

# FINAL Preliminary Assessment Report Army Aviation Support Facility, Boone, Iowa

Perfluorooctanesulfonic Acid (PFOS) and Perfluorooctanoic Acid  
(PFOA) Impacted Sites  
ARNG Installations, Nationwide

June 2019

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## Table of Contents

Executive Summary.....	1
1. Introduction.....	4
1.1 Authority and Purpose .....	4
1.2 Preliminary Assessment Methods .....	4
1.3 Report Organization.....	5
1.4 Facility Location and Description.....	5
1.5 Facility Environmental Setting .....	5
1.5.1 Geology .....	6
1.5.2 Hydrogeology.....	6
1.5.3 Hydrology.....	6
1.5.4 Climate.....	6
1.5.5 Current and Future Land Use.....	6
2. Fire Training Areas.....	10
2.1 Wash Rack .....	10
2.2 Barrel Fire.....	10
3. Non-Fire Training Areas .....	12
3.1 Former AASF .....	12
4. Emergency Response Areas.....	14
5. Adjacent Sources.....	15
6. Conceptual Site Model .....	16
6.1 AOI 1 Wash Rack .....	16
7. Conclusions .....	19
7.1 Findings.....	19
7.2 Uncertainties.....	19
8. References .....	22

## Figures

Figure ES-1	Summary of Findings
Figure ES-2	Conceptual Site Model, Boone AASF
Figure 1-1	Facility Location
Figure 1-2	Groundwater Features
Figure 1-3	Surface Water Features
Figure 2-1	Fire Training Areas
Figure 3-1	Non-Fire Training Area
Figure 6-1	Areas of Interest
Figure 6-2	Conceptual Site Model, AOI 1 Wash Rack
Figure 7-1	Summary of Findings

## Appendices

Appendix A	Data Resources
Appendix B	Preliminary Assessment Documentation
	B.1 Interview Records
	B.2 Visual Site Inspection Checklists
	B.3 Conceptual Site Model Information
Appendix C	Photographic Log

## Acronyms and Abbreviations

°F	degrees Fahrenheit
AASF	Army Aviation Support Facility
AECOM	AECOM Technical Services, Inc.
AFFF	aqueous film forming foam
AOI	Area of Interest
ARNG	Army National Guard
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CSM	conceptual site model
FTA	fire training area
IA	Iowa
IAARNG	Iowa Army National Guard
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
PA	Preliminary Assessment
PFAS	per- and poly-fluoroalkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonic acid
SI	Site Inspection
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency

## Executive Summary

The United States Army Corps of Engineers (USACE) Baltimore District on behalf of the Army National Guard (ARNG) Installations & Environment Division, Cleanup Branch contracted AECOM Technical Services, Inc. (AECOM) to perform *Preliminary Assessments (PAs) and Site Inspections (SIs) for Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) Impacted Sites at ARNG Facilities Nationwide*. The ARNG is assessing potential effects on human health related to processes at facilities that used per- and poly-fluoroalkyl substances (PFAS), primarily in the form of aqueous film forming foam (AFFF) released as part of firefighting activities, although other PFAS sources are possible.

AECOM completed a PA for PFAS at the current Army Aviation Support Facility (AASF) in Boone, Iowa, to assess potential PFAS release areas and exposure pathways to receptors. The current AASF is located on 28 acres of land owned and leased by State of Iowa. The AASF facilities occupy 10 acres of the site with the remainder occupied by an Army National Guard Readiness Center and Field Maintenance Shop. The performance of this PA included the following tasks:

- Reviewed data resources to obtain information relevant to suspected PFAS releases
- Conducted a site visit on 22 August 2018
- Interviewed current Iowa Army National Guard (IAARNG) AASF personnel during the site visit
- Completed visual site inspections at known or suspected PFAS release locations and documented with photographs
- Developed a conceptual site model (CSM) to outline the potential release and pathway of PFAS for the Area(s) of Interest (AOIs) and the facility (**Figure ES-1**)

One AOI related to potential PFAS releases was identified at the current Boone AASF during the PA. The AOIs are shown on **Figure ES-1** and described below:

Area of Interest	Name	Used by	Potential Release Date
AOI 1	Wash Rack	IAARNG	1992 to Present Day

Based on potential PFAS releases at this AOI, there is potential for exposure to PFAS contamination in surface soil, surface water, and sediment for site workers, onsite construction workers, and trespassers; and subsurface soil for onsite construction workers. In addition, off-facility residents using groundwater for drinking water surrounding the facility may potentially be exposed to migrating PFAS contamination via nearby groundwater pathways. At this time the completeness of the groundwater pathway has not been verified. The CSM for the current Boone AASF is shown on **Figure ES-2**.



CLIENT ARNG				
NOTES Preliminary Assessment for PFAS at Boone AASF, IA				
REVISED	3/18/2019	GIS BY	MS	3/18/2019
SCALE	1:1,920	CHK BY	BN	3/18/2019
Base Map: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,		PM	RG	3/18/2019

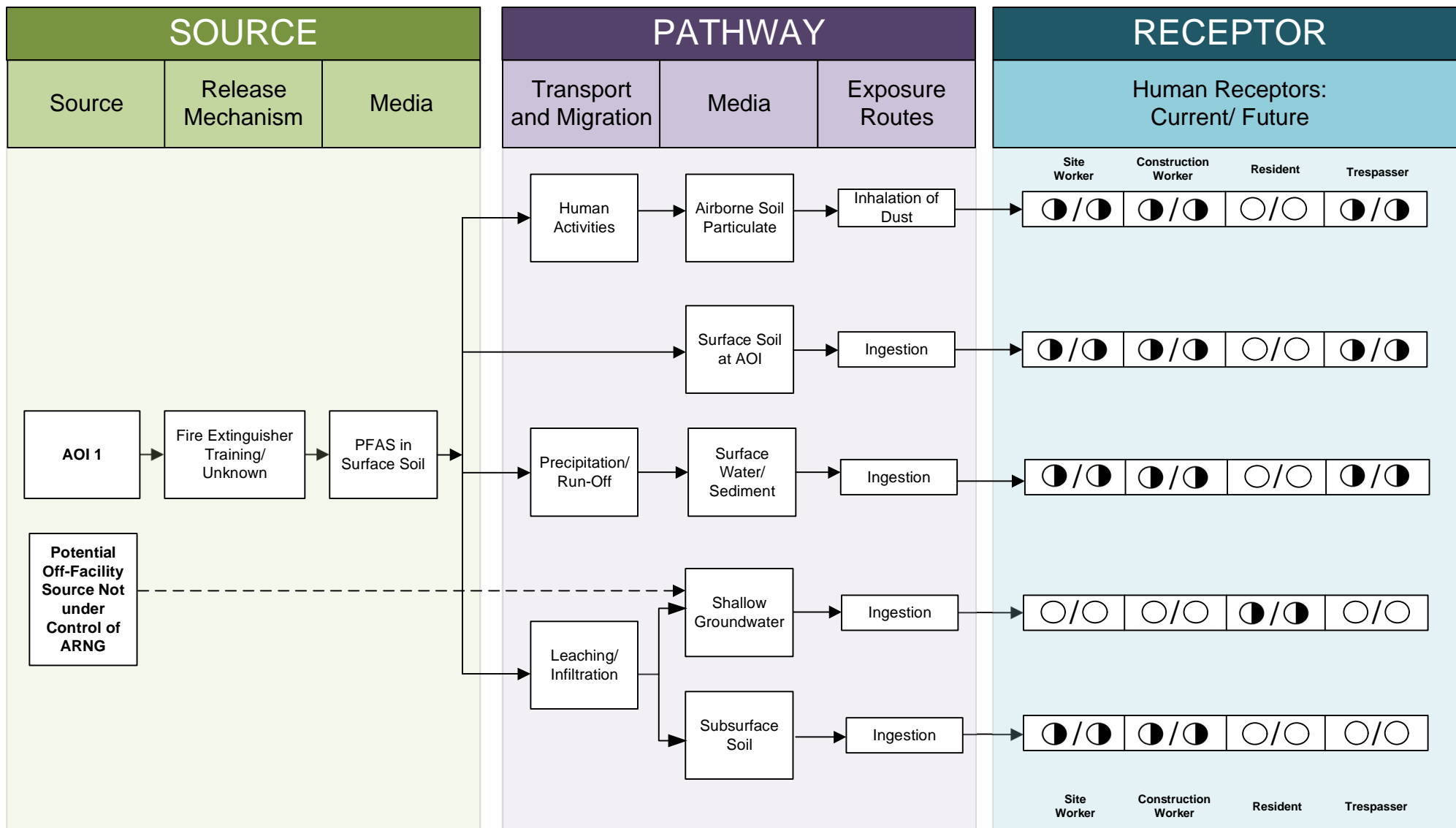


## Summary of Findings

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**Figure ES-1**



# LEGEND

- Flow-Chart Continues
- - - - - Partial / Possible Flow
- Incomplete Pathway
- ◐ Potentially Complete Pathway
- Complete Pathway

Figure ES-2  
Conceptual Site Model  
Boone AASF

# 1. Introduction

## 1.1 Authority and Purpose

The United States Army Corps of Engineers (USACE) Baltimore District on behalf of the Army National Guard (ARNG) Installations & Environment Division, Cleanup Branch contracted AECOM Technical Services, Inc. (AECOM) to perform *Preliminary Assessments (PAs) and Site Inspections (SIs) for Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) Impacted Sites at ARNG Facilities Nationwide* under Contract Number W912DR-12-D-0014, Task Order W912DR17F0192, issued 11 August 2017. The ARNG is assessing potential effects on human health related to processes at facilities that used per- and poly-fluoroalkyl substances (PFAS), primarily in the form of aqueous film forming foam (AFFF) released as part of firefighting activities, although other PFAS sources are possible. In addition, the ARNG is assessing businesses or operations adjacent to the ARNG facility (not under the control of ARNG) that could potentially be responsible for a PFAS release.

PFAS are classified as emerging environmental contaminants that are garnering increasing regulatory interest due to their potential risks to human health and the environment. PFAS formulations contain highly diverse mixtures of compounds. Thus, the fate of PFAS compounds in the environment varies. The regulatory framework at both federal and state levels continues to evolve. The US Environmental Protection Agency (USEPA) issued Drinking Water Health Advisories for PFOA and PFOS in May 2016, but there are currently no promulgated national standards regulating PFAS in drinking water. In the absence of federal maximum contaminant levels, some states have adopted their own drinking water standards for PFAS. The State of Iowa standards for PFOS and PFOA are 0.00007 milligrams per liter (mg/L) for a protected groundwater source, and 0.0010 mg/L for a non-protected groundwater source (PFOS only, no standard for PFOA). PFOS and PFOA soil standards are 1.8 milligrams per kilogram (mg/kg) and 1.2 mg/kg, respectively (Iowa Department of Natural Resources, 2012).

This report presents the findings of a PA for PFAS at the current Army Aviation Support Facility (AASF) in Boone, Iowa (IA), in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, the National Oil and Hazardous Substances Pollution Contingency Plan (40 Code of Federal Regulations Part 300), and USACE requirements and guidance.

This PA documents the known fire training areas (FTAs) as well as other locations where PFAS may have been released into the environment at the Boone AASF. The term PFAS will be used throughout this report to encompass all PFAS chemicals being evaluated, including PFOS and PFOA, which are key components of AFFF.

## 1.2 Preliminary Assessment Methods

The performance of this PA included the following tasks:

- Reviewed data resources to obtain information relevant to suspected PFAS releases
- Conducted a site visit on 22 August 2018
- Interviewed current Iowa Army National Guard (IAARNG) AASF personnel during the site visit
- Completed visual site inspections at known or suspected PFAS release locations and documented with photographs

- Developed a conceptual site model (CSM) to outline the potential release and pathway of PFAS for the Area(s) of Interest (AOIs) and the facility

## 1.3 Report Organization

This report has been prepared in accordance with the USEPA *Guidance for Performing Preliminary Assessments under CERCLA* (USEPA, 1991). The report sections and descriptions of each are:

- **Section 1 – Introduction:** identifies the project purpose and authority and describes the facility location, environmental setting, and methods used to complete the PA
- **Section 2 – Fire Training Areas:** describes the FTAs at the facility identified during the site visit
- **Section 3 – Non-Fire Training Areas:** describes other locations of potential PFAS releases at the facility identified during the site visit
- **Section 4 – Emergency Response Areas:** describes areas of potential PFAS release at the facility, specifically in response to emergency situations
- **Section 5 – Adjacent Sources:** describes sources of potential PFAS release adjacent to the facility that are not under the control of ARNG
- **Section 6 – Conceptual Site Model:** describes the pathways of PFAS transport and receptors for the AOIs and the facility
- **Section 7 –Conclusions:** summarizes the data findings and presents the conclusions of the PA
- **Section 8 – References:** provides the references used to develop this document
- **Appendix A – Data Resources**
- **Appendix B – Preliminary Assessment Documentation**
- **Appendix C – Photographic Log**

## 1.4 Facility Location and Description

The AASF is located north of Highway 30 at 700 CPL Snedden Drive, due south of the Boone Municipal Airport in Boone County, Boone, IA (**Figure 1-1**).

The current AASF is located on 28 acres of land owned and leased by the State of Iowa. The AASF facilities occupy 10 acres of the site with the remainder occupied by an Army National Guard Readiness Center and Field Maintenance Shop. The original 1948 AASF was demolished in 1989 to make space for the current AASF. Construction of the current AASF was completed in 1992. The Boone AASF has no AFFF fire suppression system. No information was available as to whether or not the former AASF contained a fire suppression system.

## 1.5 Facility Environmental Setting

Boone lies within the Des Moines Lobe, a landform region characterized by low-relief glacial terrain. The region has been subjected to repeated periods of Quaternary-age glaciations and erosion, creating morainal ridges and hummocky terrain, and leaving behind pebbly loam glacial till, kettle lakes, and other topographic depressions with poorly developed drainage (Iowa Geological Survey [IGS], 2017c). The elevation of the facility is approximately 1,100 feet above mean sea level.

### 1.5.1 Geology

The AASF is situated on Quaternary-age sand and gravel of the Pilot Knob and Morgan Members of the Dows Formation, which ranges in thickness from 4 to 10 meters. The deposits are characterized as yellowish brown, calcareous, fractured, stratified sand and gravel with interbedded stratified loam diamicton. The sand and gravel deposits overlie calcareous, massive, dense loam diamicton of the Alden Member of the Dows Formation (Geological Survey Bureau, 2001). Pennsylvanian sedimentary bedrock (shale and sandstone) of the Lower Cherokee and Raccoon Creek Groups underlies the Quaternary glacial deposits (Iowa Geological and Water Survey, 2010).

### 1.5.2 Hydrogeology

The AASF is in the Southern IA Groundwater Province within the boundaries of the Mississippian carbonate and the Cambrian-Ordovician sandstone aquifers (Prior et al. 2003). Wells tapping the Mississippian Aquifer are typically 100 to 300 feet deep and yield 50 to 100 gallons per minute. The Mississippian Aquifer water is used to supply private and public water supplies in north-central Iowa, but water quality and yield decreases in central and southeastern Iowa (IGS, 2017a). The Cambrian-Ordovician Aquifer is a widespread source of water for high capacity wells, extensively used by municipalities and industries in eastern IA. Wells tapping the Cambrian-Ordovician Aquifer are typically 300 to 2,000 feet deep (IGS, 2017b). Alluvial aquifers are valuable in the Southern Groundwater province, especially along the Skunk, Des Moines, and Nishnabotna rivers (Prior et al. 2003). Groundwater flow at the facility is inferred to be generally to the south toward the Peas Creek (**Figure 1-2**) which empties to the Des Moines River. However, groundwater flow direction may be seasonally impacted by watering of the Cedar Pointe Golf Course to the west of the facility.

No potable water wells are located within the current AASF; however, private wells exist within one mile of the facility (**Figure 1-2**). Drinking water for the AASF is supplied by the City of Boone, which utilizes wells northwest of the facility tapping the Middle Des Moines River sand and gravel alluvial aquifer water as the water source (City of Boone Water Works, 2018).

### 1.5.3 Hydrology

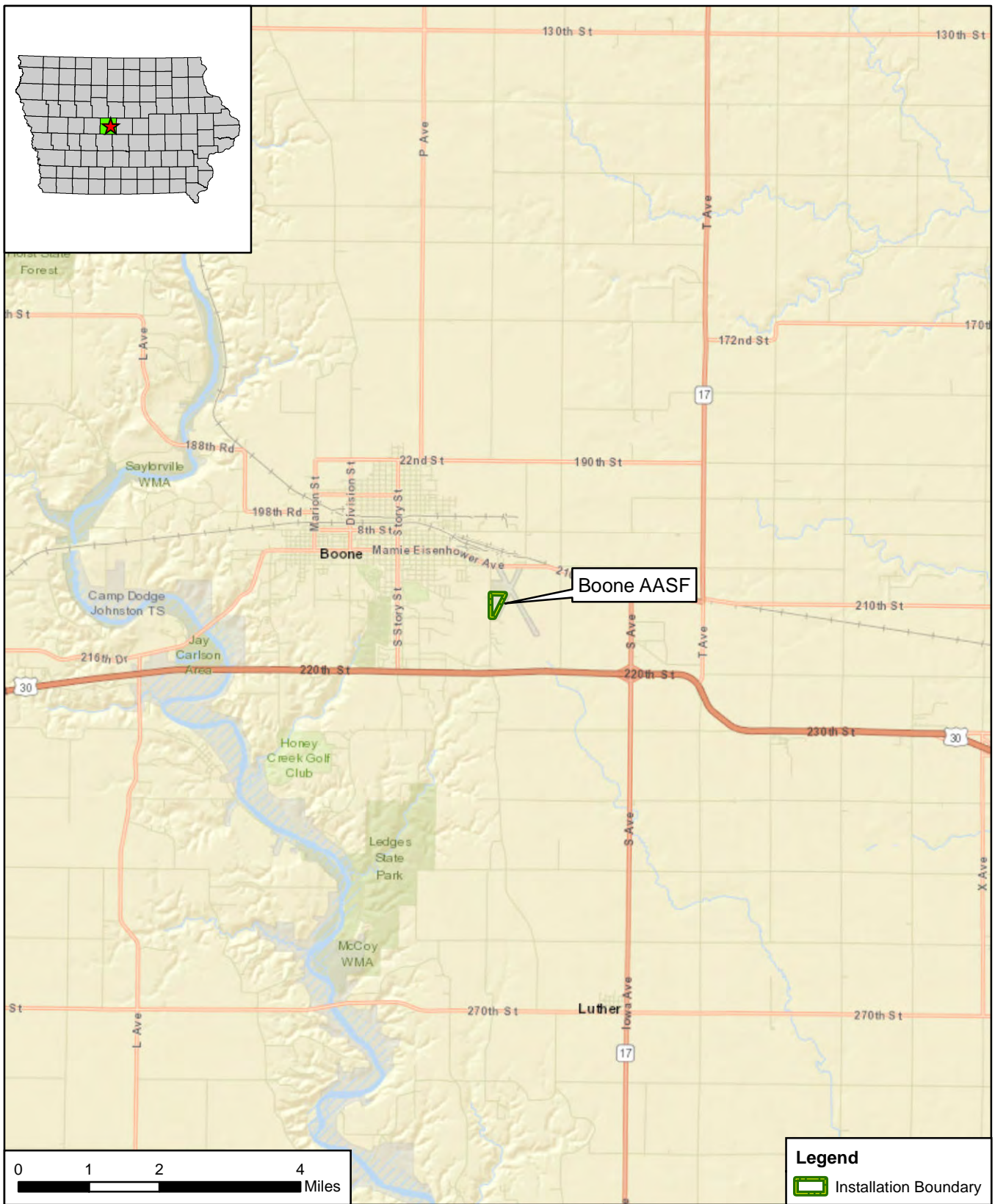
The AASF is in the Honey Creek-Des Moines River watershed, and tributaries leading to Peas Creek and Big Creek are located less than 0.25 mile southeast of the AASF (**Figure 1-3**). Peas Creek and Big Creek ultimately empty to the Des Moines River. Regional surface water features include the Des Moines River, approximately 4 miles southeast of the Boone AASF, which empties to the Mississippi River.

### 1.5.4 Climate

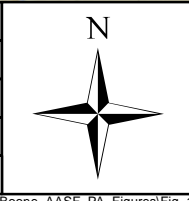
The climate at the AASF is humid continental with warm summers, cold winters, and wet springs. The average temperature is 48 degrees Fahrenheit (°F). Seasonally, temperatures vary from summer highs of 84 °F to winter lows of 9 °F. Average precipitation is 34 inches (World Climate, 2018). The prevailing wind is to the southwest, averaging 10 miles per hour (WillyWeather, 2018).


### 1.5.5 Current and Future Land Use

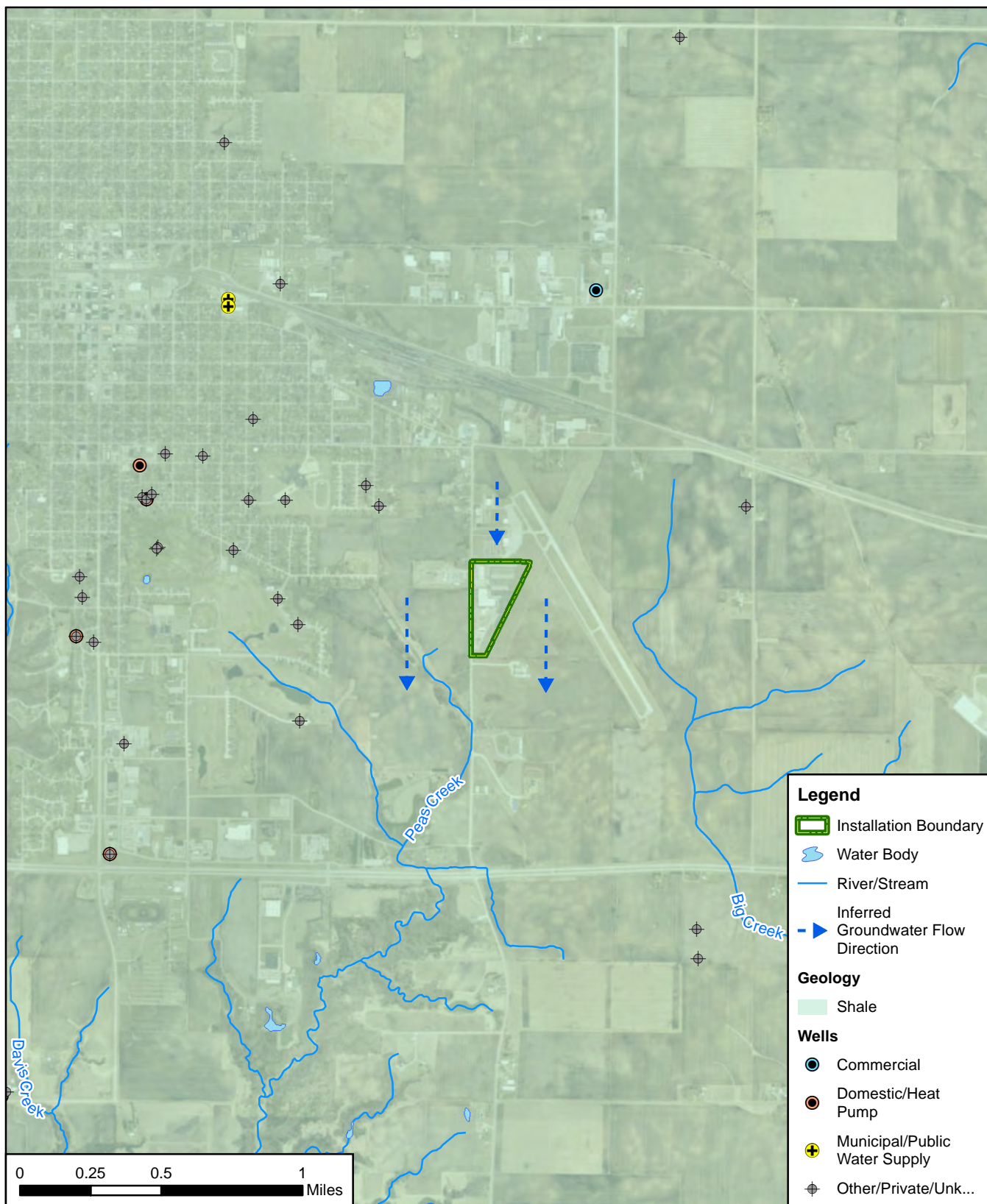
The AASF is a controlled access facility and is adjacent to the Boone Municipal Airport. The Boone Municipal Airport is owned by the City of Boone and operated by Farnham Aviation Services, LLC. The airport provides commercial and general air service to the Boone area. The Boone Municipal Airport has no AFFF fire suppression equipment. Future land use is not anticipated to change.



CLIENT	ARNG			
NOTES	Preliminary Assessment for PFAS at Boone AASF, IA			
REVISED	3/12/2019	GIS BY	MS	3/12/2019
SCALE	1:126,720	CHK BY	JZ	3/12/2019
Base Map: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI,		PM	RG	3/12/2019



<b>Boone Installation</b>	
 12420 Milestone Center Drive Germantown, MD 20876	<b>Figure 1-1</b>



CLIENT	ARNG			
NOTES	Preliminary Assessment for PFAS at Boone AASF, IA			
REVISED	3/12/2019	GIS BY	MS	3/12/2019
SCALE	1:31,680	CHK BY	BN	3/12/2019
Base Map: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,				
		PM	RG	3/12/2019



## Groundwater Features

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**Figure 1-2**



CLIENT	ARNG			
NOTES	Preliminary Assessment for PFAS at Boone AASF, IA			
REVISED	3/12/2019	GIS BY	MS	3/12/2019
SCALE	1:31,680	CHK BY	JZ	3/12/2019
Base Map: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,		PM	RG	3/12/2019



## Surface Water Features

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**Figure 1-3**

## 2. Fire Training Areas

Two FTA's were identified at the AASF facility during the PA. A description of each FTA is presented below, and the FTAs are shown on **Figure 2-1**. Interview records appear in **Appendix B**. Photographs appear in **Appendix C**.

### 2.1 Wash Rack

The AASF facility houses two TriMax-3, five TriMax-30, and one TriMax-60 fire extinguishers. Approximately every five years from the 1992 to the present day, the TriMax fire extinguishers are turned in for hydrostatic testing. Prior to turn in, all fire extinguishers are emptied at the wash rack at the northern end of the facility by the IAARNG. The geographic coordinates of the wash rack are 42° 3'2.14"N and 93°51'11.23"W. The wash rack has an oil-water separator and a diversion valve for sanitary and storm sewer. The wash rack currently drains to the sanitary sewer and then to the Boone Water Treatment Facility, but it is not known if the valve was opened to the storm or sanitary drain during fire training events with AFFF. If the valve had been opened to the storm drain during the fire training events, drainage would have been diverted off the facility to the north and into a drainage ditch running west to east outside the northern boundary of the facility.

Bulk AFFF (three percent and six percent) is stored at the facility and used to refill the TriMax fire extinguishers upon return from hydrostatic testing. The fire extinguishers are filled in a room with no floor drains or on the ramp by the IAARNG. Spills are cleaned up with rags.

Firefighting services for the AASF are currently provided by the City of Boone; however, the AASF previously had a fire truck at the facility for emergency response. No information was available regarding the fire truck, its use, or when it was removed from the facility. The City of Boone has provided firefighting services for the facility for approximately 20 years.

### 2.2 Barrel Fire

According to interviewees, fire extinguisher training has been conducted on a barrel fire near the wash rack on multiple occasions from the 1992 to the present day. Interviewees indicated the training was conducted with either dish soap or AFFF. The dish soap or AFFF was rinsed into the wash rack oil-water separator. The wash rack currently drains to the sanitary sewer and then to the Boone Water Treatment Facility, but it is not known if the valve was opened to the storm or sanitary drain during fire training events with AFFF. If the valve had been opened to the storm drain during the fire training events, drainage would have been diverted off the facility to the north and into a drainage ditch running west to east outside the northern boundary of the facility. No information was available regarding the type or amount of AFFF used during barrel fire training exercises. The geographic coordinates of the barrel fire training are 42° 3'2.01"N and 93°51'11.74"W.

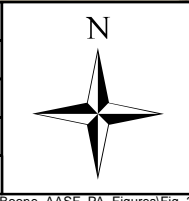


**Legend**

Potential PFAS Release

Installation Boundary

CLIENT		ARNG		
NOTES		Preliminary Assessment for PFAS at Boone AASF, IA		
REVISED	3/12/2019	GIS BY	MS	3/12/2019
SCALE	1:600	CHK BY	BN	3/12/2019
Base Map: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI,		PM	RG	3/12/2019



<b>Fire Training Areas</b>	
 12420 Milestone Center Drive Germantown, MD 20876	<b>Figure 2-1</b>

### 3. Non-Fire Training Areas

One non-FTA where AFFF may have been stored and/or potentially released was identified during the PA through interviews. A description of the non-FTA is presented below, and the non-FTA is shown on **Figure 3-1**.

#### 3.1 Former AASF

Consistent with structures observed in historical aerial photographs, the current AASF is inferred to have been constructed in the same location as the former AASF. The geographic coordinates are 42°02'59.0"N and 93°51'13.0"W. The former AASF was constructed in 1948. No information was available regarding the presence or use of AFFF at the former AASF, or whether or not the former AASF contained a fire suppression system. The current Boone AASF was dedicated in the same location in 1992.



CLIENT	ARNG			
NOTES	Preliminary Assessment for PFAS at Boone AASF, IA			
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SCALE	1:2,760	CHK BY	BN	3/18/2019
Base Map: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI,		PM	RG	3/18/2019



## Non-Fire Training Area

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**Figure 3-1**

## 4. Emergency Response Areas

No emergency response areas were identified during the PA through interviews or document review. All emergency services for the AASF are provided by the City of Boone.

## 5. Adjacent Sources

No off-facility sources of PFAS adjacent to the AASF, not under the control of the IAARNG, were identified during the PA through interviews or document review.

## 6. Conceptual Site Model

Based on the PA findings, one AOI was identified at the AASF: AOI 1 Wash Rack. The AOI location is shown on **Figure 6-1**. The following sections describe the CSM components and the specific CSM developed for AOI 1. The CSM identifies the three components necessary for a potentially complete exposure pathway: (1) source, (2) pathway, (3) receptor. If any of these elements are missing, the pathway is considered incomplete.

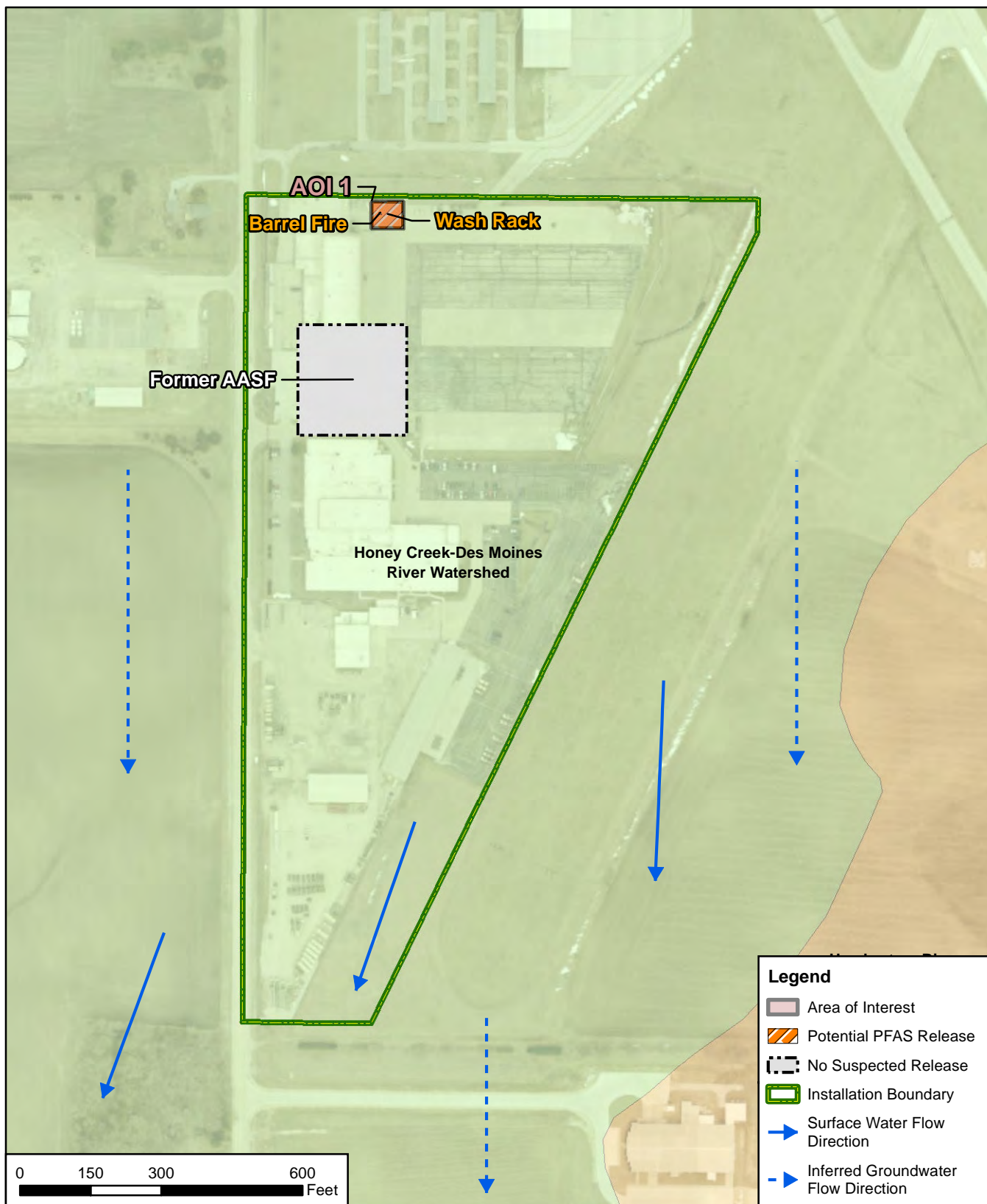
In general, the potential PFAS exposure pathways are ingestion and inhalation. Dermal contact is not considered to be a potential exposure pathway as studies have shown very limited absorption of PFAS through the skin (NGWA, 2018). Receptors at the AASF include site workers, construction workers, trespassers, and off-facility residents. The CSM for the AASF indicates which specific receptors could potentially be exposed to PFAS.



### 6.1 AOI 1 Wash Rack

AOI 1 is the wash rack on the AASF ramp. PFAS has been released to the wash rack drain at AOI 1 by the IAARNG approximately every five years from the 1992 to the present when the contents of AFFF fire extinguishers are emptied at the wash rack prior to hydrostatic testing. Additionally, fire extinguisher training has been conducted on a barrel fire near the wash rack on multiple occasions with dish soap or AFFF. The dish soap or AFFF was rinsed into the wash rack and released to the storm and/or sanitary sewer.

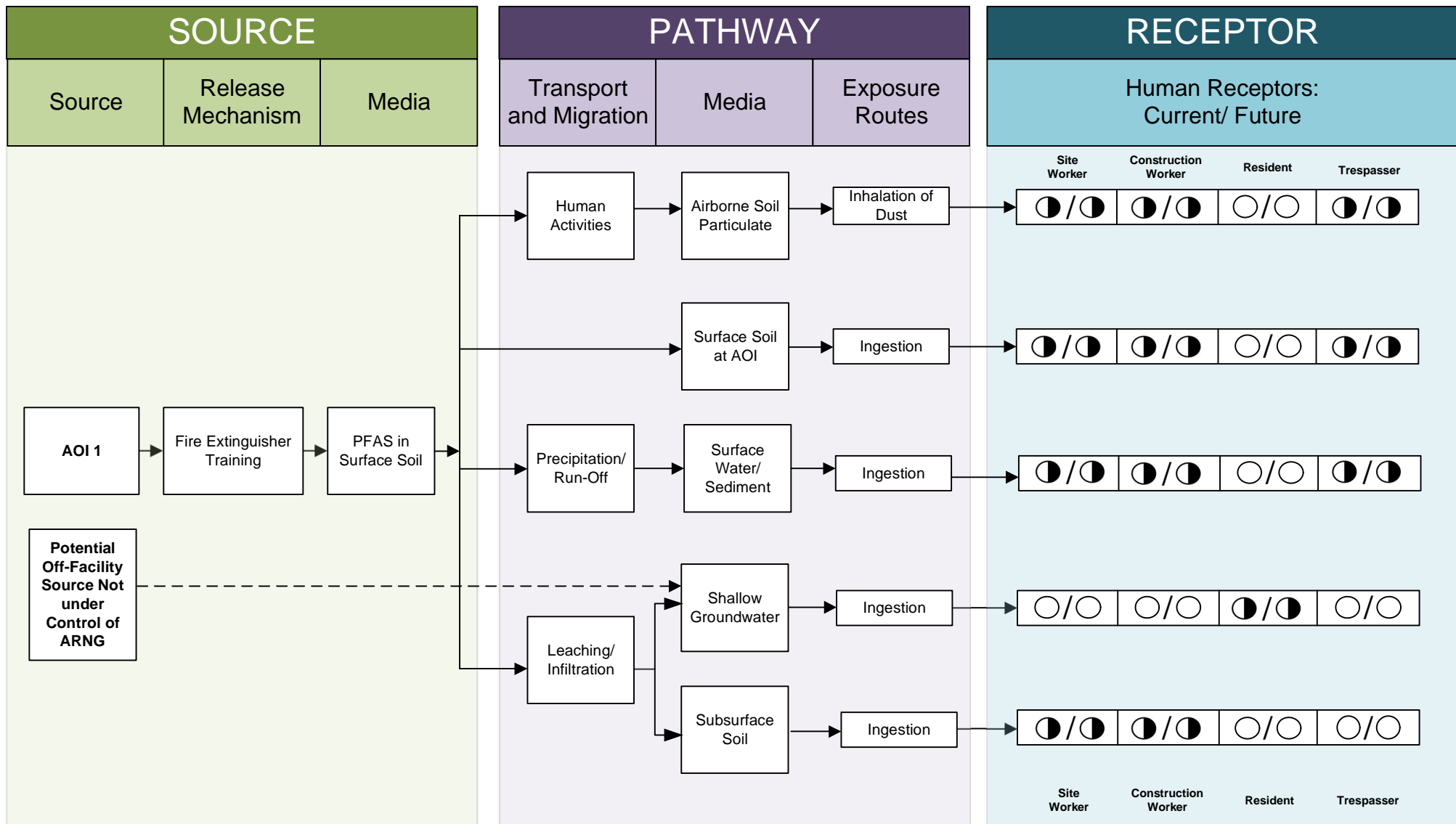
The concrete surrounding the wash rack is gently sloped toward the drain, directing flow into the drain. The wash rack drain empties to an oil-water separator with a diversion valve for sanitary sewer or storm sewer. IAARNG personnel indicated that the wash rack currently drains to the sanitary sewer, but it is not known if the valve was opened to the storm or sanitary drain during fire training events with AFFF. The storm drains run to the north off the AASF ramp and empty to a drainage ditch running east along the AASF northern boundary toward the Boone Municipal Airport runway.

Ground-disturbing activities to surface soil at AOI 1 could result in site worker, construction worker, and trespasser exposure to potential PFAS contamination. Therefore, the exposure pathways for inhalation of soil particles and ingestion of soil are potentially complete for these receptors. Ground-disturbing activities to subsurface soil could result in site and construction worker exposure via inhalation of soil particles and ingestion of subsurface soil. Therefore, the inhalation and ingestion pathways for these receptors are considered potentially complete. The AASF drinking water is supplied by the City of Boone; however, private, commercial, and public supply wells are present to the north, south, east, and west of the AASF. Groundwater flow at the AASF is inferred to be to the south; therefore, a private well is downgradient of AOI 1. Therefore, the ingestion exposure pathway for groundwater is potentially complete for off-facility residents. The CSM for the AASF is shown on **Figure 6-2**.



CLIENT ARNG						Areas of Interest	
NOTES Preliminary Assessment for PFAS at Boone AASF, IA							
REVISED	3/18/2019	GIS BY	MS	3/18/2019		 12420 Milestone Center Drive Germantown, MD 20876	Figure 6-1
SCALE	1:3,600	CHK BY	BN	3/18/2019			
Base Map: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,		PM	RG	3/18/2019			

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### LEGEND

- Flow-Chart Continues
- - - - - Partial / Possible Flow
- Incomplete Pathway
- ◐ Potentially Complete Pathway
- Complete Pathway

Figure 6-2  
Conceptual Site Model  
AOI 1 Wash Rack

## 7. Conclusions

This report presents a summary of available information gathered during the PA with respect to the use and storage of AFFF and other PFAS-related activities at the AASF. The PA findings are based on the information presented in **Appendix A** and **Appendix B**.

### 7.1 Findings

One AOI related to potential PFAS release was identified at the AASF during the PA (**Figure 7-1**):

Area of Interest	Name	Used by	Potential Release Dates
AOI 1	Wash Rack	IAARNG	1992 to Present Day

Based on potential PFAS releases at this AOI, there is potential for exposure to PFAS contamination in surface soil, surface water, and sediment for site workers, onsite construction workers, and trespassers; and subsurface soil for onsite construction workers. In addition, off-facility residents using groundwater for drinking water surrounding the facility may potentially be exposed to migrating PFAS contamination if the nearby groundwater pathway is determined to be complete.

The following areas discussed in **Section 2** through **Section 5** were determined to have no suspected release:

No Suspected Release Area	Used by	Rationale for No Suspected Release Determination
Former AASF	IAARNG	No information was available regarding the presence or use of AFFF at the former AASF, or whether or not the former AASF contained a fire suppression system; however, no information was presented during interviews that indicated IAARNG activities were any different from current day activities at the AASF, which is located in the same location as the former AASF.

### 7.2 Uncertainties

A number of information sources were investigated during this PA to determine the potential for PFAS-containing materials to have been present, used, or released at the facility. Historically, documentation of PFAS use was not required because PFAS were considered benign. Therefore, records were not typically kept by the facility or available during the PA with respect to the use of PFAS in training, firefighting, other non-traditional activities, or its disposition.

The conclusions of this PA are predominantly based on the information provided during interviews with personnel who had direct knowledge of PFAS use at the facility. Sometimes the provided information was vague or conflicted with other sources. Gathered information has a degree of uncertainty due to the absence of written documentation, the limited number of personnel with direct knowledge due to staffing changes, the time passed since PFAS was first used (1969 to present), and a reliance on personal recollection. Inaccuracies may arise in potential PFAS release locations, dates of release, volume of releases, and the concentration of

AFFF used. There is also a possibility the PA has missed a source of PFAS, as the science of how PFAS may enter the environment continually evolves.

In order to minimize the level of uncertainty, readily available data regarding the use and storage of PFAS were reviewed, retired and current personnel were interviewed, multiple persons were interviewed for the same potential source area, and potential source areas were visually inspected.

The following table summarizes the uncertainties associated with the PA:

Area of Interest	Source of Uncertainty
AOI 1 Wash Rack	No or limited information was available regarding the type, amount, or concentration of AFFF used during fire training exercises.
AOI 1 Wash Rack	No or limited information about PFAS use or storage prior to 1992.
AOI 1 Wash Rack	No information was available regarding nozzle testing, training, washing, or maintenance activities related to the fire truck previously housed at the AASF.
AOI 1 Wash Rack	It is not known whether the oil-water diversion valve was opened to the storm or sanitary drain during fire training events with AFFF.

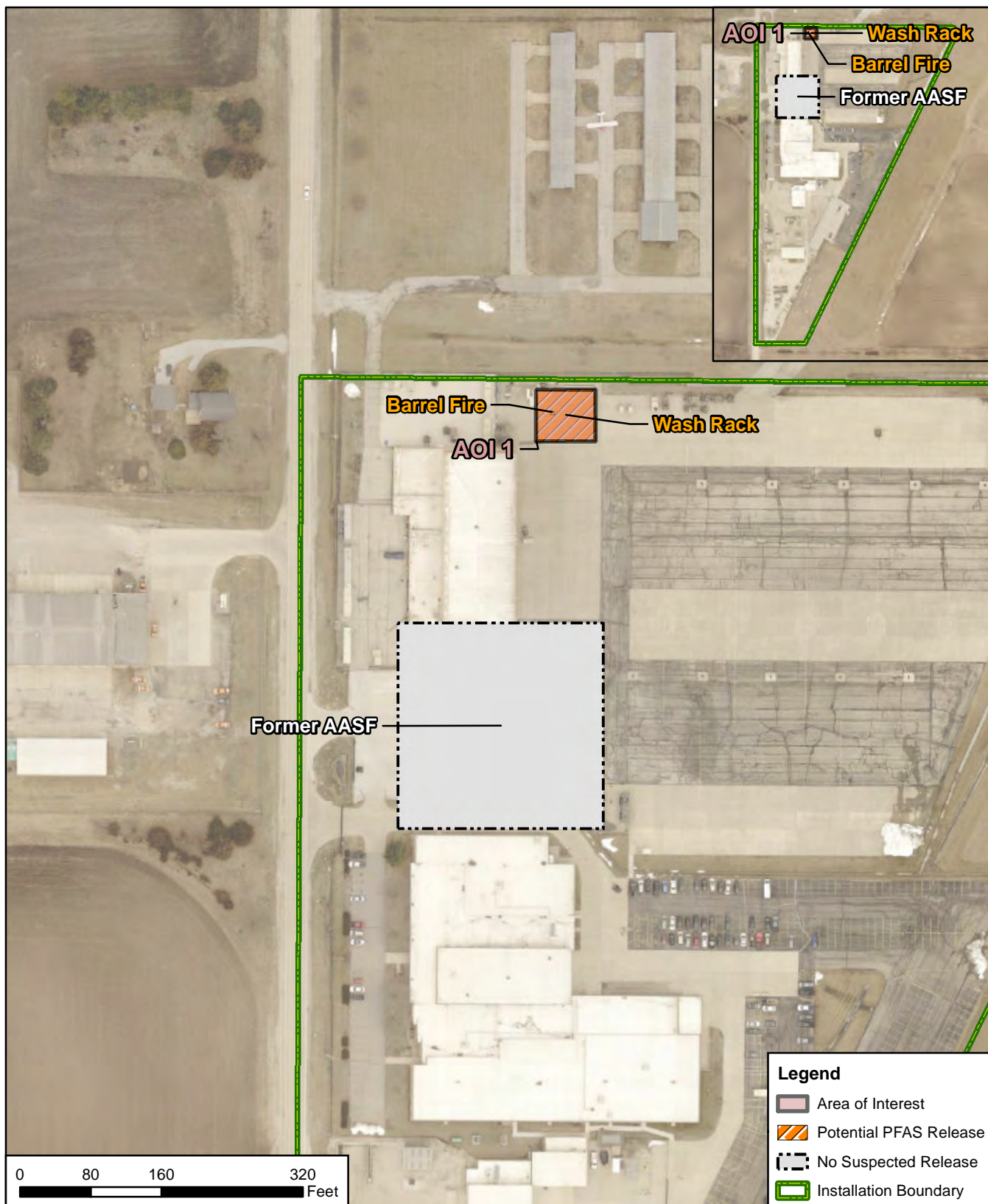
No potential off-facility PFAS release areas were identified adjacent to the AASF.

### 7.3 Potential Future Actions

Interviews and records (covering 1992 to present) indicate that ARNG activities may have resulted in potential PFAS releases at the one AOI identified during the PA. Based on the CSM developed for the AOIs, there is potential for receptors to be exposed to PFAS contamination in soil, groundwater, surface water, and sediment at this AOI. The following table summarizes the rationale used to determine if the AOI should be considered for further investigation under the CERCLA process and undergo a Site Inspection (SI).

ARNG evaluates the need for an SI at the Boone AASF based on the presence of a PFAS release, potential receptors, and the migration potential of PFAS contamination to receptors.

Area of Interest	AOI Location	Rationale	Potential Future Action
AOI 1 Wash Rack	42° 3'2.14"N and 93°51'11.23"W	Tri-Max fire extinguishers emptied every five years from 1992 to present day.	Proceed to an SI, focus on soil, groundwater, surface water, sediment



CLIENT ARNG				
NOTES Preliminary Assessment for PFAS at Boone AASF, IA				
REVISED	3/18/2019	GIS BY	MS	3/18/2019
SCALE	1:1,920	CHK BY	BN	3/18/2019
Base Map: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,		PM	RG	3/18/2019



## Summary of Findings

**AECOM**

12420 Milestone Center Drive  
Germantown, MD 20876

**Figure 7-1**

## 8. References

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## **Appendix A**

### **Data Resources**

Data Resources will be provided separately on CD. Data Resources for the Boone Army Aviation Support Facility include:

**Boone AASF PFAS Release Information**

- 2018 Boone AASF Map
- 2018 Boone AASF Surrounding Sources Map

**Boone AASF Facility Maps**

- 2018 Boone AASF Well Map

**Boone AASF EDR Report**

- 2018 Boone AASF Environmental Data Resource Report



Boone Municipal Airport

Damage done to

Dike

Barracks Fire

Warehouse (GNV's)

Engine Shop

Filling Extinguishers

Fuel Tank (Installation)

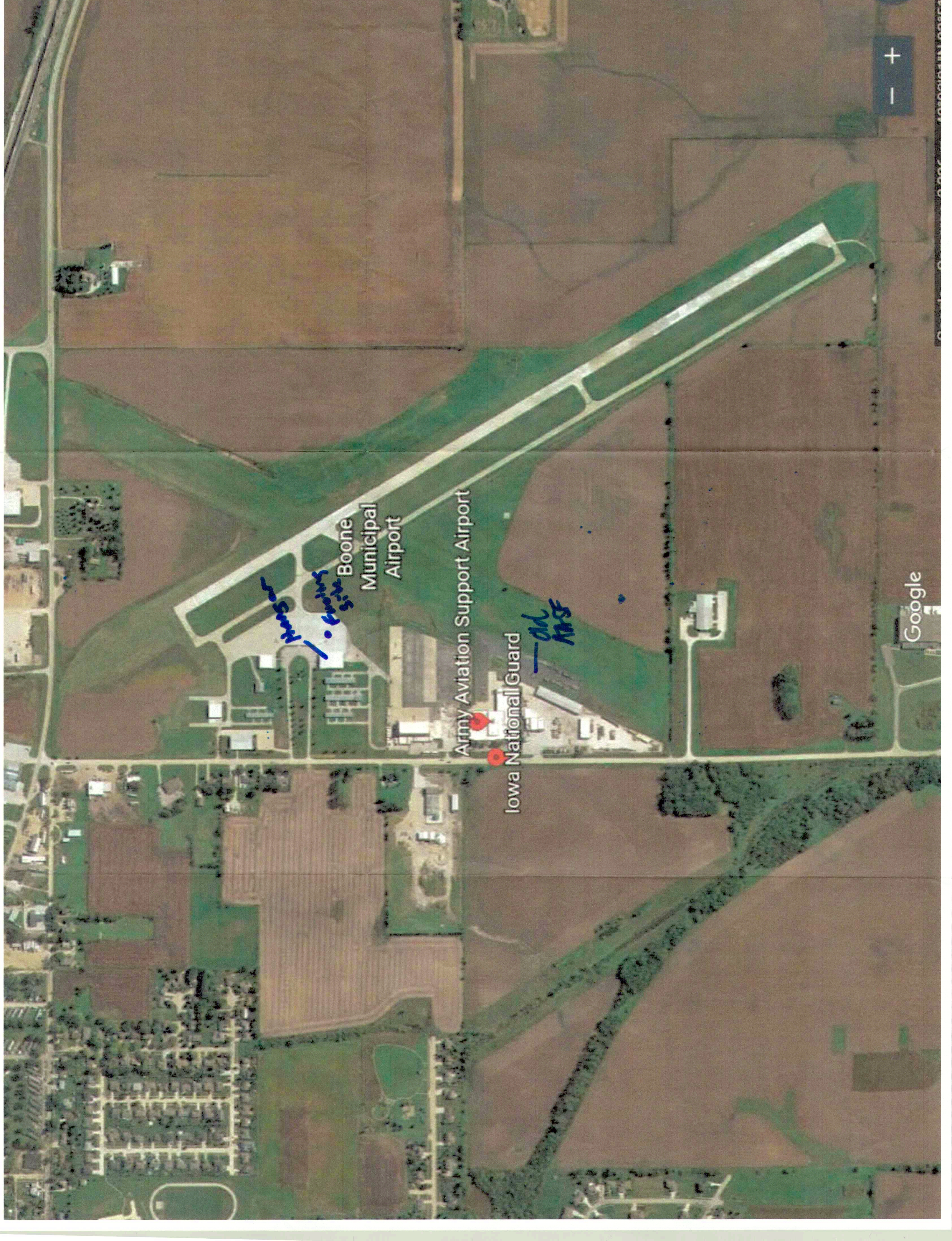
Accelerated Freefall Iowa Inc

Iowa National Guard

Army Aviation Support Airport

Google





Google

Boone



Legend

- Commercial
- Exploration (Other)
- Heat Pump
- Municipal
- Municipal Public Water Supply
- Other
- Private
- Public Water Supply
- Test
- Unknown

Facility Boundary

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA,...

Fax To: AECOM  
Contact: Brittany Kirchmann  
Fax : 000-000-0000  
Date: 10/16/2018

Fax From: Sean McLaughlin  
EDR  
Phone: 1-800-352-0050

---

## EDR PUR-IQ<sup>®</sup> Report

*"the intelligent way to conduct historical research"*

for  
**Boone AASF**  
**700 Corporal Snedden Drive**  
**Boone, IA 50036**  
**Lat./Long. 42.050236 / 93.852445**  
**EDR Inquiry # 5454361.2s**

The EDR PUR-IQ report facilitates historical research planning required to complete the Phase I ESA process. The report identifies the *likelihood* of prior use coverage by searching proprietary EDR-Prior Use Reports<sup>®</sup> comprising nationwide information on: city directories, fire insurance maps, aerial photographs, historical topographic maps, flood maps and National Wetland Inventory maps.

**Potential for EDR Historical (Prior Use) Coverage** - Coverage in the following historical information sources may be used as a guide to develop your historical research strategy:

- 1. City Directory:** Coverage may exist for portions of Boone County, IA.
- 2. Fire Insurance Map:** When you order online any EDR Package or the EDR Radius Map with EDR Sanborn Map Search/Print, you receive site specific Sanborn Map coverage information at no charge.
- 3. Aerial Photograph:** Aerial photography coverage may exist for portions of Boone County. Please contact your EDR Account Executive for information about USGS photos available through EDR.
- 4. Topographic Map:** The USGS 7.5 min. quad topo sheet(s) associated with this site:  

Historical:	Coverage exists for BOONE County		
Current:	Target Property:	TP   2013   5942960 Boone East, IA	
	Additional required for 1 Mile radius:	W   2013   5945179 Boone West, IA	

EDR's network of professional researchers, located throughout the United States, accesses the most extensive national collections of city directory, fire insurance maps, aerial photographs and historical topographic map resources available for Boone, IA. These collections may be located in multiple libraries throughout the country. To ensure maximum coverage, EDR will often assign researchers at these multiple locations on your behalf. Please call or fax your EDR representative to authorize a search.



## EDR - HISTORICAL SOURCE(S) ORDER FORM

**AECOM**  
**Brittany Kirchmann**  
**Account # 1861179**

**Boone AASF**  
**700 Corporal Snedden Drive**  
**Boone, IA 50036**  
**BOONE County**  
**Lat./Long. 42.050236 / 93.852445**  
**EDR Inquiry # 5454361.2s**

Should you wish to change or add to your order, fax this form to your EDR account executive:

**Sean McLaughlin**  
**Ph: 1-800-352-0050 Fax: 1-800-231-6802**

### Reports

- ☐ EDR Sanborn Map® Search/Print
- ☐ EDR Fire Insurance Map Abstract
- ☐ EDR Multi-Tenant Retail Facility® Report
- ☐ EDR City Directory Abstract
- ☐ EDR Aerial Photo Decade Package
- ☐ USGS Aerial 5 Package
- ☐ USGS Aerial 3 Package
- ☐ EDR Historical Topographic Maps
- ☐ Paper Current USGS Topo (7.5 min.)
- ☐ Environmental Lien Search
- ☐ Chain of Title Search
- ☐ NJ MacRaes Industrial Directory Report
- ☐ EDR Telephone Interview

### **Shipping:**

- ☐ Email
- ☐ Express, Next Day Delivery
- ☐ Express, Second Day Delivery
- ☐ Express, Next day Delivery
- ☐ Express, Second Day Delivery
- ☐ U.S. Mail

Customer Account  
Customer Account

**RUSH SERVICE IS AVAILABLE**

Acct # \_\_\_\_\_  
Acct # \_\_\_\_\_

***Thank you***



Boone AASF

700 Corporal Snedden Drive

Boone, IA 50036

Inquiry Number: 5454361.3

October 15, 2018

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

## Certified Sanborn® Map Report

10/15/18

**Site Name:**

Boone AASF  
700 Corporal Snedden Drive  
Boone, IA 50036  
EDR Inquiry # 5454361.3

**Client Name:**

AECOM  
12120 Shamrock Plaza  
Omaha, NE 68154  
Contact: Brittany Kirchmann



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by AECOM were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

### Certified Sanborn Results:

**Certification #** 54D2-4DEA-838B

**PO #** NA

**Project** Boone AASF

#### UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: 54D2-4DEA-838B

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

*The Sanborn Library LLC Since 1866™*

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**Boone AASF**

700 Corporal Shedden Drive

Boone, IA 50036

Inquiry Number: 5454361.5

October 18, 2018

## The EDR Aerial Photo Decade Package



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## EDR Aerial Photo Decade Package

10/18/18

**Site Name:**

Boone AASF  
700 Corporal Snedden Drive  
Boone, IA 50036  
EDR Inquiry # 5454361.5

**Client Name:**

AECOM  
12120 Shamrock Plaza  
Omaha, NE 68154  
Contact: Brittany Kirchmann



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**Search Results:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2014	1"=500'	Flight Year: 2014	USDA/NAIP
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1994	1"=500'	Acquisition Date: April 16, 1994	USGS/DOQQ
1984	1"=500'	Flight Date: January 01, 1984	USGS
1971	1"=500'	Flight Date: January 01, 1971	ASCS
1965	1"=500'	Flight Date: September 01, 1965	USDA
1953	1"=500'	Flight Date: June 08, 1953	USDA
1939	1"=500'	Flight Date: June 02, 1939	USDA

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INQUIRY #: 5454361.5

YEAR: 2017

— = 500'





INQUIRY #: 5454361.5

YEAR: 2014

— = 500'





INQUIRY #: 5454361.5

YEAR: 2011

— = 500'





INQUIRY #: 5454361.5

YEAR: 2008

— = 500'





INQUIRY #: 5454361.5

YEAR: 2005

— = 500'





INQUIRY #: 5454361.5

YEAR: 1994

— = 500'





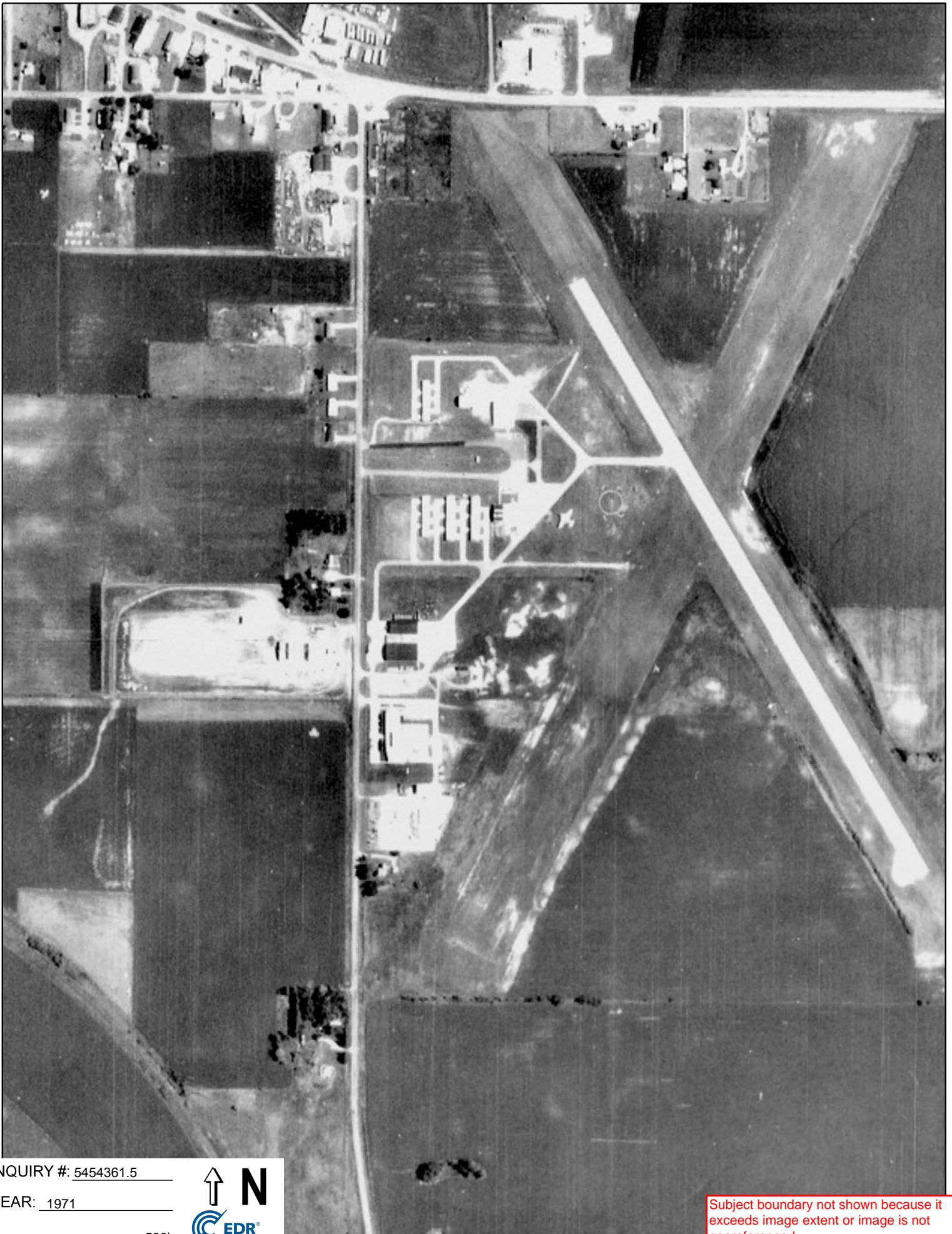
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YEAR: 1984

— = 500'



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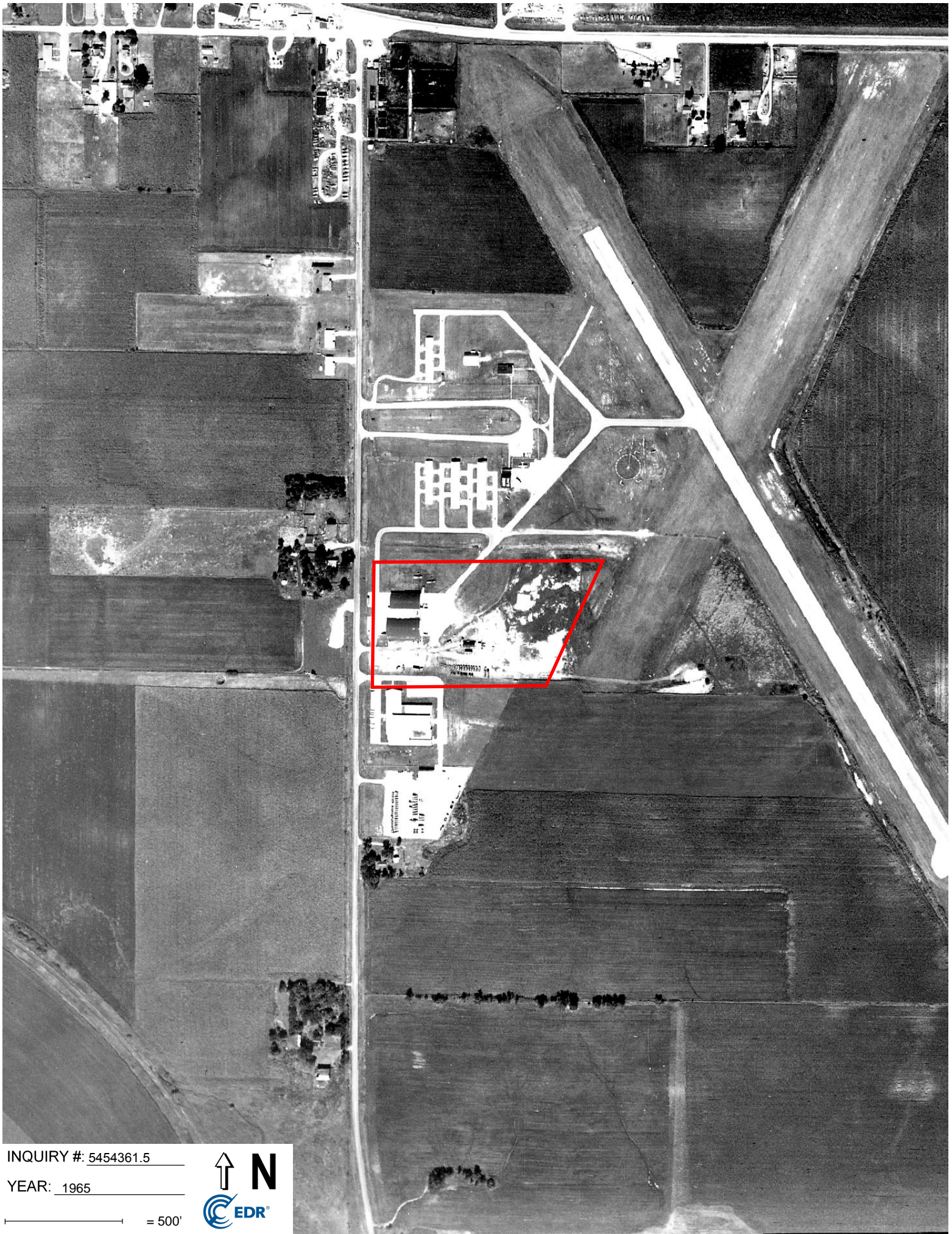
INQUIRY #: 5454361.5

YEAR: 1971



— = 500'

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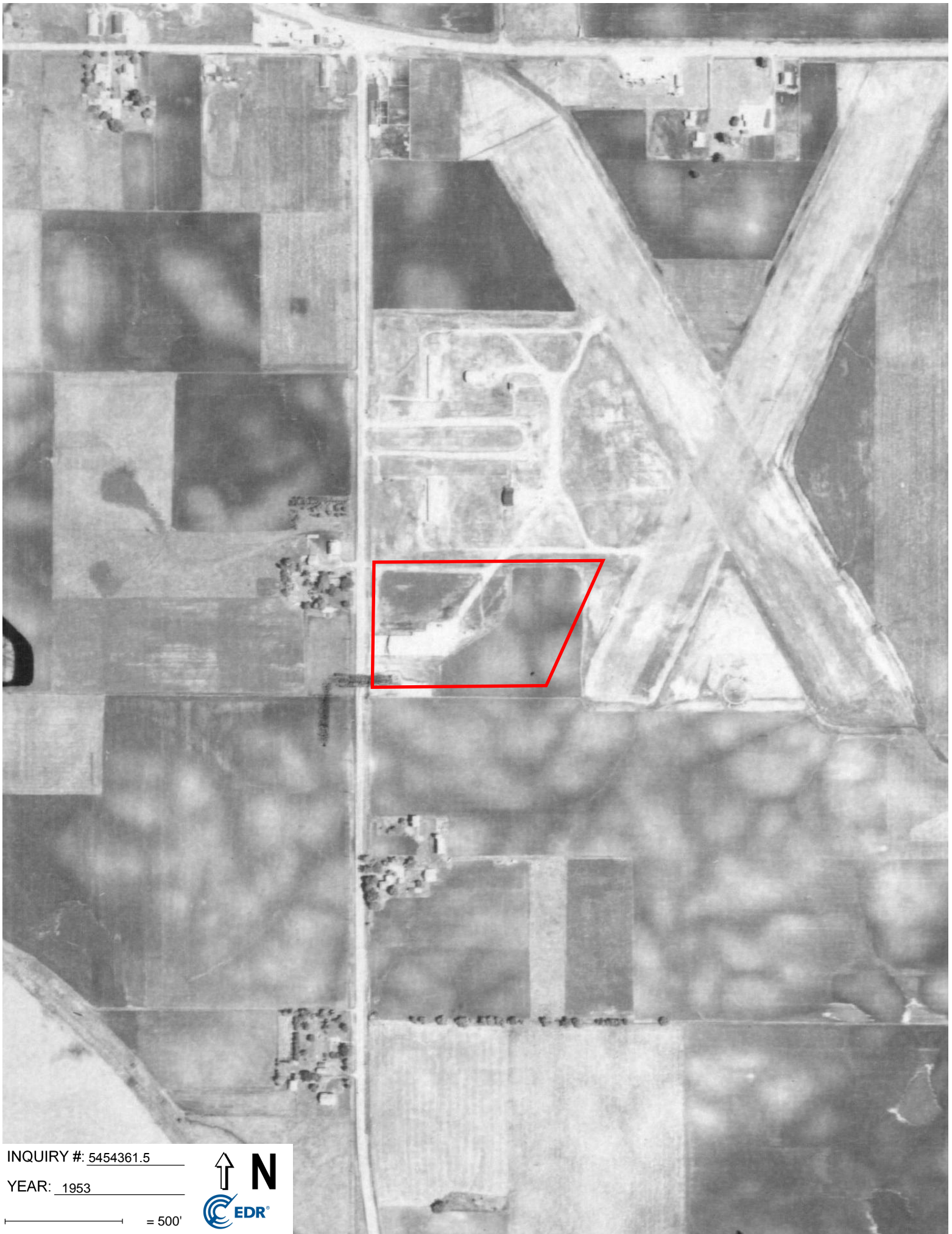


INQUIRY #: 5454361.5

YEAR: 1965

— = 500'





INQUIRY #: 5454361.5

YEAR: 1953

— = 500'





INQUIRY #: 5454361.5

YEAR: 1939

— = 500'





**Boone AASF**

700 Corporal Snedden Drive  
Boone, IA 50036

Inquiry Number: 5454361.2s  
October 16, 2018

## The EDR Radius Map™ Report with GeoCheck®



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# TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary .....	ES1
Overview Map .....	2
Detail Map .....	3
Map Findings Summary .....	4
Map Findings .....	8
Orphan Summary .....	66
Government Records Searched/Data Currency Tracking .....	GR-1
 <b><u>GEOCHECK ADDENDUM</u></b>	
Physical Setting Source Addendum .....	A-1
Physical Setting Source Summary .....	A-2
Physical Setting Source Map .....	A-8
Physical Setting Source Map Findings .....	A-9
Physical Setting Source Records Searched .....	PSGR-1

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

700 CORPORAL SNEDDEN DRIVE  
BOONE, IA 50036

#### COORDINATES

Latitude (North):	42.0502360 - 42° 3' 0.84"
Longitude (West):	93.8524450 - 93° 51' 8.80"
Universal Transverse Mercator:	Zone 15
UTM X (Meters):	429455.9
UTM Y (Meters):	4655492.0
Elevation:	1140 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5942960 BOONE EAST, IA
Version Date:	2013
West Map:	5945179 BOONE WEST, IA
Version Date:	2013

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150815, 20150912
Source:	USDA

# MAPPED SITES SUMMARY

Target Property Address:  
700 CORPORAL SNEDDEN DRIVE  
BOONE, IA 50036

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	IOWA ARMY NATIONAL G	700 SNEDDEN DR	FINDS, ECHO		TP
<a href="#">A2</a>	IOWA ARMY NATIONAL G	700 SNEDDEN DR	RCRA-SQG, WI MANIFEST		TP
<a href="#">A3</a>	IOWA ARMY NATIONAL G	AASF 1, 700 SNEDDEN	IA AIRS		TP
<a href="#">A4</a>	OMS #10/AASF1	700 SNEDDEN DR	IA RGA LUST		TP
<a href="#">A5</a>	FMS10/AAS1	700 SNEDDEN DR	IA LUST, IA UST, IA Financial Assurance, IA TIER 2		TP
<a href="#">A6</a>	ARMY AVIATION SUPPOR	700 SNEDDEN DR.	IA NPDES		TP
<a href="#">A7</a>	IOWA ARMY NATIONAL G	700 SNEDDEN DR	ICIS, US AIRS		TP
<a href="#">A8</a>	IOWA ARMY NATIONAL G	700 SNEDDEN DRIVE	IA NPDES		TP
<a href="#">A9</a>	FMS #10, AASF #1	700 SNEDDEN DR. ROAD	IA TIER 2		TP
<a href="#">10</a>	MIDLAND BIOPRODUCTS	800 SNEDDEN DR	RCRA NonGen / NLR	Higher	83, 0.016, SW
<a href="#">B11</a>	IOWA DEPT OF TRANSPOR	400 AIRPORT RD	RCRA-SQG, FINDS, ECHO	Higher	87, 0.016, WSW
<a href="#">B12</a>	IDOT MAINT SHED	301 CORPORAL RODGER	IA LUST, IA UST, IA Financial Assurance	Lower	177, 0.034, West
<a href="#">13</a>	BOONE MUNICIPAL AIRP	424 CORPORAL ROGER S	IA LUST, IA UST, FINDS, IA Financial Assurance	Lower	415, 0.079, NNE
<a href="#">14</a>	OMS #10	OMS #10 CPL SNEDDEN	IA UST	Higher	684, 0.130, SSW
<a href="#">15</a>	CHEKER UNIT #7878	RR 1 BOX 514	IA UST	Lower	1316, 0.249, North
<a href="#">16</a>	MADDEN LTD	2232 EAST 4TH	IA LUST, IA UST	Higher	2475, 0.469, NNW
<a href="#">17</a>	GATES RUBBER COMPANY	2121 INDUSTRIAL PARK	CORRACTS, RCRA-CESQG, US ENG CONTROLS, US INST...	Higher	5099, 0.966, NNW

## EXECUTIVE SUMMARY

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
IOWA ARMY NATIONAL G 700 SNEDDEN DR BOONE, IA 50036	FINDS Registry ID:: 110005755922  ECHO Registry ID: 110005755922	N/A
IOWA ARMY NATIONAL G 700 SNEDDEN DR BOONE, IA 50036	RCRA-SQG EPA ID:: IAD981503675  WI MANIFEST ACT Status: A FID: 0 EPA ID: IAD981503675	IAD981503675
IOWA ARMY NATIONAL G AASF 1, 700 SNEDDEN BOONE, IA 50036	IA AIRS Status: MINOR EI Facility Id: 08-01-030	N/A
OMS #10/AASF1 700 SNEDDEN DR BOONE, IA	IA RGA LUST Facility ID: 2723 Facility ID: 2724 Facility ID: 198605891	N/A
FMS10/AAS1 700 SNEDDEN DR BOONE, IA 50036	IA LUST Facility Id: 2723 Facility Id: 2724 Leak Status: Continuing Leak Status: Stopped  IA UST Facility Id: 6225 Registration: 198605891  IA Financial Assurance Database: Financial Assurance 1, Date of Government Version: 08/30/2018 Facility Id: 198605891  IA TIER 2 Facility Id: 866 Facility Id: FAIDSIT2A00000866	N/A
ARMY AVIATION SUPPOR 700 SNEDDEN DR. BOONE, IA 50036	IA NPDES	N/A
IOWA ARMY NATIONAL G 700 SNEDDEN DR BOONE, IA 50036	ICIS	N/A

## EXECUTIVE SUMMARY

FRS ID:: 110005755922

US AIRS

Database: US AIRS MINOR, Date of Government Version: 10/12/2016

IOWA ARMY NATIONAL G  
700 SNEDDEN DRIVE  
BOONE, IA 50036

IA NPDES

N/A

FMS #10, AASF #1  
700 SNEDDEN DR. ROAD  
BOONE, IA 50703

IA TIER 2

Facility Id: FAIDSIT2A00000866

State Id: IA

N/A

### **DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

### **STANDARD ENVIRONMENTAL RECORDS**

#### ***Federal NPL site list***

NPL..... National Priority List  
Proposed NPL..... Proposed National Priority List Sites  
NPL LIENS..... Federal Superfund Liens

#### ***Federal Delisted NPL site list***

Delisted NPL..... National Priority List Deletions

#### ***Federal CERCLIS list***

FEDERAL FACILITY..... Federal Facility Site Information listing  
SEMS..... Superfund Enterprise Management System

#### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

#### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

#### ***Federal RCRA generators list***

RCRA-LQG..... RCRA - Large Quantity Generators

## EXECUTIVE SUMMARY

### ***Federal institutional controls / engineering controls registries***

LUCIS..... Land Use Control Information System

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***State- and tribal - equivalent CERCLIS***

IA SHWS..... Registry of Hazardous Waste or Hazardous Substance Disposal Sites

### ***State and tribal landfill and/or solid waste disposal site lists***

IA SWF/LF..... Permitted Solid Waste Management Facilities

### ***State and tribal leaking storage tank lists***

IA LAST..... Leaking Aboveground Storage Tank Sites

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

### ***State and tribal registered storage tank lists***

FEMA UST..... Underground Storage Tank Listing

IA AST..... Aboveground Storage Tank Sites

INDIAN UST..... Underground Storage Tanks on Indian Land

### ***State and tribal institutional control / engineering control registries***

IA INST CONTROL..... Sites with Institutional Controls

### ***State and tribal voluntary cleanup sites***

IA VCP..... Land Recycling Program Sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

### ***State and tribal Brownfields sites***

IA BROWNFIELDS..... Brownfields Site Listing

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***Local Brownfield lists***

US BROWNFIELDS..... A Listing of Brownfields Sites

#### ***Local Lists of Landfill / Solid Waste Disposal Sites***

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

IHS OPEN DUMPS..... Open Dumps on Indian Land

#### ***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL..... Delisted National Clandestine Laboratory Register

## EXECUTIVE SUMMARY

IA DEL SHWS..... Delisted Contaminated Sites Listing  
US CDL..... National Clandestine Laboratory Register

### **Local Land Records**

IA LIENS..... Liens Filed Listing  
LIENS 2..... CERCLA Lien Information

### **Records of Emergency Release Reports**

HMIRS..... Hazardous Materials Information Reporting System  
IA SPILLS..... Spills Database  
IA SPILLS 90..... SPILLS 90 data from FirstSearch

### **Other Ascertainable Records**

FUDS..... Formerly Used Defense Sites  
DOD..... Department of Defense Sites  
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
EPA WATCH LIST..... EPA WATCH LIST  
TSCA..... Toxic Substances Control Act  
TRIS..... Toxic Chemical Release Inventory System  
SSTS..... Section 7 Tracking Systems  
ROD..... Records Of Decision  
RMP..... Risk Management Plans  
RAATS..... RCRA Administrative Action Tracking System  
PRP..... Potentially Responsible Parties  
PADS..... PCB Activity Database System  
MLTS..... Material Licensing Tracking System  
COAL ASH DOE..... Steam-Electric Plant Operation Data  
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List  
PCB TRANSFORMER..... PCB Transformer Registration Database  
RADINFO..... Radiation Information Database  
DOT OPS..... Incident and Accident Data  
CONSENT..... Superfund (CERCLA) Consent Decrees  
INDIAN RESERV..... Indian Reservations  
FUSRAP..... Formerly Utilized Sites Remedial Action Program  
UMTRA..... Uranium Mill Tailings Sites  
LEAD SMELTERS..... Lead Smelter Sites  
US MINES..... Mines Master Index File  
ABANDONED MINES..... Abandoned Mines  
UXO..... Unexploded Ordnance Sites  
DOCKET HWC..... Hazardous Waste Compliance Docket Listing  
FUELS PROGRAM..... EPA Fuels Program Registered Listing  
IA COAL ASH..... Coal Ash Disposal Site Listing  
IA DRYCLEANERS..... Iowa Drycleaner List

### **EDR HIGH RISK HISTORICAL RECORDS**

#### **EDR Exclusive Records**

EDR MGP..... EDR Proprietary Manufactured Gas Plants  
EDR Hist Auto..... EDR Exclusive Historical Auto Stations  
EDR Hist Cleaner..... EDR Exclusive Historical Cleaners

## EXECUTIVE SUMMARY

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

IA RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal RCRA CORRACTS facilities list***

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>GATES RUBBER COMPANY</i></b> EPA ID:: IAD085372506	<b><i>2121 INDUSTRIAL PARK</i></b>	<b><i>NNW 1/2 - 1 (0.966 mi.)</i></b>	<b><i>17</i></b>	<b><i>53</i></b>

#### ***Federal RCRA generators list***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>IOWA DEPT OF TRANSP</i></b>	<b><i>400 AIRPORT RD</i></b>	<b><i>WSW 0 - 1/8 (0.016 mi.)</i></b>	<b><i>B11</i></b>	<b><i>35</i></b>

## EXECUTIVE SUMMARY

EPA ID:: IAD981500242

### State and tribal leaking storage tank lists

IA LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Natural Resources' Underground Storage Tank Data list.

A review of the IA LUST list, as provided by EDR, and dated 08/30/2018 has revealed that there are 3 IA LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MADDEN LTD</b> Facility Id: 5911 Leak Status: Stopped	<b>2232 EAST 4TH</b>	<b>NNW 1/4 - 1/2 (0.469 mi.)</b>	<b>16</b>	<b>49</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>IDOT MAINT SHED</b> Facility Id: 4345 Leak Status: Stopped	<b>301 CORPORAL RODGER</b>	<b>W 0 - 1/8 (0.034 mi.)</b>	<b>B12</b>	<b>37</b>
<b>BOONE MUNICIPAL AIRP</b> Facility Id: 908 Leak Status: Unknown	<b>424 CORPORAL ROGER S</b>	<b>NNE 0 - 1/8 (0.079 mi.)</b>	<b>13</b>	<b>42</b>

### State and tribal registered storage tank lists

IA UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Natural Resources' Underground Storage Tank Data list.

A review of the IA UST list, as provided by EDR, and dated 08/30/2018 has revealed that there are 4 IA UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>OMS #10</b> Facility Id: 6226 Registration: 198605892	<b>OMS #10 CPL SNEDDEN</b>	<b>SSW 1/8 - 1/4 (0.130 mi.)</b>	<b>14</b>	<b>48</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>IDOT MAINT SHED</b> Facility Id: 9462 Registration: 198609348	<b>301 CORPORAL RODGER</b>	<b>W 0 - 1/8 (0.034 mi.)</b>	<b>B12</b>	<b>37</b>
<b>BOONE MUNICIPAL AIRP</b> Facility Id: 1918 Registration: 198601365	<b>424 CORPORAL ROGER S</b>	<b>NNE 0 - 1/8 (0.079 mi.)</b>	<b>13</b>	<b>42</b>
<b>CHEKER UNIT #7878</b>	<b>RR 1 BOX 514</b>	<b>N 1/8 - 1/4 (0.249 mi.)</b>	<b>15</b>	<b>48</b>

## EXECUTIVE SUMMARY

Facility Id: 9295  
Registration: 198609174

### ADDITIONAL ENVIRONMENTAL RECORDS

#### ***Other Ascertainable Records***

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

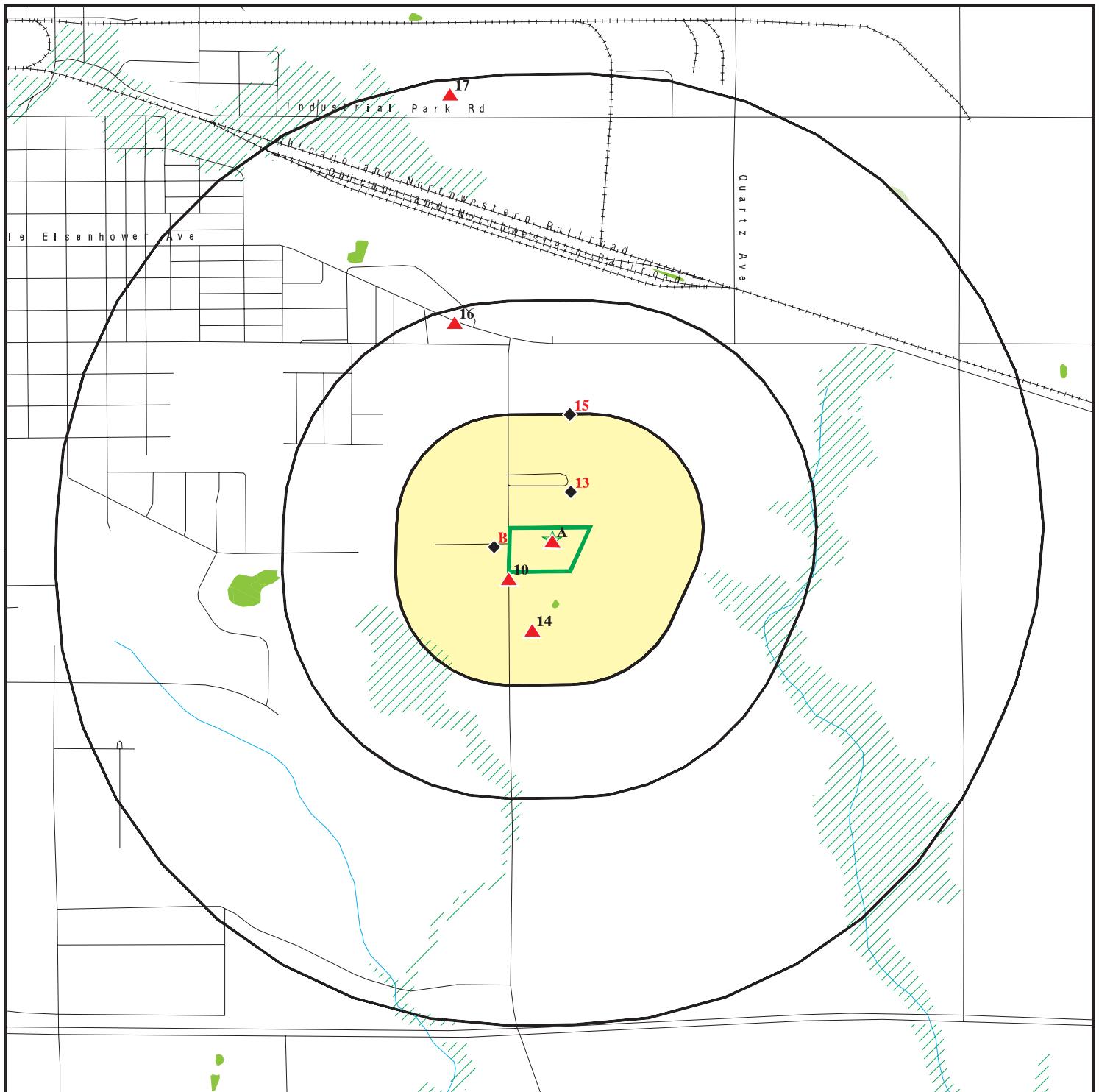
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MIDLAND BIOPRODUCTS EPA ID:: IA0000464230	800 SNEDDEN DR	SW 0 - 1/8 (0.016 mi.)	10	33

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

<u>Site Name</u>	<u>Database(s)</u>
BOONE MUNICIPAL AIRPORT APRON REHA	IA NPDES
BOONE MUNICIPAL AIRPORT - CONSTRU	IA NPDES
CITY OF BOONE - EASTGATE DRIVE - G	IA NPDES

# OVERVIEW MAP - 5454361.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Upgradient Area

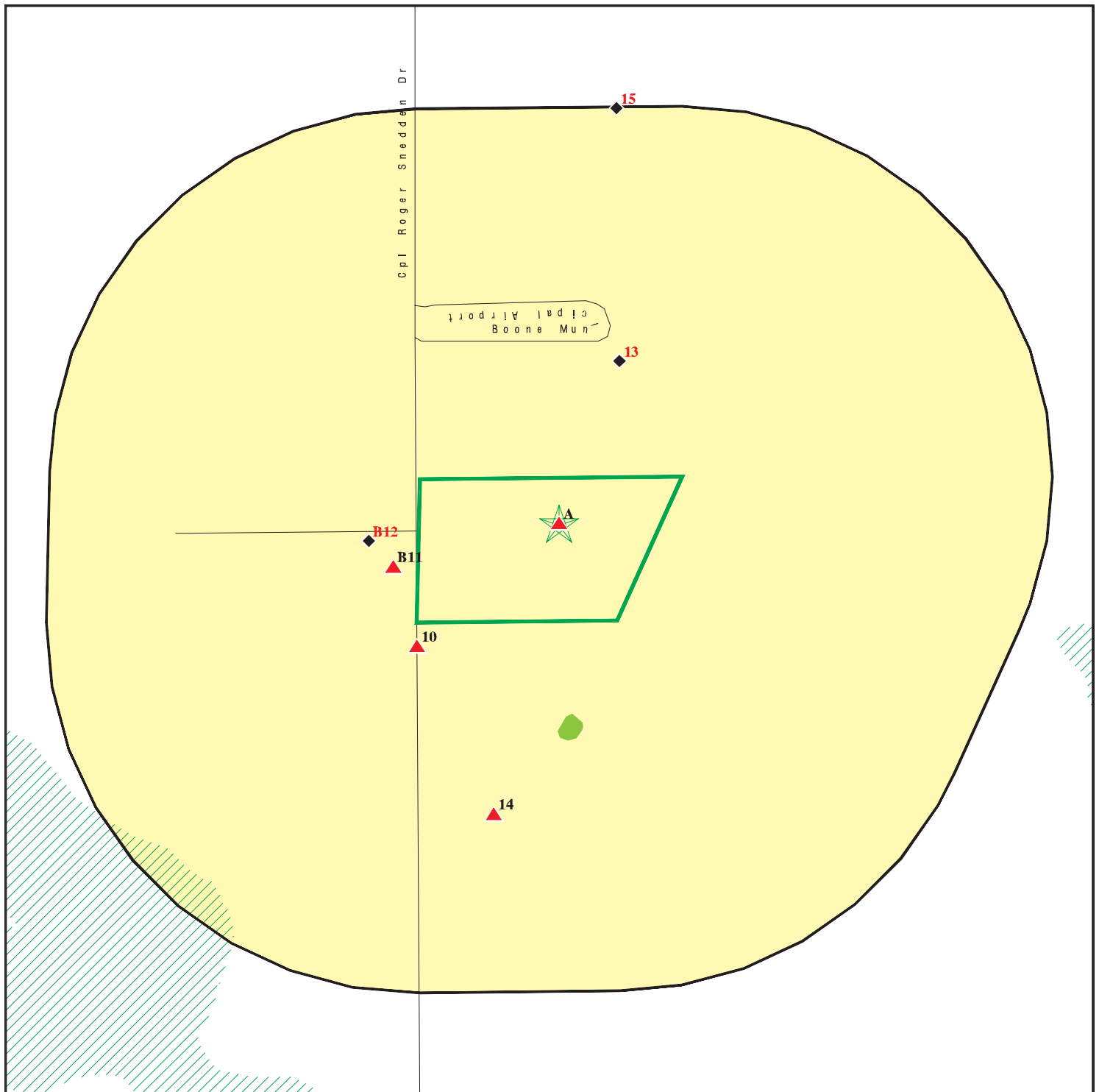


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Boone AASF  
ADDRESS: 700 Corporal Snedden Drive  
Boone IA 50036  
LAT/LONG: 42.050236 / 93.852445

CLIENT: AECOM  
CONTACT: Brittany Kirchmann  
INQUIRY #: 5454361.2s  
DATE: October 16, 2018 8:56 am

# DETAIL MAP - 5454361.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Boone AASF  
 ADDRESS: 700 Corporal Snedden Drive  
 Boone IA 50036  
 LAT/LONG: 42.050236 / 93.852445

CLIENT: AECOM  
 CONTACT: Brittany Kirchmann  
 INQUIRY #: 5454361.2s  
 DATE: October 16, 2018 8:58 am

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	1	NR	1
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250	1	1	0	NR	NR	NR	2
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
IA SHWS	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
IA SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
IA LUST	0.500	1	2	0	1	NR	NR	4
IA LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
IA UST	0.250	1	2	2	NR	NR	NR	5
IA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
IA INST CONTROL	0.500		0	0	0	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
IA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
IA BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
IA ALLSITES	0.500		0	0	0	NR	NR	0
IA DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
IA LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
IA SPILLS	TP		NR	NR	NR	NR	NR	0
IA SPILLS 90	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP	1	NR	NR	NR	NR	NR	1
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP	1	NR	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
ECHO	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
IA AIRS	TP	1	NR	NR	NR	NR	NR	1
IA COAL ASH	0.500		0	0	0	NR	NR	0
IA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
IA Financial Assurance	TP	1	NR	NR	NR	NR	NR	1
WI MANIFEST	0.250	1	0	0	NR	NR	NR	1
IA NPDES	TP	2	NR	NR	NR	NR	NR	2
IA TIER 2	TP	2	NR	NR	NR	NR	NR	2

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

IA RGA HWS	TP		NR	NR	NR	NR	NR	0
------------	----	--	----	----	----	----	----	---

## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
IA RGA LUST	TP	1	NR	NR	NR	NR	NR	1
- Totals --		15	6	2	1	1	0	25

### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1**  
**Target**  
**Property** **IOWA ARMY NATIONAL GUARD-OMS 10/AASF 1**  
**700 SNEDDEN DR**  
**BOONE, IA 50036**

**FINDS** **1016085221**  
**ECHO** **N/A**

**Site 1 of 9 in cluster A**

**Actual:**  
**1140 ft.**

FINDS:

Registry ID: 110005755922

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AFS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

AIR MINOR

IDNR-EFD (Iowa Department Of Natural Resources - Emission Factor Documentation) provides information about existing emission factors

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1016085221  
Registry ID: 110005755922  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110005755922>

**A2**  
**Target**  
**Property** **IOWA ARMY NATIONAL GUARD - FMS 10/AASF 1**  
**700 SNEDDEN DR**  
**BOONE, IA 50036**

**RCRA-SQG** **1000152719**  
**WI MANIFEST** **IAD981503675**

**Site 2 of 9 in cluster A**

**Actual:**  
**1140 ft.**

RCRA-SQG:

Date form received by agency: 09/11/2014  
Facility name: IOWA ARMY NATIONAL GUARD - FMS 10/AASF 1  
Facility address: 700 SNEDDEN DR  
BOONE, IA 50036-5411  
EPA ID: IAD981503675  
Mailing address: NW 70TH AVE, ENV OFFICE  
BLDG B61 (3535) CAMP DODGE  
JOHNSTON, IA 50131-1902

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IOWA ARMY NATIONAL GUARD - FMS 10/AASF 1 (Continued)**

**1000152719**

Contact: CURTIS L MADSEN  
Contact address: NW 70TH AVE, ENV OFFICE BLDG B61 (3535) CAMP DODGE  
JOHNSTON, IA 50131-1902  
Contact country: US  
Contact telephone: 515-252-4557  
Contact email: CURTIS.L.MADSEN@NFG.MAIL.MIL  
EPA Region: 07  
Land type: State  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Owner/Operator Summary:**

Owner/operator name: IOWA ARMY NATIONAL GUARD  
Owner/operator address: NW 70TH AVE, ENV OFFICE BLDG B61 (3535) CAMP DODGE  
JOHNSTON, IA 50131  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: State  
Owner/Operator Type: Operator  
Owner/Op start date: 12/31/1959  
Owner/Op end date: Not reported

Owner/operator name: STATE OF IOWA  
Owner/operator address: AGIA-FAC-E 7700 NW BEAVER DR  
JOHNSTON, IA 50131  
Owner/operator country: Not reported  
Owner/operator telephone: 515-252-4557  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: State  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: IOWA ARMY NATIONAL GUARD  
Owner/operator address: NW 70TH AVE, ENV OFFICE BLDG B61 (3535) CAMP DODGE  
JOHNSTON, IA 50131  
Owner/operator country: US  
Owner/operator telephone: Not reported  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: State  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

**Handler Activities Summary:**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

IOWA ARMY NATIONAL GUARD - FMS 10/AASF 1 (Continued)

1000152719

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

. Waste code: D006  
. Waste name: CADMIUM

. Waste code: D007  
. Waste name: CHROMIUM

. Waste code: D008  
. Waste name: LEAD

. Waste code: F002  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Historical Generators:

Date form received by agency: 02/19/2004  
Site name: IOWA ARMY NATIONAL GUARD-OMS 10/AASF 1  
Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D002  
. Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

IOWA ARMY NATIONAL GUARD - FMS 10/AASF 1 (Continued)

1000152719

DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

. Waste code: D006  
. Waste name: CADMIUM

. Waste code: D007  
. Waste name: CHROMIUM

. Waste code: D008  
. Waste name: LEAD

. Waste code: D009  
. Waste name: MERCURY

. Waste code: D018  
. Waste name: BENZENE

. Waste code: D039  
. Waste name: TETRACHLOROETHYLENE

. Waste code: F001  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F004  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: CRESOLS AND CRESYLIC ACID, AND NITROBENZENE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

IOWA ARMY NATIONAL GUARD - FMS 10/AASF 1 (Continued)

1000152719

OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

- . Waste code: F005
- . Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 03/06/2000

Site name: IOWA ARMY NATIONAL GUARD-OMS 10/AASF 1

Classification: Small Quantity Generator

- . Waste code: D001
- . Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSLEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

- . Waste code: D002
- . Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

- . Waste code: D006
- . Waste name: CADMIUM

- . Waste code: D007
- . Waste name: CHROMIUM

- . Waste code: D008
- . Waste name: LEAD

- . Waste code: D009
- . Waste name: MERCURY

- . Waste code: D018
- . Waste name: BENZENE

- . Waste code: D039
- . Waste name: TETRACHLOROETHYLENE

- . Waste code: F001
- . Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

IOWA ARMY NATIONAL GUARD - FMS 10/AASF 1 (Continued)

1000152719

FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F002  
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F004  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: CRESOLS AND CRESYLIC ACID, AND NITROBENZENE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005  
. Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 02/11/1994

Site name: IOWA ARMY NATIONAL GUARD-OMS 10/AASF 1

Classification: Not a generator, verified

. Waste code: D000  
. Waste name: Not Defined

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 11/15/1994

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IOWA ARMY NATIONAL GUARD - FMS 10/AASF 1 (Continued)**

**1000152719**

Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: EPA Contractor/Grantee

**WI MANIFEST:**

Year: 2005  
EPA ID: IAD981503675  
FID: 0  
ACT Code: 203  
ACT Status: A  
ACT Code 1: 203  
ACT Name: HW Generator - Very Small  
Contact Title: Not reported  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City/State/Zip: 0  
Contact Telephone: 0  
Contact EMail Address: Not reported

Year: 2004  
EPA ID: IAD981503675  
FID: 0  
ACT Code: 203  
ACT Status: A  
ACT Code 1: 203  
ACT Name: HW Generator - Very Small  
Contact Title: Not reported  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City/State/Zip: Not reported  
Contact Telephone: Not reported  
Contact EMail Address: Not reported

**A3**  
**Target**  
**Property**

**IOWA ARMY NATIONAL GUARD - BOONE**  
**AASF 1, 700 SNEDDEN DR**  
**BOONE, IA 50036**

**IA AIRS** **S108941263**  
**N/A**

**Site 3 of 9 in cluster A**

**Actual:**  
**1140 ft.**

**AIRS:**  
Facility Number: 08-01-030  
Status: MINOR EI  
Closed?: Not reported  
Region: CENTRAL  
Site ID: 100000024966  
Contact Phone: 515-252-4396  
Facility Contact Phone: Not reported  
Mailing Address: NGIA-DIM\_E, BLDG 3535, CAMP DODGE  
Mailing Address 2: Not reported  
SIC Primary: Not reported  
NAICS Primary: Not reported

**AIRS:**  
Facility ID: 08-01-030  
NAICS Code: 928110  
Year: 2016

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

IOWA ARMY NATIONAL GUARD - BOONE (Continued)

S108941263

PM25:	Not reported
PM10:	Not reported
SO2:	Not reported
NOX:	Not reported
VOC:	Not reported
CO:	Not reported
Lead:	Not reported
Ozone:	Not reported
Ammonia:	Not reported
HAP:	Not reported
Antimony:	Not reported
Arsenic:	Not reported
Beryllium:	Not reported
Cadmium:	Not reported
Chromium:	Not reported
Cobalt:	Not reported
Cokeoven:	Not reported
Cyanide:	Not reported
Finemat:	Not reported
Glycol:	Not reported
H2SO4:	Not reported
Manganese:	Not reported
Mercury:	Not reported
Nickel:	Not reported
Pom:	Not reported
Radionclide:	Not reported
Selenium:	Not reported

A4  
Target  
Property

OMS #10/AASF1  
700 SNEDDEN DR  
BOONE, IA

IA RGA LUST

S116264386  
N/A

Site 4 of 9 in cluster A

Actual:  
1140 ft.

RGA LUST:

2012	OMS #10/AASF1	700 SNEDDEN DR
2012	OMS #10/AASF1	700 SNEDDEN DR
2011	OMS #10/AASF1	700 SNEDDEN DR
2009	OMS #10/AASF1	700 SNEDDEN DR
2007	OMS #10/AASF1	700 SNEDDEN DR
2006	OMS #10/AASF1	700 SNEDDEN DR
2005	OMS #10/AASF1	700 SNEDDEN DR
2004	OMS #10/AASF1	700 SNEDDEN DR
2003	OMS #10/AASF1	700 SNEDDEN DR
1999	OMS #10/AASF1	700 SNEDDEN DR

A5  
Target  
Property

FMS10/AAS1  
700 SNEDDEN DR  
BOONE, IA 50036

IA LUST

U003170240  
N/A

IA UST

IA Financial Assurance  
IA TIER 2

Site 5 of 9 in cluster A

Actual:  
1140 ft.

LUST:

Facility ID:	2723
Spill Number:	Not reported
Occur Date:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FMS10/AAS1 (Continued)**

**U003170240**

Discover Date: 09/08/1993  
Discover Time: 2:30PM  
Record Date: 09/08/1993  
Leak Number: 8LTW96  
Loc ID: 65077  
Ust ID: 6225  
Latitude: 42.04973  
Longitude: -93.85333  
Start Date: 09/10/1993  
Spill Date: Not reported  
Date Occurred Time: Not reported  
Lead ID: 5  
Coordinator ID: 5  
Staff ID: Not reported  
Discover Method ID: 5  
Leak Status: Continuing  
Tanks Removed: Not reported  
Created Date: 01/08/2007  
Created By: migration  
Last Changed: 01/08/2007  
Changed By: migration

**Lust Status:**

ID: 2724  
Site Leak Number: 8LTW96  
Discovered During: Other  
Tanks Removed: 00  
Leak Cause: UNK  
Gas: Not reported  
Diesel: Not reported  
Oil: Not reported  
Kerosene: Not reported  
Released Fuel Oil: Not reported  
Released Hydraulic Oil: Not reported  
Released Other Petroleum: Yes  
Released Unknown: Not reported  
Released Non\_Petroleum Chemical: Not reported  
Gallons Released: Not reported  
Leak Status: Continuing  
Loc Soil: Not reported  
Loc Ground Water: Yes  
Loc Surface Water: Not reported  
Loc Water Supply: Not reported  
Res Public Water Supply: Not reported  
Resources Water Well: Not reported  
Res Actual Drinking WW: Not reported  
Res Non-Drink WW: Not reported  
Res Soil: Not reported  
Res Ground Water: Not reported  
Res Surface Water: Not reported  
Res Toxic Vapor: Not reported  
Res Explosive Vapor: Not reported  
Res Other: Not reported  
Res Impacted Soil: Not reported  
Res Impacted Ground Water: Not reported  
Res Impacted Water Well: Not reported  
Res Impacted Pub Water Supply: Not reported  
Res Impacted Surface Water: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FMS10/AAS1 (Continued)**

**U003170240**

Res Impacted Toxic Vapor:	Not reported
Res Impacted Explosive Vapor:	Not reported
Res Impacted Other:	Not reported
Res Impacted Drinking WW:	Not reported
Res Impacted Non-Drink WW:	Not reported
Res Impacted Potential Non Drink WW:	Not reported
Officials Onsite Health:	Not reported
Officials Onsite Fire:	Not reported
Officials Onsite Law:	Not reported
Officials Onsite Civil:	Not reported
Officials Onsite None:	Not reported
Officials Onsite Unknown:	Yes
Officials Onsite Other:	Not reported
AST:	Not reported
UST/LUST Other:	Not reported
Delete:	False
Status Memo:	Not reported

Lust Cause:

Release Cause:	Unknown
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Lust Misc:

Misc Due Date:	04/05/1994	Misc Rec Date:	10/13/1994
Misc Other:	Not reported	Misc Title:	Not reported

Lust Remediation:

Heat Treatment:	False
Land Application:	False
On Site:	False
Achieved Over-Excavation:	False
Soil Venting Passive:	False
Soil Venting Active:	False
BioRemediation Passive:	False
BioRemediation Active:	False
In Situ GW Treatment - Air Sparging:	False
Ground Water:	False
Fresh Water:	False
IGT - pH Adjustment:	False
Nutrient:	False
Oxygen:	False
Biological:	False
Permit Date:	Not reported
Other:	False
Surface Treatment - Carbon Absorption:	False
Biological:	False
ST Other:	False
TDT Sanitary Sewer:	False
TDT Storm Sewer:	False
Stream:	False
TDT Other:	False
Reduced Risk Plugged Well:	False
RR Replace:	False
RR Relocate:	False
RR Other:	False
Delete:	False
Rem Memo:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FMS10/AAS1 (Continued)**

**U003170240**

Lust Administration:

ID:	2724
Owner Identified:	Yes
Responsible Party Found:	Yes
RP Date:	09/10/1993
Owner Broke:	No
ER Date:	Not reported
Cost Recovery Start Dt:	Not reported
CR Notice of Intent Dt:	Not reported
CR Appeal of NOI Dt:	Not reported
CR Final Decision Dt:	Not reported
CR EP Comm Lien Approval Dt:	Not reported
CR Lien:	Not reported
CR Ten Yr Renewal Dt:	Not reported
CR Lien Named:	False
CR Remediation:	Not reported
Delete:	False
CR Amnt Received:	Not reported
CR End Date:	Not reported
Memo:	Not reported

Lust Track:

ID:	2724
Site Assesment Start Date:	09/24/1993
Free Product Recvry End Date:	Not reported
FP Letter Sent Date:	Not reported
FP Report Frequency:	Not reported
Assesment Report Due:	Not reported
Assesment Report Received:	Not reported
Assesment Report Approved:	Not reported
Achieved Over-Excavation:	Not reported
Release Not Verified Date:	1994-10-20
Ref to Contaminated Site Section:	Not reported
Cleanup Start Date:	Not reported
Cleanup Complete Date:	Not reported
Cleanup Report Due Date:	Not reported
Cleanup Report Received Date:	Not reported
Cleanup Report Approved Date:	Not reported
Check Report Due Date:	Not reported
Check Report Received Date:	Not reported
Check Report Rejected Date:	Not reported
Check Report Approved Date:	Not reported
Date Classified:	1994-10-20
Risk Classification -NFA:	True
Class - Low Risk:	False
Class - High Risk:	False
Lust Current:	No Action Required
Tier 1 Consultant Recommends:	Not reported
T1 Actual GW Ingestion:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 GW Vapor to Enclosed Space:	False
T1 GW to Plastic Water Line:	False
T1 Surface Water:	False
T1 Soil Leaching to GW:	False
T1 Soil Vapor to Enclosed Space:	False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FMS10/AAS1 (Continued)**

**U003170240**

T1 Soil to Plastic Line:	False
Tier 2 Consultant Recommends:	Not reported
T2 Actual GW Ingestion:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 GW Vapor to Enclosed Space:	Not reported
T2 GW to Plastic Water Line:	Not reported
T2 SW General Use:	Not reported
T2 SW Designated Use:	Not reported
T2 Soil Leaching to GW:	Not reported
T2 Soil Vapor to Enclosed Space:	Not reported
T2 Soil to Plastic Line:	Not reported
Institutional Control Obtained:	False
NFA Certificate Sent:	Not reported
<b>No Action Required:</b>	<b>False</b>
Priority Ranking:	Not reported
Delete:	False
Track Memo:	09/24/93: SCR LTR SENT TO RP.09/30/93: REC'D NOTIF. FROM RP: WILL PARTICIPATE IN BOONE CRP.01/11/94: REC'D SITE REPORT WITH GROUNDWATER SAMPLE RESULTS - NO BTEX; SOIL NOT INVESTIGATED. SITE CHECK REQUIRED IN LEIU OF SCR. REPORT DUE 4/4/94.10/13/94: REC'D SITE CHECK REPORT. CONTAMINATION NOT VERIFIED.

Facility ID:	2724
Spill Number:	Not reported
Occur Date:	Not reported
Discover Date:	Not reported
Discover Time:	Not reported
Record Date:	01/23/1990
Leak Number:	7LTJ16
Loc ID:	65078
Ust ID:	6225
Latitude:	42.04976
Longitude:	-93.85290
Start Date:	01/25/1990
Spill Date:	Not reported
Date Occurred Time:	Not reported
Lead ID:	4
Coordinator ID:	5
Staff ID:	5
Discover Method ID:	3
Leak Status:	Stopped
Tanks Removed:	Not reported
Created Date:	01/08/2007
Created By:	migration
Last Changed:	01/08/2007
Changed By:	migration

Lust Status:	
ID:	2725
Site Leak Number:	7LTJ16
Discovered During:	Removal
Tanks Removed:	3
Leak Cause:	Not reported
Gas:	Not reported
Diesel:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FMS10/AAS1 (Continued)**

**U003170240**

Oil:	Not reported
Kerosene:	Not reported
Released Fuel Oil:	Not reported
Released Hydraulic Oil:	Not reported
Released Other Petroleum:	Yes
Released Unknown:	Not reported
Released Non_Petroleum Chemical:	Not reported
Gallons Released:	000000000000
Leak Status:	Stopped
Loc Soil:	Not reported
Loc Ground Water:	Yes
Loc Surface Water:	Not reported
Loc Water Supply:	Not reported
Res Public Water Supply:	Not reported
Resources Water Well:	Not reported
Res Actual Drinking WW:	Not reported
Res Non-Drink WW:	Not reported
Res Soil:	Not reported
Res Ground Water:	Not reported
Res Surface Water:	Not reported
Res Toxic Vapor:	Not reported
Res Explosive Vapor:	Not reported
Res Other:	Not reported
Res Impacted Soil:	Not reported
Res Impacted Ground Water:	Not reported
Res Impacted Water Well:	Not reported
Res Impacted Pub Water Supply:	Not reported
Res Impacted Surface Water:	Not reported
Res Impacted Toxic Vapor:	Not reported
Res Impacted Explosive Vapor:	Not reported
Res Impacted Other:	Not reported
Res Impacted Drinking WW:	Not reported
Res Impacted Non-Drink WW:	Not reported
Res Impacted Potential Non Drink WW:	Not reported
Officials Onsite Health:	Not reported
Officials Onsite Fire:	Not reported
Officials Onsite Law:	Not reported
Officials Onsite Civil:	Not reported
Officials Onsite None:	Not reported
Officials Onsite Unknown:	Yes
Officials Onsite Other:	Not reported
AST:	Not reported
UST/LUST Other:	Not reported
Delete:	False
Status Memo:	Not reported

**Lust Misc:**

Misc Due Date: Not reported  
Misc Other: Not reported

Misc Rec Date: Not reported  
Misc Title: Not reported

**Lust Remediation:**

Heat Treatment: False  
Land Application: False  
On Site: False  
Achieved Over-Excavation: False  
Soil Venting Passive: False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FMS10/AAS1 (Continued)**

**U003170240**

Soil Venting Active:	False
BioRemediation Passive:	False
BioRemediation Active:	False
In Situ GW Treatment - Air Sparging:	False
Ground Water:	False
Fresh Water:	False
IGT - pH Adjustment:	False
Nutrient:	False
Oxygen:	False
Biological:	False
Permit Date:	Not reported
Other:	False
Surface Treatment - Carbon Absorption:	False
Biological:	False
ST Other:	False
TDT Sanitary Sewer:	False
TDT Storm Sewer:	False
Stream:	False
TDT Other:	False
Reduced Risk Plugged Well:	False
RR Replace:	False
RR Relocate:	False
RR Other:	False
Delete:	False
Rem Memo:	Not reported

Lust Tier 1 Report:

T1 Assesment Due:	09/04/1999
T1 Received:	08/06/1999
Tier 1 Consultant Recommends:	Not reported
T1 Accepted:	08/18/1999
T1 Rejected:	Not reported
T1 Revised:	Not reported
T1 Reviewed:	Not reported

Lust Administration:

ID:	2725
Owner Identified:	Yes
Responsible Party Found:	Yes
RP Date:	01/25/1990
Owner Broke:	No
ER Date:	Not reported
Cost Recovery Start Dt:	Not reported
CR Notice of Intent Dt:	Not reported
CR Appeal of NOI Dt:	Not reported
CR Final Decision Dt:	Not reported
CR EP Comm Lien Approval Dt:	Not reported
CR Lien:	Not reported
CR Ten Yr Renewal Dt:	Not reported
CR Lien Named:	False
CR Remediation:	Not reported
Delete:	False
CR Amnt Received:	Not reported
CR End Date:	Not reported
Memo:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

FMS10/AAS1 (Continued)

U003170240

Lust Track:

ID:	2725
Site Assessment Start Date:	02/08/1990
Free Product Recvry End Date:	Not reported
FP Letter Sent Date:	Not reported
FP Report Frequency:	Not reported
Assesment Report Due:	Not reported
Assesment Report Received:	Not reported
Assesment Report Approved:	Not reported
Achieved Over-Excavation:	Not reported
Release Not Verified Date:	Not reported
Ref to Contaminated Site Section:	Not reported
Cleanup Start Date:	1995-08-07
Cleanup Complete Date:	1999-08-18
Cleanup Report Due Date:	1993-06-14
Cleanup Report Received Date:	1995-01-15
Cleanup Report Approved Date:	1995-08-07
Check Report Due Date:	Not reported
Check Report Received Date:	Not reported
Check Report Rejected Date:	Not reported
Check Report Approved Date:	Not reported
Date Classified:	1999-08-18
Risk Classification -NFA:	True
Class - Low Risk:	False
Class - High Risk:	False
Lust Current:	No Action Required
Tier 1 Consultant Recommends:	NFA
T1 Actual GW Ingestion:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 GW Vapor to Enclosed Space:	False
T1 GW to Plastic Water Line:	False
T1 Surface Water:	False
T1 Soil Leaching to GW:	False
T1 Soil Vapor to Enclosed Space:	False
T1 Soil to Plastic Line:	False
Tier 2 Consultant Recommends:	Not reported
T2 Actual GW Ingestion:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 GW Vapor to Enclosed Space:	Not reported
T2 GW to Plastic Water Line:	Not reported
T2 SW General Use:	Not reported
T2 SW Designated Use:	Not reported
T2 Soil Leaching to GW:	Not reported
T2 Soil Vapor to Enclosed Space:	Not reported
T2 Soil to Plastic Line:	Not reported
Institutional Control Obtained:	False
NFA Certificate Sent:	1999-10-13
<b>No Action Required:</b>	<b>False</b>
Priority Ranking:	5
Delete:	False
Track Memo:	06/07/90: WORK PLAN OVERDUE LETTER SENT. MKR01/16/91: DNR LETTER SENT FACILITY APPROVING ASSESSMENT WORK PLAN. ACTIVITY REPORT TO BE TO DNR BY 4/18/91.08/30/91: CONSULTANT CALLED REGARDING ASSESSMENT; WILL BE IN MID-SEPT.12/11/92: SCR LETTER SENT, WITH COMMENT. SITE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

FMS10/AAS1 (Continued)

U003170240

HISTORY: SAR REC'D 9/13/91. FILE REVIEWED BY CONTRACTOR USING SCR CRITERIA.02/24/93: RP INTENDS TO OPT INTO BOONE CRP.06/20/94: SITE ADDED TO CRP.01/15/95: REC'D SCR.08/07/95: SCR REV'D: LOW RISK. MONITORING REQUIRED THRU 7/30/07.07/30/98: REC'D SMR.08/06/99: REC'D TIER 1 REPORT & DISK.08/18/99: TIER 1 REV'D: ACCEPTED. SITE IS NO ACTION REQUIRED. NFA CERT AVAILABLE ON REQUEST - JRG.09/24/99: REC'D LEGAL DESCRIPTION AND WELL PLUGGING RECORDS. REQUEST NFA CERTIFICATE. (WDG)10/01/99: FORWARDED REQUEST FOR NFA CERTIFICATE TO SHERRY BLAISDELL FOR PROCESSING. (WDG)

UST:

Facility Id: 6225  
Loc Id: 6225  
Registration: 198605891  
Owner Type: Federal  
Financial Code: 13  
Insurer's Name: Federal Government  
Policy Number: Not reported  
Policy Start Date: 09/09/9999  
Policy End Date: 09/10/9999  
Registration Sign Date: 06/28/1993  
Created By: migration  
Created Date: 01/08/2007  
Changed By: Ingle.Cara  
Last Changed: 08/21/2018  
Latitude: 42.04973  
Longitude: -93.85333  
Otype ID Decode: Federal

Tank Info:

Tank Num: 45399  
In Use: True  
Tank Type: 1  
Tank Brand Id: 2  
Inert Material Id: Not reported  
Filled In Place: False  
Material Construction: Steel Int. Lined with Fiberglass  
Emergency Power Gen: False

Tank Num: 45400  
In Use: True  
Tank Type: 1  
Tank Brand Id: 2  
Inert Material Id: Not reported  
Filled In Place: False  
Material Construction: Steel Int. Lined with Fiberglass  
Emergency Power Gen: False

Tank Num: 17173  
In Use: False  
Tank Type: 4  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Double Wall FRP

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FMS10/AAS1 (Continued)**

**U003170240**

Emergency Power Gen:	Not reported
Tank Num:	17174
In Use:	False
Tank Type:	4
Tank Brand Id:	Not reported
Inert Material Id:	Not reported
Filled In Place:	Not reported
Material Construction:	Double Wall FRP
Emergency Power Gen:	Not reported
Tank Num:	17175
In Use:	False
Tank Type:	4
Tank Brand Id:	Not reported
Inert Material Id:	Not reported
Filled In Place:	Not reported
Material Construction:	Double Wall Steel
Emergency Power Gen:	Not reported
Tank Num:	17176
In Use:	False
Tank Type:	4
Tank Brand Id:	Not reported
Inert Material Id:	Not reported
Filled In Place:	True
Material Construction:	Double Wall Steel
Emergency Power Gen:	Not reported
Tank Num:	17177
In Use:	True
Tank Type:	4
Tank Brand Id:	Not reported
Inert Material Id:	Not reported
Filled In Place:	False
Material Construction:	Double Wall FRP
Emergency Power Gen:	False
Tank Num:	17178
In Use:	True
Tank Type:	4
Tank Brand Id:	Not reported
Inert Material Id:	Not reported
Filled In Place:	False
Material Construction:	Double Wall FRP
Emergency Power Gen:	False
Tank Num:	17179
In Use:	True
Tank Type:	4
Tank Brand Id:	Not reported
Inert Material Id:	Not reported
Filled In Place:	False
Material Construction:	Double Wall FRP
Emergency Power Gen:	False
Tank Num:	17180

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FMS10/AAS1 (Continued)**

**U003170240**

In Use: True  
Tank Type: 4  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Steel Int. Lined with Fiberglass  
Emergency Power Gen: Not reported

**IA Financial Assurance 1:**

Facility ID: 198605891  
Insurers Name: Federal Government  
Policy End Date: 09/10/9999  
Site Status: Not reported  
Financial Code: 13  
Policy Number: Not reported  
Policy Start Date: 09/09/9999

**TIER 2:**

Report Year: 2017  
Facility Id: 866  
Id: 9711  
Description: NATIONAL SECURITY SIC  
Last Modified: Not reported

Id: 928110  
Description: National Security NAICS  
Last Modified: Not reported

State Id: Not reported  
Fire District: Boone Fire Department  
Site Map: Not reported  
Site Coord Abbreviation: Not reported  
Date Signed: 01/14/2008  
Date Modified: 01/02/2018  
Dike Or Other Safeguard: Not reported  
Mailing Address: Not reported  
Mail City: Not reported  
Mail State: IA  
Mail Zip: Not reported  
Latitude: 42.04799  
Longitude: -93.85389  
Notes: Not reported

**Contact:**

Report Year: 2017  
Contact Id: 199181  
Date Modified: Not reported  
First Name: Harlan  
Last Name: Ratcliff  
Title: Not reported  
Email: harlan.r.ratcliff.nfg@mail.mil  
Address: 7105 NW 70th Avenue  
City: Johnston  
Country: US  
State: IA  
Zip Code: 50131

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FMS10/AAS1 (Continued)**

**U003170240**

Type1:	Owner / Operator
Last Modified:	Not reported
Telephone:	515-252-4396
Telephone Type:	Work
Chemical:	
Report Year:	2017
Chem Inv Record Id:	5033
CICAS:	8008-20-6
EHS Chemical:	Not reported
Chemical Name:	Jet Fuel Kerosene (F-24)
Acute:	Not reported
Ave Amount:	147000
Ave Amount Code:	10
Max Amount:	198000
Max Amount Code:	10
Chronic:	Not reported
Last Modified:	Not reported
Days On Site:	365
Fire:	Not reported
Gas:	Not reported
Liquid:	True
Mixture:	True
Pressure:	Not reported
Pure:	Not reported
Reactive:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Report Year:	2017
Facility Id:	866
Id:	9711
Description:	NATIONAL SECURITY SIC
Last Modified:	Not reported
Id:	928110
Description:	National Security NAICS
Last Modified:	Not reported
State Id:	Not reported
Fire District:	Boone Fire Department
Site Map:	Not reported
Site Coord Abbreviation:	Not reported
Date Signed:	01/14/2008
Date Modified:	01/02/2018
Dike Or Other Safeguard:	Not reported
Mailing Address:	Not reported
Mail City:	Not reported
Mail State:	IA
Mail Zip:	Not reported
Latitude:	42.04799
Longitude:	-93.85389
Notes:	Not reported
Contact:	
Report Year:	2017
Contact Id:	199181

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FMS10/AAS1 (Continued)**

**U003170240**

Date Modified: Not reported  
First Name: Harlan  
Last Name: Ratcliff  
Title: Not reported  
Email: harlan.r.ratcliff.nfg@mail.mil  
Address: 7105 NW 70th Avenue  
City: Johnston  
Country: US  
State: IA  
Zip Code: 50131  
Type1: Owner / Operator  
Last Modified: Not reported  
Telephone: 515-252-4396  
Telephone Type: Work

**Chemical:**

Report Year: 2017  
Chem Inv Record Id: 5033  
CICAS: 8008-20-6  
EHS Chemical: Not reported  
Chemical Name: Jet Fuel Kerosene (F-24)  
Acute: Not reported  
Ave Amount: 147000  
Ave Amount Code: 10  
Max Amount: 198000  
Max Amount Code: 10  
Chronic: Not reported  
Last Modified: Not reported  
Days On Site: 365  
Fire: Not reported  
Gas: Not reported  
Liquid: True  
Mixture: True  
Pressure: Not reported  
Pure: Not reported  
Reactive: Not reported  
Solid: Not reported  
Trade Secret: Not reported

Report Year: 2016  
Facility Id: 866  
State Id: Not reported  
Fire District: Boone Fire Department  
Site Map: Not reported  
Site Coord Abbreviation: Not reported  
Date Signed: 01/14/2008  
Date Modified: 01/06/2017  
Dike Or Other Safeguard: Not reported  
Mailing Address: Not reported  
Mail City: Not reported  
Mail State: IA  
Mail Zip: Not reported  
Latitude: 42.04799  
Longitude: -93.85389  
Notes: Not reported

Report Year: 2015

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FMS10/AAS1 (Continued)**

**U003170240**

Facility Id: 866  
State Id: Not reported  
Fire District: Boone Fire Department  
Site Map: Not reported  
Site Coord Abbreviation: Not reported  
Date Signed: 01/14/2008  
Date Modified: 01/14/2016  
Dike Or Other Safeguard: Not reported  
Mailing Address: Not reported  
Mail City: Not reported  
Mail State: IA  
Mail Zip: Not reported  
Latitude: 42.04799  
Longitude: -93.85389  
Notes: Not reported

Report Year: 2014  
Facility Id: 866  
State Id: Not reported  
Fire District: Boone Fire Department  
Site Map: Not reported  
Site Coord Abbreviation: Not reported  
Date Signed: 01/14/2008  
Date Modified: 01/16/2015  
Dike Or Other Safeguard: Not reported  
Mailing Address: Not reported  
Mail City: Not reported  
Mail State: IA  
Mail Zip: Not reported  
Latitude: 42.04799  
Longitude: -93.85389  
Notes: Not reported

Report Year: 2013  
Facility Id: 866  
State Id: Not reported  
Fire District: Boone Fire Department  
Site Map: Not reported  
Site Coord Abbreviation: Not reported  
Date Signed: 01/14/2008  
Date Modified: 02/26/2014  
Dike Or Other Safeguard: Not reported  
Mailing Address: Not reported  
Mail City: Not reported  
Mail State: IA  
Mail Zip: Not reported  
Latitude: 42.04799  
Longitude: -93.85389  
Notes: Not reported

Report Year: 2012  
Facility Id: FAIDSIT2A00000866  
State Id: Not reported  
Fire District: Boone Fire Department  
Site Map: False  
Site Coord Abbreviation: False  
Date Signed: 02/14/2013

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FMS10/AAS1 (Continued)**

**U003170240**

Date Modified: 02/14/2013  
Dike Or Other Safeguard: False  
Mailing Address: Not reported  
Mail City: Not reported  
Mail State: Not reported  
Mail Zip: Not reported  
Latitude: 42.04799  
Longitude: -93.85389  
Notes: Not reported

**A6  
Target  
Property**

**ARMY AVIATION SUPPORT FACILITY #1  
700 SNEDDEN DR.  
BOONE, IA 50036**

**IA NPDES S122561881  
N/A**

**Site 6 of 9 in cluster A**

**Actual:  
1140 ft.**

NPDES:  
Permit Number: Not reported  
Epa Npdes Id Number: Not reported  
Permit Expiration Date: 09/30/2018  
Facility Name: ARMY AVIATION SUPPORT FACILITY #1  
Facility Address1: 700 SNEDDEN DR.  
Facility City: BOONE  
Facility Phone Number: Not reported  
Facility Type: Not reported  
Facility Class: Not reported  
Standard Industrial Classification Code: Not reported  
Owner Name: IOWA ARMY NATIONAL GUARD  
Owner Add1: Not reported  
Owner Add2: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner Zip: Not reported  
Owner Phone: Not reported  
Indr Regional/Field Office Number: Not reported  
Section: Not reported  
Township: Not reported  
Range: Not reported  
Latitude Degree: Not reported  
Longitude Degree: Not reported  
River Basin: Not reported  
Type Of Treatment: Not reported  
Design Number: Not reported  
Design Population Equivalent: Not reported  
Design Biochemical Oxygen Demand: Not reported  
Design Avg Dry Weather Flow (Mll Glns Per Dy): Not reported  
Design Avg Wet Weather Flow (Mll Glns Per Dy): Not reported  
Operator Certification Facility Type: Not reported  
File No: 577  
Authorization No: 423  
Authorization Date: 10/01/1992  
Permit Status: Current  
Permit Type: GP #1 - Industrial Activity  
Legal Status: Federal

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A7** **IOWA ARMY NATIONAL GUARD - BOONE**  
**Target** **700 SNEDDEN DR**  
**Property** **BOONE, IA 50036**

**ICIS** **1016935614**  
**US AIRS** **N/A**

**Site 7 of 9 in cluster A**

**Actual:**  
**1140 ft.**

ICIS:  
Enforcement Action ID: IA000A0000190150011600002  
FRS ID: 110005755922  
Action Name: IOWA ARMY NATIONAL GUARD - BOONE 190150011600002  
Facility Name: IOWA ARMY NATIONAL GUARD - BOONE  
Facility Address: 700 SNEDDEN DR  
BOONE, IA 50036  
Enforcement Action Type: Notice of Violation  
Facility County: BOONE  
Program System Acronym: AIR  
Enforcement Action Forum Desc: Administrative - Informal  
EA Type Code: NOV  
Facility SIC Code: 9711  
Federal Facility ID: Not reported  
Latitude in Decimal Degrees: 42.049035  
Longitude in Decimal Degrees: -93.853957  
Permit Type Desc: Not reported  
Program System Acronym: IA00000001901500116  
Facility NAICS Code: 928110  
Tribal Land Code: Not reported

US AIRS MINOR:  
Envid: 1016935614  
Region Code: 07  
Programmatic ID: AIR IA00000001901500116  
Facility Registry ID: 110005755922  
D and B Number: Not reported  
Primary SIC Code: 9711  
NAICS Code: 928110  
Default Air Classification Code: MIN  
Facility Type of Ownership Code: STF  
Air CMS Category Code: Not reported  
HPV Status: Not reported

US AIRS MINOR:  
Region Code: 07  
Programmatic ID: AIR IA00000001901500116  
Facility Registry ID: 110005755922  
Air Operating Status Code: OPR  
Default Air Classification Code: MIN  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2006-03-01 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported  
  
Region Code: 07  
Programmatic ID: AIR IA00000001901500116  
Facility Registry ID: 110005755922  
Air Operating Status Code: OPR  
Default Air Classification Code: MIN

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IOWA ARMY NATIONAL GUARD - BOONE (Continued)**

**1016935614**

Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2006-03-28 00:00:00  
Activity Status Date: 2006-03-28 00:00:00  
Activity Group: Enforcement Action  
Activity Type: Administrative - Informal  
Activity Status: Achieved

**US AIRS MINOR:**

Envid: 1016935614  
Region Code: 07  
Programmatic ID: AIR IA0000001901500116  
Facility Registry ID: 110005755922  
D and B Number: Not reported  
Primary SIC Code: 9711  
NAICS Code: 928110  
Default Air Classification Code: MIN  
Facility Type of Ownership Code: STF  
Air CMS Category Code: Not reported  
HPV Status: Not reported

**US AIRS MINOR:**

Region Code: 07  
Programmatic ID: AIR IA0000001901500116  
Facility Registry ID: 110005755922  
Air Operating Status Code: OPR  
Default Air Classification Code: MIN  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2006-03-01 00:00:00  
Activity Status Date: Not reported  
Activity Group: Compliance Monitoring  
Activity Type: Inspection/Evaluation  
Activity Status: Not reported

Region Code: 07  
Programmatic ID: AIR IA0000001901500116  
Facility Registry ID: 110005755922  
Air Operating Status Code: OPR  
Default Air Classification Code: MIN  
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards  
Activity Date: 2006-03-28 00:00:00  
Activity Status Date: 2006-03-28 00:00:00  
Activity Group: Enforcement Action  
Activity Type: Administrative - Informal  
Activity Status: Achieved

**A8  
Target  
Property**

**IOWA ARMY NATIONAL GUARD - ARMORY ADDITION  
700 SNEDDEN DRIVE  
BOONE, IA 50036**

**IA NPDES S122563172  
N/A**

**Site 8 of 9 in cluster A**

**Actual:  
1140 ft.**

NPDES:  
Permit Number: Not reported  
Epa Npdes Id Number: Not reported  
Permit Expiration Date: 10/29/2005  
Facility Name: IOWA ARMY NATIONAL GUARD - ARMORY ADDITION

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IOWA ARMY NATIONAL GUARD - ARMORY ADDITION (Continued)**

**S122563172**

Facility Address1: 700 SNEDDEN DRIVE  
Facility City: BOONE  
Facility Phone Number: Not reported  
Facility Type: Not reported  
Facility Class: Not reported  
Standard Industrial Classification Code: Not reported  
Owner Name: IOWA ARMY NATIONAL GUARD  
Owner Add1: Not reported  
Owner Add2: Not reported  
Owner City: Not reported  
Owner State: Not reported  
Owner Zip: Not reported  
Owner Phone: Not reported  
Indr Regional/Field Office Number: Not reported  
Section: Not reported  
Township: Not reported  
Range: Not reported  
Latitude Degree: Not reported  
Longitude Degree: Not reported  
River Basin: Not reported  
Type Of Treatment: Not reported  
Design Number: Not reported  
Design Population Equivalent: Not reported  
Design Biochemical Oxygen Demand: Not reported  
Design Avg Dry Weather Flow (Mll Glns Per Dy): Not reported  
Design Avg Wet Weather Flow (Mll Glns Per Dy): Not reported  
Operator Certification Facility Type: Not reported  
File No: 6949  
Authorization No: 6793  
Authorization Date: 10/29/2003  
Permit Status: Discontinued  
Permit Type: GP #2 - Construction Activity  
Legal Status: State

**A9**  
**Target**  
**Property**

**FMS #10, AASF #1**  
**700 SNEDDEN DR. ROAD**  
**BOONE, IA 50703**

**IA TIER 2** **S109946692**  
**N/A**

**Site 9 of 9 in cluster A**

**Actual:**  
**1140 ft.**

TIER 2:  
Report Year: 2012  
Facility Id: FAIDSIT2A00000866  
State Id: Not reported  
Fire District: Boone Fire Department  
Site Map: False  
Site Coord Abbreviation: False  
Date Signed: 02/12/2007  
Date Modified: 02/16/2012  
Dike Or Other Safeguard: False  
Mailing Address: Not reported  
Mail City: Not reported  
Mail State: Not reported  
Mail Zip: Not reported  
Latitude: 42.04799  
Longitude: -93.85389  
Notes: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FMS #10, AASF #1 (Continued)**

**S109946692**

Report Year: 2010  
Facility Id: FAIDSIT2A00000866  
State Id: Not reported  
Fire District: Boone Fire Department  
Site Map: False  
Site Coord Abbreviation: False  
Date Signed: 2011-01-20T15:35:12  
Date Modified: 3/30/2011  
Dike Or Other Safeguard: False  
Mailing Address: Not reported  
Mail City: Not reported  
Mail State: Not reported  
Mail Zip: Not reported  
Latitude: 42.047997000000002  
Longitude: -93.853898999999998  
Notes: Not reported

Report Year: 2009  
Facility Id: FAIDSIT2A00000866  
State Id: IA  
Fire District: Boone Fire Department  
Site Map: False  
Site Coord Abbreviation: False  
Date Signed: 2010-02-18T14:58:02  
Date Modified: 2010-02-18T14:56:29  
Dike Or Other Safeguard: False  
Mailing Address: Not reported  
Mail City: Not reported  
Mail State: Not reported  
Mail Zip: Not reported  
Latitude: 42.047997000000002  
Longitude: -93.853898999999998  
Notes: Not reported

**10  
SW  
< 1/8  
0.016 mi.  
83 ft.**

**MIDLAND BIOPRODUCTS CORP  
800 SNEDDEN DR  
BOONE, IA 50036**

**RCRA NonGen / NLR 1000906822  
IA0000464230**

**Relative:  
Higher  
Actual:  
1142 ft.**

RCRA NonGen / NLR:  
Date form received by agency: 05/02/1995  
Facility name: MIDLAND BIOPRODUCTS CORP  
Facility address: 800 SNEDDEN DR  
BOONE, IA 50036-0309  
EPA ID: IA0000464230  
Mailing address: PO BOX 309  
BOONE, IA 50036-0309  
Contact: GLENDA THORFINNSEN  
Contact address: PO BOX 309  
BOONE, IA 50036-0309  
Contact country: US  
Contact telephone: 515-432-5516  
Contact email: Not reported  
EPA Region: 07  
Land type: Private  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MIDLAND BIOPRODUCTS CORP (Continued)**

**1000906822**

Owner/Operator Summary:

Owner/operator name: NITTOBO AMERICA INC  
Owner/operator address: 25549 ADAMS AVE  
MURRIETA, CA 92562  
Owner/operator country: Not reported  
Owner/operator telephone: 909-677-9184  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

. Waste code: D003  
. Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Historical Generators:

Date form received by agency: 05/02/1995  
Site name: MIDLAND BIOPRODUCTS CORP  
Classification: Not a generator, verified

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 05/02/1995  
Evaluation: COMPLIANCE ASSISTANCE VISIT  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: EPA Contractor/Grantee

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B11**  
**WSW**  
**< 1/8**  
**0.016 mi.**  
**87 ft.**  
**IOWA DEPT OF TRANSPORTATION**  
**400 AIRPORT RD**  
**BOONE, IA 50036**  
**Site 1 of 2 in cluster B**

**RCRA-SQG**  
**FINDS**  
**ECHO**  
**1000142256**  
**IAD981500242**

**Relative:**  
**Higher**

RCRA-SQG:

**Actual:**  
**1140 ft.**

Date form received by agency: 02/26/1996  
Facility name: IOWA DEPT OF TRANSPORTATION  
Facility address: 400 AIRPORT RD  
BOONE, IA 50036  
EPA ID: IAD981500242  
Mailing address: LINCOLN WAY  
AMES, IA 50010  
Contact: MARY KAY ROGGE  
Contact address: 800 LINCOLN WAY  
AMES, IA 50010  
Contact country: US  
Contact telephone: 515-239-1741  
Contact email: Not reported  
EPA Region: 07  
Land type: State  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name: IOWA DEPARTMENT OF TRANSPORTATION  
Owner/operator address: 800 LINCOLN WAY  
AMES, IA 50010  
Owner/operator country: Not reported  
Owner/operator telephone: 515-239-1741  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: State  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: Yes  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IOWA DEPT OF TRANSPORTATION (Continued)**

**1000142256**

Used oil transporter: No

. Waste code: D001

. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D009

. Waste name: MERCURY

Historical Generators:

Date form received by agency: 08/01/1994

Site name: IOWA DEPT OF TRANSPORTATION

Classification: Conditionally Exempt Small Quantity Generator

. Waste code: D000

. Waste name: Not Defined

. Waste code: UOIL

. Waste name: UOIL

Violation Status: No violations found

Evaluation Action Summary:

Evaluation date: 08/01/1994

Evaluation: FOCUSED COMPLIANCE INSPECTION

Area of violation: Not reported

Date achieved compliance: Not reported

Evaluation lead agency: EPA Contractor/Grantee

FINDS:

Registry ID: 110005753988

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1000142256

Registry ID: 110005753988

DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110005753988>

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**B12**  
**West**  
**< 1/8**  
**0.034 mi.**  
**177 ft.**  
**IDOT MAINT SHED**  
**301 CORPORAL RODGER SNEDDEN**  
**BOONE, IA 50036**  
**Site 2 of 2 in cluster B**

**IA LUST**  
**IA UST**  
**IA Financial Assurance**  
**U004134404**  
**N/A**

**Relative:**  
**Lower**

LUST:

**Actual:**  
**1138 ft.**

Facility ID: 4345  
Spill Number: Not reported  
Occur Date: Not reported  
Discover Date: Not reported  
Discover Time: Not reported  
Record Date: 10/23/1990  
Leak Number: 8LTC75  
Loc ID: 66788  
Ust ID: 9462  
Latitude: 42.05006  
Longitude: -93.85494  
Start Date: 10/29/1990  
Spill Date: Not reported  
Date Occurred Time: Not reported  
Lead ID: 5  
Coordinator ID: 5  
Staff ID: 29  
Discover Method ID: 5  
Leak Status: Stopped  
Tanks Removed: Not reported  
Created Date: 01/08/2007  
Created By: migration  
Last Changed: 01/08/2007  
Changed By: migration

Lust Status:

ID: 4347  
Site Leak Number: 8LTC75  
Discovered During: Other  
Tanks Removed: 0  
Leak Cause: Not reported  
Gas: Not reported  
Diesel: Yes  
Oil: Not reported  
Kerosene: Not reported  
Released Fuel Oil: Not reported  
Released Hydraulic Oil: Not reported  
Released Other Petroleum: Not reported  
Released Unknown: Not reported  
Released Non\_Petroleum Chemical: Not reported  
Gallons Released: 000000000000  
Leak Status: Stopped  
Loc Soil: Not reported  
Loc Ground Water: Not reported  
Loc Surface Water: Not reported  
Loc Water Supply: Not reported  
Res Public Water Supply: Not reported  
Resources Water Well: Not reported  
Res Actual Drinking WW: Not reported  
Res Non-Drink WW: Not reported  
Res Soil: Not reported  
Res Ground Water: Not reported  
Res Surface Water: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDOT MAINT SHED (Continued)**

**U004134404**

Res Toxic Vapor:	Not reported
Res Explosive Vapor:	Not reported
Res Other:	Not reported
Res Impacted Soil:	Not reported
Res Impacted Ground Water:	Not reported
Res Impacted Water Well:	Not reported
Res Impacted Pub Water Supply:	Not reported
Res Impacted Surface Water:	Not reported
Res Impacted Toxic Vapor:	Not reported
Res Impacted Explosive Vapor:	Not reported
Res Impacted Other:	Not reported
Res Impacted Drinking WW:	Not reported
Res Impacted Non-Drink WW:	Not reported
Res Impacted Potential Non Drink WW:	Not reported
Officials Onsite Health:	Not reported
Officials Onsite Fire:	Not reported
Officials Onsite Law:	Not reported
Officials Onsite Civil:	Not reported
Officials Onsite None:	Not reported
Officials Onsite Unknown:	Yes
Officials Onsite Other:	Not reported
AST:	Not reported
UST/LUST Other:	Not reported
Delete:	False
Status Memo:	Not reported

**Lust Misc:**

Misc Due Date: Not reported  
Misc Other: Not reported

Misc Rec Date: 12/15/1999  
Misc Title: MTBE WORKSHEET & DISK

**Lust Remediation:**

Heat Treatment:	False
Land Application:	False
On Site:	False
Achieved Over-Excavation:	False
Soil Venting Passive:	False
Soil Venting Active:	False
BioRemediation Passive:	False
BioRemediation Active:	False
In Situ GW Treatment - Air Sparging:	False
Ground Water:	False
Fresh Water:	False
IGT - pH Adjustment:	False
Nutrient:	False
Oxygen:	False
Biological:	False
Permit Date:	Not reported
Other:	False
Surface Treatment - Carbon Absorption:	False
Biological:	False
ST Other:	False
TDT Sanitary Sewer:	False
TDT Storm Sewer:	False
Stream:	False
TDT Other:	False
Reduced Risk Plugged Well:	False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDOT MAINT SHED (Continued)**

**U004134404**

RR Replace: False  
RR Relocate: False  
RR Other: False  
Delete: False  
Rem Memo: Not reported

Lust Tier 1 Report:  
T1 Assesment Due: Not reported  
T1 Received: 12/15/1999  
Tier 1 Consultant Recommends: Not reported  
T1 Accepted: 03/08/2000  
T1 Rejected: Not reported  
T1 Revised: Not reported  
T1 Reviewed: JPP

Lust Administration:  
ID: 4347  
Owner Identified: Yes  
Responsible Party Found: Yes  
RP Date: 10/29/1990  
Owner Broke: No  
ER Date: Not reported  
Cost Recovery Start Dt: Not reported  
CR Notice of Intent Dt: Not reported  
CR Appeal of NOI Dt: Not reported  
CR Final Decision Dt: Not reported  
CR EP Comm Lien Approval Dt: Not reported  
CR Lien: Not reported  
CR Ten Yr Renewal Dt: Not reported  
CR Lien Named: False  
CR Remediation: Not reported  
Delete: False  
CR Amnt Received: Not reported  
CR End Date: Not reported  
Memo: Not reported

Lust Inst Control:  
Inst Control Begin: 11/30/1999  
Inst Control Type: NA

Lust Track:  
ID: 4347  
Site Assesment Start Date: 11/13/1990  
Free Product Recvry End Date: Not reported  
FP Letter Sent Date: Not reported  
FP Report Frequency: Not reported  
Assesment Report Due: Not reported  
Assesment Report Received: Not reported  
Assesment Report Approved: Not reported  
Achieved Over-Excavation: Not reported  
Release Not Verified Date: Not reported  
Ref to Contaminated Site Section: Not reported  
Cleanup Start Date: 1994-07-08  
Cleanup Complete Date: 2000-03-08  
Cleanup Report Due Date: 1994-07-30

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDOT MAINT SHED (Continued)**

**U004134404**

Cleanup Report Received Date:	1994-07-05
Cleanup Report Approved Date:	1994-07-08
Check Report Due Date:	Not reported
Check Report Received Date:	Not reported
Check Report Rejected Date:	Not reported
Check Report Approved Date:	Not reported
Date Classified:	2000-03-08
Risk Classification -NFA:	True
Class - Low Risk:	False
Class - High Risk:	False
Lust Current:	No Action Required
Tier 1 Consultant Recommends:	NFA
T1 Actual GW Ingestion:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 GW Vapor to Enclosed Space:	False
T1 GW to Plastic Water Line:	False
T1 Surface Water:	False
T1 Soil Leaching to GW:	False
T1 Soil Vapor to Enclosed Space:	False
T1 Soil to Plastic Line:	False
Tier 2 Consultant Recommends:	Not reported
T2 Actual GW Ingestion:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 GW Vapor to Enclosed Space:	Not reported
T2 GW to Plastic Water Line:	Not reported
T2 SW General Use:	Not reported
T2 SW Designated Use:	Not reported
T2 Soil Leaching to GW:	Not reported
T2 Soil Vapor to Enclosed Space:	Not reported
T2 Soil to Plastic Line:	Not reported
Institutional Control Obtained:	False
NFA Certificate Sent:	2000-05-19
<b>No Action Required:</b>	<b>False</b>
Priority Ranking:	5
Delete:	False
Track Memo:	03/22/91: DNR LETTER SENT FACILITY ACKNOWLEDGING ACTIONS TO PROCEED WITH ASSESSMENT ACTIVITIES. ACTIVITY REPORT TO BE TO DNR BY 7/25/91.07/24/91: DATE OF LETTER FROM CONSULTANT REQUESTING TIME EXTENSION FOR SUBMITTAL OF ACTIVITY REPORT. ACTIVITY REPORT TO BE TO DNR BY 8/24/91.06/09/92: ADDITIONAL CONT REPORTED OUTSIDE AREA OF SAR INVESTIGATION.07/28/92: REPORT CONFIRMING ADDITIONAL CONT REC'D.03/31/94: REC'D SCR. SITE HISTORY: SAR REC'D 8/15/91.06/27/94: SCR REV'D - ACCETPED AS LOW RISK; MONITORING PLAN UNACCEPTABLE. REVIS ED PLAN DUE 7/30/94.07/05/94: REC'D REVISED MONITORING PLAN.07/08/94: MONITORING PLAN ACCEPTED. SMR DUE 10/30/94. REC'D SMR: 8/16/94.08/30/94: SMR COMMENT LETTER SENT.11/15/94: MONITORING PROGRAM REVISED: MONITORING REQUIRED THRU 7/30/2005. REC'D SMRS: 6/97, 6/98, 4/9909/02/99: Schedule submitted by DOT with due date for T2 of 12/8/9912/15/99: REC'D TIER 1 REPORT & DISK. MTBE WORKSHEET & DISK.03/08/00: Accepted T1, NFA letter sent (JPP)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDOT MAINT SHED (Continued)**

**U004134404**

UST:

Facility Id: 9462  
Loc Id: 9462  
Registration: 198609348  
Owner Type: State  
Financial Code: 14  
Insurer's Name: STATE OF IOWA  
Policy Number: Not reported  
Policy Start Date: Not reported  
Policy End Date: Not reported  
Registration Sign Date: 07/14/1992  
Created By: migration  
Created Date: 01/08/2007  
Changed By: migration  
Last Changed: 01/08/2007  
Latitude: 42.05006  
Longitude: -93.85494  
Otype ID Decode: State

Tank Info:

Tank Num: 28317  
In Use: False  
Tank Type: 4  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Double Wall Steel  
Emergency Power Gen: Not reported

Tank Num: 28318  
In Use: False  
Tank Type: 4  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Double Wall Steel  
Emergency Power Gen: Not reported

Tank Num: 28319  
In Use: False  
Tank Type: 4  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Double Wall Steel  
Emergency Power Gen: Not reported

Tank Num: 28320  
In Use: False  
Tank Type: 4  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Composite (steel with FRP)  
Emergency Power Gen: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

IDOT MAINT SHED (Continued)

U004134404

IA Financial Assurance 1:

Facility ID: 198609348  
Insurers Name: STATE OF IOWA  
Policy End Date: Not reported  
Site Status: Not reported  
Financial Code: 14  
Policy Number: Not reported  
Policy Start Date: Not reported

13  
NNE  
< 1/8  
0.079 mi.  
415 ft.

BOONE MUNICIPAL AIRPORT  
424 CORPORAL ROGER SNEDDEN DR  
BOONE, IA 50036

IA LUST 1011286967  
IA UST N/A  
FINDS

IA Financial Assurance

Relative:  
Lower

LUST:

Actual:  
1136 ft.

Facility ID: 908  
Spill Number: Not reported  
Occur Date: Not reported  
Discover Date: Not reported  
Discover Time: Not reported  
Record Date: 10/19/1990  
Leak Number: 8LTJ46  
Loc ID: 63159  
Ust ID: 1918  
Latitude: 42.05182  
Longitude: -93.85165  
Start Date: 01/08/1991  
Spill Date: Not reported  
Date Occurred Time: Not reported  
Lead ID: 5  
Coordinator ID: 5  
Staff ID: Not reported  
Discover Method ID: 5  
Leak Status: Unknown  
Tanks Removed: Not reported  
Created Date: 01/08/2007  
Created By: migration  
Last Changed: 01/08/2007  
Changed By: migration

Lust Status:

ID: 908  
Site Leak Number: 8LTJ46  
Discovered During: Other  
Tanks Removed: 00  
Leak Cause: UNK  
Gas: Yes  
Diesel: Not reported  
Oil: Not reported  
Kerosene: Not reported  
Released Fuel Oil: Not reported  
Released Hydraulic Oil: Not reported  
Released Other Petroleum: Yes  
Released Unknown: Not reported  
Released Non\_Petroleum Chemical: Not reported  
Gallons Released: Not reported  
Leak Status: Unknown

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOONE MUNICIPAL AIRPORT (Continued)**

**1011286967**

Loc Soil:	Yes
Loc Ground Water:	Not reported
Loc Surface Water:	Not reported
Loc Water Supply:	Not reported
Res Public Water Supply:	Not reported
Resources Water Well:	Not reported
Res Actual Drinking WW:	Not reported
Res Non-Drink WW:	Not reported
Res Soil:	Not reported
Res Ground Water:	Not reported
Res Surface Water:	Not reported
Res Toxic Vapor:	Not reported
Res Explosive Vapor:	Not reported
Res Other:	Not reported
Res Impacted Soil:	Not reported
Res Impacted Ground Water:	Not reported
Res Impacted Water Well:	Not reported
Res Impacted Pub Water Supply:	Not reported
Res Impacted Surface Water:	Not reported
Res Impacted Toxic Vapor:	Not reported
Res Impacted Explosive Vapor:	Not reported
Res Impacted Other:	Not reported
Res Impacted Drinking WW:	Not reported
Res Impacted Non-Drink WW:	Not reported
Res Impacted Potential Non Drink WW:	Not reported
Officials Onsite Health:	Not reported
Officials Onsite Fire:	Not reported
Officials Onsite Law:	Not reported
Officials Onsite Civil:	Not reported
Officials Onsite None:	Yes
Officials Onsite Unknown:	Not reported
Officials Onsite Other:	Not reported
AST:	Not reported
UST/LUST Other:	Not reported
Delete:	False
Status Memo:	Not reported

Lust Cause:

Release Cause:	Unknown
----------------	---------

Lust HICA:

Leak Number:	8LTJ46
Registration Number:	198601365
Date CorrectiveActionDesign Report(CADR) Rec:	06/25/1993
Date CADR Due:	05/18/1993
Date CADR Approved:	06/25/1993
Date CADR Rejected:	Not reported
Date CADR Remediation Started:	Not reported
Date CADR Remediation Completed:	Not reported
Staff CADR Reviewed By:	Not reported

Lust Misc:

Misc Due Date:	Not reported	Misc Rec Date:	Not reported
Misc Other:	Not reported	Misc Title:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOONE MUNICIPAL AIRPORT (Continued)**

**1011286967**

Lust Remediation:

Heat Treatment:	False
Land Application:	False
On Site:	False
Achieved Over-Excavation:	False
Soil Venting Passive:	False
Soil Venting Active:	False
BioRemediation Passive:	False
BioRemediation Active:	False
In Situ GW Treatment - Air Sparging:	False
Ground Water:	False
Fresh Water:	False
IGT - pH Adjustment:	False
Nutrient:	False
Oxygen:	False
Biological:	False
Permit Date:	Not reported
Other:	False
Surface Treatment - Carbon Absorption:	False
Biological:	False
ST Other:	False
TDT Sanitary Sewer:	False
TDT Storm Sewer:	False
Stream:	False
TDT Other:	False
Reduced Risk Plugged Well:	False
RR Replace:	False
RR Relocate:	False
RR Other:	False
Delete:	False
Rem Memo:	Not reported

Lust Tier 1 Report:

T1 Assesment Due:	Not reported
T1 Received:	04/14/1998
Tier 1 Consultant Recommends:	Not reported
T1 Accepted:	07/06/1998
T1 Rejected:	Not reported
T1 Revised:	Not reported
T1 Reviewed:	Not reported

Lust Administration:

ID:	908
Owner Identified:	Yes
Responsible Party Found:	Yes
RP Date:	01/08/1991
Owner Broke:	No
ER Date:	Not reported
Cost Recovery Start Dt:	Not reported
CR Notice of Intent Dt:	Not reported
CR Appeal of NOI Dt:	Not reported
CR Final Decision Dt:	Not reported
CR EP Comm Lien Approval Dt:	Not reported
CR Lien:	Not reported
CR Ten Yr Renewal Dt:	Not reported
CR Lien Named:	False

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOONE MUNICIPAL AIRPORT (Continued)**

**1011286967**

CR Remediation:	Not reported
Delete:	False
CR Amnt Received:	Not reported
CR End Date:	Not reported
Memo:	Not reported

**Lust Track:**

ID:	908
Site Assesment Start Date:	02/01/1991
Free Product Recvry End Date:	Not reported
FP Letter Sent Date:	Not reported
FP Report Frequency:	Not reported
Assesment Report Due:	Not reported
Assesment Report Received:	Not reported
Assesment Report Approved:	Not reported
Achieved Over-Excavation:	Not reported
Release Not Verified Date:	Not reported
Ref to Contaminated Site Section:	Not reported
Cleanup Start Date:	1993-06-25
Cleanup Complete Date:	1998-07-06
Cleanup Report Due Date:	Not reported
Cleanup Report Received Date:	Not reported
Cleanup Report Approved Date:	Not reported
Check Report Due Date:	Not reported
Check Report Received Date:	Not reported
Check Report Rejected Date:	Not reported
Check Report Approved Date:	Not reported
Date Classified:	1998-07-06
Risk Classification -NFA:	True
Class - Low Risk:	False
Class - High Risk:	False
Lust Current:	No Action Required
Tier 1 Consultant Recommends:	Not reported
T1 Actual GW Ingestion:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 GW Vapor to Enclosed Space:	False
T1 GW to Plastic Water Line:	False
T1 Surface Water:	False
T1 Soil Leaching to GW:	False
T1 Soil Vapor to Enclosed Space:	False
T1 Soil to Plastic Line:	False
Tier 2 Consultant Recommends:	Not reported
T2 Actual GW Ingestion:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 GW Vapor to Enclosed Space:	Not reported
T2 GW to Plastic Water Line:	Not reported
T2 SW General Use:	Not reported
T2 SW Designated Use:	Not reported
T2 Soil Leaching to GW:	Not reported
T2 Soil Vapor to Enclosed Space:	Not reported
T2 Soil to Plastic Line:	Not reported
Institutional Control Obtained:	False
NFA Certificate Sent:	1998-09-10
<b>No Action Required:</b>	<b>False</b>
Priority Ranking:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOONE MUNICIPAL AIRPORT (Continued)**

**1011286967**

Delete:  
Track Memo:

False  
07/29/91: PHONE CALL B'W J.HORN & J. KOOISTRA (RP). CITY  
WILL CLOSE USTS. WILL DISCUSS PLAN AT CITY MTG 8/91. WILL  
DO CLOSURE INSTEAD OF WORKPLAN.12/10/91: LTR SENT: ADD'L  
WORK TO COMPLETE OE INVESTIGATION. DUE 2/10/92  
(JRG).01/15/92: REPORT REC'D - SOIL / GW CONT. CONFIRMED.  
SCR REQUIRED. ON HOLD.05/15/92: SCR SENT. GREEN CARD DATED  
5/18/92.10/08/92: SCR REVIEWED - UNACCEPTABLE: REVISED SCR  
DUE 1/13/93.02/17/93: REV SCR REV'D. LOW RISK - MONITORING  
PLAN TO BE REVISED.06/25/93: REC'D REVISED SITE MONITORING  
PLAN. ACCEPTED. 1ST SMR DUE 10/31/93.  
REC'D SMR: 11/2/93, 1/31/94, 8/2/94.11/03/94: MONITORING  
PLAN REVISED PER NEW POLICY: END DATE 7/30/04.04/14/98:  
REC'D TIER 1 (PR-5: NAR REQUESTED).07/06/98: T1 REV, NAR  
CLASSIFICATION ACCEPTED, TTT RESULTS MUST BE PROVIDED WITH  
THE LEGAL DESCRIPTION AND WELL PLUGGING FORMS TO RECEIVE  
NFA CERTIFICATE.08/13/98: REC'D WELL PLUGGING  
RECORDS...08/14/98: CALL TO GWP - NEED SPECIFIC LEGAL  
DESCRIPTION FOR PARCEL SITE WAS ON, NOT FOR ENTIRE  
AIRPORT.09/04/98: REC'D LEGAL DESCRIPTION... 9/10/98:  
REQUEST FOR NFA CERT PROCESSED.

**UST:**

Facility Id: 1918  
Loc Id: 1918  
Registration: 198601365  
Owner Type: Municipal  
Financial Code: 15  
Insurer's Name: PMMIC  
Policy Number: 8601365  
Policy Start Date: 04/27/2018  
Policy End Date: 04/26/2019  
Registration Sign Date: 12/24/1991  
Created By: migration  
Created Date: 01/08/2007  
Changed By: colleen.zeliadt@dnr.iowa.gov  
Last Changed: 06/06/2012  
Latitude: 42.04961  
Longitude: -93.85425  
Otype ID Decode: Municipal

**Tank Info:**

Tank Num: 3618  
In Use: False  
Tank Type: 4  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Double Wall Steel  
Emergency Power Gen: Not reported

Tank Num: 3619  
In Use: False  
Tank Type: 4  
Tank Brand Id: Not reported  
Inert Material Id: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**BOONE MUNICIPAL AIRPORT (Continued)**

**1011286967**

Filled In Place: Not reported  
Material Construction: Double Wall Steel  
Emergency Power Gen: Not reported

Tank Num: 3620  
In Use: False  
Tank Type: 4  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Double Wall Steel  
Emergency Power Gen: Not reported

Tank Num: 3621  
In Use: True  
Tank Type: 6  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Double Wall FRP  
Emergency Power Gen: Not reported

Tank Num: 3622  
In Use: True  
Tank Type: 4  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Double Wall Composite  
Emergency Power Gen: Not reported

**FINDS:**

Registry ID: 110036188176

Environmental Interest/Information System  
AIR EMISSIONS CLASSIFICATION UNKNOWN

IDNR-EFD (Iowa Department Of Natural Resources - Emission Factor Documentation) provides information about existing emission factors

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**IA Financial Assurance 1:**

Facility ID: 198601365  
Insurers Name: PMMIC  
Policy End Date: 04/26/2019  
Site Status: Not reported  
Financial Code: 15  
Policy Number: 8601365  
Policy Start Date: 04/27/2018

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

14  
SSW  
1/8-1/4  
0.130 mi.  
684 ft.

**OMS #10**  
**OMS #10 CPL SNEDDEN DR**  
**BOONE, IA 50036**

**IA UST**    **U003634982**  
**N/A**

**Relative:**  
**Higher**

UST:

**Actual:**  
**1152 ft.**

Facility Id: 6226  
Loc Id: 6226  
Registration: 198605892  
Owner Type: State  
Financial Code: Not reported  
Insurer's Name: Not reported  
Policy Number: Not reported  
Policy Start Date: Not reported  
Policy End Date: Not reported  
Registration Sign Date: 03/10/1986  
Created By: migration  
Created Date: 01/08/2007  
Changed By: migration  
Last Changed: 01/08/2007  
Latitude: 42.04739  
Longitude: -93.85330  
Otype ID Decode: State

Tank Info:

Tank Num: 17181  
In Use: False  
Tank Type: 4  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Double Wall Steel  
Emergency Power Gen: Not reported

Tank Num: 17182  
In Use: False  
Tank Type: 4  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Double Wall Steel  
Emergency Power Gen: Not reported

15  
North  
1/8-1/4  
0.249 mi.  
1316 ft.

**CHEKER UNIT #7878**  
**RR 1 BOX 514**  
**BOONE, IA 50036**

**IA UST**    **U003635963**  
**N/A**

**Relative:**  
**Lower**

UST:

**Actual:**  
**1138 ft.**

Facility Id: 9295  
Loc Id: 9295  
Registration: 198609174  
Owner Type: Private/Corporate  
Financial Code: Not reported  
Insurer's Name: Not reported  
Policy Number: Not reported  
Policy Start Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CHEKER UNIT #7878 (Continued)**

**U003635963**

Policy End Date: Not reported  
Registration Sign Date: 05/08/1986  
Created By: migration  
Created Date: 01/08/2007  
Changed By: migration  
Last Changed: 01/08/2007  
Latitude: 42.05429  
Longitude: -93.85169  
Otype ID Decode: Private/Corporate

**Tank Info:**

Tank Num: 27751  
In Use: False  
Tank Type: 1  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Double Wall Steel  
Emergency Power Gen: Not reported

Tank Num: 27752  
In Use: False  
Tank Type: 1  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Double Wall Steel  
Emergency Power Gen: Not reported

Tank Num: 27753  
In Use: False  
Tank Type: 1  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Double Wall Steel  
Emergency Power Gen: Not reported

Tank Num: 27754  
In Use: False  
Tank Type: 1  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Double Wall Steel  
Emergency Power Gen: Not reported

16  
NNW  
1/4-1/2  
0.469 mi.  
2475 ft.

**MADDEN LTD**  
**2232 EAST 4TH**  
**BOONE, IA 50036**

**IA LUST** **U003126686**  
**IA UST** **N/A**

**Relative:**  
**Higher**  
**Actual:**  
**1152 ft.**

**LUST:**  
Facility ID: 5911  
Spill Number: Not reported  
Occur Date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MADDEN LTD (Continued)**

**U003126686**

Discover Date: 09/18/2001  
Discover Time: Not reported  
Record Date: 11/06/2001  
Leak Number: 9LTK01  
Loc ID: 68024  
Ust ID: 16813  
Latitude: 42.05690  
Longitude: -93.85856  
Start Date: 11/06/2001  
Spill Date: Not reported  
Date Occurred Time: Not reported  
Lead ID: 4  
Coordinator ID: 5  
Staff ID: 5  
Discover Method ID: 1  
Leak Status: Stopped  
Tanks Removed: Not reported  
Created Date: 01/08/2007  
Created By: migration  
Last Changed: 01/08/2007  
Changed By: migration

**Lust Status:**

ID: 5919  
Site Leak Number: 9LTK01  
Discovered During: C  
Tanks Removed: 1  
Leak Cause: Not reported  
Gas: Not reported  
Diesel: Not reported  
Oil: Yes  
Kerosene: Not reported  
Released Fuel Oil: Not reported  
Released Hydraulic Oil: Not reported  
Released Other Petroleum: Not reported  
Released Unknown: Not reported  
Released Non\_Petroleum Chemical: Not reported  
Gallons Released: Not reported  
Leak Status: Stopped  
Loc Soil: Not reported  
Loc Ground Water: Not reported  
Loc Surface Water: Not reported  
Loc Water Supply: Not reported  
Res Public Water Supply: Not reported  
Resources Water Well: Not reported  
Res Actual Drinking WW: Not reported  
Res Non-Drink WW: Not reported  
Res Soil: Not reported  
Res Ground Water: Not reported  
Res Surface Water: Not reported  
Res Toxic Vapor: Not reported  
Res Explosive Vapor: Not reported  
Res Other: Not reported  
Res Impacted Soil: Not reported  
Res Impacted Ground Water: Yes  
Res Impacted Water Well: Not reported  
Res Impacted Pub Water Supply: Not reported  
Res Impacted Surface Water: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MADDEN LTD (Continued)**

**U003126686**

Res Impacted Toxic Vapor:	Not reported
Res Impacted Explosive Vapor:	Not reported
Res Impacted Other:	Not reported
Res Impacted Drinking WW:	Not reported
Res Impacted Non-Drink WW:	Not reported
Res Impacted Potential Non Drink WW:	Not reported
Officials Onsite Health:	Not reported
Officials Onsite Fire:	Not reported
Officials Onsite Law:	Not reported
Officials Onsite Civil:	Not reported
Officials Onsite None:	Not reported
Officials Onsite Unknown:	Not reported
Officials Onsite Other:	Not reported
AST:	Not reported
UST/LUST Other:	Not reported
Delete:	False
Status Memo:	Not reported

Lust Cause:

Release Cause:	Unknown
----------------	---------

Lust Misc:

Misc Due Date:	06/01/2002	Misc Rec Date:	07/19/2002
Misc Other:	Not reported	Misc Title:	GW resampling results

Lust Administration:

ID:	5922
Owner Identified:	Yes
Responsible Party Found:	Yes
RP Date:	Not reported
Owner Broke:	Yes
ER Date:	Not reported
Cost Recovery Start Dt:	Not reported
CR Notice of Intent Dt:	Not reported
CR Appeal of NOI Dt:	Not reported
CR Final Decision Dt:	Not reported
CR EP Comm Lien Approval Dt:	Not reported
CR Lien:	Not reported
CR Ten Yr Renewal Dt:	Not reported
CR Lien Named:	False
CR Remediation:	Not reported
Delete:	False
CR Amnt Received:	0
CR End Date:	Not reported
Memo:	Not reported

Lust Track:

ID:	6000
Site Assesment Start Date:	11/07/2001
Free Product Recvry End Date:	Not reported
FP Letter Sent Date:	Not reported
FP Report Frequency:	Not reported
Assesment Report Due:	Not reported
Assesment Report Received:	Not reported
Assesment Report Approved:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MADDEN LTD (Continued)**

**U003126686**

Achieved Over-Excavation:	Not reported
Release Not Verified Date:	2002-07-24
Ref to Contaminated Site Section:	Not reported
Cleanup Start Date:	Not reported
Cleanup Complete Date:	Not reported
Cleanup Report Due Date:	Not reported
Cleanup Report Received Date:	Not reported
Cleanup Report Approved Date:	Not reported
Check Report Due Date:	Not reported
Check Report Received Date:	Not reported
Check Report Rejected Date:	Not reported
Check Report Approved Date:	Not reported
Date Classified:	2002-07-24
Risk Classification -NFA:	True
Class - Low Risk:	False
Class - High Risk:	False
Lust Current:	No Action Required
Tier 1 Consultant Recommends:	Not reported
T1 Actual GW Ingestion:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 Poten GW Ingestion from Protected GW:	False
T1 GW Vapor to Enclosed Space:	False
T1 GW to Plastic Water Line:	False
T1 Surface Water:	False
T1 Soil Leaching to GW:	False
T1 Soil Vapor to Enclosed Space:	False
T1 Soil to Plastic Line:	False
Tier 2 Consultant Recommends:	Not reported
T2 Actual GW Ingestion:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 Poten GW Ingestion from Protected GW:	Not reported
T2 GW Vapor to Enclosed Space:	Not reported
T2 GW to Plastic Water Line:	Not reported
T2 SW General Use:	Not reported
T2 SW Designated Use:	Not reported
T2 Soil Leaching to GW:	Not reported
T2 Soil Vapor to Enclosed Space:	Not reported
T2 Soil to Plastic Line:	Not reported
Institutional Control Obtained:	False
NFA Certificate Sent:	Not reported
<b>No Action Required:</b>	<b>False</b>
Priority Ranking:	Not reported
Delete:	False
Track Memo:	11/07/01: Required T1, due 2/7/02.11/14/01: Call from Mike Madden, believes gw exceedence from waste oil runoff from work at site, would like to resample. ED response: work with CGWP to submit proposal for a variance, clearly document situation, must resample gw.03/07/02: First OD letter sent with due date for T1 of 3/19/02.03/11/02: Office visit w/Mike Madden. ED - submit a letter explaining situation, we'll review and consider variance from T1.04/01/02: Granted variance to T1, may install new MW and resample gw, must be done by CGWP, results due 6/1/02.07/16/02: Letter sent requesting confirmation results within 10 days of receipt. Probable due date 7/28/02.07/19/02: REC'D UST CLOSURE GROUNDWATER SAMPLE.07/24/02: Accepted results, T.E.H. below action

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MADDEN LTD (Continued)**

**U003126686**

levels, 'release not verified' letter sent. File closed.

UST:

Facility Id: 16813  
Loc Id: 16813  
Registration: 199117234  
Owner Type: Private/Corporate  
Financial Code: Not reported  
Insurer's Name: Not reported  
Policy Number: Not reported  
Policy Start Date: Not reported  
Policy End Date: Not reported  
Registration Sign Date: 11/27/1990  
Created By: migration  
Created Date: 01/08/2007  
Changed By: migration  
Last Changed: 01/08/2007  
Latitude: 42.05690  
Longitude: -93.85856  
Otype ID Decode: Private/Corporate

Tank Info:

Tank Num: 41548  
In Use: False  
Tank Type: 1  
Tank Brand Id: Not reported  
Inert Material Id: Not reported  
Filled In Place: Not reported  
Material Construction: Double Wall Steel  
Emergency Power Gen: Not reported

17  
NNW  
1/2-1  
0.966 mi.  
5099 ft.  
  
Relative:  
Higher  
  
Actual:  
1148 ft.

**GATES RUBBER COMPANY  
2121 INDUSTRIAL PARK RD  
BOONE, IA 50036**

**CORRACTS 1000221474  
RCRA-CESQG IAD085372506  
US ENG CONTROLS  
US INST CONTROL  
IA ALLSITES  
US FIN ASSUR  
2020 COR ACTION  
FTTS  
HIST FTTS  
IA AIRS  
WI MANIFEST**

CORRACTS:

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20151109  
Action: CA800YE  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GATES RUBBER COMPANY (Continued)**

**1000221474**

Actual Date: 20151014  
Action: CA770GW  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20151014  
Action: CA550RC  
NAICS Code(s): Not reported  
Original schedule date: 20160831  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20151014  
Action: CA770GW  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20151014  
Action: CA770NG  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20150730  
Action: CA772PR  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20140325  
Action: CA350 - CMS Approved  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20140324  
Action: CA400 - Date For Remedy Selection (CM Imposed)  
NAICS Code(s): Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GATES RUBBER COMPANY (Continued)**

**1000221474**

Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20140114  
Action: CA050 - RFA Completed  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20130125  
Action: CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20100614  
Action: CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20090210  
Action: CA340 - CMS Report Received  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20070530  
Action: CA300 - CMS Workplan Approved  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20070119  
Action: CA260 - CMS Workplan Received  
NAICS Code(s): Not reported  
Original schedule date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GATES RUBBER COMPANY (Continued)**

**1000221474**

Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20061204  
Action: CA250 - CMS Imposition  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20000620  
Action: CA200 - RFI Approved  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 20000505  
Action: CA190 - RFI Report Received  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 19990930  
Action: CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 19990930  
Action: CA100 - RFI Imposition  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 19990930  
Action: CA110 - RFI Workplan Received  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GATES RUBBER COMPANY (Continued)**

**1000221474**

EPA ID: IAD085372506  
EPA Region: 7  
Area Name: ENTIRE FACILITY  
Actual Date: 19990930  
Action: CA150 - RFI Workplan Approved  
NAICS Code(s): Not reported  
Original schedule date: Not reported  
Schedule end date: Not reported

**RCRA-CESQG:**

Date form received by agency: 10/24/2000  
Facility name: GATES RUBBER COMPANY  
Facility address: 2121 INDUSTRIAL PARK RD  
BOONE, IA 50036  
EPA ID: IAD085372506  
Mailing address: INDUSTRIAL PARK RD  
BOONE, IA 50036  
Contact: MAX RAINES  
Contact address: 2121 INDUSTRIAL PARK RD  
BOONE, IA 50036  
Contact country: US  
Contact telephone: 515-432-7120  
Contact email: Not reported  
EPA Region: 07  
Land type: Private  
Classification: Conditionally Exempt Small Quantity Generator  
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

**Owner/Operator Summary:**

Owner/operator name: GATES RUBBER CO  
Owner/operator address: 900 S BROADWAY  
DENVER, CO 80217  
Owner/operator country: Not reported  
Owner/operator telephone: 303-744-1911  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: 10/24/2000  
Owner/Op end date: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GATES RUBBER COMPANY (Continued)**

**1000221474**

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

. Waste code: D001  
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Historical Generators:

Date form received by agency: 08/27/1999  
Site name: GATES RUBBER COMPANY  
Classification: Small Quantity Generator

Date form received by agency: 07/29/1994  
Site name: GATES RUBBER COMPANY  
Classification: Small Quantity Generator

. Waste code: D001  
. Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

. Waste code: D008  
. Waste name: LEAD

Corrective Action Summary:

Event date: 09/30/1999  
Event: INVESTIGATION WORKPLAN APPROVED

Event date: 09/30/1999  
Event: INVESTIGATION WORKPLAN RECEIVED

Event date: 09/30/1999  
Event: INVESTIGATION IMPOSITION

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GATES RUBBER COMPANY (Continued)**

**1000221474**

Event date:	09/30/1999
Event:	CA PRIORITIZATION-HIGH CA PRIORITY
Event date:	05/05/2000
Event:	INVESTIGATION REPORT RECEIVED
Event date:	06/20/2000
Event:	INVESTIGATION COMPLETE
Event date:	12/04/2006
Event:	CMS IMPOSITION
Event date:	01/19/2007
Event:	CMS WORKPLAN RECEIVED
Event date:	05/30/2007
Event:	CMS WORKPLAN APPROVED
Event date:	02/10/2009
Event:	CMS REPORT RECEIVED
Event date:	06/14/2010
Event:	RELEASE TO GW CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Event date:	01/25/2013
Event:	HUMAN EXPOSURES CONTROLLED DETERMINATION-YES, APPLICABLE AS OF THIS DATE
Event date:	01/14/2014
Event:	RFA COMPLETED
Event date:	03/24/2014
Event:	REMEDY DECISION
Event date:	03/25/2014
Event:	CMS COMPLETE
Event date:	07/30/2015
Event:	INSTITUTIONAL CONTROLS ESTABLISHED-PROPRIETARY CONTROL
Event date:	10/14/2015
Event:	REMEDY CONSTRUCTION-REMEDY CONSTRUCTED
Event date:	10/14/2015
Event:	ENGINEERING CONTROLS ESTABLISHED-GROUNDWATER CONTROL
Event date:	10/14/2015
Event:	ENGINEERING CONTROLS ESTABLISHED-GROUNDWATER CONTROL
Event date:	10/14/2015
Event:	ENGINEERING CONTROLS ESTABLISHED-NON-GROUNDWATER CONTROL
Event date:	11/09/2015
Event:	READY FOR ANTICIPATED USE DETERMINATION - READY FOR ANTICIPATED USE

Facility Has Received Notices of Violations:

Regulation violated: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GATES RUBBER COMPANY (Continued)**

**1000221474**

Area of violation: TSD - Financial Requirements  
Date violation determined: 06/02/2015  
Date achieved compliance: 12/15/2015  
Violation lead agency: EPA  
Enforcement action: Not reported  
Enforcement action date: Not reported  
Enf. disposition status: Not reported  
Enf. disp. status date: Not reported  
Enforcement lead agency: Not reported  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Regulation violated: Not reported  
Area of violation: Formal Enforcement Agreement or Order  
Date violation determined: 11/16/2006  
Date achieved compliance: 04/24/2015  
Violation lead agency: EPA  
Enforcement action: WRITTEN INFORMAL  
Enforcement action date: 03/06/2007  
Enf. disposition status: Action Satisfied (Case Closed)  
Enf. disp. status date: 04/24/2015  
Enforcement lead agency: EPA  
Proposed penalty amount: Not reported  
Final penalty amount: Not reported  
Paid penalty amount: Not reported

Evaluation Action Summary:  
Evaluation date: 01/26/2017  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 06/02/2015  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: TSD - Financial Requirements  
Date achieved compliance: 12/15/2015  
Evaluation lead agency: EPA Contractor/Grantee

Evaluation date: 11/16/2006  
Evaluation: FINANCIAL RECORD REVIEW  
Area of violation: Formal Enforcement Agreement or Order  
Date achieved compliance: 04/24/2015  
Evaluation lead agency: EPA

Evaluation date: 09/23/2003  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: EPA

Evaluation date: 01/13/1999  
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: EPA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GATES RUBBER COMPANY (Continued)**

**1000221474**

Evaluation date: 08/20/1998  
Evaluation: NON-FINANCIAL RECORD REVIEW  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: EPA

Evaluation date: 07/29/1994  
Evaluation: FOCUSED COMPLIANCE INSPECTION  
Area of violation: Not reported  
Date achieved compliance: Not reported  
Evaluation lead agency: EPA Contractor/Grantee

**US ENG CONTROLS:**

EPA ID: IAD085372506  
Site ID: Not reported  
Name: GATES RUBBER COMPANY  
Address: 2121 INDUSTRIAL PARK RD  
BOONE, IA 50036

EPA Region: 7  
County: BOONE  
Event Code: CA770NG  
Actual Date: 10/14/2015  
Contact Name: MAX RAINES  
Contact Phone and Ext: 515-432-7120

Event Code Description: ENGINEERING CONTROLS ESTABLISHED-NON-GROUNDWATER CONTROL

Action ID: Not reported  
Action Name: Not reported  
Action Completion date: 01/01/1900  
Operable Unit: Not reported  
Contaminated Media : Not reported  
Engineering Control: Not reported  
Contact Name: MAX RAINES  
Contact Phone and Ext: 515-432-7120  
Event Code Description: ENGINEERING CONTROLS ESTABLISHED-GROUNDWATER CONTROL

Action ID: Not reported  
Action Name: Not reported  
Action Completion date: 01/01/1900  
Operable Unit: Not reported  
Contaminated Media : Not reported  
Engineering Control: Not reported  
Contact Name: MAX RAINES  
Contact Phone and Ext: 515-432-7120  
Event Code Description: ENGINEERING CONTROLS ESTABLISHED-NON-GROUNDWATER CONTROL

**US INST CONTROL:**

EPA ID: IAD085372506  
Site ID: Not reported  
Name: GATES RUBBER COMPANY  
Action Name: Not reported  
Address: 2121 INDUSTRIAL PARK RD  
BOONE, IA 50036  
EPA Region: 7  
County: BOONE  
Event Code: CA772PR

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GATES RUBBER COMPANY (Continued)**

**1000221474**

Inst. Control: Not reported  
Actual Date: 07/30/2015  
Comple. Date: 01/01/1900  
Operable Unit: Not reported  
Contaminated Media : Not reported  
Contact Name : MAX RAINES  
Contact Phone and Ext :515-432-7120  
Event Code Description: INSTITUTIONAL CONTROLS ESTABLISHED-PROPRIETARY CONTROL

**ALLSITES:**

Site Id Number: 667  
Project Manager: Greg Fuhrmann  
Ownership Type: Private  
Status: Closed  
Program: EPA Lead  
Site Type: Commercial  
Brownfield Eligible: False  
Registry: False  
Institutional Control: False  
Priority: 0  
Latitude: 42.06399  
Longitude: -93.85725  
XCoord: 429076  
YCoord: 4657236

**US FIN ASSUR:**

EPA ID: IAD085372506  
County: Not reported  
Mechanism type: L  
Mechanism Type Description: LETTER OF CREDIT  
Cost estimate: \$715,078.00  
Face value: \$715,078.00  
Effective date: 12/15/2015  
Provider: CITIBANK N.A.  
EPA region: 7

EPA ID: IAD085372506  
County: Not reported  
Mechanism type: X  
Mechanism Type Description: STANDBY TRUST FUND  
Cost estimate: \$715,078.00  
Face value: \$0.00  
Effective date: 3/2/2016  
Provider: SUNTRUST BANK, A GEORGIA BANKING CORPORATION  
EPA region: 7

EPA ID: IAD085372506  
County: Not reported  
Mechanism type: L  
Mechanism Type Description: LETTER OF CREDIT  
Cost estimate: \$722,447.00  
Face value: \$722,447.00  
Effective date: 12/15/2015  
Provider: CITIBANK N.A.  
EPA region: 7

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GATES RUBBER COMPANY (Continued)**

**1000221474**

EPA ID: IAD085372506  
County: Not reported  
Mechanism type: X  
Mechanism Type Description: STANDBY TRUST FUND  
Cost estimate: \$722,447.00  
Face value: \$0.00  
Effective date: 3/2/2016  
Provider: SUNTRUST BANK, A GEORGIA BANKING CORPORATION  
EPA region: 7

**2020 COR ACTION:**

EPA ID: IAD085372506  
Region: 7  
Action: Remedy Construction

**FTTS INSP:**

Inspection Number: 20030514N7010 1  
Region: 07  
Inspection Date: 05/14/03  
Inspector: PUGH  
Violation occurred: Yes  
Investigation Type: EPCRA, Enforcement, SEE Conducted  
Investigation Reason: Neutral Scheme, Region  
Legislation Code: EPCRA  
Facility Function: User

**HIST FTTS INSP:**

Inspection Number: 20030514N7010 1  
Region: 07  
Inspection Date: Not reported  
Inspector: PUGH  
Violation occurred: Yes  
Investigation Type: EPCRA, Enforcement, SEE Conducted  
Investigation Reason: Neutral Scheme, Region  
Legislation Code: EPCRA  
Facility Function: User

**AIRS:**

Facility Number: 08-01-015  
Status: Not reported  
Closed?: CLOSED  
Region: CENTRAL  
Site ID: 100000005497  
Contact Phone: 515-432-7120  
Facility Contact Phone: Not reported  
Mailing Address: 2121 INDUSTRIAL PARK RD  
Mailing Address 2: Not reported  
SIC Primary: Not reported  
NAICS Primary: Not reported

**WI MANIFEST:**

Year: 2009  
EPA ID: IAD085372506

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GATES RUBBER COMPANY (Continued)**

**1000221474**

FID: Not reported  
ACT Code: 201  
ACT Status: A  
ACT Code 1: 201  
ACT Name: HW Generator - Large  
Contact Title: Not reported  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City/State/Zip: Not reported  
Contact Telephone: Not reported  
Contact EMail Address: Not reported

**Shipped:**

Year: 2009  
Manifest Doc Id: 001494714FLE  
Copy Type: TSDCOPY  
Gen EPA ID: IAD085372506  
Gen Date: 05/26/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 06/02/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 06/15/2009

Year: 2009  
Manifest Doc Id: 001482477FLE  
Copy Type: TSDCOPY  
Gen EPA ID: IAD085372506  
Gen Date: 08/27/2009  
GEN Copy Revd Date: Not reported  
TSD Date: 09/03/2009  
TSD EPA ID: WID990829475  
TSD Copy Revd Date: 09/15/2009

Year: 2008  
EPA ID: IAD085372506  
FID: Not reported  
ACT Code: 201  
ACT Status: A  
ACT Code 1: 201  
ACT Name: HW Generator - Large  
Contact Title: Not reported  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City/State/Zip: Not reported  
Contact Telephone: Not reported  
Contact EMail Address: Not reported

Year: 2007  
EPA ID: IAD085372506  
FID: 0  
ACT Code: 201  
ACT Status: A  
ACT Code 1: 201  
ACT Name: HW Generator - Large  
Contact Title: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GATES RUBBER COMPANY (Continued)**

**1000221474**

Contact Name: Not reported  
Contact Address: Not reported  
Contact City/State/Zip: 0  
Contact Telephone: 0  
Contact EMail Address: Not reported

Year: 2005  
EPA ID: IAD085372506  
FID: 0  
ACT Code: 201  
ACT Status: A  
ACT Code 1: 201  
ACT Name: HW Generator - Large  
Contact Title: Not reported  
Contact Name: Not reported  
Contact Address: Not reported  
Contact City/State/Zip: 0  
Contact Telephone: 0  
Contact EMail Address: Not reported

Count: 3 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BOONE	S122542954	BOONE MUNICIPAL AIRPORT APRON REHA	424 CORPORAL ROGER SNEDDEN DR.	50036	IA NPDES
BOONE	S122538040	BOONE MUNICIPAL AIRPORT - CONSTRUC	CORPORAL ROGER SNEDDEN DRIVE	50036	IA NPDES
BOONE	S122540980	CITY OF BOONE - EASTGATE DRIVE - G	CORPORAL ROGER SNEDDEN DR. TO	50036	IA NPDES

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

## **STANDARD ENVIRONMENTAL RECORDS**

### ***Federal NPL site list***

#### **NPL: National Priority List**

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/17/2018	Source: EPA
Date Data Arrived at EDR: 08/09/2018	Telephone: N/A
Date Made Active in Reports: 09/07/2018	Last EDR Contact: 10/04/2018
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/14/2019
	Data Release Frequency: Quarterly

#### **NPL Site Boundaries**

##### **Sources:**

EPA's Environmental Photographic Interpretation Center (EPIC)  
Telephone: 202-564-7333

EPA Region 1  
Telephone 617-918-1143

EPA Region 6  
Telephone: 214-655-6659

EPA Region 3  
Telephone 215-814-5418

EPA Region 7  
Telephone: 913-551-7247

EPA Region 4  
Telephone 404-562-8033

EPA Region 8  
Telephone: 303-312-6774

EPA Region 5  
Telephone 312-886-6686

EPA Region 9  
Telephone: 415-947-4246

EPA Region 10  
Telephone 206-553-8665

#### **Proposed NPL: Proposed National Priority List Sites**

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/17/2018	Source: EPA
Date Data Arrived at EDR: 08/09/2018	Telephone: N/A
Date Made Active in Reports: 09/07/2018	Last EDR Contact: 10/04/2018
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/14/2019
	Data Release Frequency: Quarterly

#### **NPL LIENS: Federal Superfund Liens**

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991  
Date Data Arrived at EDR: 02/02/1994  
Date Made Active in Reports: 03/30/1994  
Number of Days to Update: 56

Source: EPA  
Telephone: 202-564-4267  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

### ***Federal Delisted NPL site list***

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/17/2018  
Date Data Arrived at EDR: 08/09/2018  
Date Made Active in Reports: 09/07/2018  
Number of Days to Update: 29

Source: EPA  
Telephone: N/A  
Last EDR Contact: 10/04/2018  
Next Scheduled EDR Contact: 01/14/2019  
Data Release Frequency: Quarterly

### ***Federal CERCLIS list***

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016  
Date Data Arrived at EDR: 01/05/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 92

Source: Environmental Protection Agency  
Telephone: 703-603-8704  
Last EDR Contact: 07/06/2018  
Next Scheduled EDR Contact: 10/15/2018  
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/17/2018  
Date Data Arrived at EDR: 08/09/2018  
Date Made Active in Reports: 09/07/2018  
Number of Days to Update: 29

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 10/04/2018  
Next Scheduled EDR Contact: 10/29/2018  
Data Release Frequency: Quarterly

### ***Federal CERCLIS NFRAP site list***

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/17/2018	Source: EPA
Date Data Arrived at EDR: 08/09/2018	Telephone: 800-424-9346
Date Made Active in Reports: 09/07/2018	Last EDR Contact: 10/04/2018
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/14/2019
	Data Release Frequency: Quarterly

### ***Federal RCRA CORRACTS facilities list***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018	Source: EPA
Date Data Arrived at EDR: 03/28/2018	Telephone: 800-424-9346
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 09/19/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Quarterly

### ***Federal RCRA non-CORRACTS TSD facilities list***

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: 913-551-7003
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 09/19/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Quarterly

### ***Federal RCRA generators list***

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: 913-551-7003
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 09/19/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: 913-551-7003
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 09/19/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Quarterly

### RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: 913-551-7003
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 09/19/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Quarterly

### ***Federal institutional controls / engineering controls registries***

#### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/14/2018	Source: Department of the Navy
Date Data Arrived at EDR: 05/18/2018	Telephone: 843-820-7326
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/16/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/26/2018
	Data Release Frequency: Varies

#### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/28/2018	Telephone: 703-603-0695
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 08/28/2018
Number of Days to Update: 17	Next Scheduled EDR Contact: 12/10/2018
	Data Release Frequency: Varies

#### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/31/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/28/2018	Telephone: 703-603-0695
Date Made Active in Reports: 09/14/2018	Last EDR Contact: 08/28/2018
Number of Days to Update: 17	Next Scheduled EDR Contact: 12/10/2018
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***Federal ERNS list***

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/18/2018

Date Data Arrived at EDR: 06/27/2018

Date Made Active in Reports: 09/14/2018

Number of Days to Update: 79

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 09/25/2018

Next Scheduled EDR Contact: 01/07/2019

Data Release Frequency: Quarterly

## ***State- and tribal - equivalent CERCLIS***

SHWS: Registry of Hazardous Waste or Hazardous Substance Disposal Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 12/31/2017

Date Data Arrived at EDR: 01/24/2018

Date Made Active in Reports: 02/23/2018

Number of Days to Update: 30

Source: Department of Natural Resources

Telephone: 515-281-8801

Last EDR Contact: 10/15/2018

Next Scheduled EDR Contact: 01/28/2019

Data Release Frequency: Annually

## ***State and tribal landfill and/or solid waste disposal site lists***

SWF/LF: Permitted Solid Waste Management Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/04/2018

Date Data Arrived at EDR: 09/05/2018

Date Made Active in Reports: 10/02/2018

Number of Days to Update: 27

Source: Department of Natural Resources

Telephone: 515-281-8801

Last EDR Contact: 09/05/2018

Next Scheduled EDR Contact: 12/17/2018

Data Release Frequency: Quarterly

## ***State and tribal leaking storage tank lists***

LAST: Leaking Aboveground Storage Tank Sites

A listing of leaking aboveground storage tank sites.

Date of Government Version: 07/16/2018

Date Data Arrived at EDR: 07/18/2018

Date Made Active in Reports: 08/24/2018

Number of Days to Update: 37

Source: Department of Natural Resources

Telephone: 515-281-6001

Last EDR Contact: 07/18/2018

Next Scheduled EDR Contact: 10/29/2018

Data Release Frequency: Quarterly

LUST: Leaking Underground Storage Tank Data

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 08/30/2018

Date Data Arrived at EDR: 09/07/2018

Date Made Active in Reports: 10/02/2018

Number of Days to Update: 25

Source: Department of Natural Resources

Telephone: 515-281-6001

Last EDR Contact: 08/29/2018

Next Scheduled EDR Contact: 12/17/2018

Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018	Source: EPA, Region 5
Date Data Arrived at EDR: 05/18/2018	Telephone: 312-886-7439
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018	Source: EPA Region 10
Date Data Arrived at EDR: 05/18/2018	Telephone: 206-553-2857
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/18/2018	Telephone: 415-972-3372
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018	Source: EPA Region 8
Date Data Arrived at EDR: 05/18/2018	Telephone: 303-312-6271
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018	Source: EPA Region 7
Date Data Arrived at EDR: 05/18/2018	Telephone: 913-551-7003
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 05/18/2018	Telephone: 214-665-6597
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018	Source: EPA Region 4
Date Data Arrived at EDR: 05/18/2018	Telephone: 404-562-8677
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land  
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018	Source: EPA Region 1
Date Data Arrived at EDR: 05/18/2018	Telephone: 617-918-1313
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### **State and tribal registered storage tank lists**

FEMA UST: Underground Storage Tank Listing  
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017	Source: FEMA
Date Data Arrived at EDR: 05/30/2017	Telephone: 202-646-5797
Date Made Active in Reports: 10/13/2017	Last EDR Contact: 10/10/2018
Number of Days to Update: 136	Next Scheduled EDR Contact: 01/21/2019
	Data Release Frequency: Varies

UST: Underground Storage Tank Data  
Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 08/30/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/07/2018	Telephone: 515-281-6001
Date Made Active in Reports: 10/02/2018	Last EDR Contact: 08/29/2018
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Quarterly

AST: Aboveground Storage Tank Sites  
Bulk fuel facilities, commercial fuel operations, private farm sites, and any other storage facility that meets the Department of Public Safety's registration criteria. They register any class I, II or III petroleum product (gas, diesel and oil) above 1,100 gallons.

Date of Government Version: 07/31/2018	Source: Department of Public Safety
Date Data Arrived at EDR: 08/02/2018	Telephone: 515-281-5821
Date Made Active in Reports: 08/24/2018	Last EDR Contact: 09/28/2018
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land  
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018	Source: EPA Region 10
Date Data Arrived at EDR: 05/18/2018	Telephone: 206-553-2857
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land  
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018	Source: EPA Region 9
Date Data Arrived at EDR: 05/18/2018	Telephone: 415-972-3368
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018	Source: EPA Region 7
Date Data Arrived at EDR: 05/18/2018	Telephone: 913-551-7003
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 05/18/2018	Telephone: 214-665-7591
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018	Source: EPA Region 5
Date Data Arrived at EDR: 05/18/2018	Telephone: 312-886-6136
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations).

Date of Government Version: 05/08/2018	Source: EPA Region 4
Date Data Arrived at EDR: 05/18/2018	Telephone: 404-562-9424
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018	Source: EPA Region 8
Date Data Arrived at EDR: 05/18/2018	Telephone: 303-312-6137
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

### INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018	Source: EPA, Region 1
Date Data Arrived at EDR: 05/18/2018	Telephone: 617-918-1313
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 07/27/2018
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/05/2018
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***State and tribal institutional control / engineering control registries***

### **INST CONTROL: Sites with Institutional Controls**

Sites currently enrolled in the Land Recycling Program that have Institutional Controls.

Date of Government Version: 07/16/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/18/2018	Telephone: 515-242-5818
Date Made Active in Reports: 08/24/2018	Last EDR Contact: 07/18/2018
Number of Days to Update: 37	Next Scheduled EDR Contact: 10/29/2018
	Data Release Frequency: Varies

## ***State and tribal voluntary cleanup sites***

### **INDIAN VCP R7: Voluntary Cleanup Priority Listing**

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

### **INDIAN VCP R1: Voluntary Cleanup Priority Listing**

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 09/24/2018
Number of Days to Update: 142	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Varies

### **VCP: Land Recycling Program Sites**

Sites currently enrolled in the Land Recycling Program.

Date of Government Version: 07/16/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/18/2018	Telephone: 515-242-5818
Date Made Active in Reports: 08/23/2018	Last EDR Contact: 07/18/2018
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/29/2018
	Data Release Frequency: Varies

## ***State and tribal Brownfields sites***

### **BROWNFIELDS: Brownfields Site Listing**

Brownfields are abandoned, idled, or under-used industrial and commercial facilities where expansion or redevelopment is complicated by real or perceived environmental contamination.

Date of Government Version: 07/16/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/18/2018	Telephone: 515-281-8489
Date Made Active in Reports: 08/23/2018	Last EDR Contact: 07/18/2018
Number of Days to Update: 36	Next Scheduled EDR Contact: 10/29/2018
	Data Release Frequency: Quarterly

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

#### **US BROWNFIELDS: A Listing of Brownfields Sites**

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/18/2018  
Date Data Arrived at EDR: 06/20/2018  
Date Made Active in Reports: 09/14/2018  
Number of Days to Update: 86

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 09/18/2018  
Next Scheduled EDR Contact: 12/31/2018  
Data Release Frequency: Semi-Annually

### ***Local Lists of Landfill / Solid Waste Disposal Sites***

#### **INDIAN ODI: Report on the Status of Open Dumps on Indian Lands**

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998  
Date Data Arrived at EDR: 12/03/2007  
Date Made Active in Reports: 01/24/2008  
Number of Days to Update: 52

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 07/30/2018  
Next Scheduled EDR Contact: 11/12/2018  
Data Release Frequency: Varies

#### **ODI: Open Dump Inventory**

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985  
Date Data Arrived at EDR: 08/09/2004  
Date Made Active in Reports: 09/17/2004  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 800-424-9346  
Last EDR Contact: 06/09/2004  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

#### **DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations**

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009  
Date Data Arrived at EDR: 05/07/2009  
Date Made Active in Reports: 09/21/2009  
Number of Days to Update: 137

Source: EPA, Region 9  
Telephone: 415-947-4219  
Last EDR Contact: 07/17/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: No Update Planned

#### **IHS OPEN DUMPS: Open Dumps on Indian Land**

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014  
Date Data Arrived at EDR: 08/06/2014  
Date Made Active in Reports: 01/29/2015  
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service  
Telephone: 301-443-1452  
Last EDR Contact: 08/03/2018  
Next Scheduled EDR Contact: 11/12/2018  
Data Release Frequency: Varies

### ***Local Lists of Hazardous waste / Contaminated Sites***

#### **US HIST CDL: National Clandestine Laboratory Register**

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/18/2018  
Date Data Arrived at EDR: 06/20/2018  
Date Made Active in Reports: 09/14/2018  
Number of Days to Update: 86

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/28/2018  
Next Scheduled EDR Contact: 12/10/2018  
Data Release Frequency: No Update Planned

#### **ALLSITES: Contaminated Sites Tracking Database**

All the sites included in the Contaminated Sites Tracking Database. The database includes several regulatory compliance programs and actions.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/16/2018  
Date Data Arrived at EDR: 07/18/2018  
Date Made Active in Reports: 08/23/2018  
Number of Days to Update: 36

Source: Department of Natural Resources  
Telephone: 515-281-4171  
Last EDR Contact: 07/18/2018  
Next Scheduled EDR Contact: 10/29/2018  
Data Release Frequency: Quarterly

### DEL SHWS: Delisted Contaminated Sites Listing

A listing of sites delisted from the Contaminated Sites Listing.

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 01/24/2018  
Date Made Active in Reports: 02/23/2018  
Number of Days to Update: 30

Source: Department of Natural Resources  
Telephone: 515-281-8801  
Last EDR Contact: 10/15/2018  
Next Scheduled EDR Contact: 01/28/2019  
Data Release Frequency: Annually

### US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/18/2018  
Date Data Arrived at EDR: 06/20/2018  
Date Made Active in Reports: 09/14/2018  
Number of Days to Update: 86

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/28/2018  
Next Scheduled EDR Contact: 12/10/2018  
Data Release Frequency: Quarterly

### Local Land Records

#### LIENS: Liens Filed Listing

A listing of liens filed with the Iowa Comprehensive Petroleum Underground Storage Tank Fund.

Date of Government Version: 07/05/2018  
Date Data Arrived at EDR: 07/24/2018  
Date Made Active in Reports: 08/24/2018  
Number of Days to Update: 31

Source: Department of Natural Resources  
Telephone: 515-281-5523  
Last EDR Contact: 07/17/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

#### LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/17/2018  
Date Data Arrived at EDR: 08/09/2018  
Date Made Active in Reports: 10/05/2018  
Number of Days to Update: 57

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 10/04/2018  
Next Scheduled EDR Contact: 01/14/2019  
Data Release Frequency: Semi-Annually

### Records of Emergency Release Reports

#### HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018  
Date Data Arrived at EDR: 03/27/2018  
Date Made Active in Reports: 06/08/2018  
Number of Days to Update: 73

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 09/25/2018  
Next Scheduled EDR Contact: 01/07/2019  
Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### SPILLS: Spills Database

Spill reporting data that is collected during the initial report of an incident.

Date of Government Version: 09/04/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/06/2018	Telephone: 515-281-4367
Date Made Active in Reports: 10/02/2018	Last EDR Contact: 09/06/2018
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Annually

### SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 10/17/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 03/05/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 61	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

### Other Ascertainable Records

#### RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/28/2018	Telephone: 913-551-7003
Date Made Active in Reports: 06/22/2018	Last EDR Contact: 09/19/2018
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Quarterly

#### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 07/08/2015	Telephone: 202-528-4285
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 08/24/2018
Number of Days to Update: 97	Next Scheduled EDR Contact: 12/03/2018
	Data Release Frequency: Varies

#### DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/12/2018
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/21/2019
	Data Release Frequency: Semi-Annually

#### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 02/06/2006  
Date Made Active in Reports: 01/11/2007  
Number of Days to Update: 339

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 10/12/2018  
Next Scheduled EDR Contact: 01/21/2019  
Data Release Frequency: N/A

### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017  
Date Data Arrived at EDR: 02/03/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 63

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 08/17/2018  
Next Scheduled EDR Contact: 11/26/2018  
Data Release Frequency: Varies

### US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 05/31/2018  
Date Data Arrived at EDR: 06/27/2018  
Date Made Active in Reports: 10/05/2018  
Number of Days to Update: 100

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 09/25/2018  
Next Scheduled EDR Contact: 01/07/2019  
Data Release Frequency: Quarterly

### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013  
Date Data Arrived at EDR: 03/21/2014  
Date Made Active in Reports: 06/17/2014  
Number of Days to Update: 88

Source: Environmental Protection Agency  
Telephone: 617-520-3000  
Last EDR Contact: 08/03/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017  
Date Data Arrived at EDR: 05/08/2018  
Date Made Active in Reports: 07/20/2018  
Number of Days to Update: 73

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 08/10/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Varies

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 06/21/2017  
Date Made Active in Reports: 01/05/2018  
Number of Days to Update: 198

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 09/21/2018  
Next Scheduled EDR Contact: 12/31/2018  
Data Release Frequency: Every 4 Years

### TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 01/10/2018  
Date Made Active in Reports: 01/12/2018  
Number of Days to Update: 2

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 08/24/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Annually

### SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009  
Date Data Arrived at EDR: 12/10/2010  
Date Made Active in Reports: 02/25/2011  
Number of Days to Update: 77

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 07/27/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Annually

### ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/17/2018  
Date Data Arrived at EDR: 08/09/2018  
Date Made Active in Reports: 10/05/2018  
Number of Days to Update: 57

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 10/04/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Annually

### RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2018  
Date Data Arrived at EDR: 08/22/2018  
Date Made Active in Reports: 10/05/2018  
Number of Days to Update: 44

Source: Environmental Protection Agency  
Telephone: 202-564-8600  
Last EDR Contact: 07/20/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

### RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/17/1995  
Date Data Arrived at EDR: 07/03/1995  
Date Made Active in Reports: 08/07/1995  
Number of Days to Update: 35

Source: EPA  
Telephone: 202-564-4104  
Last EDR Contact: 06/02/2008  
Next Scheduled EDR Contact: 09/01/2008  
Data Release Frequency: No Update Planned

### PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013  
Date Data Arrived at EDR: 10/17/2014  
Date Made Active in Reports: 10/20/2014  
Number of Days to Update: 3

Source: EPA  
Telephone: 202-564-6023  
Last EDR Contact: 10/04/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Quarterly

### PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017  
Date Data Arrived at EDR: 06/09/2017  
Date Made Active in Reports: 10/13/2017  
Number of Days to Update: 126

Source: EPA  
Telephone: 202-566-0500  
Last EDR Contact: 10/11/2018  
Next Scheduled EDR Contact: 01/21/2019  
Data Release Frequency: Annually

### ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016  
Date Data Arrived at EDR: 11/23/2016  
Date Made Active in Reports: 02/10/2017  
Number of Days to Update: 79

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 10/09/2018  
Next Scheduled EDR Contact: 01/21/2019  
Data Release Frequency: Quarterly

### FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: Quarterly

### FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009  
Date Data Arrived at EDR: 04/16/2009  
Date Made Active in Reports: 05/11/2009  
Number of Days to Update: 25

Source: EPA  
Telephone: 202-566-1667  
Last EDR Contact: 08/18/2017  
Next Scheduled EDR Contact: 12/04/2017  
Data Release Frequency: Quarterly

### MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2016  
Date Data Arrived at EDR: 09/08/2016  
Date Made Active in Reports: 10/21/2016  
Number of Days to Update: 43

Source: Nuclear Regulatory Commission  
Telephone: 301-415-7169  
Last EDR Contact: 09/28/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Quarterly

### COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005  
Date Data Arrived at EDR: 08/07/2009  
Date Made Active in Reports: 10/22/2009  
Number of Days to Update: 76

Source: Department of Energy  
Telephone: 202-586-8719  
Last EDR Contact: 09/07/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Varies

### COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014  
Date Data Arrived at EDR: 09/10/2014  
Date Made Active in Reports: 10/20/2014  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: N/A  
Last EDR Contact: 09/04/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Varies

### PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017  
Date Data Arrived at EDR: 11/30/2017  
Date Made Active in Reports: 12/15/2017  
Number of Days to Update: 15

Source: Environmental Protection Agency  
Telephone: 202-566-0517  
Last EDR Contact: 07/27/2018  
Next Scheduled EDR Contact: 11/05/2018  
Data Release Frequency: Varies

### RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/02/2018  
Date Data Arrived at EDR: 07/05/2018  
Date Made Active in Reports: 10/05/2018  
Number of Days to Update: 92

Source: Environmental Protection Agency  
Telephone: 202-343-9775  
Last EDR Contact: 10/03/2018  
Next Scheduled EDR Contact: 01/14/2019  
Data Release Frequency: Quarterly

### HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2007  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

### DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012  
Date Data Arrived at EDR: 08/07/2012  
Date Made Active in Reports: 09/18/2012  
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 08/09/2018  
Next Scheduled EDR Contact: 11/12/2018  
Data Release Frequency: Varies

### CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2018  
Date Data Arrived at EDR: 07/17/2018  
Date Made Active in Reports: 10/05/2018  
Number of Days to Update: 80

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 10/01/2018  
Next Scheduled EDR Contact: 12/31/2018  
Data Release Frequency: Varies

### BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015  
Date Data Arrived at EDR: 02/22/2017  
Date Made Active in Reports: 09/28/2017  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 08/24/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Biennially

### INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 07/14/2015  
Date Made Active in Reports: 01/10/2017  
Number of Days to Update: 546

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 10/09/2018  
Next Scheduled EDR Contact: 01/21/2019  
Data Release Frequency: Semi-Annually

### FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017  
Date Data Arrived at EDR: 09/11/2018  
Date Made Active in Reports: 09/14/2018  
Number of Days to Update: 3

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 09/11/2018  
Next Scheduled EDR Contact: 11/19/2018  
Data Release Frequency: Varies

### UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/23/2017  
Date Data Arrived at EDR: 10/11/2017  
Date Made Active in Reports: 11/03/2017  
Number of Days to Update: 23

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 08/20/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Varies

### LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/17/2018  
Date Data Arrived at EDR: 08/09/2018  
Date Made Active in Reports: 10/05/2018  
Number of Days to Update: 57

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 10/04/2018  
Next Scheduled EDR Contact: 01/14/2019  
Data Release Frequency: Varies

### LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001  
Date Data Arrived at EDR: 10/27/2010  
Date Made Active in Reports: 12/02/2010  
Number of Days to Update: 36

Source: American Journal of Public Health  
Telephone: 703-305-6451  
Last EDR Contact: 12/02/2009  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

### US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

### US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

### US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2018  
Date Data Arrived at EDR: 08/29/2018  
Date Made Active in Reports: 10/05/2018  
Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 08/29/2018  
Next Scheduled EDR Contact: 12/10/2018  
Data Release Frequency: Semi-Annually

### US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/05/2005  
Date Data Arrived at EDR: 02/29/2008  
Date Made Active in Reports: 04/18/2008  
Number of Days to Update: 49

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 08/31/2018  
Next Scheduled EDR Contact: 12/10/2018  
Data Release Frequency: Varies

### US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011  
Date Data Arrived at EDR: 06/08/2011  
Date Made Active in Reports: 09/13/2011  
Number of Days to Update: 97

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 08/31/2018  
Next Scheduled EDR Contact: 12/10/2018  
Data Release Frequency: Varies

### ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018  
Date Data Arrived at EDR: 09/11/2018  
Date Made Active in Reports: 09/14/2018  
Number of Days to Update: 3

Source: Department of Interior  
Telephone: 202-208-2609  
Last EDR Contact: 09/10/2018  
Next Scheduled EDR Contact: 12/24/2018  
Data Release Frequency: Quarterly

### FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/07/2018  
Date Data Arrived at EDR: 09/05/2018  
Date Made Active in Reports: 10/05/2018  
Number of Days to Update: 30

Source: EPA  
Telephone: (913) 551-7003  
Last EDR Contact: 09/18/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Quarterly

### ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018  
Date Data Arrived at EDR: 09/05/2018  
Date Made Active in Reports: 09/14/2018  
Number of Days to Update: 9

Source: Environmental Protection Agency  
Telephone: 202-564-2280  
Last EDR Contact: 09/05/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Quarterly

### UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017  
Date Data Arrived at EDR: 06/19/2018  
Date Made Active in Reports: 09/14/2018  
Number of Days to Update: 87

Source: Department of Defense  
Telephone: 703-704-1564  
Last EDR Contact: 10/15/2018  
Next Scheduled EDR Contact: 01/28/2019  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/26/2018	Telephone: 202-564-0527
Date Made Active in Reports: 10/05/2018	Last EDR Contact: 08/31/2018
Number of Days to Update: 71	Next Scheduled EDR Contact: 12/10/2018
	Data Release Frequency: Varies

### FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018	Source: EPA
Date Data Arrived at EDR: 08/22/2018	Telephone: 800-385-6164
Date Made Active in Reports: 10/05/2018	Last EDR Contact: 08/22/2018
Number of Days to Update: 44	Next Scheduled EDR Contact: 12/03/2018
	Data Release Frequency: Quarterly

### AIRS: Minor and Title V Sources Listing

A listing of Minor and Title V sources.

Date of Government Version: 06/26/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/31/2018	Telephone: 515-281-8468
Date Made Active in Reports: 08/24/2018	Last EDR Contact: 09/24/2018
Number of Days to Update: 24	Next Scheduled EDR Contact: 01/07/2019
	Data Release Frequency: Varies

### COAL ASH: Coal Ash Disposal Site Listing

A listing of coal combustion residue landfill locations.

Date of Government Version: 09/04/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/05/2018	Telephone: 515-281-8308
Date Made Active in Reports: 10/02/2018	Last EDR Contact: 09/05/2018
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Quarterly

### DRYCLEANERS: Iowa Drycleaner List

A listing of drycleaners in Iowa.

Date of Government Version: 07/06/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 07/27/2018	Telephone: 515-242-5100
Date Made Active in Reports: 08/24/2018	Last EDR Contact: 10/15/2018
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/28/2019
	Data Release Frequency: Varies

### Financial Assurance 1: Financial Assurance Information Listing

A listing of financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/30/2018	Source: Department of Natural Resources
Date Data Arrived at EDR: 09/07/2018	Telephone: 515-242-5086
Date Made Active in Reports: 10/02/2018	Last EDR Contact: 08/29/2018
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/17/2018
	Data Release Frequency: Quarterly

### Financial Assurance 2: Financial Assurance Information Listing

Information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/29/2018  
Date Data Arrived at EDR: 08/30/2018  
Date Made Active in Reports: 10/02/2018  
Number of Days to Update: 33

Source: Department of Natural Resources  
Telephone: 515-242-5818  
Last EDR Contact: 08/29/2018  
Next Scheduled EDR Contact: 12/17/2018  
Data Release Frequency: Varies

### NPDES: List of NPDES Permittees

The files listed below contain information on facilities that hold NPDES permits, or those that are authorized to discharge wastewater to surface waters in Iowa.

Date of Government Version: 08/08/2018  
Date Data Arrived at EDR: 08/10/2018  
Date Made Active in Reports: 08/24/2018  
Number of Days to Update: 14

Source: Department of Natural Resources  
Telephone: 515-281-4736  
Last EDR Contact: 08/09/2018  
Next Scheduled EDR Contact: 11/26/2018  
Data Release Frequency: Varies

### TIER 2: Tier 2 Information Listing

A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 09/18/2018  
Date Made Active in Reports: 10/02/2018  
Number of Days to Update: 14

Source: Department of Natural Resources  
Telephone: 515-725-0302  
Last EDR Contact: 09/17/2018  
Next Scheduled EDR Contact: 12/31/2018  
Data Release Frequency: Annually

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

#### EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A  
Date Data Arrived at EDR: N/A  
Date Made Active in Reports: N/A  
Number of Days to Update: N/A

Source: EDR, Inc.  
Telephone: N/A  
Last EDR Contact: N/A  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

### EDR RECOVERED GOVERNMENT ARCHIVES

#### *Exclusive Recovered Govt. Archives*

#### RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Iowa.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 01/03/2014  
Number of Days to Update: 186

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

#### RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Natural Resources in Iowa.

Date of Government Version: N/A  
Date Data Arrived at EDR: 07/01/2013  
Date Made Active in Reports: 12/26/2013  
Number of Days to Update: 178

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

#### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2018  
Date Data Arrived at EDR: 08/10/2018  
Date Made Active in Reports: 09/10/2018  
Number of Days to Update: 31

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 08/09/2018  
Next Scheduled EDR Contact: 11/26/2018  
Data Release Frequency: No Update Planned

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 07/13/2018  
Date Made Active in Reports: 08/01/2018  
Number of Days to Update: 19

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 10/09/2018  
Next Scheduled EDR Contact: 01/21/2019  
Data Release Frequency: Annually

### NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 07/01/2018  
Date Data Arrived at EDR: 08/01/2018  
Date Made Active in Reports: 08/31/2018  
Number of Days to Update: 30

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 08/01/2018  
Next Scheduled EDR Contact: 11/12/2018  
Data Release Frequency: Quarterly

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 02/23/2018  
Date Made Active in Reports: 04/09/2018  
Number of Days to Update: 45

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 08/21/2018  
Next Scheduled EDR Contact: 12/03/2018  
Data Release Frequency: Annually

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 06/15/2018  
Date Made Active in Reports: 07/09/2018  
Number of Days to Update: 24

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 09/06/2018  
Next Scheduled EDR Contact: 12/24/2018  
Data Release Frequency: Annually

### Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

### Electric Power Transmission Line Data

Source: PennWell Corporation

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**Sensitive Receptors:** There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.  
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services  
Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

### Daycare Centers: Child Care Facilities

Source: Department of Human Services

Telephone: 515-281-4357

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: National Wetland Inventory of Iowa

Source: Department of Natural Resources

Telephone: 319-335-1575

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## **STREET AND ADDRESS INFORMATION**

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## **GEOCHECK® - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

BOONE AASF  
700 CORPORAL SNEDDEN DRIVE  
BOONE, IA 50036

### **TARGET PROPERTY COORDINATES**

Latitude (North):	42.050236 - 42° 3' 0.85"
Longitude (West):	93.852445 - 93° 51' 8.80"
Universal Transverse Mercator:	Zone 15
UTM X (Meters):	429455.9
UTM Y (Meters):	4655492.0
Elevation:	1140 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map:	5942960 BOONE EAST, IA
Version Date:	2013
West Map:	5945179 BOONE WEST, IA
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

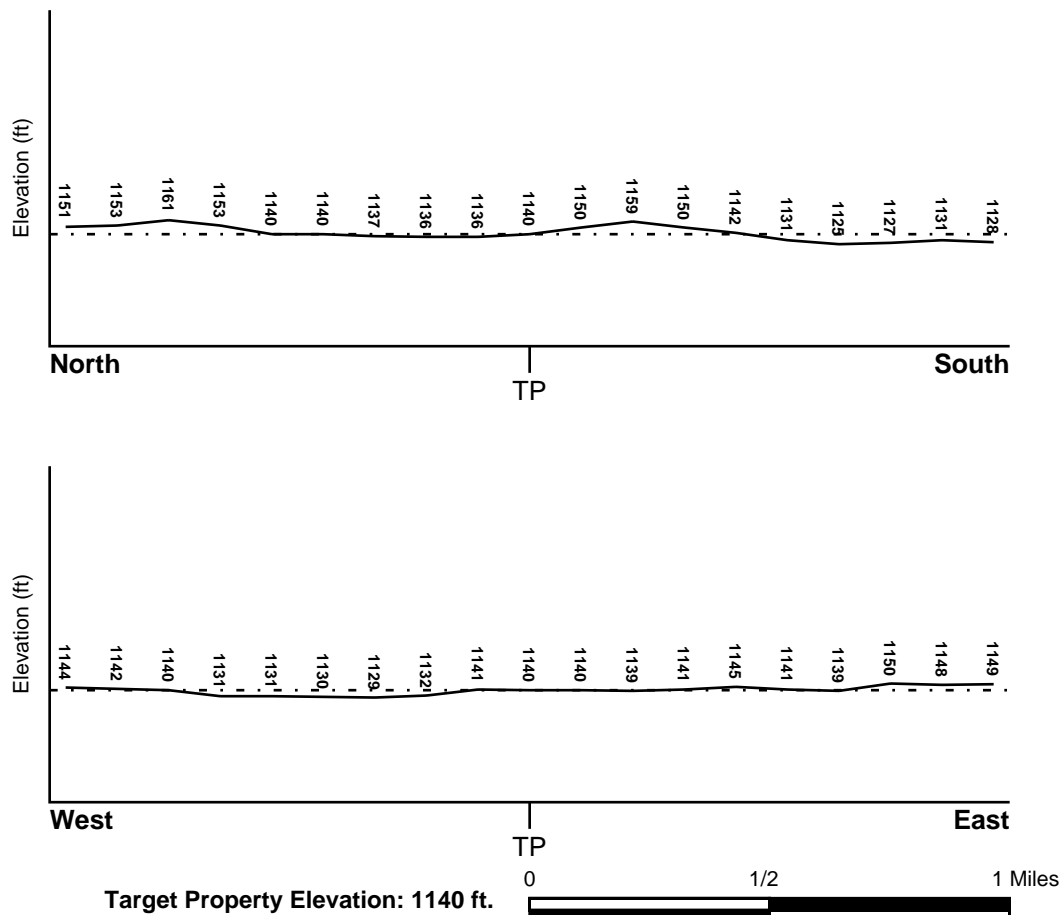
### TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNW

### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### **FEMA FLOOD ZONE**

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
19015C0215C	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
19015C0205C	FEMA FIRM Flood data

### **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
BOONE EAST	YES - refer to the Overview Map and Detail Map

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u>	<u>GENERAL DIRECTION</u>
Not Reported	<u>FROM TP</u>	<u>GROUNDWATER FLOW</u>

## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

Era: Paleozoic  
System: Pennsylvanian  
Series: Des Moines Series  
Code: PP2 *(decoded above as Era, System & Series)*

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### **DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CANISTEO

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	13 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Organic Clay or Organic Silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40
2	13 inches	24 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40
3	24 inches	31 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40
4	31 inches	60 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loam  
muck  
clay loam

Surficial Soil Types: loam  
muck  
clay loam

Shallow Soil Types: silty clay loam  
loam

Deeper Soil Types: loam  
stratified  
silty clay loam  
silt loam

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

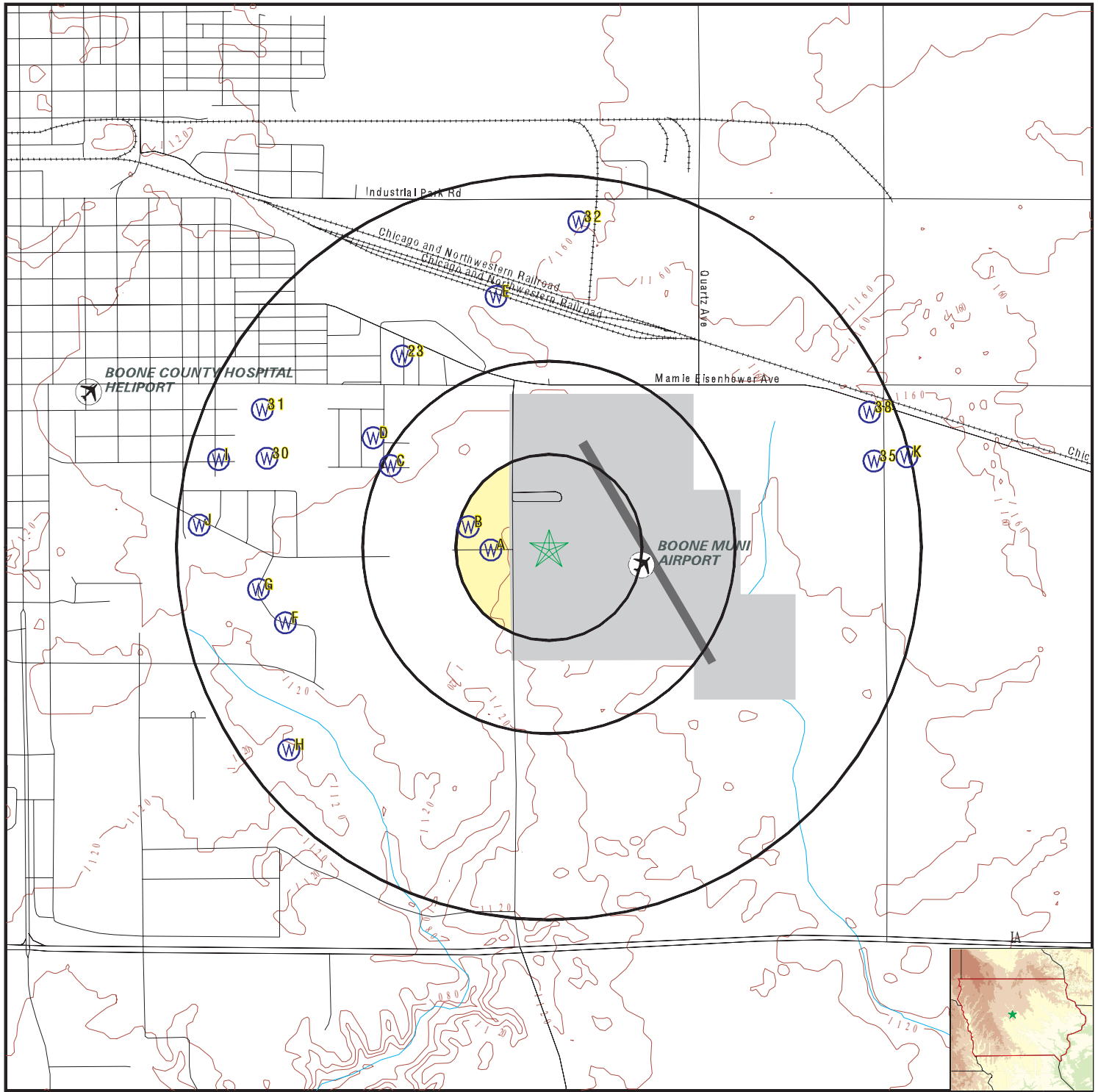
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	IAPU40000312434	1/8 - 1/4 Mile West
A2	IAPU40000312427	1/8 - 1/4 Mile West
A3	IAPU40000312426	1/8 - 1/4 Mile West
A4	IAPU40000312433	1/8 - 1/4 Mile West
A5	IAPU40000312432	1/8 - 1/4 Mile West
A6	IAPU40000312431	1/8 - 1/4 Mile West
A7	IAPU40000312428	1/8 - 1/4 Mile West
A8	IAPU40000312425	1/8 - 1/4 Mile West
A9	IAPU40000312421	1/8 - 1/4 Mile West
A10	IAPU40000312430	1/8 - 1/4 Mile West
A11	IAPU40000312423	1/8 - 1/4 Mile West
A12	IAPU40000312429	1/8 - 1/4 Mile West
A13	IAPU40000312420	1/8 - 1/4 Mile West
A14	IAPU40000312419	1/8 - 1/4 Mile West
A15	IAPU40000312424	1/8 - 1/4 Mile West
A16	IAPU40000312422	1/8 - 1/4 Mile West
B17	IAPU40000312400	1/8 - 1/4 Mile WNW
B18	IAPU40000312397	1/8 - 1/4 Mile WNW
C19	IAPU40000114004	1/4 - 1/2 Mile WNW
C20	IAPW40000055292	1/4 - 1/2 Mile WNW

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
D21	IAPW40000089688	1/2 - 1 Mile WNW
D22	IAPU40000113951	1/2 - 1 Mile WNW
23	IAPU40000113910	1/2 - 1 Mile NW
E24	IAPW40000022608	1/2 - 1 Mile NNW
E25	IAPU40000113980	1/2 - 1 Mile NNW
F26	IAPU40000114009	1/2 - 1 Mile WSW
F27	IAPW40000009585	1/2 - 1 Mile WSW
G28	IAPU40000113941	1/2 - 1 Mile West
G29	IAPW40000043895	1/2 - 1 Mile West
30	IAPU40000113844	1/2 - 1 Mile WNW
31	IAPW40000036504	1/2 - 1 Mile WNW
32	IAPU40000312337	1/2 - 1 Mile North
H33	IAPU40000114141	1/2 - 1 Mile SW
H34	IAPW40000096109	1/2 - 1 Mile SW
35	IAPU40000114658	1/2 - 1 Mile ENE
I36	IAPU40000113799	1/2 - 1 Mile WNW
I37	IAPW40000088603	1/2 - 1 Mile WNW
38	IAPW40000039660	1/2 - 1 Mile ENE
J39	IAPU40000113827	1/2 - 1 Mile West
J40	IAPW40000015961	1/2 - 1 Mile West
K41	IAPU40000312603	1/2 - 1 Mile ENE
K42	IAPU40000312604	1/2 - 1 Mile ENE

# PHYSICAL SETTING SOURCE MAP - 5454361.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Oil, gas or related wells

SITE NAME: Boone AASF  
 ADDRESS: 700 Corporal Snedden Drive  
 Boone IA 50036  
 LAT/LONG: 42.050236 / 93.852445

CLIENT: AECOM  
 CONTACT: Brittany Kirchmann  
 INQUIRY #: 5454361.2s  
 DATE: October 16, 2018 8:58 am

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**A1**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312434**

Database: All Known Water Wells in the State of Iowa  
Well ID: 43402 Well Type: Registered abandoned wells  
Well Depth: 15 Construction/Permit Date: n.a.  
Notes: Well plugged: 5/10/2000; Well type: < 18" dia.

**A2**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312427**

Database: All Known Water Wells in the State of Iowa  
Well ID: 9879 Well Type: Registered abandoned wells  
Well Depth: 25 Construction/Permit Date: n.a.  
Notes: Well plugged: 6/9/1992; Well type: < 18" dia.

**A3**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312426**

Database: All Known Water Wells in the State of Iowa  
Well ID: 43397 Well Type: Registered abandoned wells  
Well Depth: 15 Construction/Permit Date: n.a.  
Notes: Well plugged: 5/10/2000; Well type: < 18" dia.

**A4**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312433**

Database: All Known Water Wells in the State of Iowa  
Well ID: 43393 Well Type: Registered abandoned wells  
Well Depth: 15 Construction/Permit Date: n.a.  
Notes: Well plugged: 5/10/2000; Well type: < 18" dia.

**A5**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312432**

Database: All Known Water Wells in the State of Iowa  
Well ID: 43401 Well Type: Registered abandoned wells  
Well Depth: 15 Construction/Permit Date: n.a.  
Notes: Well plugged: 5/10/2000; Well type: < 18" dia.

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**A6**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312431**

Database: All Known Water Wells in the State of Iowa  
Well ID: 43403 Well Type: Registered abandoned wells  
Well Depth: 15 Construction/Permit Date: n.a.  
Notes: Well plugged: 5/10/2000; Well type: < 18" dia.

**A7**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312428**

Database: All Known Water Wells in the State of Iowa  
Well ID: 43396 Well Type: Registered abandoned wells  
Well Depth: 15 Construction/Permit Date: n.a.  
Notes: Well plugged: 5/10/2000; Well type: < 18" dia.

**A8**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312425**

Database: All Known Water Wells in the State of Iowa  
Well ID: 9878 Well Type: Registered abandoned wells  
Well Depth: 25 Construction/Permit Date: n.a.  
Notes: Well plugged: 6/9/1992; Well type: < 18" dia.

**A9**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312421**

Database: All Known Water Wells in the State of Iowa  
Well ID: 43394 Well Type: Registered abandoned wells  
Well Depth: 15 Construction/Permit Date: n.a.  
Notes: Well plugged: 5/10/2000; Well type: < 18" dia.

**A10**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312430**

Database: All Known Water Wells in the State of Iowa  
Well ID: 43395 Well Type: Registered abandoned wells  
Well Depth: 15 Construction/Permit Date: n.a.  
Notes: Well plugged: 5/10/2000; Well type: < 18" dia.

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**A11**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312423**

Database: All Known Water Wells in the State of Iowa  
Well ID: 43399 Well Type: Registered abandoned wells  
Well Depth: 15 Construction/Permit Date: n.a.  
Notes: Well plugged: 5/10/2000; Well type: < 18" dia.

**A12**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312429**

Database: All Known Water Wells in the State of Iowa  
Well ID: 43400 Well Type: Registered abandoned wells  
Well Depth: 15 Construction/Permit Date: n.a.  
Notes: Well plugged: 5/10/2000; Well type: < 18" dia.

**A13**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312420**

Database: All Known Water Wells in the State of Iowa  
Well ID: 43404 Well Type: Registered abandoned wells  
Well Depth: 15 Construction/Permit Date: n.a.  
Notes: Well plugged: 5/10/2000; Well type: < 18" dia.

**A14**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312419**

Database: All Known Water Wells in the State of Iowa  
Well ID: 43398 Well Type: Registered abandoned wells  
Well Depth: 15 Construction/Permit Date: n.a.  
Notes: Well plugged: 5/10/2000; Well type: < 18" dia.

**A15**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312424**

Database: All Known Water Wells in the State of Iowa  
Well ID: 43392 Well Type: Registered abandoned wells  
Well Depth: 15 Construction/Permit Date: n.a.  
Notes: Well plugged: 5/10/2000; Well type: < 18" dia.

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**A16**  
**West**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312422**

Database: All Known Water Wells in the State of Iowa  
Well ID: 43391 Well Type: Registered abandoned wells  
Well Depth: 15 Construction/Permit Date: n.a.  
Notes: Well plugged: 5/10/2000; Well type: < 18" dia.

**B17**  
**WNW**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312400**

Database: All Known Water Wells in the State of Iowa  
Well ID: 14147 Well Type: Registered abandoned wells  
Well Depth: unkn Construction/Permit Date: n.a.  
Notes: Well plugged: 6/9/1992; Well type: unkn

**B18**  
**WNW**  
**1/8 - 1/4 Mile**  
**Lower**

**IA WELLS IAPU40000312397**

Database: All Known Water Wells in the State of Iowa  
Well ID: 5399 Well Type: Registered abandoned wells  
Well Depth: unkn Construction/Permit Date: n.a.  
Notes: Well plugged: 6/9/1992; Well type: unkn

**C19**  
**WNW**  
**1/4 - 1/2 Mile**  
**Higher**

**IA WELLS IAPU40000114004**

Database: All Known Water Wells in the State of Iowa  
Well ID: 2137752 Well Type: Private well tracking system  
Well Depth: unkn Construction/Permit Date: unkn  
Notes: Status: Permitted

**C20**  
**WNW**  
**1/4 - 1/2 Mile**  
**Higher**

**IA WELLS IAPW40000055292**

Database: Private Well Tracking System Wells  
PWTS Well #: 2137752 Permit #: 29037  
Tier #: 84 Range #: 26  
Elevation: 0 Elevation Accuracy: Not Reported  
Total Well Depth: 0 Bedrock Depth: 0  
Depth to Water: 0 Well Finished: Not Reported  
Driller: Kaldenberg Brothers Construction Method: Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Remarks:	Not Reported	Well Use:	Heat pump
Well Status:	Permitted	Heat Pump Wells:	4
Permitted Private Well:	X	Abandoned Well:	Not Reported
Renovated Well:	Not Reported	Registered for Tests:	Not Reported

**D21**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS IAPW40000089688**

Database:	Private Well Tracking System Wells	Permit #:	33166
PWTS Well #:	2150206	Range #:	26
Tier #:	84	Elevation Accuracy:	Not Reported
Elevation:	0	Bedrock Depth:	0
Total Well Depth:	0	Well Finished:	Not Reported
Depth to Water:	0	Construction Method:	Not Reported
Driller:	Not Reported	Well Use:	Household
Remarks:	Not Reported	Heat Pump Wells:	0
Well Status:	Permitted	Abandoned Well:	Not Reported
Permitted Private Well:	X	Registered for Tests:	Not Reported
Renovated Well:	Not Reported		

**D22**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS IAPU40000113951**

Database:	All Known Water Wells in the State of Iowa	Well Type:	Private well tracking system
Well ID:	2150206	Construction/Permit Date:	unkn
Well Depth:	unkn		
Notes:	Status: Permitted		

**23**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS IAPU40000113910**

Database:	All Known Water Wells in the State of Iowa	Well Type:	Private well tracking system
Well ID:	2186551	Construction/Permit Date:	1/1/1950
Well Depth:	23		
Notes:	Status: Plugged		

**E24**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS IAPW40000022608**

Database:	Private Well Tracking System Wells	Permit #:	Not Reported
PWTS Well #:	2094099	Range #:	26
Tier #:	84	Elevation Accuracy:	Not Reported
Elevation:	0	Bedrock Depth:	0
Total Well Depth:	8	Well Finished:	01-JAN-03
Depth to Water:	0	Construction Method:	Unknown
Driller:	Not Reported		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Remarks:	Not Reported	Well Use:	Household
Well Status:	Plugged	Heat Pump Wells:	0
Permitted Private Well:	Not Reported	Abandoned Well:	X
Renovated Well:	Not Reported	Registered for Tests:	Not Reported

**E25**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS**      **IAPU40000113980**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2094099	Well Type:	Private well tracking system
Well Depth:	8	Construction/Permit Date:	1/1/2003
Notes:	Status: Plugged		

**F26**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**IA WELLS**      **IAPU40000114009**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2086407	Well Type:	Private well tracking system
Well Depth:	unkn	Construction/Permit Date:	unkn
Notes:	Status: Retired		

**F27**  
**WSW**  
**1/2 - 1 Mile**  
**Lower**

**IA WELLS**      **IAPW40000009585**

Database:	Private Well Tracking System Wells		
PWTS Well #:	2086407	Permit #:	12875
Tier #:	84	Range #:	26
Elevation:	0	Elevation Accuracy:	Not Reported
Total Well Depth:	0	Bedrock Depth:	0
Depth to Water:	0	Well Finished:	Not Reported
Driller:	Larson Well Company	Construction Method:	Not Reported
Remarks:	Not Reported	Well Use:	Heat pump
Well Status:	Retired	Heat Pump Wells:	5
Permitted Private Well:	X	Abandoned Well:	Not Reported
Renovated Well:	Not Reported	Registered for Tests:	Not Reported

**G28**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**IA WELLS**      **IAPU40000113941**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2120278	Well Type:	Private well tracking system
Well Depth:	unkn	Construction/Permit Date:	unkn
Notes:	Status: Retired		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**G29**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**IA WELLS IAPW40000043895**

Database:	Private Well Tracking System Wells	Permit #:	23302
PWTS Well #:	2120278	Range #:	26
Tier #:	84	Elevation Accuracy:	Not Reported
Elevation:	0	Bedrock Depth:	0
Total Well Depth:	0	Well Finished:	Not Reported
Depth to Water:	0	Construction Method:	Not Reported
Driller:	Not Reported	Well Use:	Heat pump
Remarks:	Not Reported	Heat Pump Wells:	5
Well Status:	Retired	Abandoned Well:	Not Reported
Permitted Private Well:	X	Registered for Tests:	Not Reported
Renovated Well:	Not Reported		

**30**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS IAPU40000113844**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2108621	Well Type:	Private well tracking system
Well Depth:	205	Construction/Permit Date:	8/12/2005
Notes:	Status: Active		

**31**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS IAPW40000036504**

Database:	Private Well Tracking System Wells	Permit #:	19356
PWTS Well #:	2108621	Range #:	26
Tier #:	84	Elevation Accuracy:	Not Reported
Elevation:	0	Bedrock Depth:	0
Total Well Depth:	205	Well Finished:	12-AUG-05
Depth to Water:	0	Construction Method:	Rotary Drill
Driller:	Henry Well Co.	Well Use:	Heat pump
Remarks:	Not Reported	Heat Pump Wells:	300
Well Status:	Active	Abandoned Well:	Not Reported
Permitted Private Well:	X	Registered for Tests:	Not Reported
Renovated Well:	Not Reported		

**32**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS IAPU40000312337**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	23279	Well Type:	Registered abandoned wells
Well Depth:	20	Construction/Permit Date:	n.a.
Notes:	Well plugged: 2/9/1995; Well type: < 18" dia.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**H33**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**IA WELLS IAPU40000114141**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2163315	Well Type:	Private well tracking system
Well Depth:	unkn	Construction/Permit Date:	unkn
Notes:	Status: Permitted		

**H34**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**IA WELLS IAPW40000096109**

Database:	Private Well Tracking System Wells		
PWTS Well #:	2163315	Permit #:	37574
Tier #:	84	Range #:	26
Elevation:	0	Elevation Accuracy:	Not Reported
Total Well Depth:	0	Bedrock Depth:	0
Depth to Water:	0	Well Finished:	Not Reported
Driller:	* Unknown	Construction Method:	Not Reported
Remarks:	Not Reported	Well Use:	Heat pump
Well Status:	Permitted	Heat Pump Wells:	5
Permitted Private Well:	X	Abandoned Well:	Not Reported
Renovated Well:	Not Reported	Registered for Tests:	Not Reported

**35**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS IAPU40000114658**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2115818	Well Type:	Private well tracking system
Well Depth:	13	Construction/Permit Date:	1/1/1950
Notes:	Status: Active		

**I36**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS IAPU40000113799**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	2147618	Well Type:	Private well tracking system
Well Depth:	unkn	Construction/Permit Date:	unkn
Notes:	Status: Permitted		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**I37**  
**WNW**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS IAPW40000088603**

Database:	Private Well Tracking System Wells	Permit #:	32349
PWTS Well #:	2147618	Range #:	26
Tier #:	84	Elevation Accuracy:	Not Reported
Elevation:	0	Bedrock Depth:	0
Total Well Depth:	0	Well Finished:	Not Reported
Depth to Water:	0	Construction Method:	Not Reported
Driller:	Mort's Well Co.	Well Use:	Heat pump
Remarks:	Not Reported	Heat Pump Wells:	3
Well Status:	Permitted	Abandoned Well:	Not Reported
Permitted Private Well:	X	Registered for Tests:	Not Reported
Renovated Well:	Not Reported		

**38**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS IAPW40000039660**

Database:	Private Well Tracking System Wells	Permit #:	Not Reported
PWTS Well #:	2115818	Range #:	26
Tier #:	84	Elevation Accuracy:	Not Reported
Elevation:	0	Bedrock Depth:	0
Total Well Depth:	13	Well Finished:	01-JAN-50
Depth to Water:	0	Construction Method:	Unknown
Driller:	Not Reported	Well Use:	Household
Remarks:	Not Reported	Heat Pump Wells:	0
Well Status:	Active	Abandoned Well:	Not Reported
Permitted Private Well:	Not Reported	Registered for Tests:	X
Renovated Well:	Not Reported		

**J39**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS IAPU40000113827**

Database:	All Known Water Wells in the State of Iowa	Well Type:	Private well tracking system
Well ID:	2080805	Construction/Permit Date:	7/10/2002
Well Depth:	207		
Notes:	Status: Active		

**J40**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS IAPW40000015961**

Database:	Private Well Tracking System Wells	Permit #:	11598
PWTS Well #:	2080805	Range #:	26
Tier #:	84	Elevation Accuracy:	Not Reported
Elevation:	0	Bedrock Depth:	0
Total Well Depth:	207		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Depth to Water:	0	Well Finished:	10-JUL-02
Driller:	Tri-County Refrigeration	Construction Method:	Rotary Drill
Remarks:	Not Reported	Well Use:	Heat pump
Well Status:	Active	Heat Pump Wells:	5
Permitted Private Well:	X	Abandoned Well:	Not Reported
Renovated Well:	Not Reported	Registered for Tests:	Not Reported

**K41**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPU40000312603**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	20535	Well Type:	Registered abandoned wells
Well Depth:	20	Construction/Permit Date:	n.a.
Notes:	Well plugged: 9/15/1995; Well type: other		

**K42**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**IA WELLS      IAPU40000312604**

Database:	All Known Water Wells in the State of Iowa		
Well ID:	20536	Well Type:	Registered abandoned wells
Well Depth:	20	Construction/Permit Date:	n.a.
Notes:	Well plugged: 9/15/1995; Well type: other		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

State Database: IA Radon

#### Radon Test Results

Zipcode	Num Tests	Minimum	Maximum	Average
50036	45	0.5	42.7	5.8

Federal EPA Radon Zone for BOONE County: 1

Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

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Federal Area Radon Information for Zip Code: 50036

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	10.225 pCi/L	0%	100%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

**Flood Zone Data:** This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

**NWI:** National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: National Wetland Inventory of Iowa

Source: Department of Natural Resources

Telephone: 319-335-1575

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### All Known Water Wells in the State of Iowa

Source: Department of Natural Resources

Telephone: 319-335-1353

Well types included are agricultural drainage, permitted private, public, registered abandoned, SDWIS public, water use permit sites, wells registered for testing.

#### Agricultural Drainage Wells

Source: Department of Natural Resources

Telephone: 515-281-5029

Agricultural drainage wells are required to be registered both with the Iowa Department of Natural Resources as a part of the 1987 Groundwater Protection Act, and with the U.S. Environmental Protection Agency as a part of the Underground Injection Control Program.

#### Private Well Tracking System Wells

Source: Department of Natural Resources

Telephone: 319-335-1353

#### Water Use Permits

Source: Department of Natural Resources

Telephone: 515-725-0336

Wells under Water Use permits. A water use permit is required of any person or entity that withdraws or diverts at least 25,000 gallons of water in a 24-hour period during any calendar year.

#### Private Wells Tested

Source: Department of Natural Resources

Telephone: 515-335-1353

This is a point coverage for private wells which have been tested for bacteria and nitrate contamination under the Grants to Counties program.

## OTHER STATE DATABASE INFORMATION

#### Oil and Gas Well Database

Source: Department of Natural Resources

Oil and gas well locations.

### RADON

#### State Database: IA Radon

Source: Department of Public Health

Telephone: 515-281-4340

Radon Test Results

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

### **STREET AND ADDRESS INFORMATION**

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**Boone AASF**

700 Corporal Snedden Drive  
Boone, IA 50036

Inquiry Number: 5454361.2s  
October 16, 2018

## EDR Summary Radius Map Report



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Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
Executive Summary .....	ES1
Overview Map .....	2
Detail Map .....	3
Map Findings Summary .....	4
Map Findings .....	8
Orphan Summary .....	66
Government Records Searched/Data Currency Tracking .....	GR-1
 <b><u>GEOCHECK ADDENDUM</u></b>	
Physical Setting Source Addendum .....	A-1
Physical Setting Source Summary .....	A-2
Physical Setting Source Map .....	A-8
Physical Setting Source Map Findings .....	A-9
Physical Setting Source Records Searched .....	PSGR-1

***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

700 CORPORAL SNEDDEN DRIVE  
BOONE, IA 50036

#### COORDINATES

Latitude (North):	42.0502360 - 42° 3' 0.84"
Longitude (West):	93.8524450 - 93° 51' 8.80"
Universal Transverse Mercator:	Zone 15
UTM X (Meters):	429455.9
UTM Y (Meters):	4655492.0
Elevation:	1140 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	TP
Source:	U.S. Geological Survey
Target Property:	W
Source:	U.S. Geological Survey

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150815, 20150912
Source:	USDA

# MAPPED SITES SUMMARY

Target Property Address:  
700 CORPORAL SNEDDEN DRIVE  
BOONE, IA 50036

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	IOWA ARMY NATIONAL G	700 SNEDDEN DR	FINDS, ECHO		TP
<a href="#">A2</a>	IOWA ARMY NATIONAL G	700 SNEDDEN DR	RCRA-SQG, WI MANIFEST		TP
<a href="#">A3</a>	IOWA ARMY NATIONAL G	AASF 1, 700 SNEDDEN	IA AIRS		TP
<a href="#">A4</a>	OMS #10/AASF1	700 SNEDDEN DR	IA RGA LUST		TP
<a href="#">A5</a>	FMS10/AAS1	700 SNEDDEN DR	IA LUST, IA UST, IA Financial Assurance, IA TIER 2		TP
<a href="#">A6</a>	ARMY AVIATION SUPPOR	700 SNEDDEN DR.	IA NPDES		TP
<a href="#">A7</a>	IOWA ARMY NATIONAL G	700 SNEDDEN DR	ICIS, US AIRS		TP
<a href="#">A8</a>	IOWA ARMY NATIONAL G	700 SNEDDEN DRIVE	IA NPDES		TP
<a href="#">A9</a>	FMS #10, AASF #1	700 SNEDDEN DR. ROAD	IA TIER 2		TP
<a href="#">10</a>	MIDLAND BIOPRODUCTS	800 SNEDDEN DR	RCRA NonGen / NLR	Higher	83, 0.016, SW
<a href="#">B11</a>	IOWA DEPT OF TRANSPOR	400 AIRPORT RD	RCRA-SQG, FINDS, ECHO	Higher	87, 0.016, WSW
<a href="#">B12</a>	IDOT MAINT SHED	301 CORPORAL RODGER	IA LUST, IA UST, IA Financial Assurance	Lower	177, 0.034, West
<a href="#">13</a>	BOONE MUNICIPAL AIRP	424 CORPORAL ROGER S	IA LUST, IA UST, FINDS, IA Financial Assurance	Lower	415, 0.079, NNE
<a href="#">14</a>	OMS #10	OMS #10 CPL SNEDDEN	IA UST	Higher	684, 0.130, SSW
<a href="#">15</a>	CHEKER UNIT #7878	RR 1 BOX 514	IA UST	Lower	1316, 0.249, North
<a href="#">16</a>	MADDEN LTD	2232 EAST 4TH	IA LUST, IA UST	Higher	2475, 0.469, NNW
<a href="#">17</a>	GATES RUBBER COMPANY	2121 INDUSTRIAL PARK	CORRACTS, RCRA-CESQG, US ENG CONTROLS, US INST...	Higher	5099, 0.966, NNW

## EXECUTIVE SUMMARY

### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
IOWA ARMY NATIONAL G 700 SNEDDEN DR BOONE, IA 50036	FINDS Registry ID:: 110005755922  ECHO Registry ID: 110005755922	N/A
IOWA ARMY NATIONAL G 700 SNEDDEN DR BOONE, IA 50036	RCRA-SQG EPA ID:: IAD981503675  WI MANIFEST ACT Status: A FID: 0 EPA ID: IAD981503675	IAD981503675
IOWA ARMY NATIONAL G AASF 1, 700 SNEDDEN BOONE, IA 50036	IA AIRS Status: MINOR EI Facility Id: 08-01-030	N/A
OMS #10/AASF1 700 SNEDDEN DR BOONE, IA	IA RGA LUST Facility ID: 2723 Facility ID: 2724 Facility ID: 198605891	N/A
FMS10/AAS1 700 SNEDDEN DR BOONE, IA 50036	IA LUST Facility Id: 2723 Facility Id: 2724 Leak Status: Continuing Leak Status: Stopped  IA UST Facility Id: 6225 Registration: 198605891  IA Financial Assurance Database: Financial Assurance 1, Date of Government Version: 08/30/2018 Facility Id: 198605891  IA TIER 2 Facility Id: 866 Facility Id: FAIDSIT2A00000866	N/A
ARMY AVIATION SUPPOR 700 SNEDDEN DR. BOONE, IA 50036	IA NPDES	N/A
IOWA ARMY NATIONAL G 700 SNEDDEN DR BOONE, IA 50036	ICIS	N/A

## EXECUTIVE SUMMARY

FRS ID:: 110005755922

US AIRS

Database: US AIRS MINOR, Date of Government Version: 10/12/2016

IOWA ARMY NATIONAL G  
700 SNEDDEN DRIVE  
BOONE, IA 50036

IA NPDES

N/A

FMS #10, AASF #1  
700 SNEDDEN DR. ROAD  
BOONE, IA 50703

IA TIER 2

Facility Id: FAIDSIT2A00000866

State Id: IA

N/A

### SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

### STANDARD ENVIRONMENTAL RECORDS

#### ***Federal RCRA CORRACTS facilities list***

CORRACTS: A review of the CORRACTS list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>GATES RUBBER COMPANY</i></b> EPA ID:: IAD085372506	<b><i>2121 INDUSTRIAL PARK</i></b>	<b><i>NNW 1/2 - 1 (0.966 mi.)</i></b>	<b><i>17</i></b>	<b><i>12</i></b>

#### ***Federal RCRA generators list***

RCRA-SQG: A review of the RCRA-SQG list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b><i>IOWA DEPT OF TRANSP</i></b>	<b><i>400 AIRPORT RD</i></b>	<b><i>WSW 0 - 1/8 (0.016 mi.)</i></b>	<b><i>B11</i></b>	<b><i>10</i></b>

## EXECUTIVE SUMMARY

EPA ID:: IAD981500242

### State and tribal leaking storage tank lists

IA LUST: A review of the IA LUST list, as provided by EDR, and dated 08/30/2018 has revealed that there are 3 IA LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>MADDEN LTD</b> Facility Id: 5911 Leak Status: Stopped	<b>2232 EAST 4TH</b>	<b>NNW 1/4 - 1/2 (0.469 mi.)</b>	<b>16</b>	<b>12</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>IDOT MAINT SHED</b> Facility Id: 4345 Leak Status: Stopped	<b>301 CORPORAL RODGER</b>	<b>W 0 - 1/8 (0.034 mi.)</b>	<b>B12</b>	<b>10</b>
<b>BOONE MUNICIPAL AIRP</b> Facility Id: 908 Leak Status: Unknown	<b>424 CORPORAL ROGER S</b>	<b>NNE 0 - 1/8 (0.079 mi.)</b>	<b>13</b>	<b>11</b>

### State and tribal registered storage tank lists

IA UST: A review of the IA UST list, as provided by EDR, and dated 08/30/2018 has revealed that there are 4 IA UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>OMS #10</b> Facility Id: 6226 Registration: 198605892	<b>OMS #10 CPL SNEDDEN</b>	<b>SSW 1/8 - 1/4 (0.130 mi.)</b>	<b>14</b>	<b>11</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>IDOT MAINT SHED</b> Facility Id: 9462 Registration: 198609348	<b>301 CORPORAL RODGER</b>	<b>W 0 - 1/8 (0.034 mi.)</b>	<b>B12</b>	<b>10</b>
<b>BOONE MUNICIPAL AIRP</b> Facility Id: 1918 Registration: 198601365	<b>424 CORPORAL ROGER S</b>	<b>NNE 0 - 1/8 (0.079 mi.)</b>	<b>13</b>	<b>11</b>
<b>CHEKER UNIT #7878</b> Facility Id: 9295 Registration: 198609174	<b>RR 1 BOX 514</b>	<b>N 1/8 - 1/4 (0.249 mi.)</b>	<b>15</b>	<b>11</b>

## EXECUTIVE SUMMARY

### ADDITIONAL ENVIRONMENTAL RECORDS

#### ***Other Ascertainable Records***

RCRA NonGen / NLR: A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

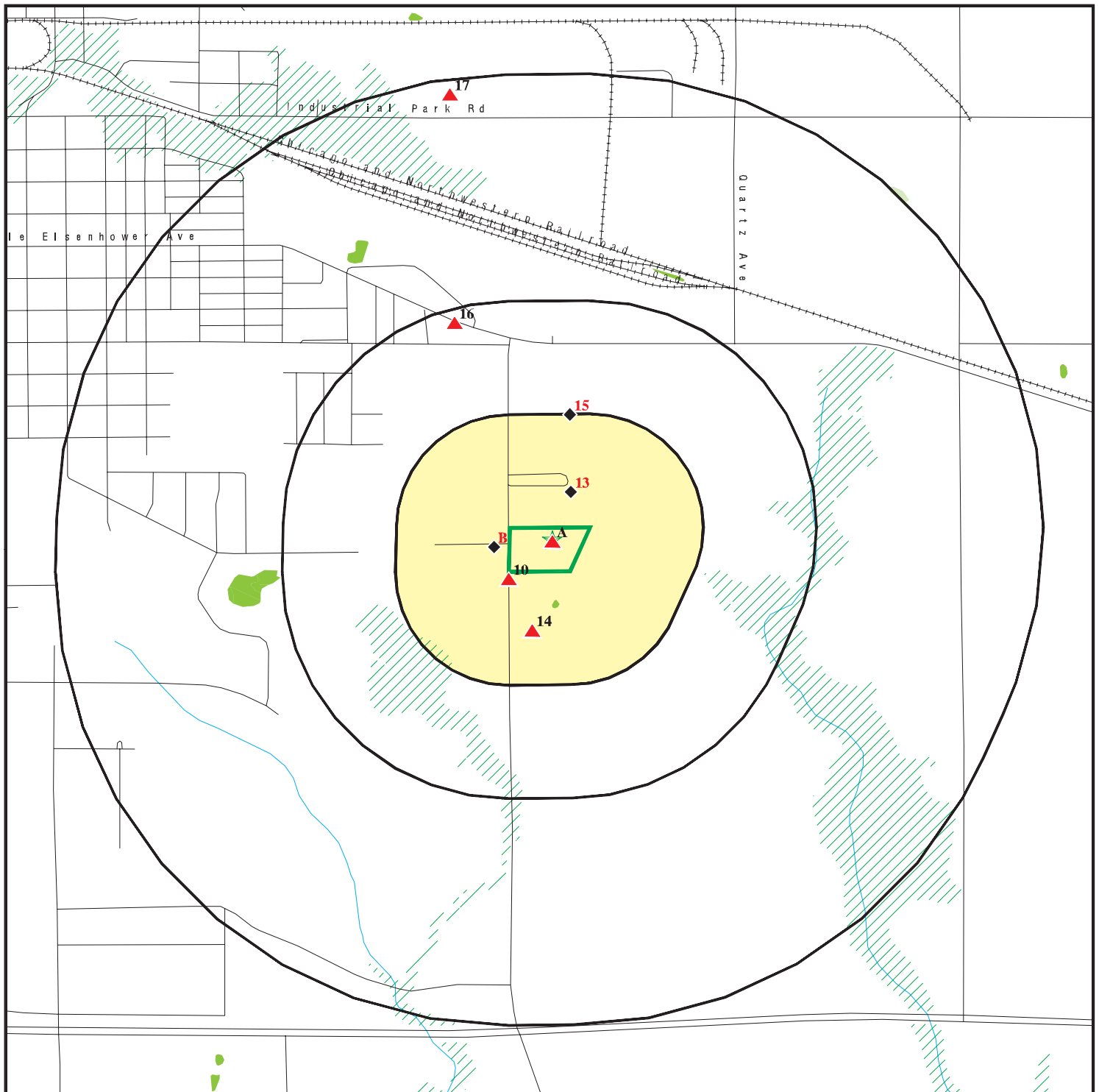
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MIDLAND BIOPRODUCTS EPA ID:: IA0000464230	800 SNEDDEN DR	SW 0 - 1/8 (0.016 mi.)	10	10

Count: 3 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BOONE	S122542954	BOONE MUNICIPAL AIRPORT APRON REHA	424 CORPORAL ROGER SNEDDEN DR.	50036	IA NPDES
BOONE	S122538040	BOONE MUNICIPAL AIRPORT - CONSTRUC	CORPORAL ROGER SNEDDEN DRIVE	50036	IA NPDES
BOONE	S122540980	CITY OF BOONE - EASTGATE DRIVE - G	CORPORAL ROGER SNEDDEN DR. TO	50036	IA NPDES

# OVERVIEW MAP - 5454361.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Upgradient Area

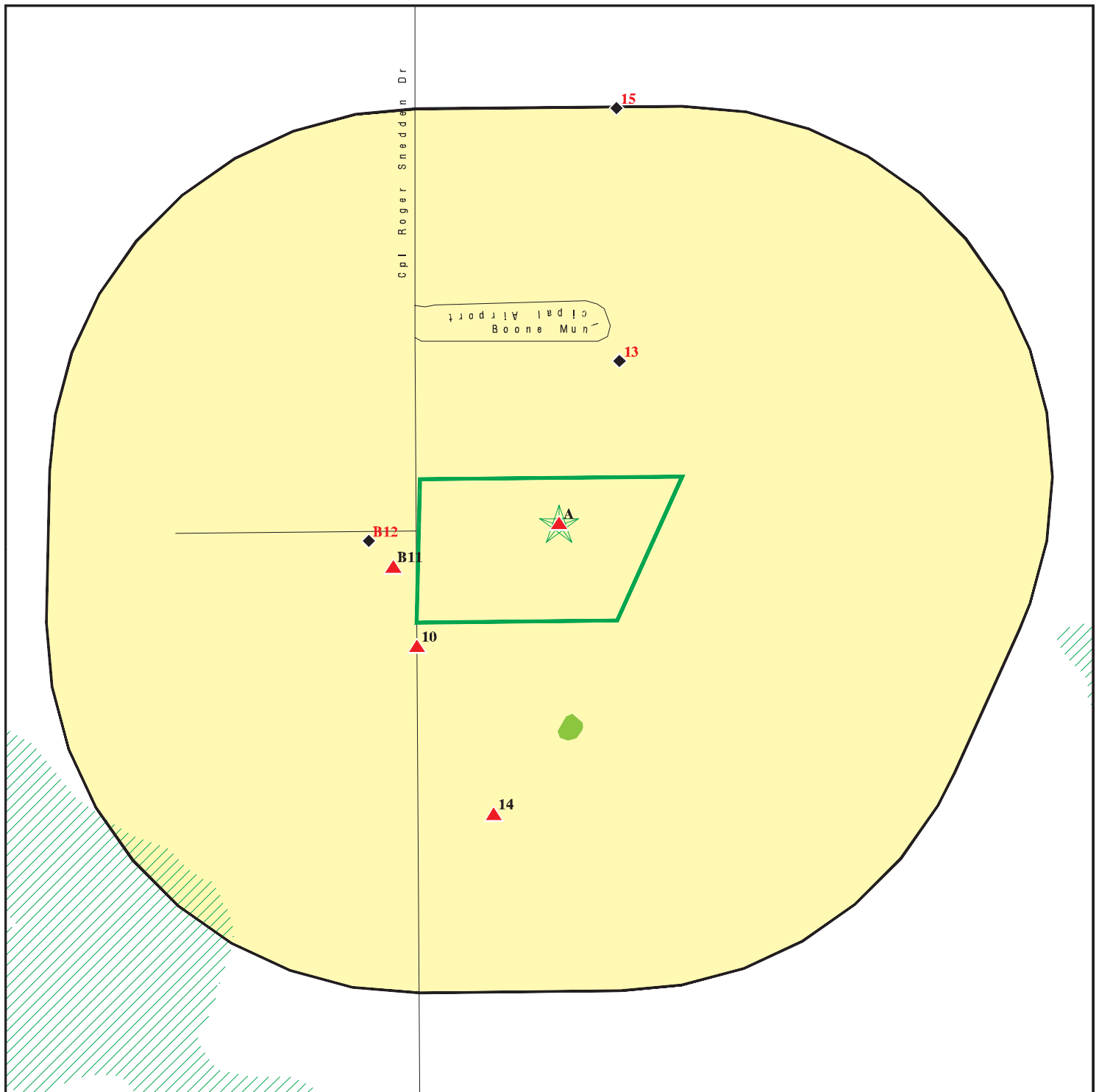


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Boone AASF  
 ADDRESS: 700 Corporal Snedden Drive  
 Boone IA 50036  
 LAT/LONG: 42.050236 / 93.852445

CLIENT: AECOM  
 CONTACT: Brittany Kirchmann  
 INQUIRY #: 5454361.2s  
 DATE: October 16, 2018 8:56 am

# DETAIL MAP - 5454361.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Boone AASF  
 ADDRESS: 700 Corporal Snedden Drive  
 Boone IA 50036  
 LAT/LONG: 42.050236 / 93.852445

CLIENT: AECOM  
 CONTACT: Brittany Kirchmann  
 INQUIRY #: 5454361.2s  
 DATE: October 16, 2018 8:58 am

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	1	NR	1
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250	1	1	0	NR	NR	NR	2
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent CERCLIS</i></b>								
IA SHWS	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
IA SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>State and tribal leaking storage tank lists</i></b>								
IA LUST	0.500	1	2	0	1	NR	NR	4
IA LAST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>State and tribal registered storage tank lists</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
IA UST	0.250	1	2	2	NR	NR	NR	5
IA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal institutional control / engineering control registries</b>								
IA INST CONTROL	0.500		0	0	0	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
IA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
IA BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
IA ALLSITES	0.500		0	0	0	NR	NR	0
IA DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
<b>Local Land Records</b>								
IA LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
IA SPILLS	TP		NR	NR	NR	NR	NR	0
IA SPILLS 90	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		1	0	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP	1	NR	NR	NR	NR	NR	1
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP	1	NR	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
ECHO	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
IA AIRS	TP	1	NR	NR	NR	NR	NR	1
IA COAL ASH	0.500		0	0	0	NR	NR	0
IA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
IA Financial Assurance	TP	1	NR	NR	NR	NR	NR	1
WI MANIFEST	0.250	1	0	0	NR	NR	NR	1
IA NPDES	TP	2	NR	NR	NR	NR	NR	2
IA TIER 2	TP	2	NR	NR	NR	NR	NR	2

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

IA RGA HWS	TP		NR	NR	NR	NR	NR	0
------------	----	--	----	----	----	----	----	---

## MAP FINDINGS SUMMARY

<u>Database</u>	<u>Search Distance (Miles)</u>	<u>Target Property</u>	<u>&lt; 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>&gt; 1</u>	<u>Total Plotted</u>
IA RGA LUST	TP	1	NR	NR	NR	NR	NR	1
- Totals --		15	6	2	1	1	0	25

### NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A1**  
**Target**  
**Property**  
**IOWA ARMY NATIONAL GUARD-OMS 10/AASF 1**  
**700 SNEDDEN DR**  
**BOONE, IA 50036**

**FINDS**  
**ECHO**  
**1016085221**  
**N/A**

**Actual:**  
**1140 ft.**

[Click here for full text details](#)

**FINDS**

Registry ID: 110005755922

**ECHO**

Registry ID: 110005755922

**A2**  
**Target**  
**Property**  
**IOWA ARMY NATIONAL GUARD - FMS 10/AASF 1**  
**700 SNEDDEN DR**  
**BOONE, IA 50036**

**RCRA-SQG**  
**WI MANIFEST**  
**1000152719**  
**IAD981503675**

**Actual:**  
**1140 ft.**

[Click here for full text details](#)

**RCRA-SQG**

EPA Id: IAD981503675

**WI MANIFEST**

ACT Status: A

FID: 0

EPA ID: IAD981503675

**A3**  
**Target**  
**Property**  
**IOWA ARMY NATIONAL GUARD - BOONE**  
**AASF 1, 700 SNEDDEN DR**  
**BOONE, IA 50036**

**IA AIRS**  
**S108941263**  
**N/A**

**Actual:**  
**1140 ft.**

[Click here for full text details](#)

**IA AIRS**

Facility Id: 08-01-030

Status: MINOR EI

**A4**  
**Target**  
**Property**  
**OMS #10/AASF1**  
**700 SNEDDEN DR**  
**BOONE, IA**

**IA RGA LUST**  
**S116264386**  
**N/A**

**Actual:**  
**1140 ft.**

[Click here for full text details](#)

**IA RGA LUST**

Facility ID: 2723

Facility ID: 2724

Facility ID: 198605891

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

A5  
Target  
Property  
FMS10/AAS1  
700 SNEDDEN DR  
BOONE, IA 50036

IA LUST  
IA UST  
IA Financial Assurance  
IA TIER 2  
U003170240  
N/A

Actual:  
1140 ft.

[Click here for full text details](#)

IA LUST

Leak Status: Continuing  
Leak Status: Stopped  
Facility Id: 2723  
Facility Id: 2724

IA UST

Registration: 198605891  
Facility Id: 6225

IA Financial Assurance

Facility Id: 198605891

IA TIER 2

Facility Id: 866  
Facility Id: FAIDSIT2A00000866

A6  
Target  
Property  
ARMY AVIATION SUPPORT FACILITY #1  
700 SNEDDEN DR.  
BOONE, IA 50036

IA NPDES  
S122561881  
N/A

Actual:  
1140 ft.

[Click here for full text details](#)

A7  
Target  
Property  
IOWA ARMY NATIONAL GUARD - BOONE  
700 SNEDDEN DR  
BOONE, IA 50036

ICIS  
US AIRS  
1016935614  
N/A

Actual:  
1140 ft.

[Click here for full text details](#)

ICIS

FRS ID:: 110005755922

A8  
Target  
Property  
IOWA ARMY NATIONAL GUARD - ARMORY ADDITION  
700 SNEDDEN DRIVE  
BOONE, IA 50036

IA NPDES  
S122563172  
N/A

Actual:  
1140 ft.

[Click here for full text details](#)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**A9**  
**Target**  
**Property**  
**FMS #10, AASF #1**  
**700 SNEDDEN DR. ROAD**  
**BOONE, IA 50703**

**IA TIER 2**  
**S109946692**  
**N/A**

**Actual:**  
**1140 ft.**

[Click here for full text details](#)

**IA TIER 2**  
Facility Id: FAIDSIT2A00000866  
State Id: IA

**10**  
**SW**  
**< 1/8**  
**0.016 mi.**  
**83 ft.**  
**MIDLAND BIOPRODUCTS CORP**  
**800 SNEDDEN DR**  
**BOONE, IA 50036**

**RCRA NonGen / NLR**  
**1000906822**  
**IA0000464230**

**Relative:**  
**Higher**

[Click here for full text details](#)

**RCRA NonGen / NLR**  
EPA Id: IA0000464230

**B11**  
**WSW**  
**< 1/8**  
**0.016 mi.**  
**87 ft.**  
**IOWA DEPT OF TRANSPORTATION**  
**400 AIRPORT RD**  
**BOONE, IA 50036**

**RCRA-SQG**  
**FINDS**  
**ECHO**  
**1000142256**  
**IA0981500242**

**Relative:**  
**Higher**

[Click here for full text details](#)

**RCRA-SQG**  
EPA Id: IAD981500242

**FINDS**  
Registry ID:: 110005753988

**ECHO**  
Registry ID: 110005753988

**B12**  
**West**  
**< 1/8**  
**0.034 mi.**  
**177 ft.**  
**IDOT MAINT SHED**  
**301 CORPORAL RODGER SNEDDEN**  
**BOONE, IA 50036**

**IA LUST**  
**IA UST**  
**IA Financial Assurance**  
**U004134404**  
**N/A**

**Relative:**  
**Lower**

[Click here for full text details](#)

**IA LUST**  
Leak Status: Stopped  
Facility Id: 4345

**IA UST**  
Registration: 198609348  
Facility Id: 9462

**IA Financial Assurance**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDOT MAINT SHED (Continued)**

**U004134404**

Facility Id: 198609348

13  
NNE  
< 1/8  
0.079 mi.  
415 ft.

**BOONE MUNICIPAL AIRPORT**  
**424 CORPORAL ROGER SNEDDEN DR**  
**BOONE, IA 50036**

**IA LUST 1011286967**  
**IA UST N/A**  
**FINDS**

**IA Financial Assurance**

[Click here for full text details](#)

Relative:  
Lower

**IA LUST**

Leak Status: Unknown  
Facility Id: 908

**IA UST**

Registration: 198601365  
Facility Id: 1918

**FINDS**

Registry ID:: 110036188176

**IA Financial Assurance**

Facility Id: 198601365

14  
SSW  
1/8-1/4  
0.130 mi.  
684 ft.

**OMS #10**  
**OMS #10 CPL SNEDDEN DR**  
**BOONE, IA 50036**

**IA UST U003634982**  
**N/A**

[Click here for full text details](#)

Relative:  
Higher

**IA UST**

Registration: 198605892  
Facility Id: 6226

15  
North  
1/8-1/4  
0.249 mi.  
1316 ft.

**CHEKER UNIT #7878**  
**RR 1 BOX 514**  
**BOONE, IA 50036**

**IA UST U003635963**  
**N/A**

[Click here for full text details](#)

Relative:  
Lower

**IA UST**

Registration: 198609174  
Facility Id: 9295

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

16  
NNW  
1/4-1/2  
0.469 mi.  
2475 ft.

MADDEN LTD  
2232 EAST 4TH  
BOONE, IA 50036

IA LUST  
IA UST

U003126686  
N/A

Relative:  
Higher

[Click here for full text details](#)

IA LUST

Leak Status: Stopped  
Facility Id: 5911

IA UST

Registration: 199117234  
Facility Id: 16813

17  
NNW  
1/2-1  
0.966 mi.  
5099 ft.

GATES RUBBER COMPANY  
2121 INDUSTRIAL PARK RD  
BOONE, IA 50036

CORRACTS  
RCRA-CESQG  
US ENG CONTROLS  
US INST CONTROL  
IA ALLSITES  
US FIN ASSUR  
2020 COR ACTION  
FTTS  
HIST FTTS  
IA AIRS  
WI MANIFEST

1000221474  
IAD085372506

Relative:  
Higher

[Click here for full text details](#)

CORRACTS

EPA ID:: IAD085372506

RCRA-CESQG

EPA Id: IAD085372506

US ENG CONTROLS

EPA ID:: IAD085372506  
EPA ID:: IAD085372506

US INST CONTROL

EPA ID:: IAD085372506

IA ALLSITES

Site Id Number: 667  
Status: Closed

US FIN ASSUR

EPA ID: IAD085372506

2020 COR ACTION

EPA ID:: IAD085372506

IA AIRS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**GATES RUBBER COMPANY (Continued)**

**1000221474**

Facility Id: 08-01-015

**WI MANIFEST**

ACT Status: A

FID: 0

EPA ID: IAD085372506

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
IA	AIRS	Minor and Title V Sources Listing	Department of Natural Resources	06/26/2018	07/31/2018	08/24/2018
IA	ALLSITES	Contaminated Sites Tracking Database	Department of Natural Resources	07/16/2018	07/18/2018	08/23/2018
IA	AST	Aboveground Storage Tank Sites	Department of Public Safety	07/31/2018	08/02/2018	08/24/2018
IA	BROWNFIELDS	Brownfields Site Listing	Department of Natural Resources	07/16/2018	07/18/2018	08/23/2018
IA	COAL ASH	Coal Ash Disposal Site Listing	Department of Natural Resources	09/04/2018	09/05/2018	10/02/2018
IA	DEL SHWS	Delisted Contaminated Sites Listing	Department of Natural Resources	12/31/2017	01/24/2018	02/23/2018
IA	DRYCLEANERS	Iowa Drycleaner List	Department of Natural Resources	07/06/2018	07/27/2018	08/24/2018
IA	Financial Assurance 1	Financial Assurance Information Listing	Department of Natural Resources	08/30/2018	09/07/2018	10/02/2018
IA	Financial Assurance 2	Financial Assurance Information Listing	Department of Natural Resources	08/29/2018	08/30/2018	10/02/2018
IA	INST CONTROL	Sites with Institutional Controls	Department of Natural Resources	07/16/2018	07/18/2018	08/24/2018
IA	LAST	Leaking Aboveground Storage Tank Sites	Department of Natural Resources	07/16/2018	07/18/2018	08/24/2018
IA	LIENS	Liens Filed Listing	Department of Natural Resources	07/05/2018	07/24/2018	08/24/2018
IA	LUST	Leaking Underground Storage Tank Data	Department of Natural Resources	08/30/2018	09/07/2018	10/02/2018
IA	NPDES	List of NPDES Permittees	Department of Natural Resources	08/08/2018	08/10/2018	08/24/2018
IA	RGA HWS	Recovered Government Archive State Hazardous Waste Facilitie	Department of Natural Resources		07/01/2013	01/03/2014
IA	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Natural Resources		07/01/2013	12/26/2013
IA	SHWS	Registry of Hazardous Waste or Hazardous Substance Disposal	Department of Natural Resources	12/31/2017	01/24/2018	02/23/2018
IA	SPILLS	Spills Database	Department of Natural Resources	09/04/2018	09/06/2018	10/02/2018
IA	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	10/17/2012	01/03/2013	03/05/2013
IA	SWF/LF	Permitted Solid Waste Management Facilities	Department of Natural Resources	09/04/2018	09/05/2018	10/02/2018
IA	TIER 2	Tier 2 Information Listing	Department of Natural Resources	12/31/2017	09/18/2018	10/02/2018
IA	UST	Underground Storage Tank Data	Department of Natural Resources	08/30/2018	09/07/2018	10/02/2018
IA	VCP	Land Recycling Program Sites	Department of Natural Resources	07/16/2018	07/18/2018	08/23/2018
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	09/10/2018	09/11/2018	09/14/2018
US	BRS	Biennial Reporting System	EPANTIS	12/31/2015	02/22/2017	09/28/2017
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2005	08/07/2009	10/22/2009
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	07/01/2014	09/10/2014	10/20/2014
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	06/30/2018	07/17/2018	10/05/2018
US	CORRACTS	Corrective Action Report	EPA	03/01/2018	03/28/2018	06/22/2018
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/31/2018	07/26/2018	10/05/2018
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	DOT OPS	Incident and Accident Data	Department of Transportation, Office of Pipeli	07/31/2012	08/07/2012	09/18/2012
US	Delisted NPL	National Priority List Deletions	EPA	07/17/2018	08/09/2018	09/07/2018
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	09/02/2018	09/05/2018	09/14/2018
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	06/18/2018	06/27/2018	09/14/2018
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	11/07/2016	01/05/2017	04/07/2017
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FEMA UST	Underground Storage Tank Listing	FEMA	05/15/2017	05/30/2017	10/13/2017
US	FINDS	Facility Index System/Facility Registry System	EPA	08/07/2018	09/05/2018	10/05/2018
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl Date	Active Date
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	01/31/2015	07/08/2015	10/13/2015
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	08/22/2018	08/22/2018	10/05/2018
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	08/08/2017	09/11/2018	09/14/2018
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	03/26/2018	03/27/2018	06/08/2018
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	04/13/2018	05/18/2018	07/20/2018
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	04/12/2018	05/18/2018	07/20/2018
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	05/08/2018	05/18/2018	07/20/2018
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	04/12/2018	05/18/2018	07/20/2018
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	04/01/2018	05/18/2018	07/20/2018
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	04/24/2018	05/18/2018	07/20/2018
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	04/25/2018	05/18/2018	07/20/2018
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	04/10/2018	05/18/2018	07/20/2018
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	04/13/2018	05/18/2018	07/20/2018
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	04/12/2018	05/18/2018	07/20/2018
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	05/08/2018	05/18/2018	07/20/2018
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	04/12/2018	05/18/2018	07/20/2018
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	04/01/2018	05/18/2018	07/20/2018
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	04/24/2018	05/18/2018	07/20/2018
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	04/25/2018	05/18/2018	07/20/2018
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	04/10/2018	05/18/2018	07/20/2018
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	07/17/2018	08/09/2018	10/05/2018
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	07/17/2018	08/09/2018	10/05/2018
US	LUCIS	Land Use Control Information System	Department of the Navy	05/14/2018	05/18/2018	07/20/2018
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	08/30/2016	09/08/2016	10/21/2016
US	NPL	National Priority List	EPA	07/17/2018	08/09/2018	09/07/2018
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	06/01/2017	06/09/2017	10/13/2017
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	05/24/2017	11/30/2017	12/15/2017
US	PRP	Potentially Responsible Parties	EPA	10/25/2013	10/17/2014	10/20/2014
US	Proposed NPL	Proposed National Priority List Sites	EPA	07/17/2018	08/09/2018	09/07/2018
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	07/02/2018	07/05/2018	10/05/2018
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl Date	Active Date
US	RMP	Risk Management Plans	Environmental Protection Agency	08/01/2018	08/22/2018	10/05/2018
US	ROD	Records Of Decision	EPA	07/17/2018	08/09/2018	10/05/2018
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	SEMS	Superfund Enterprise Management System	EPA	07/17/2018	08/09/2018	09/07/2018
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	07/17/2018	08/09/2018	09/07/2018
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2016	01/10/2018	01/12/2018
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/21/2017	01/05/2018
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	06/23/2017	10/11/2017	11/03/2017
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	06/18/2018	06/20/2018	09/14/2018
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	05/18/2018	06/20/2018	09/14/2018
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	07/31/2018	08/28/2018	09/14/2018
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	05/31/2018	06/27/2018	10/05/2018
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	05/18/2018	06/20/2018	09/14/2018
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	07/31/2018	08/28/2018	09/14/2018
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	08/01/2018	08/29/2018	10/05/2018
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	12/05/2005	02/29/2008	04/18/2008
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	09/30/2017	06/19/2018	09/14/2018
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	08/10/2018	08/10/2018	09/10/2018
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2017	07/13/2018	08/01/2018
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	07/01/2018	08/01/2018	08/31/2018
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2017	02/23/2018	04/09/2018
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	12/31/2017	06/15/2018	07/09/2018
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
IA	Daycare Centers	Sensitive Receptor: Child Care Facilities	Department of Human Services			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
IA	State Wetlands	National Wetland Inventory of Iowa	Department of Natural Resources			
US	Topographic Map		U.S. Geological Survey			
US	Oil/Gas Pipelines		PennWell Corporation			
US	Electric Power Transmission Line Data		PennWell Corporation			

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
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### STREET AND ADDRESS INFORMATION

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## **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

BOONE AASF  
700 CORPORAL SNEDDEN DRIVE  
BOONE, IA 50036

### **TARGET PROPERTY COORDINATES**

Latitude (North):	42.050236 - 42° 3' 0.85"
Longitude (West):	93.852445 - 93° 51' 8.80"
Universal Transverse Mercator:	Zone 15
UTM X (Meters):	429455.9
UTM Y (Meters):	4655492.0
Elevation:	1140 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map:	5942960 BOONE EAST, IA
Version Date:	2013
West Map:	5945179 BOONE WEST, IA
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

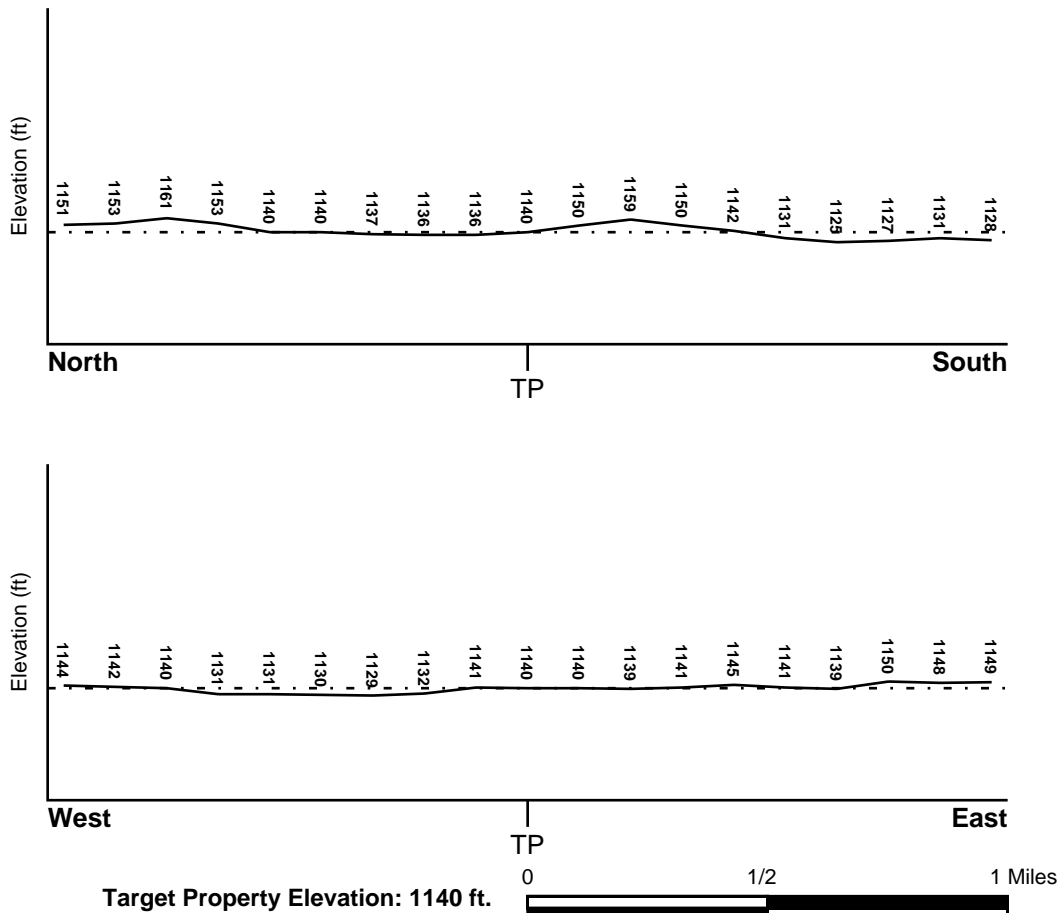
### TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNW

### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

### **FEMA FLOOD ZONE**

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
19015C0215C	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
19015C0205C	FEMA FIRM Flood data

### **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
BOONE EAST	YES - refer to the Overview Map and Detail Map

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u>	<u>GENERAL DIRECTION</u>
Not Reported	<u>FROM TP</u>	<u>GROUNDWATER FLOW</u>

## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

Era: Paleozoic  
System: Pennsylvanian  
Series: Des Moines Series  
Code: PP2 *(decoded above as Era, System & Series)*

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### **DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: CANISTEO

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	13 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Organic Clay or Organic Silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40
2	13 inches	24 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40
3	24 inches	31 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40
4	31 inches	60 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loam  
muck  
clay loam

Surficial Soil Types: loam  
muck  
clay loam

Shallow Soil Types: silty clay loam  
loam

Deeper Soil Types: loam  
stratified  
silty clay loam  
silt loam

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

### FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

### STATE DATABASE WELL INFORMATION

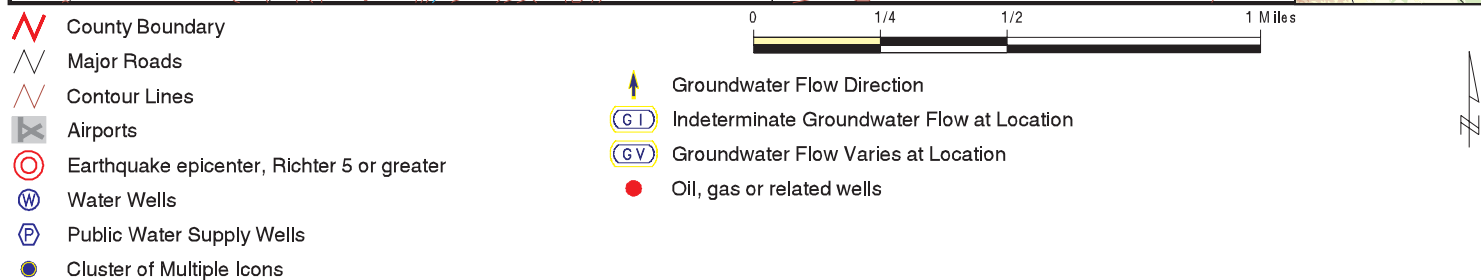
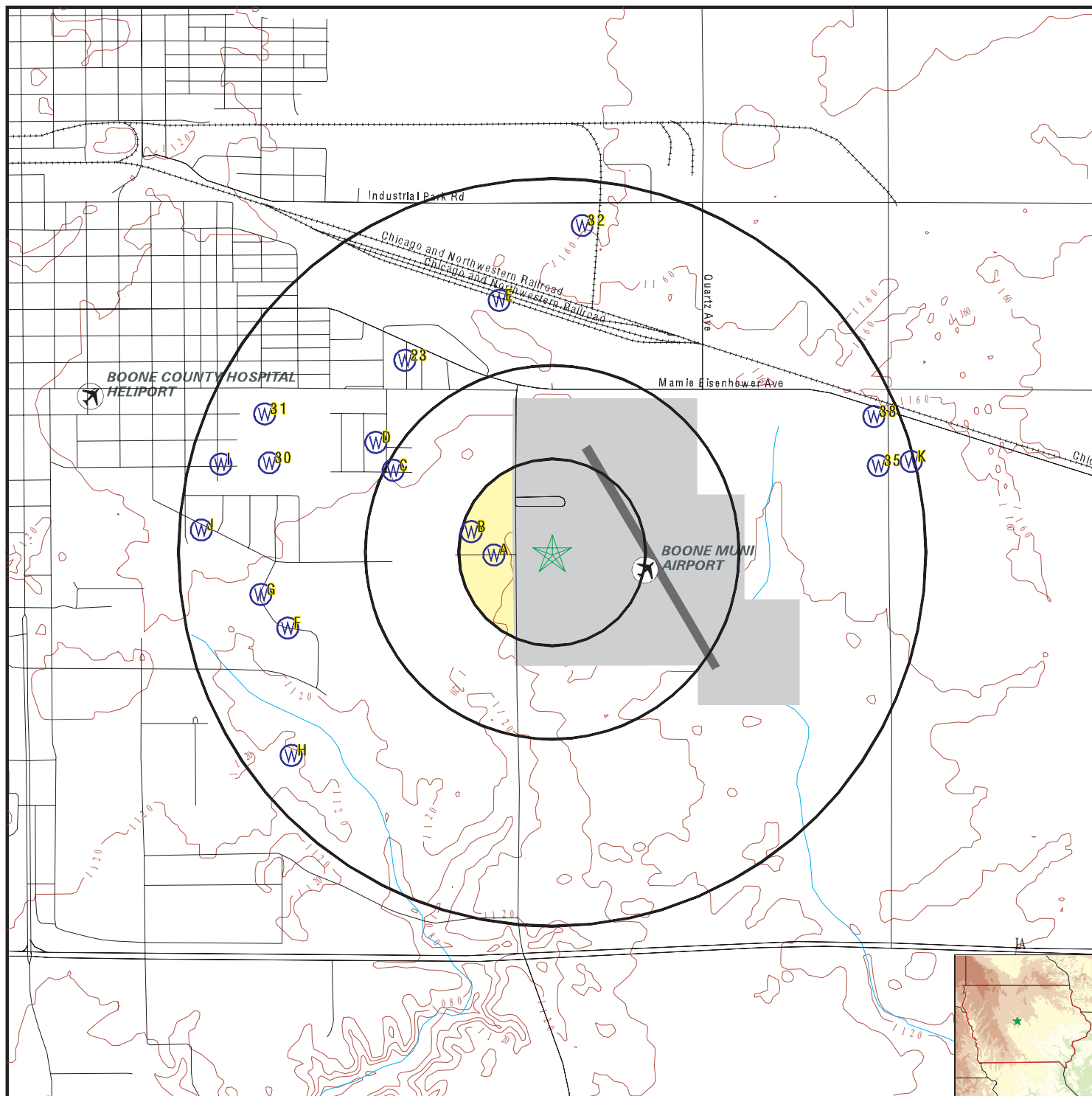
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	IAPU40000312434	1/8 - 1/4 Mile West
A2	IAPU40000312427	1/8 - 1/4 Mile West
A3	IAPU40000312426	1/8 - 1/4 Mile West
A4	IAPU40000312433	1/8 - 1/4 Mile West
A5	IAPU40000312432	1/8 - 1/4 Mile West
A6	IAPU40000312431	1/8 - 1/4 Mile West
A7	IAPU40000312428	1/8 - 1/4 Mile West
A8	IAPU40000312425	1/8 - 1/4 Mile West
A9	IAPU40000312421	1/8 - 1/4 Mile West
A10	IAPU40000312430	1/8 - 1/4 Mile West
A11	IAPU40000312423	1/8 - 1/4 Mile West
A12	IAPU40000312429	1/8 - 1/4 Mile West
A13	IAPU40000312420	1/8 - 1/4 Mile West
A14	IAPU40000312419	1/8 - 1/4 Mile West
A15	IAPU40000312424	1/8 - 1/4 Mile West
A16	IAPU40000312422	1/8 - 1/4 Mile West
B17	IAPU40000312400	1/8 - 1/4 Mile WNW
B18	IAPU40000312397	1/8 - 1/4 Mile WNW
C19	IAPU40000114004	1/4 - 1/2 Mile WNW
C20	IAPW40000055292	1/4 - 1/2 Mile WNW

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
D21	IAPW40000089688	1/2 - 1 Mile WNW
D22	IAPU40000113951	1/2 - 1 Mile WNW
23	IAPU40000113910	1/2 - 1 Mile NW
E24	IAPW40000022608	1/2 - 1 Mile NNW
E25	IAPU40000113980	1/2 - 1 Mile NNW
F26	IAPU40000114009	1/2 - 1 Mile WSW
F27	IAPW40000009585	1/2 - 1 Mile WSW
G28	IAPU40000113941	1/2 - 1 Mile West
G29	IAPW40000043895	1/2 - 1 Mile West
30	IAPU40000113844	1/2 - 1 Mile WNW
31	IAPW40000036504	1/2 - 1 Mile WNW
32	IAPU40000312337	1/2 - 1 Mile North
H33	IAPU40000114141	1/2 - 1 Mile SW
H34	IAPW40000096109	1/2 - 1 Mile SW
35	IAPU40000114658	1/2 - 1 Mile ENE
I36	IAPU40000113799	1/2 - 1 Mile WNW
I37	IAPW40000088603	1/2 - 1 Mile WNW
38	IAPW40000039660	1/2 - 1 Mile ENE
J39	IAPU40000113827	1/2 - 1 Mile West
J40	IAPW40000015961	1/2 - 1 Mile West
K41	IAPU40000312603	1/2 - 1 Mile ENE
K42	IAPU40000312604	1/2 - 1 Mile ENE

# PHYSICAL SETTING SOURCE MAP - 5454361.2s



SITE NAME: Boone AASF  
 ADDRESS: 700 Corporal Snedden Drive  
 Boone IA 50036  
 LAT/LONG: 42.050236 / 93.852445

CLIENT: AECOM  
 CONTACT: Brittany Kirchmann  
 INQUIRY #: 5454361.2s  
 DATE: October 16, 2018 8:58 am

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database

EDR ID Number

A1  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312434

A2  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312427

A3  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312426

A4  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312433

A5  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312432

A6  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312431

A7  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312428

A8  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312425

A9  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312421

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database

EDR ID Number

A10  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312430

A11  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312423

A12  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312429

A13  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312420

A14  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312419

A15  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312424

A16  
West [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312422

B17  
WNW [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312400

B18  
WNW [Click here for full text details](#)  
1/8 - 1/4 Mile  
Lower

IA WELLS

IAPU40000312397

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database

EDR ID Number

C19  
WNW  
1/4 - 1/2 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPU40000114004

C20  
WNW  
1/4 - 1/2 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPW40000055292

D21  
WNW  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPW40000089688

D22  
WNW  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPU40000113951

23  
NW  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPU40000113910

E24  
NNW  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPW40000022608

E25  
NNW  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPU40000113980

F26  
WSW  
1/2 - 1 Mile  
Lower

[Click here for full text details](#)

IA WELLS

IAPU40000114009

F27  
WSW  
1/2 - 1 Mile  
Lower

[Click here for full text details](#)

IA WELLS

IAPW40000009585

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database

EDR ID Number

G28  
West  
1/2 - 1 Mile  
Lower

[Click here for full text details](#)

IA WELLS

IAPU40000113941

G29  
West  
1/2 - 1 Mile  
Lower

[Click here for full text details](#)

IA WELLS

IAPW40000043895

30  
WNW  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPU40000113844

31  
WNW  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPW40000036504

32  
North  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPU40000312337

H33  
SW  
1/2 - 1 Mile  
Lower

[Click here for full text details](#)

IA WELLS

IAPU40000114141

H34  
SW  
1/2 - 1 Mile  
Lower

[Click here for full text details](#)

IA WELLS

IAPW40000096109

35  
ENE  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPU40000114658

I36  
WNW  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPU40000113799

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database

EDR ID Number

I37  
WNW  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPW40000088603

38  
ENE  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPW40000039660

J39  
West  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPU40000113827

J40  
West  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPW40000015961

K41  
ENE  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPU40000312603

K42  
ENE  
1/2 - 1 Mile  
Higher

[Click here for full text details](#)

IA WELLS

IAPU40000312604

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

### AREA RADON INFORMATION

State Database: IA Radon

#### Radon Test Results

Zipcode	Num Tests	Minimum	Maximum	Average
50036	45	0.5	42.7	5.8

Federal EPA Radon Zone for BOONE County: 1

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for Zip Code: 50036

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	10.225 pCi/L	0%	100%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: National Wetland Inventory of Iowa

Source: Department of Natural Resources

Telephone: 319-335-1575

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### All Known Water Wells in the State of Iowa

Source: Department of Natural Resources

Telephone: 319-335-1353

Well types included are agricultural drainage, permitted private, public, registered abandoned, SDWIS public, water use permit sites, wells registered for testing.

#### Agricultural Drainage Wells

Source: Department of Natural Resources

Telephone: 515-281-5029

Agricultural drainage wells are required to be registered both with the Iowa Department of Natural Resources as a part of the 1987 Groundwater Protection Act, and with the U.S. Environmental Protection Agency as a part of the Underground Injection Control Program.

#### Private Well Tracking System Wells

Source: Department of Natural Resources

Telephone: 319-335-1353

#### Water Use Permits

Source: Department of Natural Resources

Telephone: 515-725-0336

Wells under Water Use permits. A water use permit is required of any person or entity that withdraws or diverts at least 25,000 gallons of water in a 24-hour period during any calendar year.

#### Private Wells Tested

Source: Department of Natural Resources

Telephone: 515-335-1353

This is a point coverage for private wells which have been tested for bacteria and nitrate contamination under the Grants to Counties program.

## OTHER STATE DATABASE INFORMATION

#### Oil and Gas Well Database

Source: Department of Natural Resources

Oil and gas well locations.

### RADON

#### State Database: IA Radon

Source: Department of Public Health

Telephone: 515-281-4340

Radon Test Results

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

### **STREET AND ADDRESS INFORMATION**

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## **Appendix B**

# **Preliminary Assessment Documentation**

## **Appendix B.1**

### **Interview Records**

# PA Interview Questionnaire - Other

Facility: Boone AASF

Interviewer: [REDACTED]

Date/Time: 8/22/2018; 08:30

<p><b>Interviewee: Chief Warrant Officer</b> [REDACTED]  <b>and Staff Sergeant</b> [REDACTED]  <b>Title: Chief Warrant Officer</b>  <b>Phone Number: contact through</b> [REDACTED]  <b>Email: contact through</b> [REDACTED]</p>	<p>Can your name/role be used in the PA Report? <u>Y</u> or N          Can you recommend anyone we can interview?          Y or N [REDACTED] (retired), [REDACTED]          [REDACTED] (deployed), [REDACTED] (deployed)</p>															
<p><b>Roles or activities with the Facility/Years working at the Facility:</b></p>																
<p>[REDACTED] and [REDACTED] are the acting safety officer and fire marshal at the Boone AASF while staff are deployed. [REDACTED] has been with IAARNG for approximately 20 years and at the Boone AASF since 2003. [REDACTED] has been with the IAARNG and the Boone AASF since 1998.</p> <p>The Boone AASF was originally federal property which was transferred to the state approximately 10-15 years ago. However, the AASF has been under IAARNG control for 50-60 years. The Boone AASF and the surrounding area are on City of Boone water.</p>																
<p><b>PFAS Use:</b> Identify accidental/intentional release locations, time frame of release, frequency of releases, storage container size (maintenance, fire training, firefighting, buildings with suppression systems (as builds), fueling stations, crash sites, pest management, recreational, dining facilities, metals plating, or waterproofing). How are materials ordered/purchased/disposed/shared with others?</p>																
<p>The Boone AASF has two TriMax 3 gallon fire extinguishers, five TriMax 30 fire extinguishers, and one TriMax 60 fire extinguisher. Training with AFFF is completed when the foam is expiring and when the fire extinguishers are due for hydrostatic testing (every 5 years). The fire extinguishers are required to be emptied before shipping to Minnesota for testing. Training is conducted at the wash rack at the northern end of the facility. The wash rack has an oil-water separator and a diversion valve for sanitary sewer and storm drain. When the fire extinguishers return from hydrostatic testing, they are filled inside the facility or on the ramp by IAARNG with AFFF (3% and 6% are both present at the facility). Spills are cleaned up with rags. No floor drains are present in the room where fire extinguishers were filled. In addition, fire extinguisher training has been conducted on a barrel fire near the wash rack on multiple occasions. The training may have been conducted using dish soap or AFFF. The dish soap or foam was rinsed into the storm drains. The storm drains run to the north and then east. Firefighting services for the facility have been provided by the City of Boone for the last 20 years or so. Prior to firefighting services being provided by the City of Boone, the Boone AASF had a fire truck at the facility. No information was available regarding the truck or its use. This information can be provided by [REDACTED] (retired). No fire suppression system is present in the hangar and no emergency response events have occurred at the Boone AASF. The Boone AASF has been in its current location since the 1990s. The former AASF was established in the 1960s (location noted on map). Some industry is in the area (Thermomass, Midland Bioproducts, and Boone Municipal Airport). The Boone Municipal Airport has a couple of hangars of privately owned</p>	<table border="1"> <tr> <th>Known Uses</th> </tr> <tr><td>Use</td></tr> <tr><td>Procurement</td></tr> <tr><td>Disposition</td></tr> <tr><td>Storage (Mixed)</td></tr> <tr><td>Storage (Solution)</td></tr> <tr><td>Inventory, Off-Spec</td></tr> <tr><td>Containment</td></tr> <tr><td>SOP on Filling</td></tr> <tr><td>Leaking Vehicles</td></tr> <tr><td>Nozzle and Suppression System Testing</td></tr> <tr><td>Dining Facilities</td></tr> <tr><td>Vehicle Washing</td></tr> <tr><td>Ramp Washing</td></tr> <tr><td>Fuel Spill Washing and Fueling Stations</td></tr> </table>	Known Uses	Use	Procurement	Disposition	Storage (Mixed)	Storage (Solution)	Inventory, Off-Spec	Containment	SOP on Filling	Leaking Vehicles	Nozzle and Suppression System Testing	Dining Facilities	Vehicle Washing	Ramp Washing	Fuel Spill Washing and Fueling Stations
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**PA Interview Questionnaire - Other**

**Facility: Boone AASF**

**Interviewer:** [REDACTED]

**Date/Time: 8/22/2018; 08:30**

planes and a couple of buildings where planes are built. The Boone Municipal Airport has no AFFF fire suppression. Boone Middle School is located approximately  $\frac{3}{4}$  mile to the northwest of the AASF.

Chrome Plating or  
Waterproofing

## **Appendix B.2**

### **Visual Site Inspection Checklists**

## Visual Site Inspection Checklist

Names(s) of people performing VSI: \_\_\_\_\_

Recorded by: \_\_\_\_\_

ARNG Contact: \_\_\_\_\_

Date and Time: 8/22/2018; 8:30

Method of visit (walking, driving, adjacent): walking

### ***Source/Release Information***

**Site Name / Area Name / Unique ID:**

Boone Army Aviation Support Facility (AASF)

**Site / Area Acreage:**

20 acres

**Historic Site Use (Brief Description):**

Boone AASF was dedicated in the 1990s and is located on State of Iowa property. The former AASF was built in the 1960s and was located south of the current Boone AASF.

**Current Site Use (Brief Description):**

Boone AASF site operations.

**Physical barriers or access restrictions:**

Access to the area is restricted to AASF personnel.

1. Was PFAS used (or spilled) at the site/area?

**Y / N**

1a. If yes, document how PFAS was used and usage time (e.g., fire fighting training 2001 to 2014):

Potential PFAS release events have occurred approximately every five years since when all of the TriMax aqueous film forming foam (AFFF) fire extinguishers are emptied and turned in for hydrostatic testing. The emptying of the fire extinguishers has historically occurred at the wash rack on the ramp.

2. Has usage been documented?

**Y / N**

2a. If yes, keep a record (place electronic files on a disk):

Records are not available. Potential releases were recalled by Chief Warrant Officer Joe Price and Staff Sergeant Andrew Evans.

3. What types of businesses are located near the site?

**Industrial / Commercial / Plating / Waterproofing / Residential**

3a. Indicate what businesses are located near the site

Boone Municipal Airport to the north and east; Boone Middle School to the northwest; Thermomass and Midland Bioproducts (Nittobo America Incorporated) to the south, Iowa Department of Transportation maintenance garage to the west

4. Is this site located at an airport/flightline?

**Y / N**

4a. If yes, provide a description of the airport/flightline tenants:

Boone Municipal Airport

## Visual Site Inspection Checklist

### Other Significant Site Features:

1. Does the facility have a fire suppression system?

Y / N

1a. If yes, indicate which type of AFFF has been used:

N/A

1b. If yes, describe maintenance schedule/leaks:

N/A

1c. If yes, how often is the AFFF replaced:

N/A

1d. If yes, does the facility have floor drains and where do they lead? Can we obtain an as built drawing?

N/A

### ***Transport / Pathway Information***

#### Migration Potential:

1. Does site/area drainage flow off installation?

Y / N

1a. If so, note observation and location:

site surface water drainage flows to the north off the facility then to the east in drainage ditch

2. Is there channelized flow within the site/area?

Y / N

2a. If so, please note observation and location:

3. Are monitoring or drinking water wells located near the site?

Y / N

3a. If so, please note the location:

Private/unknown wells located within 2000 feet of the facility

4. Are surface water intakes located near the site?

Y / N

4a. If so, please note the location:

5. Can wind dispersion information be obtained?

Y / N

5a. If so, please note and observe the location.

Boone Municipal Airport

6. Does an adjacent non-ARNG PFAS source exist?

Y / N

6a. If so, please note the source and location.

N/A

6b. Will off-site reconnaissance be conducted?

Y / N

## Visual Site Inspection Checklist

### **Significant Topographical Features:**

1. Has the infrastructure changed at the site/area?

**Y / N**

1a. If so, please describe change (ex. Structures no longer exist):

2. Is the site/area vegetated?

**Y / N**

2a. If not vegetated, briefly describe the site/area composition:  
vegetated except for ramp and parking areas

3. Does the site or area exhibit evidence of erosion?

**Y / N**

3a. If yes, describe the location and extent of the erosion:

4. Does the site/area exhibit any areas of ponding or standing water?

**Y / N**

4a. If yes, describe the location and extent of the ponding:

### ***Receptor Information***

1. Is access to the site restricted?

**Y / N**

1a. If so, please note to what extent:  
The facility has controlled access

2. Who can access the site?

**Site Workers / Construction Workers / Trespassers / Residential / Recreational  
Users / Ecological**

2a. Circle all that apply, note any not covered above:

3. Are residential areas located near the site?

**Y / N**

3a. If so, please note the location/distance:  
0.5 miles to the west

4. Are any schools/day care centers located near the site?

**Y / N**

4a. If so, please note the location/distance/type:  
middle school located approximately 0.75 miles to the northwest

5. Are any wetlands located near the site?

**Y / N**

5a. If so, please note the location/distance/type:

## Visual Site Inspection Checklist

*Additional Notes*

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*Photographic Log*

Photo ID/Name	Date & Location	Photograph Description
Photograph No. 1	8/22/2018 Boone AASF	TriMax-3 aqueous film forming foam (AFFF) fire extinguisher.
Photograph No. 2	8/22/2018 Boone AASF	TriMax-30 AFFF fire extinguisher.
Photograph No. 3	8/22/2018 Boone AASF	TriMax-60 AFFF all-terrain vehicle fire extinguisher.
Photograph No. 4	8/22/2018 Boone AASF	Looking north. Wash rack drain and storm drains.
Photograph No. 5	8/22/2018 Boone AASF	Looking west. Drain to wash rack oil-water separator.
Photograph No. 6	8/22/2018 Boone AASF	5-gallon bucket of 3% and 6% AFFF.
Photograph No. 7	8/22/2018 Boone AASF	Looking north. Location of barrel fire.
Photograph No. 8	8/22/2018 Boone AASF	Looking north. Drainage ditch running to the east along the northern boundary of the facility.

## **Appendix B.3**

### **Conceptual Site Model Information**

## Preliminary Assessment – Conceptual Site Model Information

**Site Name:** Boone Army Aviation Support Facility (AASF)

---

**Why has this location been identified as a site?**

*Interview indicated aqueous film forming foam (AFFF) emptied at and near wash rack at facility during fire training exercises.*

---

**Are there any other activities nearby that could also impact this location?**

*No*

---

### Training Events

Have any training events with AFFF occurred at this site? *AFFF fire extinguishers emptied at/near wash rack*

---

If so, how often? *Approximately every five years*

---

How much material was used? Is it documented? *Not documented; however, all TriMax fire extinguishers were emptied.*

---

**Identify Potential Pathways:** Do we have enough information to fully understand over land surface water flow, groundwater flow, and geological formations on and around the facility? Any direct pathways to larger water bodies?

### Surface Water:

Surface water flow direction? *Generally to the south and southwest toward the Peas Creek and Des Moines River*

---

Average rainfall? *34 inches*

---

Any flooding during rainy season? *No*

---

Direct or indirect pathway to ditches? *Yes*

---

Direct or indirect pathway to larger bodies of water? *No*

---

Does surface water pond any place on site? *No*

---

Any impoundment areas or retention ponds? *No*

---

Any NPDES location points near the site? *Yes*

---

How does surface water drain on and around the flight line?

*Surface water on the facility flows to the north then east*

---

## Preliminary Assessment – Conceptual Site Model Information

### Groundwater:

Groundwater flow direction? *Inferred to the south*

---

Depth to groundwater? *Approximately 100 feet*

---

Uses (agricultural, drinking water, irrigation)? *unknown*

---

Any groundwater treatment systems? *No*

---

Any groundwater monitoring well locations near the site? *Yes, commercial well located approximately 1 mile north of the facility; public water supply well located approximately 1.25 miles northwest of the facility*

---

Is groundwater used for drinking water? *No*

---

Are there drinking water supply wells on installation? *No*

---

Do they serve off-post populations? *No*

---

Are there off-post drinking water wells downgradient? *There are private wells approximately 1.5 miles south-southeast in the inferred downgradient direction from the facility*

---

### Waste Water Treatment Plant:

Has the installation ever had a WWTP, past or present? *No*

---

If so, do we understand the process and which water is/was treated at the plant? *N/A*

---

Do we understand the fate of sludge waste? *N/A*

---

Is surface water from potential contaminated sites treated? *N/A*

---

### Equipment Rinse Water

1. Is firefighting equipment washed? Where does the rinse water go? *Not currently – firefighting services are provided by the City of Boone. Historically, a fire truck was housed at the current AASF but there is no information regarding the washing of the fire truck.*

---

2. Are nozzles tested? How often are nozzles tested? Where are nozzles tested? Are nozzles cleaned after use? Where does the rinse water flow after cleaning nozzles?  
*N/A*

---

3. Other? *N/A*

---

## Preliminary Assessment – Conceptual Site Model Information

### Identify Potential Receptors:

Site Worker: *Yes*

---

Construction Worker: *Yes*

---

Recreational User: *No*

---

Residential: *No*

---

Child: *No*

---

Ecological: *Yes*

---

Note what is located near by the site (e.g. daycare, schools, hospitals, churches, agricultural, livestock)?

---

*Boone Municipal Airport, concrete business, bioproduct business, Iowa Department of Transportation maintenance, middle school*

---

### Documentation

Ask for Engineering drawings (if applicable).

---

Has there been a reconstruction or changes to the drainage system? When did that occur?

---

*N/A*

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## **Appendix C**

### **Photographic Log**



## APPENDIX C – Photographic Log

Army National Guard, Preliminary Assessment for PFAS	Boone AASF	Boone, Iowa
<p><b>Photograph No. 1</b></p> <p><b>Description:</b></p> <p>TriMax-3 aqueous film forming foam (AFFF) fire extinguisher.</p>		
<p><b>Photograph No. 2</b></p> <p><b>Description:</b></p> <p>TriMax-30 AFFF fire extinguisher.</p>		


## APPENDIX C – Photographic Log

Army National Guard, Preliminary Assessment for PFAS	Boone AASF	Boone, Iowa
<p><b>Photograph No. 3</b></p> <p><b>Description:</b></p> <p>TriMax-60 AFFF all-terrain vehicle fire extinguisher.</p>		
<p><b>Photograph No. 4</b></p> <p><b>Description:</b></p> <p>Looking north. Wash rack drain and storm drains.</p>		

## APPENDIX C – Photographic Log

Army National Guard, Preliminary Assessment for PFAS	Boone AASF	Boone, Iowa
<p><b>Photograph No. 5</b></p> <p><b>Description:</b></p> <p>Drain to wash rack oil-water separator.</p>		
<p><b>Photograph No. 6</b></p> <p><b>Description:</b></p> <p>5-gallon buckets of 3% and 6% AFFF.</p>		

## APPENDIX C – Photographic Log

Army National Guard, Preliminary Assessment for PFAS		Boone AASF	Boone, Iowa
<b>Photograph No. 7</b>			
<b>Description:</b> Looking north. Location of barrel fire.			
<b>Photograph No. 8</b>			
<b>Description:</b> Looking north. Drainage ditch running to the east along the northern boundary of the facility.			

Preliminary Assessment Report  
Boone AASF  
Perfluorooctane-Sulfonic Acid (PFOS) and  
Perfluorooctanoic Acid (PFOA) Impacted Sites  
ARNG Installations, Nationwide