

## Engineer's Design Report Runway 3-21 Rehabilitation Douglas Municipal Airport

ADOT Project No. XXXXXXXXX

Prepared for:

## Douglas, Arizona

April 2023

# Kimley »Horn



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## **1.0 General Scope of Project**

#### 1.1 Introduction

The purpose of this Engineer's Report is to describe the project, summarize investigations, explain design methodologies, and construction phasing. The report will also present anticipated project schedules and an estimate of probable construction costs.

#### 1.2 Airport Location and Background Information

Douglas Municipal Airport is a city-owned public airport located 2 miles east of the central business district in the City of Douglas located in Cochise County, AZ. The Douglas Municipal Airport was originally constructed in the early 1980s, however the runway was widened to the existing 75-feet in 1997.

The airport mainly serves recreational and personal flying and is surrounded by undeveloped State-owned land to the north and the east. The United States and Mexico international border lies directly south of the airport, and residential housing is present to the west. The airport consists of two aircraft hangars, a single t-hangar, a fuel facility, a parallel Taxiway A with five connector taxiways to the primary Runway 03-21. Douglas Municipal Airport generates around 11,680 operations during the year as reported by AirNav 2021 data.

The airport covers an area of approximately 0.98 square miles. Figure 1.1, *Location and Vicinity Map*, depicts the airport's location in relation to the regional setting and its location in relation to the local setting.



Figure 1.1, Location and Vicinity Map

#### **1.3 Project Description**

The Rehabilitation of Runway 3-21 project is intended to extend the lifecycle of the existing pavements that are failing.

The existing asphalt pavement on Runway 3-21 was inspected on March 18, 2022 as part of the Arizona Department of Transportation (ADOT) Arizona Airport Pavement Management System (APMS) program. This study reported that this pavement section had an unsustainable PCI of 50. A PCI below 55 would warrant a major rehabilitation. Due to funding restraints, the proposed project was recommended in lieu of a major rehabilitation in order to remain below the maximum allotment provided by ADOT of \$1,500,000.00.



The project will consist of:

- Milling of existing Runway 3-21 asphalt pavement (3-inches)
- Milling of existing Taxiway A1 asphalt pavement (3-inches)
- Milling of existing Taxiway A2 asphalt pavement (3-inches)
- Construction of new Runway 3-21 asphalt pavement (3-inches)
- Construction of new Taxiway A1 asphalt pavement (3-inches)
- Construction of new Taxiway A2 asphalt pavement (3-inches)

This project will be bid in the spring of 2023 and is anticipated to be paid for using ADOT funding.

#### ADOT Eligible/Ineligible Work Items

The table below identifies the ADOT eligible and ineligible work items included in this project.

Work Item	Eligible	Ineligible
Surveying and Staking	Х	
Safety and Traffic Control	Х	
Clearing and Grubbing	Х	
Stormwater Pollution Prevention Plan	Х	
Demolish Existing Edge of AC	Х	
Proposed AC Runway Pavement	Х	
Proposed Pavement Markings	Х	

 Table 1.3

 ADOT Eligible/Ineligible Work Items

Exhibit 1.3 Project Layout Plan shows the location of the project and the main elements of work.

#### POINT TABLE

POINT NUMBER	LATITUDE	LONGITUDE	DESCRIPTION
1	31°20'172000" N	109 <b>·</b> 30'620833" W	END OF RUNWAY 3
2	31°20'889667"N	109 <b>°</b> 29'895000" W	END OF RUNWAY 21

DURATION TABLE	DURATION	TABL	E
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STEP/AREA	DESCRIPTION OF WORK	DURATION
STEP 1	PREPARATION WORK HERBICIDE APPLICATION (TREATMENT PERIOD)	1 DAY MAX (1 DAY MIN)
STEP 2	RUNWAY 3-21 AND CONNECTING TAXIWAYS CLOSED WORK INCLUDES MILL, CRACK SEAL, CRACK REPAIR, ASPHALT OVERLAY AND TEMPORARY PAVEMENT MARKINGS	20 DAYS
STEP 3	(PAVEMENT CURING PERIOD) FINAL PAVEMENT MARKINGS	(14 DAYS MIN) 2 DAYS MAX

#### PHASING NOTES:

- 1. HERBICIDE TO BE COORDINATED WITH AIRPORT AND COMPLETED 14 DAYS (MINIMUM) PRIOR TO MILLING/CRACK-SEAL ACTIVITIES.
- 2. ALL ACTIVITIES INCLUDING TEMPORARY PAVEMENT MARKING TO BE COMPLETED PRIOR TO STARTING A NEW PHASE AND/OR OPENING THE CLOSED RUNWAY/TAXIWAYS.
- 3. TEMPORARY MARKINGS SHALL BE COMPLETED FOR EACH PHASE OF THE PROJECT (AS NECESSARY).
- 4. FINAL MARKINGS SHALL BE COORDINATED WITH AIRPORT AND COMPLETED A MINIMUM OF 14 DAYS AFTER FINAL PAVING DAY.

THE CONTRACT DURATION FOR THIS PROJECT IS <u>50</u> CONSECUTIVE CALENDAR DAYS. THIS PROJECT INCLUDES SPECIAL PHASING THAT REQUIRES THAT ALL WORK BE COMPLETED WITHIN THE LIMITS OF ONE PHASED WORK AREA BEFORE STARTING WORK IN THE NEXT PHASED WORK AREA. THIS PHASING WAS DEVELOPED TO MINIMIZE THE DISRUPTION TO THE ENTRE AIRFIELD. TO AIDE THE CONTRACTOR IN SCHEDULING TASKS WITHIN EACH PHASE IS PROVIDED.





## 2.0 Initial Investigations / Photographs

#### 2.1 Site Investigations

A brief description and presentation of the results for each design investigation element is included below:

- Site Visit Investigation and inventory of existing airport elements from visual inspection.
- As-built Review Review pavement thickness and composition data from construction as-built drawings.
- Topographic Survey Survey of the existing ground, edge of pavement, and surface features in the project area was performed.
- Review and Location of Existing Utilities Review of utility type and locations from construction as-built drawings
- Geotechnical Investigation No subsurface geotechnical investigation was completed since all proposed work will be within the top 3-inches of the existing pavement surface.
- Environmental Clearance Review of environmental documents for the project.

#### 2.1.1 Site Visit

The Airport Manager will escort Kimley-Horn and Associates, Inc. (Kimley-Horn) design team on to the airfield to assess the various aspects of the project site on April 26, 2023. The team for Kimley-Horn will walk the area of proposed construction. Existing project surface features were observed and photographed. Observed characteristics included pavement condition and pavement markings issues.

### 2.1.2 As-Built Records Review

Kimley-Horn used the Arizona 2022 IDEA website to collect the information shown in Table 2.1.2 on the existing apron that is to be expanded:

Item	Data
Section ID	RW321 - 10
Originally Constructed	6/30/1981
Original Structural Section	3.5" AC over 6" CABC
Work History	1986 – 1.5-inch AC Overlay 1997 – 7.5-foot widening (5" AC, 6" CABC) 2004 – Crack sealing 2014 – Cores taken, 5"-7.5" AC (6.1" AVG) over 12-13" CABC (12.7" AVG)
PCI Information	2022 - 50 2023 - 48

<b>Table 2.1.2</b>		
As-Built Information		

#### 2.1.3 Topographic Survey

An airport wide topographic survey is to be performed by **Trace Consulting, LLC** in May of 2023. The field survey consists of horizontal and vertical data collection for the project site and adjacent features. Survey points will be taken on approximately a 50 by 50 foot grid basis over the majority of the project area. Along the existing taxiway connector tie-in locations, survey points will be taken at 25 by 25 foot grid base intervals. The area surveyed includes adjacent pavement areas to allow design of proposed pavement to match into existing pavement grades and elevations. The field survey performed for this project will be incorporated into the project drawings.

#### 2.1.4 Review and Location of Existing Utilities

Kimley-Horn researched available utility records that were furnished by the airport. Prior to performing soil borings for the geotechnical investigation, the site was reviewed for potential utility conflicts. There were no existing underground utilities that were found crossing the project area.

#### 2.1.5 Geotechnical Investigation

A Geotechnical Investigation was not performed as part of this project. Cores were previously taken within the project limits on December 17, 2004 and published to the Arizona 2022 IDEA website showing an existing asphalt thickness ranging from 5-7 inches with a 6.1 inch average. This core information confirmed that the specified rehabilitation method of a 3-inch mill would not impact the existing subgrade, therefore subsurface investigation was not necessary.

#### 2.1.6 Environmental Clearances

In December 2019 an environmental review of the project was conducted by the Arizona Department of Transportation Multimodal Transportation Division, Aeronautics Group which concluded that the proposed work is environmentally cleared. The letter from ADOT will be included as **Appendix A**, *ADOT Environmental Determination Checklist*.

#### 2.2 Site Photos

The following photos were taken during the ADOT APMS site visit to the project area on March 18, 2022. The pictures taken help portray some of the existing conditions that were observed on site and identified by the Airport as issues. Reference **Photo 2.2a** through **Photo 2.2d** below.



 $Photo \ 2.2a-Longitudinal \ and \ Traverse \ Cracking$ 

 $Photo \ 2.2b- A sphalt \ Weathering$ 





Photo 2.2c – Existing Runway Pavement

Photo 2.2d – Asphalt Swelling

## 3.0 Applicable FAA / AIP Standards

#### 3.1 Design Standards

The following design standards were utilized in the design and coordination of this project:

AC 150/5300-13B	Airport Design
AC 150/5320-6G	Airport Pavement Design and Evaluation
AC 150/5340-1M	Standards for Airport Markings
AC 150/5370-10H	Standards for Specifying Construction of Airport
AC 150/5370-2G	Operational Safety on Airports During Construction

The geometries and locations referenced in this report will be designed to meet FAA standards for runway geometrics, per the current version of Advisory Circular (AC) 150/5300-13B, *Airport Design*. A **Beechcraft Super King Air 200** will be used as the design aircraft for this evaluation, and in accordance to AC 150/5300-13B, the proposed apron geometrics will be designed to accommodate **Airplane Design Group (ADG) II**. **Table 3.1A** *Design Aircraft Data*, shows a list of the key dimensional characteristics of the design aircraft used in this evaluation. **Table 3.1B** Dimensional Standards (ADG) shows the essential design criteria that was utilized when establishing the design for this project.



Table 3.1A		
<b>Design Aircraft Data</b>		

Design Element	Design Dimension/Value
Design Critical Aircraft	Beechcraft Super King Air 200
Airplane Design Group (ADG)	II
Taxiway Design Group (TDG)	2
Design Aircraft Wingspan	54.50'
Design Aircraft Tail Height	15'
Design Aircraft Cockpit to Main Gear (CMG)	behind nose gear
Design Aircraft Main Gear Width (MGW)	17.17
Max Certified Takeoff Weight of Design Aircraft	12,500 lbs

**Table** dimensional values of the design aircraft (Cessna 172 Skyhawk) are reported per FAA, Advisory Circular 150/5300-13B, Table A1-1 Aircraft Characteristics Database – Sorted by Aircraft Manufacturer/Model (Appendix 1).

#### .Table 3.1B

#### Dimensional Standards for a B-II Runway with a Visual Approach

Design Element	Design Dimension/Value		
Runway Design			
Runway Length	5,575 ft		
Runway Width	75 ft		
Shoulder Width	N/A		
Blast Pad Width	N/A		
Blast Pad Length	N/A		
Runway Protections			
Runway Safety Area (RSA)			
Length Beyond Departure End	300 ft		
Length prior to threshold	300 ft		
Width	150 ft		
Runway Object Free Area (OFA)			
Length Beyond Departure End	300 ft		
Length prior to threshold	300 ft		
Width	500 ft		
Runway Separation			
Holding Position	200 ft		
Parallel Taxiway/Taxilane Centerline	240 ft		

Table source: FAA, Advisory Circular 150/5300-13B, Table G-3.

Design Element	Design Dimension/Value			
Taxiway Protections				
Taxiway Safety Area (TSA)	79 ft			
Taxiway Object Free Area (TOFA)	124 ft			
Taxiway Separation				
Taxiway Centerline to Parallel Taxiway /Taxilane Centerline	101.5 ft			
Taxiway Centerline to Fixed or Movable Object	62 ft			
Wingtip Clearance				
Taxiway Wingtip Clearance	22.5 ft			

## .Table 3.1C Dimensional Standards for a B-II Taxiway

Table source: FAA, Advisory Circular 150/5300-13B, Table 4-1

Per Advisory Circular 150/5300-13B, Chapter 3, Section 3.16.1, the maximum longitudinal grade along the centerline of a Runway with a approach category of A or B is 2.0 percent with a maximum allowable grade change of 2.0 percent. The topographic survey will identify if there are any out of tolerance grades currently present within the runway section. This project will aim to maintain the existing grade of the runway centerline and will not change to assure a consistent asphalt overlay depth of 3-inches. **Figure 3.1**, *Longitudinal Grade Limitations for Aircraft Approach Categories A and B* below shows FAA the grade limitations.



#### Notes:

1. Design the length of vertical curves to not be less than 300 ft for each 1% grade change, except that no vertical curve is necessary when grade change is less than 0.4%

2. Do not design grade change at vertical curves greater than 2.0%

3. Minimum distance between points of vertical intersection is 250 ft multiplied by the sum of absolute grade changes.

2. Figure 3.1, Longitudinal Grade Limitations for Aircraft Approach Categories A and B

In accordance with AC 150/5300-13B standards, the allowed transverse grades for an Approach Category B runway can be found in **Figure 3.2**, *Transverse grade limitations*, and **Figure 3.3**, *RSA grade limitations beyond 200 feet (61m) from the runway end*.



Figure 3.2, Transverse grade limitations



Figure 3.3, RSA grade limitations beyond 200 feet (61m) from the runway end

The range of transverse gradients listed in the above Figures, were used to develop a typical runway cross section. The designed typical cross section will match, as closely as practical, the existing topography of the Runway to assure a consistent asphalt overlay thickness of 3-inches. A 1.5-inch drop at the edge of pavement, and a 1.5-2.5% percent grade from the edge of pavement until tying into existing grade (where feasible). Transverse grades may be slightly altered from the preferred conditions to tie into existing conditions.

The geometries of the adjacent Taxiways will not be altered as part of this project and should match existing conditions after construction is complete.

## 4.0 Considerations for Airport Operational Safety

#### 4.1 Overview of Operational Safety

The contract documents have been prepared to follow the guidelines FAA Advisory Circular 150/5370-2G, *Operational Safety on Airports During Construction*. Aircraft movement areas that are temporarily closed will be properly marked with approved closure markings and low-level barricades will be placed to obstruct the movement of aircraft from entering construction areas. Excavations and open trenches will be adequately signed, marked and lighted. The contractor is required to continuously maintain existing airfield pavement for the adjacent taxiways and aprons that are not affected by construction activities.

The Contractor is required to provide an Operations Plan for the proposed construction activities identified in the contract documents. The plan will address safety, security, and airport operation issues and will include the following:

- Location of all traffic control devices
- The possible need for flagmen
- Construction area lighting, signing, and marking
- Construction phasing

NOTAM's will be issued when construction activities are near any active movement areas. All service roads and aircraft movement areas within the limits of construction will be kept clear of waste and loose materials, which will require the contractor to use a vacuum type sweeper.

The portions of construction within taxiway safety areas will be:

- 1. Cleared and graded and have no potentially hazardous ruts, humps, depressions, or other surface variations;
- 2. Drained by grading or storm sewers to prevent water accumulation;
- 3. Capable under dry conditions of supporting aircraft rescue and fire-fighting equipment, and the occasional passage of aircraft without causing structural damage to the aircraft; and
- 4. Free of objects, except for objects that must be located in the taxiway safety area because of their function. These objects will be constructed on low impact resistant supports (frangible mounted structures) to the lowest practical height with the frangible point no higher than 3-inches above grade.

#### 4.2 Construction Phasing

Due to the nature and simplicity of this project, there will be no construction phasing for this project. The rehabilitation of Runway 3-21 and Taxiways A1 and A2 can be completed all at once while the airport undergoes a complete closure to air traffic.



## 5.0 Pavement Design

#### 5.1 Geotechnical Report

A Geotechnical Investigation was not performed as part of this project. Cores were previously taken within the project limits on December 17, 2004 and published to the Arizona 2022 IDEA website showing an existing asphalt thickness ranging from 5-7 inches with a 6.1 inch average. This core information confirmed that the specified rehabilitation method of a 3-inch mill would not impact the existing subgrade, therefore subsurface investigation was not necessary.

### 5.2 Fleet Mix

The current Fleet Mix summary for the Douglas Municipal Airport includes a critical aircraft of Beechcraft Super King Air 200. This aircraft was taken into consideration during the design of the pavement with a maximum takeoff weight of 12,500 lbs.

#### 5.3 Pavement Design

Kimley-Horn analyzed the results of the previously procured cores, the fleet mix summary, published PCI, and available material and funds. Based on these findings, Table 5.3 shows the recommended pavement rehabilitation.

Existing Asphalt	Asphalt Concrete	Asphalt Concrete Mix
Concrete Depth	Mill Depth	(ADOT Spec 409)
6.1 inches (average)	3 inches	3 inches ( <i>single lift</i> )

 Table 5.3

 Recommended Pavement Rehabilitation

## 6.0 Drainage Design

#### 6.1 Drainage Design Criteria

Given that this is a pavement maintenance project, there will be no drainage improvements with the Rehabilitation of Runway 3-21.

#### 6.1 Drainage Patterns

Given that this is a pavement maintenance project, there will be no drainage improvements with the Rehabilitation of Runway 3-21.



#### 6.2 Hydrology

Given that this is a pavement maintenance project, there will be no drainage improvements with the Rehabilitation of Runway 3-21.

#### 6.3 Proposed Hydraulics

Given that this is a pavement maintenance project, there will be no drainage improvements with the Rehabilitation of Runway 3-21.

#### 6.4 Conclusions and Recommendations

Given that this is a pavement maintenance project, there will be no drainage improvements with the Rehabilitation of Runway 3-21.

### 7.0 Airfield Lighting and Signage

#### 7.1 Electrical Design

Given that this is a pavement maintenance project, there will be no Airfield Lighting and Signage associated with the Rehabilitation of Runway 3-21.

### 8.0 NAVAIDs

#### 8.1 FAA VISAIDs and NAVAIDs

Given that this is a pavement maintenance project, there will be no FAA VISAIDs and NAVAIDs associated with the Rehabilitation of Runway 3-21.

### 9.0 Pavement Marking

#### 9.1 Pavement Markings

Pavement markings will be in accordance with FAA AC No. 150/5340-1M "Standards for Airport Markings". For runway markings table 2-1 *Minimum required runway surface marking schemes for paved runways* from FAA AC 150/5340-1M was utilized to determine the markings for this project. The Runway centerline marking will be a dashed white line, 18-inch wide with 120' stripes and 80' spacings. At the center of the runway the markings were altered from their standard length and spacing to accommodate the runway length.

Taxiway markings will consist of 6" wide yellow stripes leading onto the until they are parallel with the runway centerline and will continue for 200'.

### **10.0 Environmental Considerations**

#### **10.1 Stormwater Pollution Prevention Plan**

The intent of this SWPPP is to protect the existing drainage basins, channels, and pipe networks from sedimentation and containments. A stormwater pollution prevention plan (SWPPP) was not developed for



this project based on the specific conditions of the existing site and the absence of existing or proposed storm drains and utilities.

#### 10.2 Permits

No special permitting will be required for the completion of this project. The Contractor shall be responsible for obtaining stormwater and earthwork permits through the county prior to receiving the NTP for this project.

#### 10.3 CATEX, EIS, or EA Documentation Status

In December 2019 an environmental review of the project was conducted by the Arizona Department of Transportation Multimodal Transportation Division, Aeronautics Group which concluded that the proposed work is environmentally cleared. The letter from ADOT will be included as **Appendix A**, *ADOT Environmental Determination Checklist*.

## **11.0 Utility Lines in Project Area**

#### 10.1 Site Utilities

Kimley-Horn researched available utility records (see **Section 2.1.2** of this report) that were furnished by the airport. There were no existing underground utilities that were found crossing the project area.

### 12.0 Miscellaneous Work Item

#### 12.1 Additional Work Items

In addition to the work items previously mentioned in Section 1.3 of this report, as stated in the plans, the Contractor shall be responsible for maintaining all haul routes utilized during construction. The condition of all haul routes will be documented in their existing condition prior to construction and shall be restored to a condition equivalent to or better by the Contractor prior to completion of the project.

## **13.0** Application of Life Cycle Cost Analysis

#### 13.1 Life Cycle Cost Analysis

There was no discussion during the design of this project of using an alternative pavement material for the runway rehabilitation.

### **14.0** Sponsor Requested Modifications to AIP Construction Standards

#### 14.1 Modifications to Standards

This project was designed in accordance with the current versions of applicable FAA design standards, see **Section 3.1** of this report. No modifications to standards were required or requested for this project.

## **15.0 Identify ADOT Ineligible Work**

#### **15.1 ADOT Ineligible Work**

This project will be paid in full using ADOT funding with no match from the City of Douglas. No work items included in this project are identified as ADOT ineligible, see **Table 1.3**.



## **16.0 DBE Participation**

The Sponsor's DBE program is currently in the review process for the FY 2023-2024 three-year cycle. Once approved a copy will be readily available for download.

## **17.0 Project Schedule**

#### **17.1 Project Schedule Table**

Activity	Date
30% Preliminary Design Submittal	4/19/2023
30% Design Review Meeting	5/12/2023
90% Preliminary Design	6/16/2023
IFB Plans Submittal	6/28/2023
Recommendation for Award	7/31/2023
Begin Construction	Summer of 2023

## **18.0 Project Estimate**

#### 18.1 Engineer's Opinion of Probable Cost

The following is a preliminary Cost Estimates for the project. The estimate is broken down by individual construction items.

30%	ENGINEER'S	OPINION	OF	PROBABLE COST

		The second				Engine	er's E	stimate
Item	Specification Number	Bid Item Description	Quantity	Unit		Unit Price		Amount
BASE B	ID							
1	Item-100	Contractor Quality Control	1	LS	s	46,900.00	\$	46,900.0
2	Item-101.1	Mobilization/Demobilization (not to exceed 5% of the total bid)	1	LS	s	46,900.00	\$	46,900.0
3	Item-102.1	Herbicide Application	10,500	LF	s	0.25	\$	2,625.0
4	Item-104.1	Mill Asphalt Concrete Pavement (3" Depth)	50,240	SY	S	2.00	\$	100,480.0
5	Item-105.1	Temporary Construction Signage, Barricading and Traffic Control	1	LS	\$	63,700.00	\$	63,700.0
6	Item-107.1	Crack Repair	10,500	LF	\$	10.00	\$	105,000.
7	Item-409	HMA Surface Course	8,280	TON	s	100.00	\$	828,000.
8	Item-409	Bituminous Material	740	TON	\$	600.00	S	444,000.
9	Item-603.1	Bituminous Tack Coat	23	TON	s	500.00	\$	11,500.
10	Item-620.1	Temporary Pavement Markings (White)	3,390	SF	s	0.50	\$	1,695.
11	Item-620.2	Temporary Pavement Markings (Yellow)	2,250	SF	s	0.50	\$	1,125.0
12	Item-620.4	Pavement Markings (White)	3,390	SF	s	1.00	\$	3,390.0
13	Item-620.5	Pavement Markings (Yellow)	2,250	SF	\$	2.00	\$	4,500.0
14	Item-620.6	Pavement Markings (Black)	320	SF	s	3.00	\$	960.
		o ol over the cost of labor, materials, equipment, or over the Contractor's methods of determining prices o mions of probable costs provided herein are based on the information known to Consultant at this time ar		Co	ontin	gency (10%)	\$	165,531.
ne Consult	tant's judgment as a des	ign professional familiar with the construction industry. The Consultant cannot and does not guarantee t at vary from its opinions of probable costs.			To	tal Amount	5	1,826,306.5



## **19.0** Preliminary Project Budget

Type of Expense	Anticipated Cost		
Civil Design	\$79,993.50		
Construction	\$1,826,306.50		

## 20.0 Pre-design Meeting Minutes

## 20.1 Meeting Minutes

The pre-design meeting was held on Wednesday, March 8<sup>th</sup>, 2023.



APPENDIX A: ENVIRONMETAL EXCLUSION LETTER



## ARIZONA DEPARTMENT OF TRANSPORTATION MULTIMODAL TRANSPORTATION DIVISION AERONAUTICS GROUP

## **ENVIRONMENTAL DETERMINATION CHECKLIST 2012**

E0S2B-01C

ADOT Project Number

City of Douglas Municipal Airport (DGL)

Airport Name

Douglas, Cochise County, AZ

Airport Location

**PROJECT DESCRIPTION:** List and clearly describe all components of project proposal. Include a summary of existing conditions at project site. Attach site map identifying project area and delineating the project.

The proposed City of Douglas Municipal Airport Runway 03-21 Reconstruction project limits includes Runway 03-21, paved entrances or exits to the airport taxiway, the Runway 03-21 turn around, a previously disturbed proposed staging area, and a previously disturbed proposed access road (see Figure 1 and Figure 2).

According to ADOT, other than minor patching and crack sealing, the last major rehabilitation of Runway 03-21, which was a 5-inch overlay, was conducted in 1997. The Airport was last inspected in April 2017. At that time, the Runway and the turnaround taxiway was given a Pavement Condition Index (PCI) rating of 27. Notes from that inspection include significant quantities of low-, medium-, and high-severity longitudinal and transverse cracking, bulging areas of pavement, and high potential of Foreign Object Debris (FOD). Airport maintenance staff regularly remove large pieces of dislocated pavement, and Airport users have identified that rehabilitation of Runway 03-21 is the most important facility need at DGL.

This project includes the reconstruction of Runway 03-21 (5,760 feet x 75 feet); including a portion of three taxiway connectors (to the Runway Safety Area (RSA)) and the Runway 03 taxiway turnaround. Work will include the complete removal of the existing asphalt pavement, removal (possible reuse) of the existing aggregate base course, compaction of the existing subgrade soils; placement and compaction of aggregate base course (new or reused), placement and compaction of a new asphalt surface course. The project will also include the replacement of existing runway edge lights.

The project area is located on the eastern side of Sulphur Springs Valley, southwest of the Perilla Mountains in a relatively flat area that undulates gently. The project area is located in the Chihuahuan Desertscrub Biotic Community (Brown 1994). Native desert in the project area is dominated by creosote (*Larrea tridentata*), velvet mesquite (*Prosopis velutina*), blackbrush (*Coleogyne ramosissima*), and desert spoon (*Dasylirion wheeleri*). Elevation of the project area ranges from 4,140 to 4,170 feet above mean sea level and slopes southwest.

1) SOCIO-ECONOMIC IMPACTS		
a) Will the proposed project lead to disruption or dividing of communities?	YES	NO X
b) Will the proposed project cause relocation of any people, homes or businesses?	YES	NO X
2) CONSTRUCTION IMPACTS		-
Will the proposed project produce construction impacts?	YES X	NO
There may be some particulate matter generated temporarily during construction. The		
contractor will be required to obtain a dust control permit. The contractor shall implement		
best practices for dust and air quality control. At the completion of the project all areas		
disturbed will be stabilized.		
3) FARMLANDS		
Does the project involve acquisition of farmland or use of farmland protected by the	YES	NO X
Federal Farmland Protection Policy Act that would be converted to non-agricultural use?		
4) ENDANGERED SPECIES		
a) Will the proposed project impact any federally or state-listed or proposed endangered	YES	NO X
or threatened species (ESA) of flora and fauna or impact critical habitat?		
b) Will the proposed project affect other biotic communities or habitat not ESA	YES	NO X
protected?		
c) Will the proposed project affect species protected under the Migratory Bird Act?	YES	NO X
Migratory birds may nest on the ground, on structures, or in trees, shrubs, or other vegetation within the project area. Nests were not observed during field reconnaissance;		
however, suitable vegetation for nesting will be removed during construction. Mitigation		
measures will be implemented to prevent impacts to migratory birds.		
meddated win be implemented to provent implete to migratory bride.		
During field reconnaissance burrowing owls and suitable burrows were not observed.		
Additionally, the project area consists of paved areas, adjacent areas overgrown with		
grasses, and native desert with soft soils which would not allow for suitable burrowing		
owl habitat. Therefore, mitigation measures are not required for burrowing owls.		
d) Will the proposed project involve native plants?	YES X	NO
Native Plants located within the project limits include velvet mesquite (Prosopis velutina)		
and desert spoon (Dasylirion wheeleri). These species will likely be impacted by		
construction of the access roads and staging area; therefore, mitigation measures will be		
required. 5) FLOODPLAINS		
Will the proposed project cause an encroachment or impacts to the 100-year base	YES	NOX
floodplain?	120	NOA
The project is located within FEMA FIRM Panels 04003C2882F, 04003C2884G, and		
04003C2905F. Although the southwest portion of the project is located within the 100-year		
floodplain, impacts are not anticipated as the project does not require placement of		
material within the floodplain.		
6) HAZARDOUS MATERIALS		
Will the proposed project involve existing hazardous materials or cause potential	YES	NO X
contamination from hazardous materials?		
See attached PISA.		
7) CULTURAL RESOURCES		
Will the proposed project impact any historic or cultural properties or resources	YES	NO X
protected by local and state registers?		
Desert Archaeology examined construction plans for the project. This project will maintain		
the current configuration of the runway and taxiway. Diehl (2014) indicates that the		
original runways have been abandoned and that the current runways were constructed		
within the last 50 years. While the construction will affect the subgrade of the previous		
runway, it will not change its character and function or its relationship to the property as a		
whole. Therefore, Desert Archaeology recommends a finding of 'no adverse effect' for the		
Douglas Municipal Airport Runway 3-21 Reconstruction project.		

Is a AZPDES permit required?		YES X	NO
The project will require approximately 32.6 acres of distu	urbance from runway		
reconstruction, staging, and access. The project is not le	ocated within 0.25 miles of		
impaired waters.			
WATERS OF THE UNITED STATES			
a) Does the proposed project involve Waters of the U.S		YES	NO X
b) If yes, does the project qualify for a Corps of Engine	ers Nationwide or Individual	YES	NO
Permit? If yes, please attach permit.			
Signatures:			
<u></u>			
Jennifer Simpkins, Senior Environmental Scientist	12/17/19		
(Prepared by) (title)	(date)		
Luis Pedroza, City of Douglas Management Services Director	12/17/19		
(Reviewed by) (title)	(date)		
Attachments:			
Figure 1. State Map			
<ul> <li>Figure 2. Vicinity Map</li> </ul>			
<ul> <li>USFWS IPaC Official Species List</li> </ul>			
<ul> <li>AGFD On-line Environmental Review Tool Rep</li> </ul>	port		
<ul> <li>Preliminary Initial Site Assessment (PISA)</li> </ul>			
	unicipal Airport Runway 3-21 Recon	struction (Pi	roject
<ul> <li>Cultural Resources Assessment of Douglas Mu</li> </ul>	1 I J -		

### Mitigation:

### City of Douglas Responsibility:

• Protective native plants within the project limits will be impacted by this project; therefore, the City of Douglas will determine if Arizona Department of Agriculture notification is needed. If notification is needed, the City of Douglas will send the notification at least 30 (thirty) calendar days prior to the start of construction.

### Contractor Responsibilities:

- If vegetation clearing will occur during the migratory bird breeding season (March 1 August 31), the contractor shall avoid any active bird nests. If the active nests cannot be avoided, the contractor shall notify the Engineer to evaluate the situation. During the non-breeding season (September 1 February 28) vegetation removal is not subject to this restriction.
- To prevent the introduction of invasive species seeds, all earthmoving and hauling equipment shall be washed prior to entering the construction site and the contractor shall inspect all construction equipment and remove all attached debris, including plant parts, soil and mud, prior to the equipment entering the construction site.
- To prevent invasive species seeds from leaving the site, the contractor shall inspect all construction and hauling equipment and remove all debris, including plant parts, soil and mud, prior to leaving the construction site.



City of Douglas Municipal Airport Runway 03-21 Reconstruction Figure 1. State Map

Aerial Source/Date: ESRI 2017



Douglas, Cochise County, AZ

Douglas Municipal Airport Runway 03-21 Reconstruction

Figure 2. Vicinity Map



#### United States Department of the Interior

FISH AND WILDLIFE SERVICE

Arizona Ecological Services Field Office

9828 North 31st Ave



#c3 Phoenix, AZ 85051-2517 Phone: (602) 242-0210 Fax: (602) 242-2513 http://www.fws.gov/southwest/es/arizona/ http://www.fws.gov/southwest/es/EndangeredSpecies\_Main.html

October 23, 2019

In Reply Refer To: Consultation Code: 02EAAZ00-2020-SLI-0075 Event Code: 02EAAZ00-2020-E-00153 Project Name: Douglas Municipal Airport Runway Reconstruction

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

#### To Whom It May Concern:

The Fish and Wildlife Service (Service) is providing this list under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.). The list you have generated identifies threatened, endangered, proposed, and candidate species, and designated and proposed critical habitat, that may occur within one or more delineated United States Geological Survey 7.5 minute quadrangles with which your project polygon intersects. Each quadrangle covers, at minimum, 49 square miles. In some cases, a species does not currently occur within a quadrangle but occurs nearby and could be affected by a project. Please refer to the species information links found at:

http://www.fws.gov/southwest/es/arizona/Docs\_Species.htm

http://www.fws.gov/southwest/es/arizona/Documents/MiscDocs/AZSpeciesReference.pdf .

The purpose of the Act is to provide a means whereby threatened and endangered species and the habitats upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of Federal trust resources and to consult with us if their projects may affect federally listed species and/or designated critical habitat. A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, we recommend preparing a biological evaluation similar to a Biological Assessment to determine whether the project may

affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

Event Code: 02EAAZ00-2020-E-00153

If the Federal action agency determines that listed species or critical habitat may be affected by a federally funded, permitted or authorized activity, the agency must consult with us pursuant to 50 CFR 402. Note that a "may affect" determination includes effects that may not be adverse and that may be beneficial, insignificant, or discountable. You should request consultation with us even if only one individual or habitat segment may be affected. The effects analysis should include the entire action area, which often extends well outside the project boundary or "footprint." For example, projects that involve streams and river systems should consider downstream effects. If the Federal action agency determines that the action may jeopardize a proposed species or adversely modify proposed critical habitat, the agency must enter into a section 7 conference. The agency may choose to confer with us on an action that may affect proposed species or critical habitat.

Candidate species are those for which there is sufficient information to support a proposal for listing. Although candidate species have no legal protection under the Act, we recommend considering them in the planning process in the event they become proposed or listed prior to project completion. More information on the regulations (50 CFR 402) and procedures for section 7 consultation, including the role of permit or license applicants, can be found in our Endangered Species Consultation Handbook at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF.

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We also advise you to consider species protected under the Migratory Bird Treaty Act (MBTA) (16 U.S.C. 703-712) and the Bald and Golden Eagle Protection Act (Eagle Act) (16 U.S.C. 668 et seq.). The MBTA prohibits the taking, killing, possession, transportation, and importation of migratory birds, their eggs, parts, and nests, except when authorized by the Service. The Eagle Act prohibits anyone, without a permit, from taking (including disturbing) eagles, and their parts, nests, or eggs. Currently 1026 species of birds are protected by the MBTA, including species such as the western burrowing owl (Athene cunicularia hypugea). Protected western burrowing owls are often found in urban areas and may use their nest/burrows year-round; destruction of the burrow may result in the unpermitted take of the owl or their eggs.

If a bald eagle (or golden eagle) nest occurs in or near the proposed project area, you should evaluate your project to determine whether it is likely to disturb or harm eagles. The National Bald Eagle Management Guidelines provide recommendations to minimize potential project impacts to bald eagles:

https://www.fws.gov/migratorybirds/pdf/management/ nationalbaldeaglenanagementguidelines.pdf https://www.fws.gov/birds/management/managed-species/eagle-management.php.

The Division of Migratory Birds (505/248-7882) administers and issues permits under the MBTA and Eagle Act, while our office can provide guidance and Technical Assistance. For more information regarding the MBTA, BGEPA, and permitting processes, please visit the following: https://www.fws.gov/birds/policies-and-regulations/incidental-take.php. Guidance for minimizing impacts to migratory birds for communication tower projects (e.g. cellular, digital television, radio, and emergency broadcast) can be found at:

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## https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds/collisions/communication-towers.php.

Activities that involve streams (including intermittent streams) and/or wetlands are regulated by the U.S. Army Corps of Engineers (Corps). We recommend that you contact the Corps to determine their interest in proposed projects in these areas. For activities within a National Wildlife Refuge, we recommend that you contact refuge staff for specific information about refuge resources.

If your action is on tribal land or has implications for off-reservation tribal interests, we encourage you to contact the tribe(s) and the Bureau of Indian Affairs (BIA) to discuss potential tribal concerns, and to invite any affected tribe and the BIA to participate in the section 7 consultation. In keeping with our tribal trust responsibility, we will notify tribes that may be affected by proposed actions when section 7 consultation is initiated.

We also recommend you seek additional information and coordinate your project with the Arizona Game and Fish Department. Information on known species detections, special status species, and Arizona species of greatest conservation need, such as the western burrowing owl and the Sonoran desert tortoise (Gopherus morafkai) can be found by using their Online Environmental Review Tool, administered through the Heritage Data Management System and Project Evaluation Program https://www.azgfd.com/Wildlife/HeritageFund/.

For additional communications regarding this project, please refer to the consultation Tracking Number in the header of this letter. We appreciate your concern for threatened and endangered species. If we may be of further assistance, please contact our following offices for projects in these areas:

Northern Arizona: Flagstaff Office 928/556-2001 Central Arizona: Phoenix office 602/242-0210 Southern Arizona: Tucson Office 520/670-6144

Sincerely, /s/ Steven L. Spangle Field Supervisor

Attachment

Attachment(s):

Official Species List

### **Official Species List**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Arizona Ecological Services Field Office 9828 North 31st Ave #c3 Phoenix, AZ 85051-2517 (602) 242-0210

#### **Project Summary**

Consultation Code: 02EAAZ00-2020-SLI-0075

Project Name: Douglas Municipal Airport Runway Reconstruction

Project Type: TRANSPORTATION

Project Description: Runway Reconstruction

#### Project Location:

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/place/31.342224390155916N109.50474580086163W</u>



Counties: Cochise, AZ

There is a total of 10 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

#### Mammals

NAME	STATUS
Jaguar Panthera onca	Endangered
There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat.	-
Species profile: https://ecos.fws.gov/ecp/species/3944	
Ocelot Leopardus (=Felis) pardalis	Endangered
No critical habitat has been designated for this species.	
Species profile: https://ecos.fws.gov/ecp/species/4474	

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#### **Flowering Plants**

NAME	STATUS
Wright's Marsh Thistle Cirsium wrightii	Candidate
No critical habitat has been designated for this species.	
Species profile: https://ecos.fws.gov/ecp/species/8963	

#### **Critical habitats**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

#### Birds

NAME	STATUS
Mexican Spotted Owl <i>Strix occidentalis lucida</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/8196</u> Species survey guidelines: <u>https://ecos.fws.gov/ipac/guideline/survey/population/129/office/22410.pdf</u>	Threatened
Northern Aplomado Falcon Falco femoralis septentrionalis Population: U.S.A (AZ, NM) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1923	Experimental Population, Non- Essential
Yellow-billed Cuckoo Coccyzus americanus Population: Western U.S. DPS There is <b>proposed</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/3911</u>	Threatened

#### Reptiles

STATUS
Threatened

#### Amphibians

NAME	STATUS
Chiricahua Leopard Frog <i>Rana chiricahuensis</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/1516</u>	Threatened
Fishes	
NAME	STATUS
Yaqui Catfish Ictalurus pricei There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/5432</u>	Threatened
Yaqui Chub <i>Gila purpurea</i> There is <b>final</b> critical habitat for this species. Your location is outside the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/3414</u>	Endangered

## Arizona Environmental Online Review Tool Report

RIZON PRIZON PRI

Arizona Game and Fish Department Mission To conserve Arizona's diverse wildlife resources and manage for safe, compatible outdoor recreation opportunities for current and future generations.

#### Project Name:

Douglas Municipal Airport Runway Reconstruction

User Project Number: 098249005

000240000

Project Description: Runway Reconstruction

#### Project Type:

Transportation & Infrastructure, Airports, Maintenance on existing runways, taxiways, terminals/concourses, runway obstruction clearance, facilities, beacons, control towers, storm water run off controls, de-icing, fuel depots

#### **Contact Person:**

Jefferson Hemphill

#### Organization:

Kimley-Horn Associates

#### On Behalf Of:

CONSULTING

#### Project ID:

HGIS-09892

Please review the entire report for project type and/or species recommendations for the location information entered. Please retain a copy for future reference.

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#### Disclaimer:

- 1. This Environmental Review is based on the project study area that was entered. The report must be updated if the project study area, location, or the type of project changes.
- 2. This is a preliminary environmental screening tool. It is not a substitute for the potential knowledge gained by having a biologist conduct a field survey of the project area. This review is also not intended to replace environmental consultation (including federal consultation under the Endangered Species Act), land use permitting, or the Departments review of site-specific projects.
- 3. The Departments Heritage Data Management System (HDMS) data is not intended to include potential distribution of special status species. Arizona is large and diverse with plants, animals, and environmental conditions that are ever changing. Consequently, many areas may contain species that biologists do not know about or species previously noted in a particular area may no longer occur there. HDMS data contains information about species occurrences that have actually been reported to the Department. Not all of Arizona has been surveyed for special status species, and surveys that have been conducted have varied greatly in scope and intensity. Such surveys may reveal previously undocumented population of species of special concern.
- 4. HabiMap Arizona data, specifically Species of Greatest Conservation Need (SGCN) under our State Wildlife Action Plan (SWAP) and Species of Economic and Recreational Importance (SERI), represent potential species distribution models for the State of Arizona which are subject to ongoing change, modification and refinement. The status of a wildlife resource can change quickly, and the availability of new data will necessitate a refined assessment.

#### Locations Accuracy Disclaimer:

Project locations are assumed to be both precise and accurate for the purposes of environmental review. The creator/owner of the Project Review Report is solely responsible for the project location and thus the correctness of the Project Review Report content.



#### Arizona Game and Fish Department Project ID: HGIS-09892

#### **Recommendations Disclaimer:**

- 1. The Department is interested in the conservation of all fish and wildlife resources, including those species listed in this report and those that may have not been documented within the project vicinity as well as other game and nongame wildlife.
- Recommendations have been made by the Department, under authority of Arizona Revised Statutes Title 5 (Amusements and Sports), 17 (Game and Fish), and 28 (Transportation).
- Potential impacts to fish and wildlife resources may be minimized or avoided by the recommendations generated from information submitted for your proposed project. These recommendations are preliminary in scope, designed to provide early considerations on all species of wildlife.
- Making this information directly available does not substitute for the Department's review of project proposals, and should not decrease our opportunity to review and evaluate additional project information and/or new project proposals.
- 5. Further coordination with the Department requires the submittal of this Environmental Review Report with a cover letter and project plans or documentation that includes project narrative, acreage to be impacted, how construction or project activity(s) are to be accomplished, and project locality information (including site map). Once AGFD had received the information, please allow 30 days for completion of project reviews. Send requests to:

Project Evaluation Program, Habitat Branch Arizona Game and Fish Department 5000 West Carefree Highway Phoenix, Arizona 85086-5000 Phone Number: (623) 236-7660 Fax Number: (623) 236-7366 Or

PEP@azofd.gov

 Coordination may also be necessary under the National Environmental Policy Act (NEPA) and/or Endangered Species Act (ESA). Site specific recommendations may be proposed during further NEPA/ESA analysis or through coordination with affected agencies

SONORAN

DESERT

USA Topo Basemap With Locator Map 1248 ARTIONA\_M Saite 0 0.2250.45 0.9 1.35 1.8 Miles Project Boundary Buffered Project Boundary COLORADO Project Size (acres): 32.56 PLATEAU Lat/Long (DD): 31.3419 / -109.5048 County(s): Cochise AGFD Region(s): Tucson Township/Range(s): T24S, R28E

Douglas Municipal Airport Runway Reconstruction

USGS Quad(s): DOUGLAS; EAST OF DOUGLAS

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS: FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap





Douglas Municipal Airport Runway Reconstruction



#### Arizona Game and Fish Department Project ID: HGIS-09892



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#### Arizona Game and Fish Department Project ID: HGIS-09892

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#### Special Status Species Documented within 2 Miles of Project Vicinity

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Aquila chrysaetos	Golden Eagle	BGA		S		1B
Eumops perotis californicus	Greater Western Bonneted Bat	SC		S		1B
Heloderma suspectum	Gila Monster					1A
Phrynosoma cornutum	Texas Horned Lizard	SC				

Note: Status code definitions can be found at https://www.azgfd.com/wildlife/planning/wildlifeguidelines/statusdefinitions/

#### No Special Areas Detected

No special areas were detected within the project vicinity.

Species of Greatest Conservation Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Aix sponsa	Wood Duck	FW3	03F3	DLIVI	NFL	1B
Anazilia violiceps	Violet-crowned Hummingbird		S			1B
1.2			S	6		
Ammodramus savannarum ammolegus	Arizona grasshopper sparrow		5	S		1B
Ammodramus savannarum perpallidus	Western Grasshopper Sparrow					1B
Ammospermophilus harrisii	Harris' Antelope Squirrel					1B
Anthus spragueii	Sprague's Pipit	SC				1A
Athene cunicularia hypugaea	Western Burrowing Owl	SC	S	S		1B
Buteo regalis	Ferruginous Hawk	SC		S		1B
Buteo swainsoni	Swainson's Hawk					1C
Callipepla squamata	Scaled Quail					1C
Calypte costae	Costa's Hummingbird					1C
Chordeiles minor	Common Nighthawk					1B
Coluber bilineatus	Sonoran Whipsnake					1B
Corynorhinus townsendii pallescens	Pale Townsend's Big-eared Bat	SC	S	S		1B
Cynanthus latirostris	Broad-billed Hummingbird		S			1B
Cynomys Iudovicianus	Black-tailed Prairie Dog	CCA		S		1A
Dipodomys spectabilis	Banner-tailed Kangaroo Rat			S		1B
Euderma maculatum	Spotted Bat	SC	S	S		1B
Eumops perotis californicus	Greater Western Bonneted Bat	SC		S		1B
Falco peregrinus anatum	American Peregrine Falcon	SC	S	S		1A
Haliaeetus leucocephalus	Bald Eagle	SC, BGA	S	S		1A
Heloderma suspectum	Gila Monster					1A
Hypsiglena sp. nov.	Hooded Nightsnake					1B
Incilius alvarius	Sonoran Desert Toad					1B
Lampropeltis nigrita	Mexican Black Kingsnake					1B

#### Arizona Game and Fish Department Project ID: HGIS-09892

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Species of Greatest Conservation Need Predicted within the Project Vicinity based on Predicted Range Models

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Lasiurus blossevillii	Western Red Bat		S			1B
Lasiurus xanthinus	Western Yellow Bat		S			1B
Leopardus pardalis	Ocelot	LE				1A
Leptonycteris yerbabuenae	Lesser Long-nosed Bat	SC				1A
Lepus alleni	Antelope Jackrabbit					1B
Lithobates blairi	Plains Leopard Frog			S		1A
Melanerpes uropygialis	Gila Woodpecker					1B
Melospiza lincolnii	Lincoln's Sparrow					1B
Melozone aberti	Abert's Towhee		S			1B
Micrathene whitneyi	Elf Owl					1C
Micruroides euryxanthus	Sonoran Coralsnake					1B
Myiarchus tyrannulus	Brown-crested Flycatcher					1C
Myotis occultus	Arizona Myotis	SC		S		1B
Myotis velifer	Cave Myotis	SC		S		1B
Myotis yumanensis	Yuma Myotis	SC				1B
Notiosorex cockrumi	Cockrum's Desert Shrew					1B
Nyctinomops femorosaccus	Pocketed Free-tailed Bat					1B
Oreoscoptes montanus	Sage Thrasher					1C
Oreothlypis luciae	Lucy's Warbler					1C
Panthera onca	Jaguar	LE				1A
Passerculus sandwichensis	Savannah Sparrow					1B
Peromyscus nasutus	Northern Rock Deermouse					1B
Peucaea botterii arizonae	Arizona Botteri's Sparrow			S		1B
Phrynosoma solare	Regal Horned Lizard					1B
Setophaga petechia	Yellow Warbler					1B
Sphyrapicus nuchalis	Red-naped Sapsucker					1C
Spizella atrogularis	Black-chinned Sparrow					1C
Spizella breweri	Brewer's Sparrow					1C
Sturnella magna	Eastern Meadowlark					1C
Tadarida brasiliensis	Brazilian Free-tailed Bat					1B
Vireo bellii arizonae	Arizona Bell's Vireo					1B
Vulpes macrotis	Kit Fox	No Status				1B

#### Species of Economic and Recreation Importance Predicted within the Project Vicinity

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Callipepla gambelii	Gambel's Quail					
Callipepla squamata	Scaled Quail					1C
Odocoileus hemionus	Mule Deer					
Patagioenas fasciata	Band-tailed Pigeon					1C

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#### Arizona Game and Fish Department Project ID: HGIS-09892

#### project\_report\_douglas\_municipal\_airport\_r\_33019\_34077.pdf Review Date: 10/23/2019 09:11:29 AM

#### Species of Economic and Recreation Importance Predicted within the Project Vicinity

Scientific Name	Common Name	FWS	USFS	BLM	NPL	SGCN
Pecari tajacu	Javelina					
Puma concolor	Mountain Lion					
Zenaida asiatica	White-winged Dove					
Zenaida macroura	Mourning Dove					

## Project Type: Transportation & Infrastructure, Airports, Maintenance on existing runways, taxiways, terminals/concourses, runway obstruction clearance, facilities, beacons, control towers, storm water run off controls, de-icing, fuel depots

#### Project Type Recommendations:

Consider impacts of outdoor lighting on wildlife and develop measures or alternatives that can be taken to increase human safety while minimizing potential impacts to wildlife. Conduct wildlife surveys to determine species within project area, and evaluate proposed activities based on species biology and natural history to determine if artificial lighting may disrupt behavior patterns or habitat use. Use only the minimum amount of light needed for safety. Narrow spectrum bulbs should be used as often as possible to lower the range of species affected by lighting. All lighting should be shielded, canted, or cut to ensure that light reaches only areas needing illumination.

Consider tower designs and/or modifications that reduce or eliminate impacts to migratory birds (i.e. free standing, minimally lighted structures).

Follow manufacturer's recommended application guidelines for all chemical treatments. The U.S. Fish and Wildlife Service, Region 2, Environmental Contaminants Program has a reference document that serves as their regional pesticide recommendations for protecting wildlife and fisheries resources, titled "Recommended Protection Measures for Pesticide Applications in Region 2 of the USFWS",

http://www.fws.gov/southwest/es/arizona/Documents/ECReports/RPMPA\_2007.pdf. The Department recommends that direct or indirect impacts to sensitive species and their forage base from the application of chemical pesticides or herbicides be considered carefully.

Minimization and mitigation of impacts to wildlife and fish species due to changes in water quality, quantity, chemistry, temperature, and alteration to flow regimes (timing, magnitude, duration, and frequency of floods) should be evaluated. Minimize impacts to springs, in-stream flow, and consider irrigation improvements to decrease water use. If dredging is a project component, consider timing of the project in order to minimize impacts to spawning fish and other aquatic species (include spawning seasons), and to reduce spread of exotic invasive species. We recommend early direct coordination with Project Evaluation Program for projects that could impact water resources, wetlands, streams, springs, and/or riparian habitats.

Based on the project type entered, coordination with Arizona Department of Environmental Quality may be required (<u>http://www.azdec.gov/</u>).

Arizona Game and Fish Department Project ID: HGIS-09892 project\_report\_douglas\_municipal\_airport\_r\_33019\_34077.pdf Review Date: 10/23/2019 09:11:29 AM

#### Project Location and/or Species Recommendations:

HDMS records indicate that one or more **Listed**, **Proposed**, **or Candidate** species or **Critical Habitat** (Designated or Proposed) have been documented in the vicinity of your project. The Endangered Species Act (ESA) gives the US Fish and Wildlife Service (USFWS) regulatory authority over all federally listed species. Please contact USFWS Ecological Services Offices at <u>http://www.fws.gov/southwest/es/arizona/</u> or:

#### **Phoenix Main Office**

9828 North 31st Avenue #C3 Phoenix, AZ 85051-2517 Phone: 602-242-0210 Fax: 602-242-2513 
 Tucson Sub-Office

 201 N. Bonita Suite 141

 Tucson, AZ 85745

 Phone: 520-670-6144

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#### Flagstaff Sub-Office

SW Forest Science Complex 2500 S. Pine Knoll Dr. Flagstaff, AZ 86001 Phone: 928-556-2157 Fax: 928-556-2121





## **Arizona Department of Transportation**

## **Environmental Planning**

## **Preliminary Initial Site Assessment**

City of Douglas Municipal Airport Runway 03-21 Reconstruction

> December 17, 2019 Submittal Number 1

*All information contained in this document is the property of ADOT. ADOT approval is required prior to reproduction or distribution.*
### **Preliminary Initial Site Assessment**

FOR City of Douglas Municipal Airport Runway 03-21 Reconstruction

## **Prepared for:**

Arizona Department of Transportation Environmental Planning 1611 West Jackson Street, EM02 Phoenix, Arizona 85007

## Prepared by:

Kimley-Horn and Associates, Inc. 7740 N. 16<sup>th</sup> Street, Suite 300 Phoenix, AZ 85020 Kimley-Horn Project No. 098249005

December 17, 2019

*All information contained in this document is the property of ADOT. ADOT approval is required prior to reproduction or distribution.* 

Preliminary Initial Site Assessment (PISA)				
ADOT Project No. E0S2B-01C	Project Name: City of Douglas Municipal Airport Runway 03-21			
Reconstruction				
Section I: Site Location Information				
Assessor Parcel No.: A portion of 410-01-005	ADOT Parcel No.: N/A			
According to ADOT, other than minor patching and	According to ADOT, other than minor patching and crack sealing, the last major rehabilitation of Runway 03-21, which			

According to ADOT, other than minor patching and crack sealing, the last major rehabilitation of Ruhway 03-21, which was a 5-inch overlay, was conducted in 1997. The Airport was last inspected in April 2017. At that time, the Ruhway and the turnaround taxiway was given a Pavement Condition Index (PCI) rating of 27. ADOT recommends major rehabilitation, such as a thick overlay or reconstruction when a ruhway's PCI drops below 55. Notes from that inspection include significant quantities of low-, medium-, and high-severity longitudinal and transverse cracking, bulging areas of pavement, and high potential of Foreign Object Debris (FOD). Airport maintenance staff regularly remove large pieces of dislocated pavement, and Airport users have identified that rehabilitation of Ruhway 03-21 is the most important facility need at DGL.

This project includes the reconstruction of Runway 03-21 (5,760 feet x 75 feet); including a portion of three taxiway connectors (to the Runway Safety Area (RSA)) and the Runway 03 taxiway turnaround. Work will include the complete removal of the existing asphalt pavement, removal (possible reuse) of the existing aggregate base course, compaction of the existing subgrade soils; placement and compaction of aggregate base course (new or reused), placement and compaction of a new asphalt surface course. The project will also include the replacement of existing runway edge lights.

Township, Range, Section

Township 24 South, Range 28 East, Sections 16 and 21

Location

Latitude/Longitude (Decimal Degrees)

Northern Project Limits: 31.348633/-109.499124

Southern Project Limits: 31.335803/-109.510698

<u>Site Characteristics</u>: Past Land Use (Sources: Army Map Service, U.S. Air Force, U.S. Geological Survey, U.S. Department of Agriculture, and Google Earth)

<u>1958</u>

**Subject Property**: The runway portion of the project limits is undisturbed native desert and dirt runway, the proposed project staging area is dirt taxiway and native desert, and the proposed project access portion of the project limits is dirt runway, native desert, and a graded area near the airport hangar.

Adjacent Property: The airport hangar is visible approximately 450 north of the project limits. The dirt runway and dirt taxiways are visible beyond the project limits. The majority of land adjacent to the runway portion of the project limits is disturbed and the areas adjacent to the northern portion of the project limits is native desert. Additionally, Airport Road is visible to the west of the project limits as a dirt road and Geronimo Trail is visible north of the project limits as a paved road.

<u>1971</u>

Subject Property: No visible changes from the 1958 aerial photograph.

Adjacent Property: An area measuring approximately 100 acres in area and north of the project limits has been cleared and grubbed and an additional structure is visible near the airport hangar. Additionally, a portion of Airport Road has been graded from Geronimo Trail south to the airport entrance and dirt cross streets are visible beyond Airport Road. Six single-family residences are also visible beyond the dirt portion of Airport Road west of the Airport.

<u>1979</u>

**Subject Property**: Runway 03-21 is now visible as a dirt runway within the project limits. The previously mentioned dirt taxiways have been improved and additional taxiway is visible to accommodate the additional runway. A circular and painted concrete structure surrounding a wind cone is visible within the proposed project access portion of the project limits.

Adjacent Property: Three airplanes and additional structures are visible near the airport hangar. Additional dirt road is visible through the airport parcel. A single-family residential development is now visible west of the Airport beyond

Airport Road and the majority of the previously mentioned dirt road cross streets have been paved. The U.S./Mexico border road is visible south of the Airport.

#### <u>1984</u>

**Subject Property**: Runway 03-21 has now been paved. It appears that the original dirt runway is no longer in use. The east/west taxiway has also been paved.

Adjacent Property: Five airplanes are now visible north of the project limits near the airport hangar. Additional single-family residences are visible beyond Airport Road west of the Airport.

#### <u>1996</u>

**Subject Property**: A portion of the project limits has been paved for connection to an adjacent paved taxiway. No additional notable changes from the 1984 aerial photograph.

**Adjacent Property**: A paved taxiway is now visible adjacent to Runway 03-21 and the project limits. What appears to be a paved airport apron and hangar are visible west of Runway 03-21 and north of the proposed project staging area. Additionally, two aboveground storage tanks (ASTs) are visible approximately 270 feet north of the proposed project access road.

#### <u>2003</u>

**Subject Property**: A turn-around area at the southern portion of Runway 03-21 and the project limits has been paved. No additional changes from the 1996 aerial photograph.

Adjacent Property: An additional paved airport apron is visible adjacent to the proposed project staging area and an area measuring approximately 20 acres has been cleared, grubbed, and graded at the southeast corner of the Airport Road and Geronimo Trail intersection. It appears that a border fence has been constructed along the U.S./Mexico border and dirt roads are visible adjacent to the fence.

### <u>2007</u>

Subject Property: No notable changes from the 2003 aerial photograph.

Adjacent Property: The Airport Park has been constructed at previously mentioned graded area at the southeast corner of Airport Road and Geronimo Trail and included a grass area, a paved perimeter road, a paved parking lot, and structures. Single-family residences have been constructed at the northwest corner of the Airport Road and Geronimo Trail intersection.

#### <u>2010</u>

Subject Property: No notable changes from the 2007 aerial photograph.

Adjacent Property: Paved roadway and grading for development is visible at the northwest corner of the Airport Road and Geronimo Trail intersection.

<u>2013</u>

No notable changes from the 2010 aerial photograph.

<u>2015</u>

Subject Property: No notable changes from the 2013 aerial photograph.

Adjacent Property: The paved taxiway adjacent to Runway 03-21 has been repaved. The previously mentioned fuel ASTs remain in their current configurations to this day.

<u>2018</u>

No notable changes from the 2015 aerial photograph

Summary of Historical Land Use based on Aerial Photograph Review/Field Reconnaissance

Summar	Summary of mistorical Land Use based on Aeria i notograph Review/Field Reconnaissance						
Agricultu	re: N/A	Residential: N/A	Commercial: N/A	Industrial: N/A	Natural: N/A		
Vehicle		Chemical	UST System: Historic use of gasoline USTs in association with the				
Maintenance:		Storage: Unknown	airport. Two 10,000-gallon fuel ASTs in association with the Airport.				
Unknown	Unknown						
Septic Sy	Septic System: N/A Water/Dry Well: N/A Pesticide/Herbicide: N/A						
Other:	The Airpor over the ye land at the	t has been reconfigured ov ars. Land west of the airp	ver the years and Ruport transitioned from	, dirt taxiways, native desert, unway 03-21 and an adjacent n native desert to residential a border fence. The majority of	taxiway were paved development and the		

#### Section II: Site Surface Conditions

The project limits consist of the paved Runway 03-21, graded areas for airport roads and access, and native desert. A portion of the proposed project staging area is currently being used for staging associated with the ongoing border fence construction south of the Airport.

construction south	1					
Dimensions:	Length: 1.1 miles	Width: Varies	Area: 32.6 Acres			
Topography:	The project area varies from approx	The project area varies from approximately 4,140 to 4,170 feet above mean sea level (MSL) and				
	slopes to the west.					
Geology:	The following soils occur within th	e project area: Blakeney-Luck	yhills complex, 3 to 15 percent			
	slopes. <sup>1</sup> Information from the Ariz	ona Department of Water Re	sources (ADWR) website was			
	reviewed for water wells located	within one mile of the site.	According to well registration			
	records, groundwater exists at greater than 323 feet below ground surface. <sup>2</sup> However,					
	groundwater levels can fluctuate due to seasonal variations, groundwater withdrawal or					
	injection, and other factors.					
Vegetation:	No stained or stressed vegetation w	as observed during field recon	naissance.			
Structures/	Structures associated with border	fence construction at the A	Airport are located within the			
Improvements:	proposed project staging area and in	nclude a storage hangar, severa	al metal storage containers, and			
	a water refill station. Additionally,	construction equipment was be	eing stored within the proposed			
	project staging area and included a grader, roller, forklifts, a rubber-tire dozer, and a repair					
	truck. During field reconnaissance, a portion of the proposed project staging area had been					
	cleared, grubbed, and stabilized wit	h gravel.				
Utilities:	Utility impacts are not anticipated f	or this project.				
~						

#### Section III: <u>Results of Database Review</u>

Concerns on project: None from database review (Complete Section IV)

Kimley-Horn retained the services of GeoSearch, a third-party database search company, to conduct a search of regulated facilities within and in the immediate vicinity (1/8-mile) of the project limits. Information provided by GeoSearch, is conveyed as reported and Kimley-Horn assumes no responsibility for the inaccuracies of the data reported by GeoSearch or the various local, state, and federal databases from which GeoSearch compiles data. Kimley-Horn's review of the referenced databases also considered the potential or likelihood of contamination from adjoining and nearby sites. To evaluate which of the adjoining and nearby sites identified in the regulatory database report present an environmental risk to the subject property, Kimley-Horn considered the following criteria:

- The type of database on which the adjoining/nearby property is identified.
- The topographic position of the property relative to the subject property.
- The direction and distance of the identified facility from the subject property.
- Local soil conditions in the subject property area.
- The known and/or inferred groundwater flow direction and depth in the subject property area.
- The status of the respective regulatory agency-required investigations and/or cleanup associated with the identified facility.
- Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, ditches, etc.) located between the identified site and the subject property

Only those sites that are judged to present a potential environmental risk to the subject property and/or warrant

No concerns on project: X

<sup>&</sup>lt;sup>1</sup> U.S. Department of Agriculture, Natural Resources Conservation Service. October 23, 2019. Custom Soil Resource Report for Cochise County, Arizona, Douglas-Tombstone Part.

<sup>&</sup>lt;sup>2</sup> Arizona Department of Water Resources (ADWR), <u>https://gisweb2.azwater.gov/gwsi</u>, accessed 10/23/19

additional clarification are further evaluated. Using the referenced criteria and based upon a review of readily available information contained within the regulatory database report, Kimley-Horn did not identify adjoining (i.e., bordering) or nearby sites (e.g., properties within a 1/8-mile radius) listed in the regulatory database report that were judged to present a potential environmental risk to the subject property.

#### Section IV: Environmental Concerns

Observed: None

Suspected: The project scope includes the removal of runway asphalt and does not include paint obliteration; therefore, testing for asbestos containing materials (ACM) or lead-based paint (LBP) will not be required.

Unusual Conditions: No unusual conditions were identified during the course of this PISA.

#### Section V: <u>Recommendations</u>

High Priority Phase 1: N/A Medium Priority Phase 1: N/A Low Priority Phase 1: N/A Aerial Photograph Review: N/A Additional testing required: N/A

#### Section VI: <u>Comments</u>

Kimley-Horn has conducted a PISA for the project area. Assessments made during this PISA represent a reasonable attempt to identify environmental concerns for the project area. There is always the possibility that environmental concerns have escaped detection due to the limitations of this PISA, the incompleteness or inaccuracy of governmental records, or the presence of undetected and unreported environmental incidents.

#### **Environmental Commitments**

Mitigation measures will not be required.

C li i	JEFF HEMPHILL, EP In Training		0.11.11.1.11		
Consultant	Kimley-Horn and	Cianatana	Off Hmphill	Data	12/17/2010
Name	Associates, Inc.	Signature	100 1	Date	12/17/2019
	JENNIFER		$\sim 10^{-1}$		
~ .	SIMPKINS, EP				
Consultant	Kimley-Horn and		Jen Light		
Name	Associates, Inc.	Signature	7101	Date	12/17/2019
ADOT					
Name		Signature		Date	

Attachments: State Map Vicinity Map Ground Photographs GeoSearch Radius Report



City of Douglas Municipal Airport Runway 03-21 Reconstruction Figure 1. State Map

Aerial Source/Date: ESRI 2017



Douglas, Cochise County, AZ

Douglas Municipal Airport Runway 03-21 Reconstruction

Figure 2. Vicinity Map





View from the Douglas Municipal Airport entrance and proposed project access road looking east.



Photo No. 2

View from the proposed project access road looking south.

#### **Ground Photographs**

Douglas Municipal Airport Runway 03-21 Reconstruction Douglas, Cochise County, Arizona





View from the northwest corner of the proposed project staging area looking east depicting U.S./Mexico border fence construction staging.



Photo No. 4

View from the central portion of the proposed project staging area looking south depicting U.S./Mexico border fence construction staging.

**Ground Photographs** 

Douglas Municipal Airport Runway 03-21 Reconstruction Douglas, Cochise County, Arizona





View from the northeast corner of the proposed project staging area looking south.



Photo No. 6

View from the proposed project access road and Runway 03-21 looking southwest.

**Ground Photographs** 

Douglas Municipal Airport Runway 03-21 Reconstruction Douglas, Cochise County, Arizona





View from the southwest corner of the project limits looking east toward the Runway 03-21 turnaround.



Photo No. 8

View from the southwestern project limits looking northeast along Runway 03-21.

**Ground Photographs** 

Douglas Municipal Airport Runway 03-21 Reconstruction Douglas, Cochise County, Arizona





View from the project limits looking northeast along Runway 03-21.



Photo No. 10

View from the project limits looking southwest along Runway 03-21.

Ground Photographs

Douglas Municipal Airport Runway 03-21 Reconstruction Douglas, Cochise County, Arizona





View from the intersection of the airport taxiway and Runway 03-21 looking northeast along Runway 03-21.



Photo No. 12

View from the intersection of the airport taxiway and Runway 03-21 looking northeast along Runway 03-21.

#### **Ground Photographs**

Douglas Municipal Airport Runway 03-21 Reconstruction Douglas, Cochise County, Arizona





View from the project limits looking northeast along Runway 03-21.

Photo No. 14



View from the project limits looking southwest along Runway 03-21.

**Ground Photographs** Douglas Municipal Airport Runway 03-21 Reconstruction Douglas, Cochise County, Arizona





View from the airport taxiway at the northeast corner of the project limits looking southeast toward Runway 03-21.





View from the northeast corner of the project limits looking southwest along Runway 03-21.

### **Ground Photographs**

Douglas Municipal Airport Runway 03-21 Reconstruction Douglas, Cochise County, Arizona



# **Radius Report**

GeoLens by GeoSearch

Target Property: Douglas Municipal Airport Runway Reconstruction 3200 E 10st St. Douglas, County, Arizona 85607

Prepared For:

Kimley-Horn and Associates-Phoenix

Order #: 134775 Job #: 320999 Project #: 098249005 Date: 10/25/2019

GeoSearch www.geo-search.com 888-396-0042

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This report was designed by GeoSearch to meet or exceed the records search requirements of the All Appropriate Inquiries Rule (40 CFR §312.26) and the current version of the ASTM International E1527, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process or, if applicable, the custom requirements requested by the entity that ordered this report. The records and databases of records used to compile this report were collected from various federal, state and local governmental entities. It is the goal of GeoSearch to meet or exceed the 40 CFR§312.26 and E1527 requirements for updating records by using the best available technology. GeoSearch contacts the appropriate governmental entities on a recurring basis. Depending on the frequency with which a record source or database of records is updated by the governmental entity, the data used to prepare this report may be updated monthly, quarterly, semi-annually, or annually.

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## Target Property Summary

### Target Property Information

Douglas Municipal Airport Runway Reconstruction 3200 E 10st St. Douglas, Arizona 85607

#### Coordinates

Area centroid (-109.50551, 31.3419449) 4,156 feet above sea level

#### USGS Quadrangle

Douglas, AZ East Of Douglas, AZ

### Geographic Coverage Information

*County/Parish:* Cochise (AZ) *ZipCode(s):* Douglas AZ: 85607



### FEDERAL LISTING

#### Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
BROWNFIELDS MANAGEMENT SYSTEM	<u>BF</u>	0	0	0.1250
DELISTED NATIONAL PRIORITIES LIST	DNPL	0	0	0.1250
EMERGENCY RESPONSE NOTIFICATION SYSTEM	<u>ERNSAZ</u>	0	0	0.1250
FEDERAL ENGINEERING INSTITUTIONAL CONTROL SITES	<u>EC</u>	0	0	0.1250
LAND USE CONTROL INFORMATION SYSTEM	LUCIS	0	0	0.1250
NATIONAL PRIORITIES LIST	<u>NPL</u>	0	0	0.1250
NO LONGER REGULATED RCRA CORRECTIVE ACTION FACILITIES	<u>NLRRCRAC</u>	0	0	0.1250
NO LONGER REGULATED RCRA NON-CORRACTS TSD FACILITIES	<u>NLRRCRAT</u>	0	0	0.1250
PROPOSED NATIONAL PRIORITIES LIST	<u>PNPL</u>	0	0	0.1250
RCRA SITES WITH CONTROLS	<u>RCRASC</u>	0	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - CORRECTIVE ACTION FACILITIES	RCRAC	0	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - GENERATOR	RCRAGR09	0	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - NON-CORRACTS TREATMENT, STORAGE & DISPOSAL FACILITIES	<u>RCRAT</u>	0	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - NON- GENERATOR	RCRANGR09	0	0	0.1250
RESOURCE CONSERVATION & RECOVERY ACT - SUBJECT TO CORRECTIVE ACTION FACILITIES	<u>RCRASUBC</u>	0	0	0.1250
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM	<u>SEMS</u>	0	0	0.1250
SUPERFUND ENTERPRISE MANAGEMENT SYSTEM ARCHIVED SITE INVENTORY	<u>SEMSARCH</u>	0	0	0.1250
		- -		
SUB-TOTAL		0	0	

#### Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AEROMETRIC INFORMATION RETRIEVAL SYSTEM / AIR FACILITY SUBSYSTEM	<u>AIRSAFS</u>	0	0	0.1250
ALTERNATIVE FUELING STATIONS	<u>ALTFUELS</u>	0	0	0.1250
BIENNIAL REPORTING SYSTEM	<u>BRS</u>	0	0	0.1250
CERCLIS LIENS	<u>SFLIENS</u>	0	0	0.1250
CLANDESTINE DRUG LABORATORY LOCATIONS	<u>CDL</u>	0	0	0.1250
DEPARTMENT OF DEFENSE SITES	DOD	0	0	0.1250
EPA DOCKET DATA	DOCKETS	0	0	0.1250



## Database Summary

Database	Acronym	Locatable	Uniocatable	Search Radius (miles)
ENFORCEMENT AND COMPLIANCE HISTORY INFORMATION	ECHOR09	0	0	0.1250
FEMA OWNED STORAGE TANKS	FEMAUST	0	0	0.1250
FACILITY REGISTRY SYSTEM	FRSAZ	2	0	0.1250
FORMER MILITARY NIKE MISSILE SITES	NMS	0	0	0.1250
FORMERLY USED DEFENSE SITES	FUDS	0	0	0.1250
FORMERLY UTILIZED SITES REMEDIAL ACTION PROGRAM	FUSRAP	0	0	0.1250
HAZARDOUS MATERIALS INCIDENT REPORTING SYSTEM	HMIRSR09	0	0	0.1250
HISTORICAL GAS STATIONS	<u>HISTPST</u>	0	0	0.1250
INTEGRATED COMPLIANCE INFORMATION SYSTEM (FORMERLY DOCKETS)	<u>ICIS</u>	0	0	0.1250
INTEGRATED COMPLIANCE INFORMATION SYSTEM DRYCLEANERS	ICISCLEANERS	0	0	0.1250
INTEGRATED COMPLIANCE INFORMATION SYSTEM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	ICISNPDES	0	0	0.1250
MATERIAL LICENSING TRACKING SYSTEM	<u>MLTS</u>	0	0	0.1250
MINE SAFETY AND HEALTH ADMINISTRATION MASTER INDEX FILE	<u>MSHA</u>	0	0	0.1250
MINERAL RESOURCE DATA SYSTEM	<u>MRDS</u>	0	0	0.1250
NATIONAL COMPLIANCE DATABASE SYSTEM	<u>NCDBI</u>	0	0	0.1250
NATIONAL COMPLIANCE DATABASE SYSTEM	<u>NCDBC</u>	0	0	0.1250
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	NPDESR09	0	0	0.1250
OPEN DUMP INVENTORY	<u>ODI</u>	0	0	0.1250
PCB ACTIVITY DATABASE SYSTEM	<u>PADS</u>	0	0	0.1250
PERMIT COMPLIANCE SYSTEM	PCSR09	0	0	0.1250
RECORD OF DECISION SYSTEM	<u>RODS</u>	0	0	0.1250
SEMS LIEN ON PROPERTY	<u>SEMSLIENS</u>	0	0	0.1250
SECTION SEVEN TRACKING SYSTEM	<u>SSTS</u>	0	0	0.1250
SURFACE MINING CONTROL AND RECLAMATION ACT SITES	<u>SMCRA</u>	0	0	0.1250
TOXIC SUBSTANCE CONTROL ACT INVENTORY	<u>TSCA</u>	0	0	0.1250
TOXICS RELEASE INVENTORY	<u>TRI</u>	0	0	0.1250
URANIUM MILL TAILINGS RADIATION CONTROL ACT SITES	<u>USUMTRCA</u>	0	0	0.1250
SUB-TOTAL		2	0	

### STATE (AZ) LISTING

#### Standard Environmental Records

				Search Radius
Database	Acronym	Locatable	Unlocatable	(miles)
ABOVEGROUND STORAGE TANKS	<u>AST</u>	0	0	0.1250
ARIZONA SUPERFUND PROGRAM LIST	<u>ASPL</u>	0	0	0.1250
CLOSED SOLID WASTE FACILITIES	<u>CLOSEDSWF</u>	0	0	0.1250
ENVIRONMENTAL USE RESTRICTION SITES	<u>EUR</u>	0	0	0.1250
LEAKING UNDERGROUND STORAGE TANKS	<u>LUST</u>	1	0	0.1250
OPEN LANDFILL FACILITIES	<u>OPENLF</u>	0	0	0.1250
STATE FIRE MARSHAL ABOVEGROUND STORAGE TANKS	<u>AST2</u>	0	0	0.1250
STATE HAZARDOUS WASTE SITES	<u>SHWS</u>	0	0	0.1250
UNDERGROUND STORAGE TANKS	<u>UST</u>	1	0	0.1250
VOLUNTARY REMEDIATION PROGRAM AND BROWNFIELDS PROGRAM SITES	<u>VRPBF</u>	0	0	0.1250
WATER QUALITY ASSURANCE REVOLVING FUND PROGRAM REGISTRY	<u>WQARF</u>	0	0	0.1250
SUB-TOTAL		2	0	

#### Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
AIR QUALITY PERMITS DATABASE	AIRS	0	0	0.1250
BIOHAZARDOUS MEDICAL WASTE FACILITIES	<u>BIOMW</u>	0	0	0.1250
CLANDESTINE DRUG LABORATORIES	<u>CDL</u>	0	0	0.1250
DRY CLEANERS INVENTORY	<u>CLEANERS</u>	0	0	0.1250
REGISTERED DRYWELLS	DRYWELLS	0	0	0.1250
SPILLS DATABASE	<u>SPILLS</u>	0	0	0.1250
WASTEWATER FACILITY LIST	<u>WWFAC</u>	0	0	0.1250
SUB-TOTAL		0	0	

### TRIBAL LISTING

#### Standard Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
LEAKING UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	LUSTR09	0	0	0.1250
OPEN DUMP INVENTORY ON TRIBAL LANDS	<u>ODINDIAN</u>	0	0	0.1250
UNDERGROUND STORAGE TANKS ON TRIBAL LANDS	<u>USTR09</u>	0	0	0.1250
SUB-TOTAL		0	0	

#### Additional Environmental Records

Database	Acronym	Locatable	Unlocatable	Search Radius (miles)
INDIAN RESERVATIONS	INDIANRES	0	0	0.1250
SUB-TOTAL		0	0	
		Ū	Ū	iI

TOTAL 4 0
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### FEDERAL LISTING

Standard environmental records are displayed in **bold**.

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRSAFS	0.1250	0	0	NS	NS	NS	NS	0
ALTFUELS	0.1250	0	0	NS	NS	NS	NS	0
BF	0.1250	0	0	NS	NS	NS	NS	0
BRS	0.1250	0	0	NS	NS	NS	NS	0
CDL	0.1250	0	0	NS	NS	NS	NS	0
DNPL	0.1250	о	0	NS	NS	NS	NS	0
DOCKETS	0.1250	0	0	NS	NS	NS	NS	0
DOD	0.1250	0	0	NS	NS	NS	NS	0
EC	0.1250	о	0	NS	NS	NS	NS	0
ECHOR09	0.1250	0	0	NS	NS	NS	NS	0
ERNSAZ	0.1250	о	0	NS	NS	NS	NS	0
FEMAUST	0.1250	0	0	NS	NS	NS	NS	0
FRSAZ	0.1250	2	0	NS	NS	NS	NS	2
FUDS	0.1250	0	0	NS	NS	NS	NS	0
FUSRAP	0.1250	0	0	NS	NS	NS	NS	0
HISTPST	0.1250	0	0	NS	NS	NS	NS	0
HMIRSR09	0.1250	0	0	NS	NS	NS	NS	0
ICIS	0.1250	0	0	NS	NS	NS	NS	0
ICISCLEANERS	0.1250	0	0	NS	NS	NS	NS	0
ICISNPDES	0.1250	0	0	NS	NS	NS	NS	0
LUCIS	0.1250	0	0	NS	NS	NS	NS	0
MLTS	0.1250	0	0	NS	NS	NS	NS	0
MRDS	0.1250	0	0	NS	NS	NS	NS	0
MSHA	0.1250	0	0	NS	NS	NS	NS	0
NCDBC	0.1250	0	0	NS	NS	NS	NS	0
NCDBI	0.1250	0	0	NS	NS	NS	NS	0
NLRRCRAC	0.1250	0	0	NS	NS	NS	NS	0
NLRRCRAT	0.1250	0	0	NS	NS	NS	NS	0
NMS	0.1250	0	0	NS	NS	NS	NS	0
NPDESR09	0.1250	0	0	NS	NS	NS	NS	0
NPL	0.1250	0	о	NS	NS	NS	NS	0
ODI	0.1250	0	0	NS	NS	NS	NS	0
PADS	0.1250	0	0	NS	NS	NS	NS	0
PCSR09	0.1250	0	0	NS	NS	NS	NS	0
PNPL	0.1250	о	0	NS	NS	NS	NS	о



Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
RCRAC	0.1250	0	0	NS	NS	NS	NS	0
RCRAGR09	0.1250	0	0	NS	NS	NS	NS	0
RCRANGR09	0.1250	0	0	NS	NS	NS	NS	0
RCRASC	0.1250	0	0	NS	NS	NS	NS	0
RCRASUBC	0.1250	0	0	NS	NS	NS	NS	0
RCRAT	0.1250	0	0	NS	NS	NS	NS	0
RODS	0.1250	0	0	NS	NS	NS	NS	0
SEMS	0.1250	0	0	NS	NS	NS	NS	0
SEMSARCH	0.1250	0	0	NS	NS	NS	NS	0
SEMSLIENS	0.1250	0	0	NS	NS	NS	NS	0
SFLIENS	0.1250	0	0	NS	NS	NS	NS	0
SMCRA	0.1250	0	0	NS	NS	NS	NS	0
SSTS	0.1250	0	0	NS	NS	NS	NS	0
TRI	0.1250	0	0	NS	NS	NS	NS	0
TSCA	0.1250	0	0	NS	NS	NS	NS	0
USUMTRCA	0.1250	0	0	NS	NS	NS	NS	0
SUB-TOTAL		2	0	0	0	0	0	2



### STATE (AZ) LISTING

Standard environmental records are displayed in **bold**.

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
AIRS	0.1250	0	0	NS	NS	NS	NS	0
ASPL	0.1250	0	0	NS	NS	NS	NS	0
AST	0.1250	0	0	NS	NS	NS	NS	0
AST2	0.1250	о	0	NS	NS	NS	NS	0
BIOMW	0.1250	0	0	NS	NS	NS	NS	0
CDL	0.1250	0	0	NS	NS	NS	NS	0
CLEANERS	0.1250	0	0	NS	NS	NS	NS	0
CLOSEDSWF	0.1250	о	0	NS	NS	NS	NS	0
DRYWELLS	0.1250	0	0	NS	NS	NS	NS	0
EUR	0.1250	0	0	NS	NS	NS	NS	0
LUST	0.1250	1	0	NS	NS	NS	NS	1
OPENLF	0.1250	о	0	NS	NS	NS	NS	0
SHWS	0.1250	о	0	NS	NS	NS	NS	0
SPILLS	0.1250	0	0	NS	NS	NS	NS	0
UST	0.1250	1	0	NS	NS	NS	NS	1
VRPBF	0.1250	о	о	NS	NS	NS	NS	0
WQARF	0.1250	о	0	NS	NS	NS	NS	0
WWFAC	0.1250	0	0	NS	NS	NS	NS	0
SUB-TOTAL		2	0	0	0	0	0	2

GeoSearch www.geo-search.com 888-396-0042

### TRIBAL LISTING

Standard environmental records are displayed in **bold**.

Acronym	Search Radius (miles)	TP/AP (0 - 0.02)	1/8 Mile (> TP/AP)	1/4 Mile (> 1/8)	1/2 Mile (> 1/4)	1 Mile (> 1/2)	> 1 Mile	Total
INDIANRES	0.1250	0	0	NS	NS	NS	NS	0
LUSTR09	0.1250	0	0	NS	NS	NS	NS	0
ODINDIAN	0.1250	0	0	NS	NS	NS	NS	о
USTR09	0.1250	0	0	NS	NS	NS	NS	о
SUB-TOTAL		0	0	0	0	0	0	0

TOTAL	4	0	0	0	0	0	4

NOTES: NS = NOT SEARCHED TP/AP = TARGET PROPERTY/ADJACENT PROPERTY











## Located Sites Summary

NOTE: Standard environmental records are displayed in **bold**.

Map ID#	Database Name	Site ID#	Relative Elevation	Distance From Site	Site Name	Address	PAGE #
1	FRSAZ	110039469205	Higher (4,163 ft.)	TP	DOUGLAS MUNICIPAL AIRPORT	3200 E 10TH ST, DOUGLAS, AZ 85607	<u>16</u>
<u>1</u>	FRSAZ	110041540464	Higher (4,163 ft.)	TP	DOUGLAS MUNI	UNKNOWN, DOUGLAS, AZ 85607	<u>17</u>
<u>1</u>	LUST	0-001810	Higher (4,163 ft.)	TP	DOUGLAS MUNICIPAL AIRPORT	3200 E 10TH ST, DOUGLAS, AZ 85607	<u>18</u>
1	UST	0-001810	Higher (4,163 ft.)	TP	DOUGLAS MUNICIPAL AIRPORT	3200 E 10TH ST, DOUGLAS, AZ 85607	<u>19</u>



## **Elevation Summary**

Elevations are collected from the USGS 3D Elevation Program 1/3 arc-second (approximately 10 meters) layer hosted at the NGTOC. .

#### Target Property Elevation: 4156 ft.

NOTE: Standard environmental records are displayed in **bold**.

#### EQUAL/HIGHER ELEVATION

Map ID#	Database Name	Elevation	Site Name	Address	Page #
1	FRSAZ	4,163 ft.	DOUGLAS MUNICIPAL AIRPORT	3200 E 10TH ST, DOUGLAS, AZ 85607	<u>16</u>
1	FRSAZ	4,163 ft.	DOUGLAS MUNI	UNKNOWN, DOUGLAS, AZ 85607	<u>17</u>
<u>1</u>	LUST	4,163 ft.	DOUGLAS MUNICIPAL AIRPORT	3200 E 10TH ST, DOUGLAS, AZ 85607	<u>18</u>
<u>1</u>	UST	4,163 ft.	DOUGLAS MUNICIPAL AIRPORT	3200 E 10TH ST, DOUGLAS, AZ 85607	<u>19</u>

#### LOWER ELEVATION

No Records Found



## Facility Registry System (FRSAZ)

MAP ID# 1Distance from Property: 0 mi. (0 ft.) XElevation: 4,163 ft. (Higher than TP)
FACILITY INFORMATION
REGISTRY ID: 110039469205
NAME: DOUGLAS MUNICIPAL AIRPORT
LOCATION ADDRESS: 3200 E 10TH ST
DOUGLAS, AZ 85607-2745
COUNTY: COCHISE
EPA REGION: 09
FEDERAL FACILITY: NOT REPORTED
TRIBAL LAND: NOT REPORTED
ALTERNATIVE NAME/S:
DOUGLAS MUNICIPAL AIRPORT
PROGRAM/S LISTED FOR THIS FACILITY
AZURITE - ARIZON UNIFIED REPOSITORY FOR INFORMATIONAL TRACKING OF THE ENVIRONMENT
STANDARD INDUSTRIAL CLASSIFICATION/S (SIC) NO SIC DATA REPORTED
NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS) NO NAICS DATA REPORTED

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## Facility Registry System (FRSAZ)

MAP ID# 1Distance from Property: 0 mi. (0 ft.) XElevation: 4,163 ft. (Higher than TP)
FACILITY INFORMATION
REGISTRY ID: 110041540464
NAME: DOUGLAS MUNI
LOCATION ADDRESS: UNKNOWN
DOUGLAS, AZ 85607
COUNTY: COCHISE
EPA REGION: 09
FEDERAL FACILITY: NOT REPORTED
TRIBAL LAND: NOT REPORTED
ALTERNATIVE NAME/S:
DOUGLAS MUNI
PROGRAM/S LISTED FOR THIS FACILITY
EIS - EIS
STANDARD INDUSTRIAL CLASSIFICATION/S (SIC) NO SIC DATA REPORTED
NORTH AMERICAN INDUSTRY CLASSIFICATION/S (NAICS)
48811 - AIRPORT OPERATIONS
48811 - AIRPORT OPERATIONS

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# Leaking Underground Storage Tanks (LUST)

<u>MAP ID# 1</u>

Distance from Property: 0 mi. (0 ft.) X Elevation: 4,163 ft. (Higher than TP)

GEOSEARCH ID: 0-001810 FAC ID: 0-001810 NAME: DOUGLAS MUNICIPAL AIRPORT ADDRESS: 3200 E 10TH ST DOUGLAS, AZ 85607

LATEST ACTIVITY DETAILS

### NONE REPORTED

ADEQ Priority codes are used to describe the status, site conditions and general details about leaking ust cases. The values identify whether a case is open or closed and if it has impacted soil and/or groundwater. For closed release cases (look for a "5" in the code), the values also indicate risk-based closure levels.

### PAST ACTIVITY DETAILS

LUST ID: 2434.01 DATE LAST REPORTED IN AGENCY FILE: 11/07/2016 LUST STATUS: FALSE ALARM LUST REPORTED DATE: 8/18/1992 DATE CLOSED: NOT REPORTED PRIORITY: 5S - CLOSED CASE FOR SUSPECTED RELEASE (FALSE ALARM)

Back to Report Summary



# Underground Storage Tanks (UST)

Distance from Property: 0 mi. (0 ft.) X **MAP ID# 1** Elevation: 4,163 ft. (Higher than TP) **FACILITY INFORMATION** GEOSEARCH ID: 0-001810 FACILITY ID: 0-001810 NAME: DOUGLAS MUNICIPAL AIRPORT ADDRESS: 3200 E 10TH ST DOUGLAS, AZ 85607 OWNER NAME: CITY OF DOUGLAS **FACILITY DETAILS** TANK ID: 1 DATE CLOSED: 8/17/1992 DATE INSTALLED: 1/1/1980 CLOSURE TYPE: REMOVAL SUBSTANCE STORED: GASOLINE TANK STATUS: PERM CLOSURE CAPACITY: 12000 GAL. COMPARTMENT: COMPARTMENT A TANK CONSTRUCTION: NOT REPORTED TANK MATERIAL: ASPHALT COATED OR BARE STEEL COMPARTMENT: COMPARTMENT A PIPE TYPE: NOT REPORTED PIPE MATERIAL TYPE: NOT REPORTED PIPE CONSTRUCTION: NOT REPORTED

TANK ID: 2 DATE CLOSED: 3/19/1990 DATE INSTALLED: 1/1/1970 CLOSURE TYPE: REMOVAL SUBSTANCE STORED: GASOLINE TANK STATUS: PERM CLOSURE CAPACITY: 6000 GAL. COMPARTMENT: COMPARTMENT A TANK CONSTRUCTION: NOT REPORTED TANK MATERIAL: ASPHALT COATED OR BARE STEEL COMPARTMENT: COMPARTMENT A PIPE TYPE: NOT REPORTED PIPE MATERIAL TYPE: NOT REPORTED PIPE CONSTRUCTION: NOT REPORTED

TANK ID: 3 DATE CLOSED: 3/19/1990 DATE INSTALLED: 1/1/1970 CLOSURE TYPE: REMOVAL

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# Underground Storage Tanks (UST)

SUBSTANCE STORED: GASOLINE TANK STATUS: PERM CLOSURE CAPACITY: 6000 GAL. COMPARTMENT: COMPARTMENT A TANK CONSTRUCTION: NOT REPORTED TANK MATERIAL: ASPHALT COATED OR BARE STEEL COMPARTMENT: COMPARTMENT A PIPE TYPE: NOT REPORTED PIPE MATERIAL TYPE: NOT REPORTED PIPE CONSTRUCTION: NOT REPORTED

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TANK ID: 4 DATE CLOSED: 12/6/1989 DATE INSTALLED: 1/1/1961 CLOSURE TYPE: REMOVAL SUBSTANCE STORED: GASOLINE TANK STATUS: PERM CLOSURE CAPACITY: 2000 GAL. COMPARTMENT: COMPARTMENT A TANK CONSTRUCTION: NOT REPORTED TANK MATERIAL: ASPHALT COATED OR BARE STEEL COMPARTMENT: COMPARTMENT A PIPE TYPE: NOT REPORTED PIPE MATERIAL TYPE: NOT REPORTED PIPE CONSTRUCTION: NOT REPORTED

TANK ID: 5 DATE CLOSED: 12/6/1989 DATE INSTALLED: 1/1/1961 CLOSURE TYPE: REMOVAL SUBSTANCE STORED: GASOLINE TANK STATUS: PERM CLOSURE CAPACITY: 1000 GAL. COMPARTMENT: COMPARTMENT A TANK CONSTRUCTION: NOT REPORTED TANK MATERIAL: ASPHALT COATED OR BARE STEEL COMPARTMENT: COMPARTMENT A PIPE TYPE: NOT REPORTED PIPE MATERIAL TYPE: NOT REPORTED PIPE MATERIAL TYPE: NOT REPORTED PIPE CONSTRUCTION: NOT REPORTED

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# Unlocated Sites Summary

This list contains sites that could not be mapped due to limited or incomplete address information.

No Records Found



#### AIRSAFS

Aerometric Information Retrieval System / Air Facility Subsystem

VERSION DATE: 10/20/14

The United States Environmental Protection Agency (EPA) modified the Aerometric Information Retrieval System (AIRS) to a database that exclusively tracks the compliance of stationary sources of air pollution with EPA regulations: the Air Facility Subsystem (AFS). Since this change in 2001, the management of the AIRS/AFS database was assigned to EPA's Office of Enforcement and Compliance Assurance.

# ALTFUELS Alternative Fueling Stations

VERSION DATE: 03/01/19

Nationwide list of alternative fueling stations made available by the U.S. Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Bio-diesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE).

#### BF

Brownfields Management System

### VERSION DATE: 07/10/19

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. The United States Environmental Protection Agency maintains this database to track activities in the various brown field grant programs including grantee assessment, site cleanup and site redevelopment. This database included tribal brownfield sites.

#### BRS Biennial Reporting System

VERSION DATE: 12/31/15

The United States Environmental Protection Agency (EPA), in cooperation with the States, biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The Biennial Report captures detailed data on the generation of hazardous waste from large quantity generators and data on waste management practices from treatment, storage and disposal facilities. Currently, the EPA states that data collected between 1991 and 1997 was originally a part of the defunct Biennial Reporting System and is now incorporated into the RCRAInfo data system.

CDL	Clandestine Drug Laboratory Locations
VERSION DATE: 05/06/19	

The U.S. Department of Justice ("the Department") provides this information 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. The Department does not establish, implement, enforce, or certify compliance with clean-up or remediation standards for contaminated sites; the public should contact a state or local health department or environmental protection agency for that information.

#### DNPL

**Delisted National Priorities List** 

#### VERSION DATE: 08/13/19

This database includes sites from the United States Environmental Protection Agency's Final National Priorities List (NPL) where remedies have proven to be satisfactory or sites where the original analyses were inaccurate, and the site is no longer appropriate for inclusion on the NPL, and final publication in the Federal Register has occurred.

#### DOCKETS

EPA Docket Data

VERSION DATE: 12/22/05

The United States Environmental Protection Agency Docket data lists Civil Case Defendants, filing dates as far back as 1971, laws broken including section, violations that occurred, pollutants involved, penalties assessed and superfund awards by facility and location. Please refer to ICIS database as source of current data.

#### DOD Department of Defense Sites

VERSION DATE: 12/01/14

This information originates from the National Atlas of the United States Federal Lands data, which includes lands owned or administered by the Federal government. Army DOD, Army Corps of Engineers DOD, Air Force DOD, Navy DOD and Marine DOD areas of 640 acres or more are included.

EC

Federal Engineering Institutional Control Sites

VERSION DATE: 06/11/19

This database includes site locations where Engineering and/or Institutional Controls have been identified as part of a selected remedy for the site as defined by United States Environmental Protection Agency official remedy decision documents. The data displays remedy component information for Superfund decision documents issued in fiscal years 1982-2017, and it includes final and deleted NPL sites as well as sites with a Superfund Alternative Approach (SAA) agreement in place. A site listing does not indicate that the institutional and engineering controls are currently in place nor will be in place once the remedy is complete; it only indicates that the decision to include either of them in the remedy is documented as of the completed date of the document. Institutional controls are actions, such as legal controls, that help minimize the potential for human exposure to contamination by ensuring appropriate land or resource use. Engineering controls include caps, barriers, or other device engineering to prevent access, exposure, or continued migration of contamination.

#### ECHOR09

Enforcement and Compliance History Information

VERSION DATE: 03/09/19

The U.S. Environmental Protection Agency's Enforcement and Compliance History Online (ECHO) database, provides compliance and enforcement information for facilities nationwide. This database includes facilities regulated as Clean Air Act stationary sources, Clean Water Act direct dischargers, Resource Conservation and Recovery Act hazardous waste handlers, Safe Drinking Water Act public water systems along with other data, such as Toxics Release Inventory releases.

ERNSAZ	Emergency Response Notification System

VERSION DATE: 10/06/19

This National Response Center database contains data on reported releases of oil, chemical, radiological, biological, and/or etiological discharges into the environment anywhere in the United States and its territories. The data comes from spill reports made to the U.S. Environmental Protection Agency, U.S. Coast Guard, the National Response Center and/or the U.S. Department of Transportation.

FEMAUST	FEMA Owned Storage Tanks
VERSION DATE: 12/01/16	

This is a listing of FEMA owned underground and aboveground storage tank sites. For security reasons, address information is not released to the public according to the U.S. Department of Homeland Security.

### FRSAZ

Facility Registry System

VERSION DATE: 04/05/19

The United States Environmental Protection Agency's Office of Environmental Information (OEI) developed the Facility Registry System (FRS) as the centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. The Facility Registry System replaced the Facility Index System or FINDS database.

#### FUDS

Formerly Used Defense Sites

VERSION DATE: 06/01/15

The Formerly Used Defense Sites (FUDS) inventory includes properties previously owned by or leased to the United States and under Secretary of Defense Jurisdiction, as well as Munitions Response Areas (MRAs). The remediation of these properties is the responsibility of the Department of Defense. This data is provided by the U.S. Army Corps of Engineers (USACE), the boundaries/polygon data are based on preliminary findings and not all properties currently have polygon data available. DISCLAIMER: This data represents the results of data collection/processing for a specific USACE activity and is in no way to be considered comprehensive or to be used in any legal or official capacity as presented on this site. While the USACE has made a reasonable effort to insure the accuracy of the maps and associated data, it should be explicitly noted that USACE makes no

warranty, representation or guaranty, either expressed or implied, as to the content, sequence, accuracy, timeliness or completeness of any of the data provided herein. For additional information on Formerly Used Defense Sites please contact the USACE Public Affairs Office at (202) 528-4285.

### FUSRAP

Formerly Utilized Sites Remedial Action Program

### VERSION DATE: 03/04/17

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

#### HISTPST

Historical Gas Stations

#### VERSION DATE: NR

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

#### HMIRSR09

Hazardous Materials Incident Reporting System

VERSION DATE: 04/14/19

The HMIRS database contains unintentional hazardous materials release information reported to the U.S. Department of Transportation located in EPA Region 9. This region includes the following states: Arizona, California, Hawaii, Nevada, and the territories of Guam and American Samoa.

### ICIS

Integrated Compliance Information System (formerly DOCKETS)

VERSION DATE: 09/21/19

ICIS is a case activity tracking and management system for civil, judicial, and administrative federal Environmental Protection Agency enforcement cases. ICIS contains information on federal administrative and federal judicial cases under the following environmental statutes: the Clean Air Act, the Clean Water Act, the Resource Conservation and Recovery Act, the Emergency Planning and Community Right-to-Know Act - Section 313, the Toxic Substances Control Act, the Federal Insecticide, Fungicide, and Rodenticide Act, the Comprehensive Environmental Response, Compensation, and Liability Act, the Safe Drinking Water Act, and the Marine Protection, Research, and Sanctuaries Act.

#### ICISCLEANERS

Integrated Compliance Information System Drycleaners

VERSION DATE: 09/21/19

This is a listing of drycleaner facilities from the Integrated Compliance Information System (ICIS). The U.S.



Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments. The following Primary SIC Codes are included in this data: 7211, 7212, 7213, 7215, 7216, 7217, 7218, and/or 7219; the following Primary NAICS Codes are included in this data: 812320, 812331, and/or 812332.

#### ICISNPDES

Integrated Compliance Information System National Pollutant Discharge Elimination System

### VERSION DATE: 07/09/17

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. This database is provided by the U.S. Environmental Protection Agency.

LUCIS	Land Use Control Information System
VERSION DATE: 09/01/06	

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

MLTS	Material Licensing Tracking System
VERSION DATE: 06/29/17	

MLTS is a list of approximately 8,100 sites which have or use radioactive materials subject to the United States Nuclear Regulatory Commission (NRC) licensing requirements. Disclaimer: Due to agency regulations and policies, this database contains applicant/licensee location information which may or may not be related to the physical location per MLTS site.

### MRDS Mineral Resource Data System

VERSION DATE: 03/15/16

MRDS (Mineral Resource Data System) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS.

MSHA	Mine Safety and Health Administration Master Index File

VERSION DATE: 03/15/19

The Mine dataset lists all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970. It includes such information as the current status of each mine (Active, Abandoned, NonProducing, etc.), the current owner and operating company, commodity codes and physical attributes of the mine. Mine ID is the unique key for this data. This information is provided by the United States Department of Labor - Mine Safety and Health

Administration (MSHA).

#### NCDBC

National Compliance Database System

# VERSION DATE: 09/01/06

NCDB is the historical repository for national data from the United States Environmental Protection Agency's ten regional and Headquarters FIFRA/TSCA Tracking System (FTTS). Data collected in the regional FTTS was transferred to NCDB to support the need for monitoring national performance of the following programs: Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), Toxic Substance Control Act (TSCA), Emergency Planning and Right-to-Know Act, Section 313 (EPCRA), Asbestos Hazard Emergency Response (AHERA). NCDBC contains administrative case listings. Since October 2006, the EPA has been entering new case information into the Integrated Compliance Information System (ICIS). Please refer to ICIS as the current system of record for this data.

#### NCDBI

National Compliance Database System

#### VERSION DATE: 09/01/06

NCDB is the historical repository for national data from the United States Environmental Protection Agency's ten regional and Headquarters FIFRA/TSCA Tracking System (FTTS). Data collected in the regional FTTS was transferred to NCDB to support the need for monitoring national performance of the following programs: Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), Toxic Substance Control Act (TSCA), Emergency Planning and Right-to-Know Act, Section 313 (EPCRA), Asbestos Hazard Emergency Response (AHERA). NCDBI contains facility inspection information. Since October 2006, the EPA has been entering new inspection information into the Integrated Compliance Information System (ICIS). Please refer to ICIS as the current system of record for this data.

#### NLRRCRAC

No Longer Regulated RCRA Corrective Action Facilities

VERSION DATE: 08/19/19

This database includes RCRA Corrective Action facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements.

#### NLRRCRAT

No Longer Regulated RCRA Non-CORRACTS TSD Facilities

VERSION DATE: 08/19/19

This database includes RCRA Non-Corrective Action TSD facilities that are no longer regulated by the United States Environmental Protection Agency or do not meet other RCRA reporting requirements. This listing includes facilities that formerly treated, stored or disposed of hazardous waste.

#### NMS

Former Military Nike Missile Sites

VERSION DATE: 12/01/84

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material a disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

#### NPDESR09

National Pollutant Discharge Elimination System

### VERSION DATE: 04/01/07

Authorized by the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. The NPDES database was collected from the U.S. Environmental Protection Agency (EPA) from December 2002 through April 2007. Refer to the PCS and/or ICIS-NPDES database as source of current data. This database includes permitted facilities located in EPA Region 9. This region includes the following states: Arizona, California, Hawaii, Nevada, and the territories of Guam and American Samoa.

#### NPL National Priorities List

VERSION DATE: 08/13/19

This database includes United States Environmental Protection Agency (EPA) National Priorities List sites that fall under the EPA's Superfund program, established to fund the cleanup of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action.

#### Open Dump Inventory

VERSION DATE: 06/01/85

The open dump inventory was published by the United States Environmental Protection Agency. An "open dump" is defined as a facility or site where solid waste is disposed of which is not a sanitary landfill which meets the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944) and which is not a facility for disposal of hazardous waste. This inventory has not been updated since June 1985.

### PADS

ODI

PCB Activity Database System

VERSION DATE: 09/14/18

PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of Polychlorinated Biphenyls (PCB) who are required to notify the U.S. Environmental Protection Agency of such activities.



#### PCSR09

Permit Compliance System

VERSION DATE: 08/01/12

The Permit Compliance System is used in tracking enforcement status and permit compliance of facilities controlled by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act and is maintained by the United States Environmental Protection Agency's Office of Compliance. PCS is designed to support the NPDES program at the state, regional, and national levels. This database includes permitted facilities located in EPA Region 9. This region includes the following states: Arizona, California, Hawaii, Nevada, and the territories of Guam and American Samoa. PCS has been modernized, and no longer exists. National Pollutant Discharge Elimination System (ICIS-NPDES) data can now be found in Integrated Compliance Information System (ICIS).

#### PNPL

Proposed National Priorities List

VERSION DATE: 08/13/19

This database contains sites proposed to be included on the National Priorities List (NPL) in the Federal Register. The United States Environmental Protection Agency investigates these sites to determine if they may present long-term threats to public health or the environment.

### RCRAC

Resource Conservation & Recovery Act - Corrective Action Facilities

VERSION DATE: 08/19/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with corrective action activity.

#### RCRAGR09

Resource Conservation & Recovery Act - Generator

VERSION DATE: 08/19/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities currently generating hazardous waste. EPA Region 9 includes the following states: Arizona, California, Hawaii, Nevada, and the territories of Guam and American Samoa.

#### RCRANGR09

Resource Conservation & Recovery Act - Non-Generator

VERSION DATE: 08/19/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities classified as non-generators. Non-Generators do not presently generate hazardous waste. EPA Region 9 includes the following states: Arizona, California, Hawaii, Nevada, and the territories of Guam and American Samoa.

#### RCRASC

RCRA Sites with Controls

VERSION DATE: 09/12/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities with institutional controls in place.

#### RCRASUBC

Resource Conservation & Recovery Act - Subject to Corrective Action Facilities

VERSION DATE: 08/19/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities subject to corrective actions.

#### RCRAT

Resource Conservation & Recovery Act - Non-CORRACTS Treatment, Storage & Disposal Facilities

#### VERSION DATE: 08/19/19

The Resource Conservation and Recovery Act (RCRA) gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances. This listing refers to facilities recognized as hazardous waste treatment, storage, and disposal sites (TSD).

### RODS

Record of Decision System

VERSION DATE: 08/13/19

These decision documents maintained by the United States Environmental Protection Agency describe the chosen remedy for NPL (Superfund) site remediation. They also include site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, and scope and role of response action.

SEMS	Superfund Enterprise Management System

# VERSION DATE: 08/15/19

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs.

### SEMSARCH

Superfund Enterprise Management System Archived Site Inventory

VERSION DATE: 08/15/19

The U.S. Environmental Protection Agency's (EPA) Superfund Enterprise Management System Archived Site Inventory (List 8R Archived) replaced the CERCLIS NFRAP reporting system in 2015. This listing reflects sites at which the EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program.

SEMSLIENS	SEMS Lien on Property
VERSION DATE: 08/13/18	

The U.S. Environmental Protection Agency's (EPA) Office of Solid Waste and Emergency Response, Office of Superfund Remediation and Technology Innovation (OSRTI), has implemented The Superfund Enterprise Management System (SEMS), formerly known as CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) to track and report on clean-up and enforcement activities taking place at Superfund sites. SEMS represents a joint development and ongoing collaboration between Superfund's Remedial, Removal, Federal Facilities, Enforcement and Emergency Response programs. This is a listing of SEMS sites with a lien on the property.

### SFLIENS

CERCLIS Liens

VERSION DATE: 06/08/12

A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which United States Environmental Protection Agency 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. This database contains those CERCLIS sites where the Lien on Property action is complete. Please refer to the SEMSLIENS database as source of current data.

#### SMCRA

Surface Mining Control and Reclamation Act Sites

### VERSION DATE: 03/19/19

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (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.

### SSTS

Section Seven Tracking System

### VERSION DATE: 02/01/17

The United States Environmental Protection Agency tracks information on pesticide establishments through the Section Seven Tracking System (SSTS). SSTS records the registration of new establishments and records pesticide production at each establishment. The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) requires that production of pesticides or devices be conducted in a registered pesticide-producing or device-producing establishment. ("Production" includes formulation, packaging, repackaging, and relabeling.)

#### TRI

Toxics Release Inventory

#### VERSION DATE: 12/31/17

The Toxics Release Inventory, provided by the United States Environmental Protection Agency, includes data on toxic chemical releases and waste management activities from certain industries as well as federal and tribal facilities. This inventory contains information about the types and amounts of toxic chemicals that are released each year to the air, water, and land as well as information on the quantities of toxic chemicals sent to other facilities for further waste management.

#### TSCA

Toxic Substance Control Act Inventory

### VERSION DATE: 12/31/12

The Toxic Substances Control Act (TSCA) was enacted in 1976 to ensure that chemicals manufactured, imported, processed, or distributed in commerce, or used or disposed of in the United States do not pose any unreasonable risks to human health or the environment. TSCA section 8(b) provides the United States Environmental Protection Agency authority to "compile, keep current, and publish a list of each chemical substance that is manufactured or processed in the United States." This TSCA Chemical Substance Inventory contains non-confidential information on the production amount of toxic chemicals from each manufacturer and importer site.



# USUMTRCA

Uranium Mill Tailings Radiation Control Act Sites

VERSION DATE: 03/04/17

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).



#### AIRS

Air Quality Permits Database

VERSION DATE: 11/06/18

The Arizona Department of Environmental Quality Air Quality Division provides this list of operating air quality permits of industrial facilities that emit significant quantities of air pollutants to ensure that the emissions do not harm public health or cause significant deterioration in air quality. Title V and non Title V facilities are included in this database. Major, minor, synthetic major, and synthetic minor emissions are included in this database.

ASPL	Arizona Superfund Program List

VERSION DATE: 08/14/19

The Arizona Superfund Program List (ASPL) is comprised of the following elements: Water Quality Assurance Revolving Fund (WQARF) Registry sites, EPA National Priorities List (NPL) sites and Department of Defense (DOD) sites requiring Arizona Department of Environmental Quality (ADEQ) Superfund Programs Section oversight. Prior to July 5, 2000, the ADEQ Superfund Programs Section published a list of sites entitled "Arizona CERCLIS Information Data System" (ACIDS). The ACIDS list has been replaced as an active list by the ASPL.

# AST

Aboveground Storage Tanks

VERSION DATE: 06/05/19

The Arizona Department of Environmental Quality (ADEQ) maintains this listing of aboveground storage tanks (AST) for which they issue exemption certificates for. This list includes open, closed, not validated, and returned mail AST certificates. ADEQ does not regulate the installation, operation, maintenance, or closure of aboveground storage tanks.

#### AST2

State Fire Marshal Aboveground Storage Tanks

# VERSION DATE: 09/23/19

The Arizona Office of the State Fire Marshal, Department of Forestry and Fire Management, maintains this list of aboveground storage tank permits.

#### BIOMW

**Biohazardous Medical Waste Facilities** 

### VERSION DATE: 07/28/19

This list of biohazardous medical waste facilities is maintained by the Arizona Department of Environmental Quality (ADEQ) Waste Programs Division. This list includes: Biohazardous Medical Waste Disposal Facilities, Biohazardous Medical Waste Transfer Facilities, Biohazardous Medical Waste Storage & Transfer Facilities, Registered Biohazardous Medical Waste Transporters, and Registered Alternative Biohazardous Medical Waste Treatment Technologies. "Medical waste" means any solid waste that is generated in diagnosing, treating or immunizing a human being or animal or in any research relating to that diagnosis, treatment or immunization, or in producing or testing biologicals, and includes discarded drugs. "Biohazardous medical waste" is medical waste that is composed of one or more of the following: cultures and stocks; human blood and blood products;

human pathologic wastes; medical sharps; and research animal wastes. The Arizona Department of Environmental Quality adopted specific rules for handling biohazardous medical waste and discarded drugs. Non-biohazardous medical waste is handled as solid waste.

CDL Clandestine Drug Laboratories

VERSION DATE: 12/08/17

The Arizona Department of Environmental Quality provides this statewide list of drug labs. This list contains both remediated and unremediated sites.

CLEANERS

**Dry Cleaners Inventory** 

VERSION DATE: 06/19/18

The Dry Cleaner Inventory Project was provided by Miller Brooks Environmental, Inc. for the Arizona Department of Environmental Quality to assist in the identification, prioritization, investigation and remediation of sites that have released hazardous substances into the lands and waters of the state. This Inventory includes the following types of dry cleaner sites: Sites with Known Contamination (sites with documented contamination, or a history of release and/or prior site characterization and remedial activities); Sites with High Potential for Release (sites with multiple owners, sites that have been in operation more than 10 years, sites that specifically operated between 1935 and 1984, and high-volume sites); and Sites with Low Potential for Release (sites that have been in operation only after 1985, or prior to 1934, sites that "broker" cleaning services to other facilities, and sites that operate primarily as a coin-operated laundry facility). The agency no longer updates this list as of 2016.

#### CLOSEDSWF

**Closed Solid Waste Facilities** 

VERSION DATE: 03/13/18

This list of closed solid waste facilities is provided by the Arizona Department of Environmental Quality Waste Programs Division.

DRYWELLS Registered Drywells

This listing of registered drywells is maintained by the Arizona Department of Environmental Quality (ADEQ) Water Quality Division. As of May 2018, ADEQ stopped accepting paper forms and will no longer be updating this list.

EUR	Environmental Use Restriction Sites
VERSION DATE: 06/07/19	

The Arizona Department of Environmental Quality (ADEQ) maintains this inventory of Declaration of Environmental Use Restriction (DEUR) and Voluntary Environmental Mitigation Use Restriction (VEMUR) sites. Active, released, modified, and cancelled DEUR/VEMUR sites are included in this list. A Declaration of



Environmental Use Restriction (DEUR) is a restrictive land use covenant that is required when a property owner elects to use an institutional control or engineering control as a means to meet remediation goals. A Voluntary Environmental Mitigation Use Restriction (VEMUR) is a restrictive land use covenant that, prior to July 18, 2000, was required when a property owner elected to remediate the property to non-residential uses. Effective July 18, 2000, the DEUR replaced the VEMUR as a restrictive use covenant. Please note: Arizona Revised Statute §39-121.03(A) authorizes state agencies to charge for the reproduction of the public record based on the "value of the reproduction on the commercial market as best determined by the public body" when a records request is for a "commercial purpose" as defined by the statute. ADEQ has determined that requests for this data list meet the requirements of a commercial purpose. For this reason, GeoSearch is limited in obtaining frequent updates based on the associated costs.

#### LUST

Leaking Underground Storage Tanks

### VERSION DATE: 07/10/19

This list of confirmed and closed leaking underground storage tanks is maintained by The Arizona Department of Environmental Quality (ADEQ). The ADEQ Underground Storage Tank (UST) Program defines a leaking underground storage tank (LUST) as a UST that leaked some petroleum or hazardous substances into the soil or ground water. All leaking USTs require an investigation and possible cleanup. Generally, releases from regulated USTs are the responsibility of the ADEQ UST Corrective Action Section. ADEQ does not regulate releases from unregulated USTs or above ground storage tanks. Please note this disclaimer from ADEQ: "Details provided are based on documentation submitted to ADEQ. ADEQ recommends a review of the physical case files through our records center to verify information."

# OPENLF Open Landfill Facilities

VERSION DATE: 04/18/19

This database of open landfill facilities is provided by the Arizona Department of Environmental Quality (ADEQ) Waste Programs Division's Solid Waste Management Section. This list includes the following types of open landfills: Not ADEQ Regulated Landfills, Non-Municipal Solid Waste Landfills, Private Landfills, and Municipal Solid Waste Landfills.

SHWS State Hazardous Waste Sites

The Arizona CERCLIS Information Data System (ACIDS) list was used by the Arizona Department of Environmental Quality Superfund Programs Section (SPS) prior to July 2000. The ACIDS list consists of locations subject to investigations concerning possible contamination of soil, surface water, or groundwater under the State Water Quality Assurance Revolving Fund (WQARF) and Federal CERCLA programs. The ACIDS list has been archived and is no longer being distributed or updated. The ACIDS list has been replaced by the Arizona Superfund Program List (ASPL).



Spills Database

VERSION DATE: 11/15/01

The Arizona Department of Environmental Quality's (ADEQ) Emergency Response Unit works to minimize injuries, deaths, property damage and threats to human health and the environment from chemical spills, fires, explosions and other pollutant releases by stabilizing emergency incidents through its role as the environmental support agency of the state of Arizona Emergency Response and Recovery Plan. The ADEQ began tracking spills in this database in 1984, and last updated the database on November 15, 2001. For records of incidents after this date, see the National Response Center database (ERNS).

#### UST

SPILLS

Underground Storage Tanks

#### VERSION DATE: 07/10/19

This list of underground storage tanks (UST) is maintained by the Arizona Department of Environmental Quality (ADEQ). The ADEQ Underground Storage Tank Program regulates the majority of USTs in Arizona with the exception of those in Indian Country. Nearly all USTs at these sites contain petroleum. These sites include marketers who sell gasoline to the public (such as service stations and convenience stores) and non-marketers who use tanks solely for their own needs (such as fleet service operators and local governments). Please note this disclaimer from ADEQ: "Details provided are based on documentation submitted to ADEQ. ADEQ recommends a review of the physical case files through our records center to verify information."

#### VRPBF

Voluntary Remediation Program and Brownfields Program Sites

VERSION DATE: 02/08/19

The Waste Programs Division of the Arizona Department of Environmental Quality (ADEQ) maintains this listing of Voluntary Remediation Program (VRP) and Brownfields Program sites. As stated by the ADEQ, Brownfields remediation project sites are required to apply for, and be accepted into the VRP. Oversight by the VRP helps ensure the Brownfields remediation projects protect human health and the environment. Through VRP, interested parties investigate and clean up soil and groundwater contaminated sites in cooperation with ADEQ. ADEQ reviews proposed voluntary remedial actions and provides a determination of no further action after successful site cleanup. Active, closed, denied, open, terminated, transferred, and withdrawn sites are all included in this list. Please note: Arizona Revised Statute §39-121.03(A) authorizes state agencies to charge for the reproduction of the public record based on the "value of the reproduction on the commercial market as best determined by the public body" when a records request is for a "commercial purpose" as defined by the statute. ADEQ has determined that requests for this data list meet the requirements of a commercial purpose. For this reason, GeoSearch is limited in obtaining frequent updates based on the associated costs.

#### WQARF

Water Quality Assurance Revolving Fund Program Registry

VERSION DATE: 08/28/19

This list of water quality assurance revolving fund (WQARF) sites is maintained by the Arizona Department of Environmental Quality (ADEQ). The ADEQ states that a WQARF site is defined in statute as the "geographical"



areal extent of contamination" (Arizona Revised Statutes § 49-281.14). The Remedial Projects Section uses the Arizona WQARF, created under the Environmental Quality Act of 1986, to support hazardous substance cleanup efforts in the state. ADEQ established a registry of sites in Arizona where groundwater and/or soil contamination is present and qualify for funds from the WQARF. Sites on the WQARF Registry are evaluated and given a score based on the type and location of contaminant(s) and the possibility for human exposure to the contaminant(s) present. The scores are used to help determine relative risk at the site, but do not necessarily indicate a direct risk to people or the environment. The maximum score a site can receive is 120.

#### WWFAC

Wastewater Facility List

### VERSION DATE: 12/11/18

This list of waste water facilities is maintained by the Arizona Department of Environmental Quality Water Quality Division. The Arizona Department of Environmental Quality (ADEQ) uses water quality permits to safeguard Arizona's waters that are affected by pollutants that come from an identifiable source. These permits protect groundwater and surface water quality by controlling discharges from domestic wastewater treatment plants, mining operations, industrial facilities, on-site sewage disposal systems, direct reuse of reclaimed water and stormwater discharges associated with industrial activity as well as discharges to dry wells.



#### INDIANRES

Indian Reservations

VERSION DATE: 01/01/00

The Department of Interior and Bureau of Indian Affairs maintains this database that includes American Indian Reservations, off-reservation trust lands, public domain allotments, Alaska Native Regional Corporations and Recognized State Reservations.

#### LUSTR09

Leaking Underground Storage Tanks On Tribal Lands

VERSION DATE: 04/08/19

This database, provided by the United States Environmental Protection Agency (EPA), contains leaking underground storage tanks on Tribal lands located in EPA Region 9. This region includes the following states: Arizona, California, Hawaii, Nevada, and the territories of Guam and American Samoa.

ODINDIAN

Open Dump Inventory on Tribal Lands

VERSION DATE: 11/08/06

This Indian Health Service database contains information about facilities and sites on tribal lands where solid waste is disposed of, which are not sanitary landfills or hazardous waste disposal facilities, and which meet the criteria promulgated under section 4004 of the Solid Waste Disposal Act (42 U.S.C. 6944).

USTR09

Underground Storage Tanks On Tribal Lands

VERSION DATE: 04/08/19

This database, provided by the United States Environmental Protection Agency (EPA), contains underground storage tanks on Tribal lands located in EPA Region 9. This region includes the following states: Arizona, California, Hawaii, Nevada, and the territories of Guam and American Samoa.





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November 22, 2019

Jennifer Simpkins Kimley-Horn 7740 N. 16th Street, Suite 300 Phoenix, Arizona 85020

# RE: Cultural Resources Assessment of Douglas Municipal Airport Runway 3-21 Reconstruction (Project Report No. 19-132L)

Dear Ms. Simpkins,

The Arizona Department of Transportation (ADOT) is assisting the City of Douglas in a runway reconstruction project at the Douglas Municipal Airport. The airport occupies 1 mi<sup>2</sup> (640 acres; Section 16, Township 24 South, Range 28 East) just east of Douglas and north of the border with Mexico in southern Cochise County, Arizona. The project includes reconstruction of Runway 03-21 (5760 ft by 75 ft), including a portion of three taxiway connectors (to the Runway Safety Area, RSA) and the Runway 03 taxiway turnaround. Work will include the complete removal of the existing asphalt pavement, removal (possible reuse) of the existing aggregate base course, compaction of the existing subgrade soils, placement and compaction of aggregate base course (new or reused), and placement and compaction of a new asphalt surface course. The project also will include the replacement of existing runway edge lights. The ADOT Aeronautics checklist includes guidelines for the cultural resources assessment as follows:

# 7. Cultural Resources

Check with the local historic registers to identify listed properties that are present within the project area (including the airport grounds). Conduct a background investigation on the airport facilities to ascertain if the airport (or parts of the airport) may be potentially eligible for listing on local historic registers, the Arizona Register of Historic Places (ARHP), and/or the National Register of Historic Places (NRHP).

Examine the construction plans and verify with the project manager if ground disturbance will occur during construction. Depending on the extent and location of ground disturbance, a cultural resources survey may be required.

Consultation with the State Historic Preservation Office may be required if historic properties are currently listed, and/or are potentially eligible for listing, and/or discovered within the project area. If historic properties are located in the area of potential effects, list mitigation measure(s) stating how the sites will be protected (flagging, avoidance, on-site monitoring) would be required. If historic properties cannot be avoided, a mitigation plan would need to be developed, consulted on, and implemented.

For this project, Desert Archaeology reviewed the National Register of Historic Places (NRHP) database to confirm that the Douglas Municipal Airport was listed on the NRHP in 1975 (https://catalog.archives.gov/id/75609678). It is not listed on the Arizona Register of Historic Places. The airport was given an archaeological site designation, AZ FF:10:10(ASM), in 1976. The NRHP nomination form indicates that the airport began operation in 1928 and that it had a role in the history of early aviation in Arizona. It has been described as the first international airport in the United States because its runway extended into Mexico, and planes could taxi through a gate from one country to the other. First Lady Eleanor Roosevelt dedicated the Douglas International Airport on June 5, 1933. The airport was renamed Douglas Municipal Airport in the 1940s, after construction of the Bisbee Douglas International Airport. The nomination form does not identify specific eligibility criteria or periods of significance for the property.

A previous report prepared by Desert Archaeology for a perimeter fence around the airport summarized changes that have occurred between 1975, when the property was first listed, and 2014, when the survey was conducted (Diehl 2014:16) as follows:

...abandonment of all original runways (still visible in aerial photos), addition of a new paved runway (1980s), addition of paved parking areas, addition of a park in the northwestern corner of the property (2000s), addition of the Border Air Museum building (1990s), replacement of the original pump house with modern fuel pumps, and the demolition of a red brick garage (foundation still present) after a tree fell on it in 2011. A modern mobile office building is also present west of the historic 1930 hangar. In the lands surrounding the airport, visible changes include the widening and paving of roads, and the construction of a substantial fence/wall along the U.S.-Mexico border.

The 2014 report concluded that the site retains enough of its historical integrity to meet NRHP eligibility requirements under Criterion A, association with events that have made a significant contribution to the broad patterns of history.

Desert Archaeology examined construction plans for the project. This project will maintain the current configuration of the runway and taxiway. Diehl (2014) indicates that the original runways have been abandoned and that the current runways were constructed within the last 50 years. While the construction will affect the subgrade of the previous runway, it will not change its character and function or its relationship to the property as a whole. Therefore, Desert Archaeology recommends a finding of 'no adverse effect' for the Douglas Municipal Airport Runway 3-21 Reconstruction project.

Sincerely,

Patricia Castalia

Patricia Castalia Operations Director

# **REFERENCES CITED**

Diehl, Allison Cohen

2014 Cultural Resources Survey Along the Perimeter of the Douglas Municipal Airport, Douglas, Cochise County, Arizona. Project Report No. 2014-107. Desert Archaeology, Inc., Tucson.