectors Present: ☐	Cause of Ignition:
Aid Given or Received: **None**	Primary action taken:	**81 - Incident command**
Additional actions:	**48 - Remove hazardous materials , 70 - Assistance, other**	

Losses		**Pre-Incident Values**					
Property:	**$0.00**	Property:	**$0.00**	Civilian Injuries:	**0**	Fire Service Injuries:	**0**
Contents:	**$0.00**	Contents:	**$0.00**	Civilian Fatalities:	**0**	Fire Service Fatalities:	**0**
Total:	**$0.00**	Total:	**$0.00**	Total Casualties:	**0**	Total Fire Service Casualties:	**0**

Total # of apparatus on call:	**1**	Total # of personnel on call:	**5**

Neighboring Agencies

Agency Name: Landespolizei
Agency ID: BW
Agency Type: Law

Agency Name: Military Police
Agency ID: MP
Agency Type: Law

CBII

VEHICLES	
Vehicle WBANE31040B948801	
Make	BMW
Type	Sedan
Model	523I
Color	Gray
Vin Number	WBANE31040B948801
Year	2006
License Plate Number	S-GX 3997
Owner	
Name	John L Mitchell
Phone Number	+49 172 7891496
Address	
Driver	
Name	John L Mitchell
Phone Number	
Address	
License Number	
Driver Is Owner	Yes
Driver Is Resident	Undetermined
Insurance	
Company Name	USAA
Company Policy Number	034385900
Company Coverage Level	
Agent Name	
Agent Phone Number	
Involvement	
Law Enforcement Officer	SGT Wilson, 554th, 2-4
Police Report Or File Number	
Number Of Occupants	1
Number Of Injured Occupants	
Number Of Fatalities	
Disposable Equipment Used	
Narrative Text	

CBII