



Arizona Department of Transportation

Environmental Planning

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13JAN2020

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Phase I

Environmental Site Assessment

I-40/US 93 West Kingman System Traffic Interchange

Federal Project No. NH-NHFP-040-A(212)S

ADOT Project No. 040 MO 048 H7993 01C

January 13, 2020

Submittal Number 1

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Phase I Environmental Site Assessment

FOR

I-40/US 93 West Kingman System Traffic Interchange

Federal Project No. NH-NHFP-040-A(212)S
ADOT Project No. 040 MO 048 H7993 01C

Prepared for:

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Report Date: January 13, 2020

AAI Date: March 22, 2020

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Signature of the Environmental Professional

Phase I Environmental Site Assessment

I-40/US 93 West Kingman System Traffic Interchange

Federal Project No. NH-NHFP-040-A(212)S

ADOT Project No. 040 MO 048 H7993 01C

Mohave County, Arizona

The material in this report was researched, prepared, and reviewed by the undersigned. We declare that, to the best of our professional knowledge and belief, Amber Huntoon-Colvin and Colleen Murray meet the definition of an Environmental Professional (EP) as defined in 40 Code of Federal Regulations (CFR) 312.10. They have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Study Area. They have developed and performed the all appropriate inquiries in general conformance with the standards and practices set forth in 40 CFR 312. Professional qualification summaries for Amber Huntoon-Colvin and Colleen Murray are provided in Appendix 1.

Archaeological Consulting Services, Ltd.



Amber Huntoon-Colvin
Environmental Scientist



Colleen Murray
Project Manager/Health and Safety Specialist

January 13, 2020

Executive Summary

Archaeological Consulting Services, Ltd. (ACS) was retained by Jacobs Engineering, Inc. (Jacobs) to perform a corridor Phase I environmental site assessment (ESA) for the I-40/US 93 West Kingman System Traffic Interchange Study Area. The Study Area is located along Interstate 40 (I-40) from milepost (MP) 48.32 to MP 51.75 (Stockton Hill Road), along US Highway 93 (US 93) from MP 69.60 to MP 71.00, and along a new alignment that would connect I-40 (from MP 49.5) to US 93, generally located along the City of Kingman boundary in Mohave County, Arizona.

The proposed project would reconfigure the West Beale Street Traffic Interchange (TI), and upgrade existing bridges and drainage along the current I-40 and US 93. Additionally, a new segment of highway would be constructed to include a freeway-to-freeway system interchange between I-40 and the future Interstate 11 (I-11), currently called US 93. Geotechnical investigations would be included in the preliminary construction phase.

The Study Area mainly consists of I-40, US 93, within ADOT-owned right-of-way (ROW) and a new highway segment that will require the acquisition of new ROW. The land use along the new highway segment is largely vacant/undeveloped, with the exception of where it crosses West Beale Street as it approaches the US 93 junction. The adjacent properties are mainly ranch land/vacant, with some residential and commercial service stations present. Surrounding land use consists of commercial, residential, ranching, and a municipal golf course.

Multiple closed leaking underground storage tank (LUST) cases are affiliated with properties located along US 93/Beale Street (northwest and east of the Study Area). Based on the case closure, and distance from the Study Area, they are not considered to be a concern for the Study Area. Additionally, open LUST sites are present along US 93/Beale Street (northwest of the southern Study Area) and along Stockton Hill Road (southeast of the northern Study Area limits). A regulatory file review was conducted to determine the potential environmental impact of these facilities. Based on the details associated with the open LUSTs, and information obtained from the Arizona Department of Environmental Quality (ADEQ) file review, it is unlikely the LUST cases would be a concern for the Study Area.

This ESA was performed in general conformance with the purpose and scope of the Environmental Protection Agency (EPA) All Appropriate Inquiries (AAI) regulation at 40 Code of Federal Regulations (CFR) 312.10 and the ASTM Standard E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. Any exceptions to, or deletions from, this practice are described in the Data Gaps section of this report.

Conclusions

Based on reasonably ascertainable information, site and area reconnaissance, and research into the past and present uses of the site, ACS has determined that there are no readily apparent recognized environmental conditions (RECs), controlled RECs (CRECs), or historical RECs (HRECs) in connection with the Study Area.

Recommendations

Based on the findings of this ESA, ACS recommends the following:

- A recent LUST was identified on the ADEQ GIS online website. This release was confirmed since the Allands regulatory database search was ordered, reviewed, and the subsequent ADEQ file review was conducted November 13, 2019. ACS recommends a regulatory file review prior

to project construction for the recently identified Woody's Food Store #131, LUST ID No. 5821.01, with a site address of 1000 West Beale Street;

- If suspected hazardous materials (surface or subsurface) are encountered during subsequent project construction, work should cease at that location and the ADOT Project Engineer should be notified immediately to make arrangements for the proper identification, treatment, or disposal of those materials; and
- Avoidance or proper regulatory closure of wells located within the project limits that may be impacted by construction is required.

Amber Huntoon-Colvin of ACS conducted fieldwork for this ESA on October 1 and 2, 2019. This report represents ACS' professional opinion of the condition of the Study Area at the time of the investigation only. Changes to the environmental conditions at the Study Area, if any, that have occurred since October 2, 2019 have not been documented by ACS and are not included in this report.

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- Appendix 1: Consultant Information
- Appendix 2: ADOT User and Owner Questionnaires
- Appendix 3: Site Photographs
- Appendix 4: Regulatory Database (ASTM) Search report
- Appendix 5: Flood Insurance Rate Map

1. Introduction

1.1 Purpose

Archaeological Consulting Services, Ltd. (ACS) was retained by Jacobs Engineering, Inc. (Jacobs) to perform a corridor Phase I environmental site assessment (ESA) for the I-40/US 93 West Kingman System Traffic Interchange Study Area under their Arizona Department of Transportation (ADOT) Contract No. 2019-002. The Study Area is located along Interstate 40 (I-40) from milepost (MP) 48.32 to MP 51.75 (Stockton Hill Road), along US Highway 93 (US 93) from MP 69.60 to MP 71.00, and along a new alignment that would connect I-40 (at MP 49.5) to US 93 (at approximately MP 70) generally located along the City of Kingman boundary to US 93 in Mohave County, Arizona. The Study Area is located within Section 7, Township 21 North, Range 16 West, and Sections 12-15, 22, 23, and 26 of Township 21 North, Range 17 West of the Gila and Salt River Base Line and Meridian.

The proposed project would reconfigure the West Beale Street TI, and upgrade existing bridges and drainage along the current I-40 and US 93. Additionally, a new segment of highway would be constructed to include a freeway-to-freeway system interchange between I-40 and the future Interstate 11 (I-11), currently called US 93. Geotechnical investigations would be included in the preliminary construction phase. Findings and conclusions related to the geotechnical investigation are also provided in this ESA.

This ESA was performed in general conformance with the purpose and scope of the U.S. Environmental Protection Agency (EPA) All Appropriate Inquiries (AAI) regulation at 40 Code of Federal Regulations (CFR) 312.10 and American Society for Testing and Materials (ASTM) Standard E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. Any exceptions to, or deletions from, this practice are described in the Data Gaps section of this report. This report is generally intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The purpose of this report is to provide information that constitutes “all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial or customary practice” in accordance with 42 United States Code (U.S.C.) §9601(35)(B). In addition, this report generally provides information about hazardous materials discovered within the scope of services that are significant to ADOT’s use of the Study Area as understood by ACS.

The goal of the ESA process is to identify recognized environmental conditions (RECs) as defined below by ASTM E 1527-13:

- Recognized environmental condition (REC): the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to a release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment;
- Controlled recognized environmental condition (CREC): a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls; and
- Historical recognized environmental condition (HREC): a past release of any hazardous substances or petroleum products that has occurred in conjunction with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.

In addition to the above definitions, ASTM E1527-13 also makes the following distinctions:

- De minimis condition: a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis conditions are not RECs nor CRECs;
- Business Environmental Risk: A risk that can have a material environmental or environmentally driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. Consideration of business environmental risk issues may involve addressing one or more non-scope considerations.

1.2 Scope of Services

The objectives of this ESA are to:

- Determine whether past or present uses of the Study Area might have resulted in adverse environmental impacts and have created any RECs, CRECs, or HRECs within the Study Area;
- Determine the presence of any on-site use, storage, treatment, or disposal of hazardous material or waste;
- Identify high-risk areas for possible environmental impacts;
- Evaluate the potential adverse impacts that off-site sources might have on the site;
- Provide photographic documentation of current site conditions;
- Provide findings and conclusion related to the geotechnical investigation; and
- Provide a report that identifies confirmed and potential environmental impacts and liabilities, if any.

1.3 Planned Use of Property and User-Provided Information

According to Jacobs and ADOT, the Study Area includes the proposed location for construction of the I-40/US 93 West Kingman System TI, to include free-flowing ramps between I-40 and US 93. The ADOT ASTM-based User Questionnaire completed by Ed Green, ADOT Hazardous Materials Coordinator, on November 1, 2019 is provided in Appendix 2.

1.4 Limitations and Reliance

The purpose of an ESA is to reasonably evaluate the potential for, or actual impact of, past practices in a given area. In performing an ESA, it is understood that a balance must be struck between a reasonable inquiry into the environmental issues and an exhaustive analysis of each conceivable issue of potential concern. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to exclude the presence of hazardous materials at a given site. If hazardous conditions have not been identified during the assessment, such a finding should not, therefore, be construed as a guarantee of the absence of such materials on the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed. Environmental conditions may exist at the site that cannot be identified by visual observation.

Except where there is expressed concern on the part of the client (or where specific environmental contaminants have been previously reported by others), naturally occurring toxic substances, potential environmental contaminants inside buildings, or contaminant concentrations that are not of current environmental concern may not be reflected in this document.

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, expressed or implied, is made. These services

were performed consistent with ACS' agreement with Jacobs and ADOT. This report is solely for the use and information of Jacobs and ADOT. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. ACS is not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. ACS does not warrant the accuracy of information supplied by others or the use of segregated portions of this report.

1.5 Data Gaps

The following data gaps were encountered during the completion of this ESA:

- Due to a lack of readily available standard historical sources, ACS was not able to determine uses of the Study Area back to 1940, or the first developed use of the Study Area. ACS does not consider this data gap to be significant because other historical references indicate ranch land/vacant and minimal development, with additional residential and commercial development of the Study Area since I-40 was built;
- There are greater than 5-year gaps between certain earlier aerial photographs reviewed for this ESA. The reason for the gaps is the lack of availability of reasonably ascertainable aerial photographs in the intervening years. ACS believes that these data gaps are not significant because the use of the Study Area remained consistent in the years before and after the 5-year gaps;
- A chain-of-title record search was not conducted as part of this corridor ESA. The absence of a chain-of-title record constitutes a data gap in accordance with the ASTM standard. ACS does not believe this data gap to be significant because other historical references indicate that the Study Area was ranch land/vacant, residential, or known commercial use with likely no uses that would impact the Study Area from an environmental standpoint; and
- Most of the property is currently located in ADOT right-of-way (ROW) or clearly marked private property. ACS did not access the private property or interview the private owners at the time of this report. ACS does not consider this data gap to be significant based on the consistency in the historical aerial and topo review, general land use, and the site reconnaissance.

2. Site Description

2.1 Site Reconnaissance

Based on a site reconnaissance and a review of physical setting sources, ACS did not identify any obvious signs of environmental issues in the Study Area.

2.2 Site Reconnaissance Methods

On October 1-2, 2019, Amber Huntoon-Colvin of ACS personally examined the Study Area and surrounding area that was easily accessible, for indications of activities involving the storage, use, and/or disposal of hazardous substances or petroleum products that could potentially impact soil or groundwater quality at the Study Area. Study Area boundaries were determined based on the project area maps provided by Jacobs in September 2019.

This site reconnaissance consisted of visual observations of current site conditions. Portions of the Study Area did not have access roads or paths, and personal property was marked with no trespassing signs. The reconnaissance included visual observations of adjoining properties viewed from the Study Area, and visual observation of the surrounding area from adjacent public thoroughfares.

2.3 Site Overview

The Study Area is located along I-40 from MP 48.5 to MP 50.2, along US 93 from MP 69.7 to MP 71.1, and along a proposed new alignment that would connect I-40 (at MP 49.5) to US 93 (at approximately MP 70), generally located along the City of Kingman boundary, southwest of Clack Canyon (Figures 1 and 2). Additionally, geotechnical investigation locations within the Study Area were reviewed (Figure 3). Photographs taken at the time of the site visit are included in Appendix 3. The following is an overview of the Study Area as noted during the site visit on October 1 and 2, 2019:

- The majority of the Study Area is within ADOT-owned ROW; however, the proposed new segment connecting I-40 to US 93 crosses private land (Photographs 3-7);
- The study area includes highways with TIs, concrete drainage structures, and bridges (Photographs 9-12)
- The adjacent properties are mainly ranch land/vacant, with some residential and commercial service stations present; and
- Surrounding land use consists of commercial, residential, ranching, and a municipal golf course (Photograph 13).

2.4 Structures, Roads, and Other Improvements within the Study Area

The Study Area mainly consists of I-40, US 93, and ADOT-owned ROW. The land use along the new highway segment is largely vacant/undeveloped, with the exception of where it crosses West Beale Street as it approaches the US 93 junction. I-40 consists of a major east-west 4 lane divided highway with 2 lanes in each direction. US 93 is a north-south connecting US Highway with 2 lanes in each direction in the Study Area. Table 1 provides a list of Subject Area improvements.

2.5 Use and Storage of Hazardous Substances and Petroleum Products

No evidence of the use or storage of hazardous substances or petroleum products was observed within the Study Area.

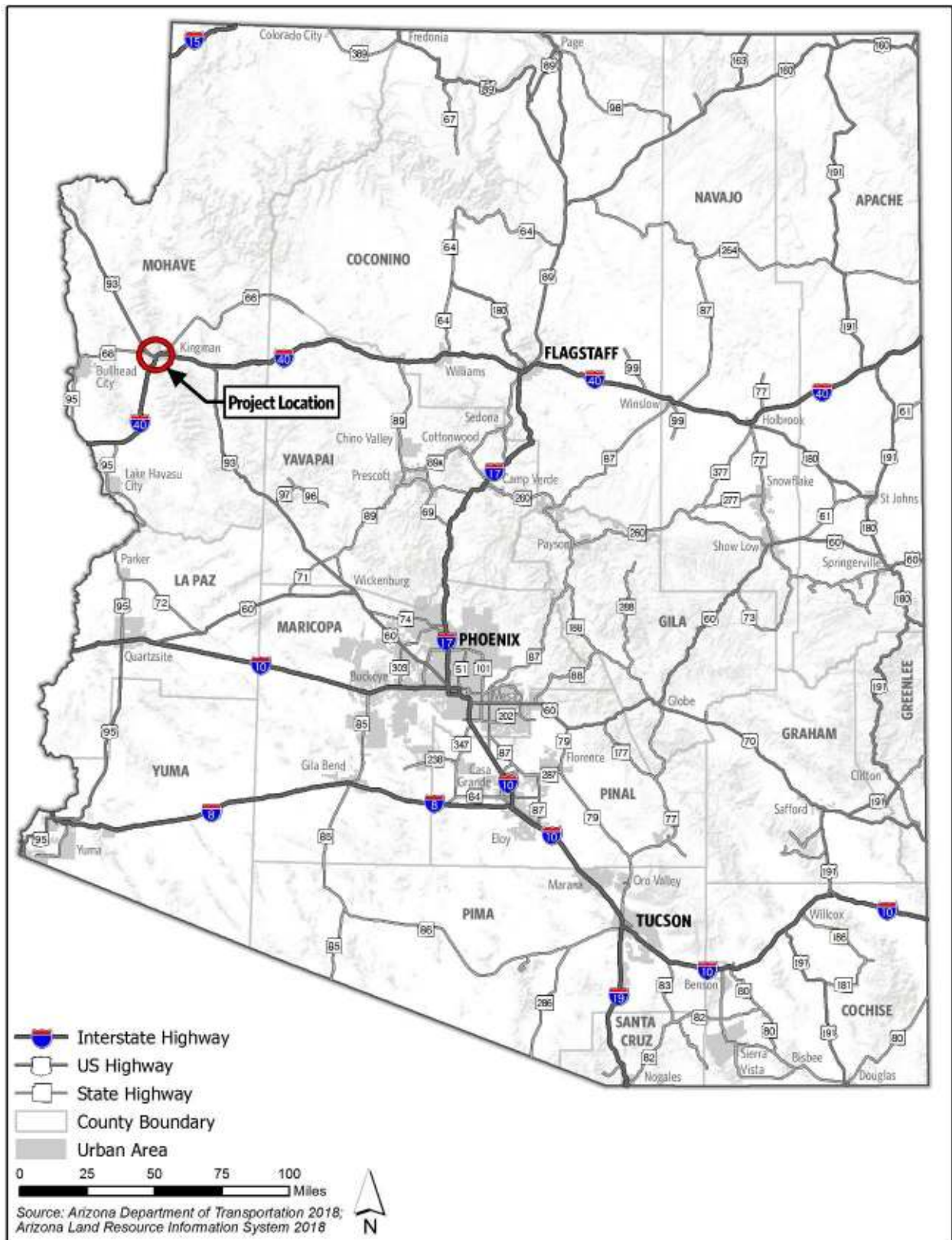


Figure 1. State Location Map.

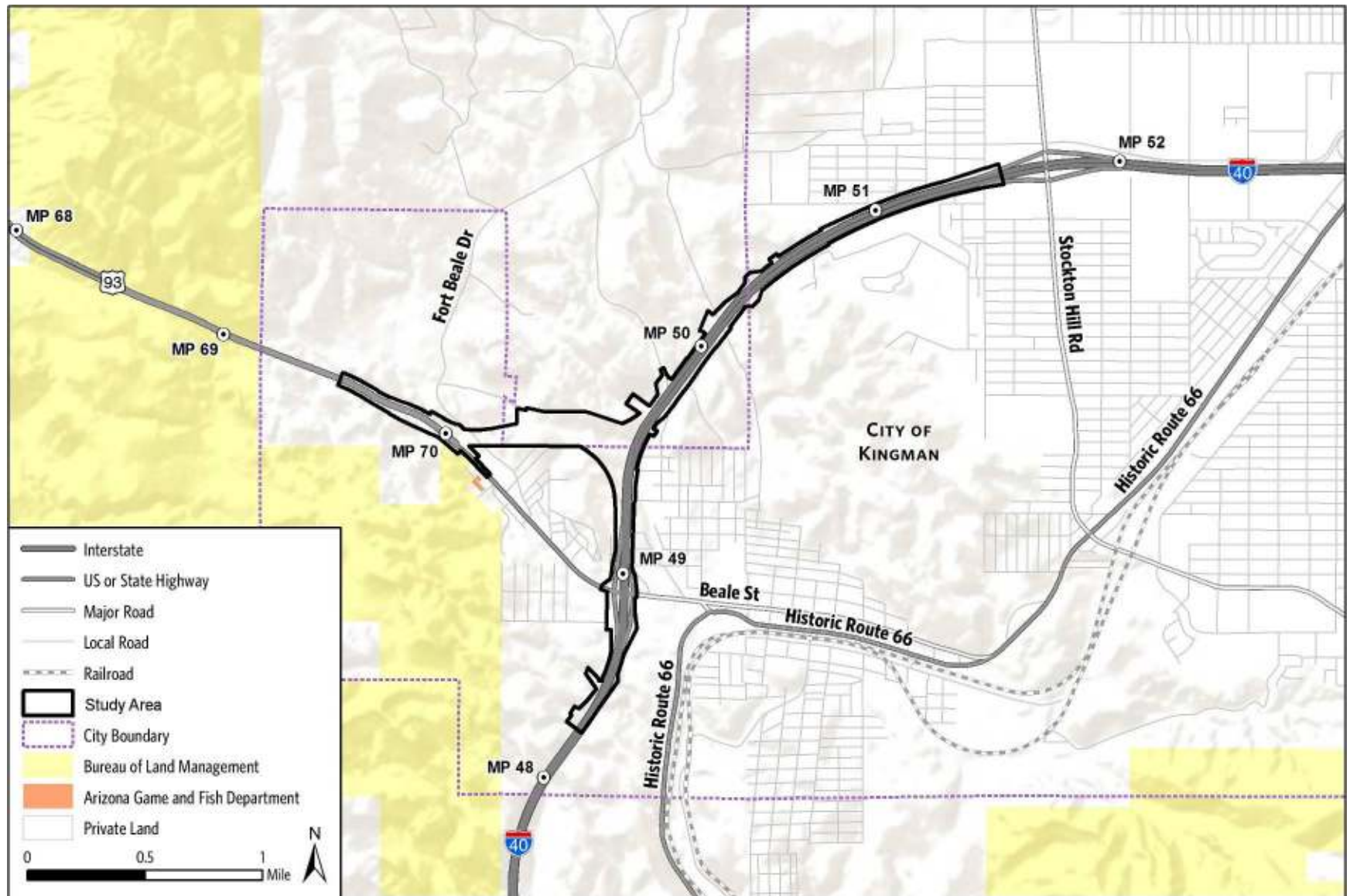


Figure 2. Study Area Map.

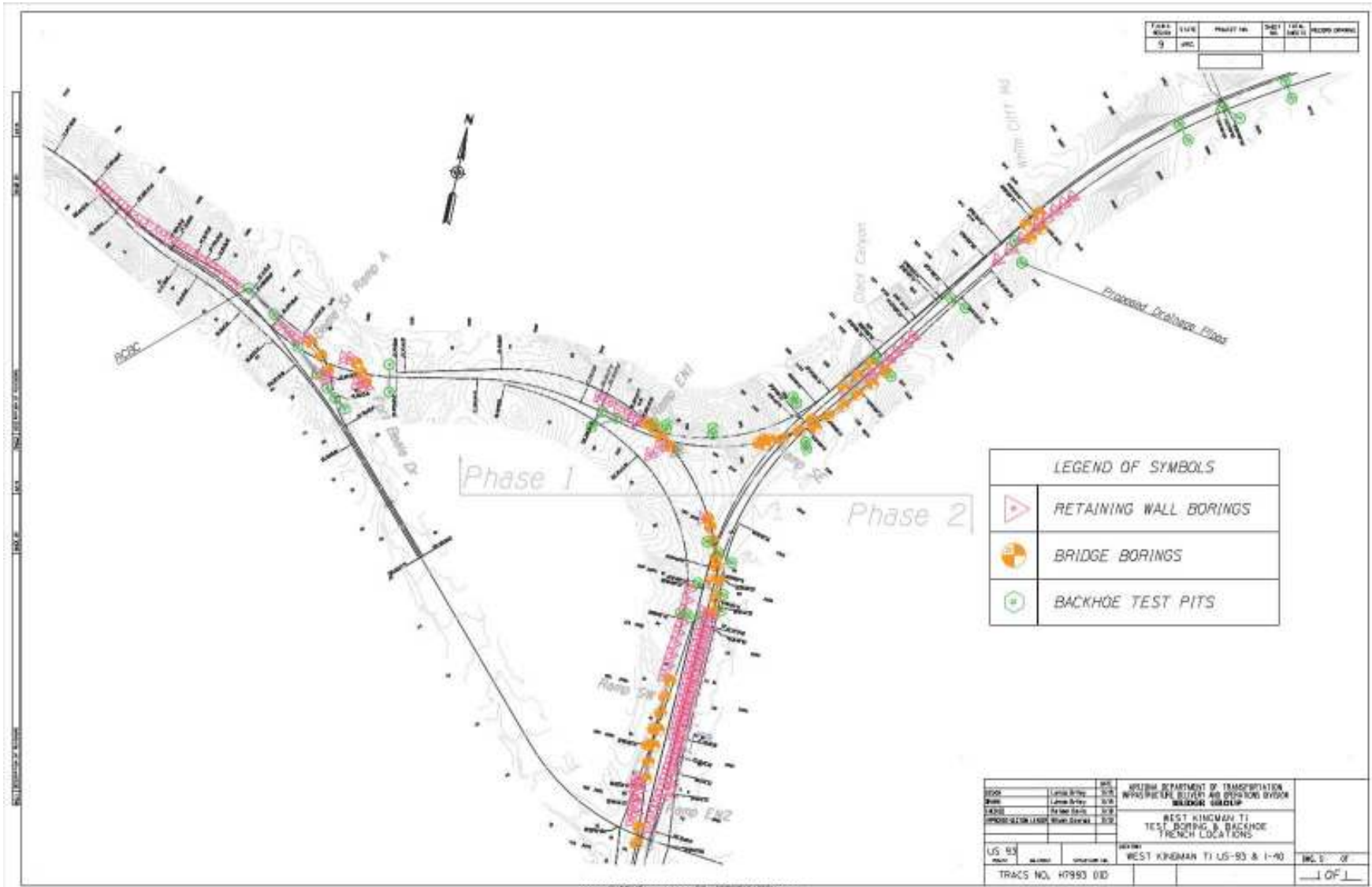


Figure 3. Geotechnical Investigation Location Map.

TABLE 1. SUBJECT AREA IMPROVEMENTS	
Size of Subject Area	Approximately 263.5 acres.
Adjoining or Access/Egress Roads	Interstate 40 (I-40), US Highway 93 (US 93)/Beale Street, Fort Beale Drive, Lampton Avenue, White Cliffs Road, and Clack Canyon Road.
Security	The site is accessible by foot from all sides.
Paved or Concrete Areas	There are interstate and state highway overpasses (OP) and concrete drainage structures within the Study Area.
Unimproved Areas	The Study Area is developed, with no areas of unimproved land. The new highway segment appears to be ranch land, with minimal improvements.
Landscaped Areas	The I-40/US 93 intersection is landscaped.
Electrical and Gas Utilities	Electrical and gas utilities are present. A substation is located north of I-40, near milepost (MP) 51.3.
Potable Water Supply	None. Service would be provided by the City.
Current Occupancy	None. The Study Area is an interstate and state highway, vacant, and minimally developed ranch land.
Structures	An interstate and state highway, with associated OPs, traffic interchanges (TIs), and drainage structures.
Heating and Cooling Systems	None. The Study Area is an interstate and state highway and minimally developed ranch land/vacant.
Sewage Disposal/Septic Systems/ Wastewater	No sewage disposal or septic systems are present within the Study Area boundaries. Wastewater is not currently produced or stored on-site. Service would be provided by the City, or individual septic systems would be associated with residential properties in the vicinity.

2.6 Storage and Disposal of Hazardous Waste

No evidence of the storage or disposal of hazardous waste was observed within the Study Area.

2.7 Aboveground Storage Tanks and Underground Storage Tanks

No aboveground storage tanks (ASTs) or obvious evidence of additional underground storage tanks (USTs), such as fill pipes, vent pipes, and emergency power generators, were observed within the Study Area. Service stations were noted adjacent to the Study Area.

2.8 Evidence of Releases

No obvious evidence of releases (e.g., odors, staining, stressed vegetation, pools of liquids, or spills) was observed in the Study Area. However, Emergency Response Notification System (ERNS) and Hazardous Materials Emergency Response Logbook incidents are listed in the Allands regulatory database. These incident locations are outside the project construction limits and were likely addressed at the time of the incident, as no obvious evidence of releases was observed within the Study Area. These incidents are not

considered an environmental concern. Additionally, leaking USTs (LUSTs) were noted adjacent to the Study Area and for the surrounding area. See section 5.3.7 for further details.

2.9 Unidentified Substance Containers

No unidentified substance containers were observed within the Study Area.

2.10 Polychlorinated Biphenyl-Containing Equipment

Pole-mounted transformers are present within the Study Area; however, no obvious indications of polychlorinated biphenyl (PCB)-containing equipment was observed within the Study Area.

2.11 Solid Waste

Discarded, water-dispersed, and wind-blown trash is present in the Study Area. Based on the material identified (household waste), this debris is not considered an environmental concern.

2.12 Stormwater and Drywells

Natural drainage patterns throughout the Study Area flow to the south/southwest, towards Sacramento Wash. One drywell is located adjacent to the Study Area, southwest of the I-40/US 93 intersection. Additionally, two historical drywells are listed on the ADWR well registration database, located east of the West Kingman TI (<http://gisweb3.azwater.gov/WellReg>, accessed November 18, 2019). Additional information regarding drywells can be found in Section 5.4.3, and Appendix 4.

2.13 Wells

Three groundwater wells are located along the new highway segment and three at the West Kingman TI are located within the Study Area. Proper abandonment of wells that may be impacted by construction in accordance with regulatory guidelines will be required prior to construction activities. Additional information regarding drywells can be found in Section 5.4.7, and Appendix 4.

2.14 Pits, Ponds, or Lagoons

No pits, ponds, or lagoons for chemical or wastewater storage or disposal were observed within the Study Area.

2.15 Refrigerant-Containing Equipment

No refrigerant-containing equipment was observed within the Study Area. It is likely that commercial and residential properties in the adjacent/surrounding areas utilize refrigerant-containing equipment.

2.16 Surface/Subsurface Structures

No surface structures or evidence of subsurface structures (e.g., sumps, vaults, oil/water separators, or other surface impoundments) were observed within the Study Area. Stormwater and drainage conveyance earthen channels are located along the north side of I-40 from the eastern project limits to approximately MP 51.0 (Photograph 14).

2.17 On-Site Records

No on-site records were reviewed for this ESA. However, regulatory records were reviewed for selected LUST facilities located adjacent to the Study Area, where a hazardous material concern was identified in the regulatory database report. See Section 5.3.7 for additional information.

2.18 Controlled Substance Production

No evidence of controlled substance production was identified within the Study Area.

2.19 Other Site Observations

ACS has no additional observations regarding the Study Area.

2.20 Expected Hazardous Substance Migration

2.20.1 From the Study Area

Based on the topography of the area, hazardous substances that might originate in the Study Area would be expected to migrate to the south.

2.20.2 Onto the Study Area

Oils, fuels, and other materials mixed with stormwater will likely migrate into nearby drainages and streams from I-40, US 93, and/or Beale Street. Should a facility located within the Study Area experience a release, contaminants may migrate onto the southern area of the release site.

3. Adjacent Properties

3.1 Adjacent Properties Summary

Adjacent and surrounding development to the Study Area includes former and current service stations. LUSTs are present adjacent to the I-40/US 93 intersection. A file review was conducted to determine potential environmental impact of these facilities. Based on the file review it is unlikely that they have impacted the environmental integrity of the Study Area; therefore, ACS does not consider the adjacent properties to be a concern. See section 5.3.7 for further information.

3.2 Adjacent Properties Review

The following are located in the immediate vicinity of the Study Area:

- The area adjacent to I-40, along the northern part of the Study Area, is developed with residential and commercial properties. Similar development is present near the US 93/Beale Street and I-40 intersection. This intersection includes auto repair facilities, and current and former service stations; multiple USTs and closed LUSTs are present. See section 5.3.7 for further details; and
- The middle portion of the Study Area and west to the new highway segment, as well as the segment south of the I-40/US 93 intersection, are largely vacant private land, with a few residential properties north and south of the proposed new highway segment.

ACS does not believe that these adjacent properties or structures will adversely impact the planned use of the Study Area as understood by ACS.

4. Physical Setting

4.1 Surface Water Characteristics

Based on site reconnaissance and information provided by the Arizona Department of Environmental Quality (ADEQ) eMaps website (<http://gisweb.azdeq.gov/arcgis/emaps/?topic=watersheds>, accessed October 25, 2019), the Study Area is located in the Upper Colorado River watershed (Sacramento Valley Basin). The U.S. Geological Survey (USGS) Kingman, AZ 7.5' topographic map (1967) depicts the Study Area drainage flow to the south.

4.2 Floodplain Information

Based on ACS' interpretation of the Flood Insurance Rate Map (FIRM) covering the Study Area, the Study Area lies within Flood Zones X, AE, AO, and A, as designated by the Federal Emergency Management Agency (FEMA) (<https://msc.fema.gov/portal>, accessed October 25, 2019). Flood Zone A are areas with a 1% annual chance of flooding and a 26% chance of flooding over the life of a 30-year mortgage. Because detailed analyses are not performed for such areas, no depths or base flood elevations are shown within these zones.

Flood Zone AE is the base floodplain where base flood elevations are provided. AE Zones are now used on new format FIRMs instead of A1-A30 Zones.

Flood Zone AO is River or stream flood hazard areas and areas with a 1% or greater chance of shallow flooding each year, usually in the form of sheet flow, with an average depth ranging from 1 to 3 feet. These areas have a 26% chance of flooding over the life of a 30-year mortgage. Average flood depths derived from detailed analyses are shown within these zones. Flood Zone X (shaded) is moderate flood hazard, usually the area between the limits of the 100- year and 500-year floods. Flood Zone X is also used to designate base floodplains of lesser hazards, such as areas protected by levees from 100-year floods, or shallow flooding areas with average depths of less than one foot or drainage areas less than 1 square mile. Flood Zone X (unshaded) includes areas of 0.2% annual chance (500-year) flood or areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile, and areas protected by levees from 1% annual chance flood determined to be outside the 0.2% annual chance floodplain (Appendix 5).

4.3 Wetlands

The Study Area has no wetland designation based on information obtained from the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory Mapper (<http://www.fws.gov/wetlands/Data/Mapper.html>, accessed October 31, 2019).

4.5 Regional Geology and Soils

The Study Area is located within the USGS Kingman, AZ 7.5' topographic map (1967). The general area is hilly with intersecting drainage, sloping toward the south. The elevation within the Study Area ranges from approximately 3,300 to 3,600 feet above mean sea level.

The Study Area is located within the Kingman Area, between the Cerbat and Hualapai mountain ranges of the Basin and Range structural physiographic province of Arizona, which is part of the larger Basin and Range physiographic province. The province extends throughout much of the western United States, including portions of Arizona, California, Nevada, New Mexico, and Utah. Structurally, the province is characterized by north-to-northwest-trending, fault-bounded mountain ranges separated by broad, sediment-filled alluvial basins that are hydraulically connected to underlying basin fill. The alluvium consists of clay, silt, sand, and gravel in various proportions (Kamilli, 1998).

The geology of the Study Area consists primarily of Middle Miocene to Oligocene Volcanic Rocks lava, tuff, fine-grained intrusive rock, and diverse pyroclastic rocks and undivided Quaternary Surficial deposits, of unconsolidated to strongly consolidated alluvial and eolian deposits. This unit includes: coarse, poorly sorted alluvial fan and terrace deposits on middle and upper piedmonts and along large drainages; sand, silt, and clay on alluvial plains and playas; and wind-blown sand deposits (<http://data.azgs.az.gov/geologic-map-of-arizona>, accessed October 14, 2019).

Soils within the Study Area, as identified using the U.S. Department of Agriculture – Natural Resources Conservation Service’s online Web Soil Survey (<https://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm>, accessed October 14, 2019), are characterized in Table 2.

TABLE 2. SOILS WITHIN THE STUDY AREA				
Soil Unit Name	Drainage	Runoff	Permeability*	Typical Pedon
Alko family cobbly loam	Well drained	Very high	Rapid	Cobbly loam, gravelly loam, gravelly sand
Arizo-Franconia-Riverwash complex	Excessively drained	Very Low	Rapid	Gravelly sandy loam, Sandy loam, extremely gravelly loam sand, very gravelly loamy coarse sand
Jageron very gravelly loam	Well drained	Medium	Moderately slow	Gravelly sandy clay loam, clay loam, very gravelly sandy loam, extremely gravelly loamy coarse sand
Tumarion-Nickel family complex	Somewhat excessively drained	Very high	Rapid	Extremely cobbly sandy loam, very cobbly sandy loam, indurated, unweathered bedrock
Urban land-Calvista family complex	Well drained	Very high	Rapid	Very gravelly loam, cobbly loam, unweathered bedrock
Whitehills very gravelly loam	Well drained	Very high	Moderate	Very gravelly loam, very gravelly clay loam, indurated
*Permeability information obtained from https://dese.mo.gov/sites/default/files/ffa-ag-soils-interpretation_11.pdf .				

4.6 Hydrogeology

The Study Area is located in the Sacramento Valley groundwater sub-basin and basin. Depth to groundwater in the general area has been reported between 5 and 503 feet below ground surface (bgs). General groundwater flow direction is anticipated to the south to southwest toward the Colorado River (<http://www.azwater.gov/AzDWR/StatewidePlanning/WaterAtlas/UpperColoradoRiver/PlanningAreaOverview/Hydrology.htm#Sacramento>, accessed October 14, 2019).

The site is also located within the Sacramento Valley Surface Water Drainage Basin of the Upper Colorado River watershed (<http://gisweb2.azwater.gov/WellReg>, accessed October 14, 2019).

5. Records Review

Allands, an environmental database management firm that specializes in computer research of federal and state environmental-related databases, was requested to perform a regulatory database records search for the Study Area, per ASTM E 1527-13. The September 24, 2019 Allands report is presented in Appendix 4. The databases reviewed in the search, and facilities identified adjacent to and surrounding the Study Area, are summarized in the following table and paragraphs. Databases anticipated to most impact the Study Area are summarized below. A complete list of searched databases can be found in the Allands report in Appendix 4.

5.1 Records Review Summary

ACS has reviewed the environmental database report and summarized the findings in the following sections. ACS has not identified any RECs or other environmental concerns in the regulatory database search report that are significant to the proposed use of the Study Area as understood by ACS, including geotechnical investigations.

TABLE 3. RECORDS REVIEW SUMMARY			
Database	Date of Database	Approximate Minimum Search Distance (mile)	Reported Facilities*
Standard Federal ASTM Environmental Record Sources			
National Priorities List (NPL)/Proposed NPL/Department of Defense Sites (DOD)	08/2019	1.0	0
Delisted NPL	08/2019	0.5	0
Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS)/No Further Remedial Action Planned (NFRAP)	02/2019	0.5	0
Resource Conservation and Recovery Act (RCRA) Large and Small Quantity Generators	08/2019	0.125	5
RCRA–Corrective Action Treatment, Storage, and Disposal Facilities (CORRACTS TSDFs)	08/2019	1.0	0
RCRA–Non-CORRACTS TSDFs	08/2019	0.5	0
Emergency Response Notification System (ERNS)	08/2019	0.125	2
Standard State ASTM Environmental Record Sources			
Water Quality Assurance Revolving Fund Areas (WQARF)	08/2019	1.0	0

TABLE 3. RECORDS REVIEW SUMMARY

Database	Date of Database	Approximate Minimum Search Distance (mile)	Reported Facilities*
Superfund Program List (replaces Arizona CERCLIS Information Data System [ACIDS])	08/2004	0.5	0
Solid Waste Facilities/Landfill Sites—Operating and Closed	05/1999 & 05/2004	0.5	0
Control Registries	08/2019	Site only	0
Brownfields/Voluntary Remediation Program	12/2016	0.5	0
Registered Underground Storage Tanks (USTs)	08/2019	0.125	10
Leaking USTs (LUST) Incident Reports	08/2019	0.5	17
Additional Environmental Record Sources			
RCRA Compliance Facilities	08/2019	0.125	1
Hazardous Materials Incidents Emergency Response Logbook	1984–06/2001	0.125	4
Arizona Department of Environmental Quality (ADEQ) Drywell Registration Database	08/2019	0.125	1
Environmental Permits	08/2019	Site	0
Fire Insurance Maps	Various	Site and adjoining	0
Topographical/Aerial Maps	Various	Site and adjoining	2
Voluntary Environmental Mitigation Use Restriction (VEMUR)/Declaration of Environmental Use Restriction (DEUR)/LIENS/DEURTRACKER	08/2019	Site	1
Dry Cleaners	06/2006	0.125	0
Arizona Department of Water Resources (ADWR) Well Registration Database	09/2019	Site and adjoining	See text

5.2 Standard Federal ASTM Environmental Record Sources

5.2.1 Superfund National Priorities List

Under Section 105 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), the EPA established an NPL of Superfund sites. In addition, Proposed NPL and Department of Defense (DOD) Sites are researched following the Section. These databases are

provided by the EPA and ADEQ, and were searched to identify all NPL/Proposed NPL/DOD sites within a 1.0-mile search distance from the Study Area's exterior boundaries.

No NPL/Proposed NPL/DOD sites were found within a 1.0-mile search distance from the Study Area's exterior boundaries.

5.2.2 Delisted National Priorities List

An NPL site may be delisted from the NPL when no further response is appropriate. This database is provided by the EPA and was searched to identify all Delisted NPL sites within a 0.5-mile search distance from the Study Area's exterior boundaries.

No Delisted NPL sites were found within a 0.5-mile search distance from the Study Area's exterior boundaries.

5.2.3 Federal Comprehensive Environmental Response, Compensation, and Liability Information System/No Further Remedial Action Planned/Superfund Enterprise Management System

The CERCLIS list contains sites which are either proposed to or on the NPL and sites which are in the screening and assessment phase for possible inclusion on the NPL. Those sites on the NFRAP list have no further remedial action planned. This database has been archived by EPA as of November 12, 2013, and the Superfund Enterprise Management System (SEMS) has replaced the former CERCLIS/NFRAP lists. SEMS is dated January 2019 and was searched for facilities within a 0.5-mile search distance from the Study Area's exterior boundaries.

No CERCLIS, NFRAP, or SEMS facilities were found located within a 0.5-mile search distance from the Study Area's exterior boundaries.

5.2.4 Resource Conservation and Recovery Act Facilities

Under RCRA, the EPA compiles a database of facilities that are involved in the generation of hazardous waste. This database is from the ADEQ RCRA Info Database and was checked for Federal RCRA facilities located within 0.125 mile from the Study Area's exterior boundaries.

Five RCRA facilities are listed in the Allands report (see Appendix 4 for a complete listing). All of the RCRA facilities are listed as non-generators and none are located within the Study Area. A summary of the RCRA listing includes the following:

- Laidlaw Transit Inc. is located at 515 West Beale Street (east of the I-40/US 93 intersection). There is no indication of a violation as identified for the facility; therefore, this site is not considered to be a concern to the project as currently scoped;
- Positive Alternative for Student Success (PASS) is located at 519 West Beale Street (east of the I-40/US 93 intersection). There is no indication of a violation identified for the facility; therefore, this site is not considered to be a concern to the project as currently scoped. A LUST case was identified for the facility;
- ADOT Equipment Services, Kingman is located at 524 West Beale Street (east of the I-40/US 93 intersection). There is no indication of a violation identified for the facility; therefore, this site is not considered to be a concern to the project as currently scoped;
- Chevron Station 9-0172 is located at 777 West Beale Street (east of the I-40/US 93 intersection). There is no indication of a violation identified for the facility; therefore, this site is not considered to be a concern to the project as currently scoped. A LUST case was identified for the facility. See section 5.3.7 for further information; and

- ADEQ Emergency Response is located at 554 Windsor (north of I-40, near MP 51.0). There is no indication of a violation identified for the facility; therefore, this site is not considered to be a concern to the project as currently scoped

5.2.5 Corrective Action Sites

Under RCRA, the EPA compiles a database of CORRACTS, which are sites with known contamination. Also known as the RCRA CORRACTS List, this is a list maintained by the EPA of RCRA sites at which contamination has been discovered and where some level of corrective cleanup activity has been undertaken. For example, a site may have been on the RCRA Treatment, Storage, or Disposal (TSD) site list or the RCRA Generators site list and was placed on the CORRACTS list once contamination was discovered and remediation was underway. This database was checked for facilities which occurred within a 1.0-mile search distance from the Study Area's exterior boundaries.

No CORRACTS were found within a 1.0-mile search distance from the Study Area's exterior boundaries.

5.2.6 Treatment, Storage, and Disposal Facilities

Under RCRA the EPA compiles a database of facilities that are involved in the transportation or TSD of hazardous materials. This database is from the ADEQ Arizona Hazardous Waste TSD Facilities list and was checked for facilities which occur within a 0.5-mile search distance from the Study Area's exterior boundaries.

No TSD Facilities were found within a 0.5-mile search distance from the Study Area's exterior boundaries.

5.2.7 Federal Emergency Response Notification System List

The ERNS list is a national database used to collect information on reported releases of oil and hazardous substances. This database is provided by the National Response Center and the EPA through the Right-to-Know Network (RTK Net) by the Office of Management and Budget (OMB) Watch and Unison Institute from 1983 to March 2016, and was checked for incidents located within a ≤ 0.125 -mile search distance from the Study Area's exterior boundaries.

Two ERNS were listed in the Allands report:

- On September 28, 1999 a tanker truck struck a pole and the tank was punctured, causing an oil and fuel release at 946 West Beale Street; and
- On April 11, 2014 a tractor trailer truck saddle tank was punctured by road debris, causing a diesel fuel spill at the US 93 and I-40 SB intersection.

It's likely the releases were addressed at the time of the incidents. Therefore, the ERNS listings are not considered to be a concern to the project as currently scoped.

5.3 Standard State ASTM Environmental Record Sources

5.3.1 Water Quality Assurance Revolving Fund

The State of Arizona established a remedial program under Arizona Revised Statutes (A.R.S.) 49-282 to facilitate the conservation and clean-up of Arizona drinking water and water sources. Under the authority of the WQARF program, the state actively identifies any actual or potential impact upon state waters, evaluates the extent of contamination, identifies parties responsible, and provides monetary grants to assist in clean-up activities. This database is provided by ADEQ and was searched to identify all WQARF sites within a 1.0-mile search distance from the Study Area's exterior boundaries.

No WQARF sites were found within a 1.0-mile search distance from the Study Area's exterior boundaries.

5.3.2 Arizona Superfund Program List

The Arizona Superfund Program List replaces the ACIDS and State Hazardous Waste Site (SHWS) list. This list is more representative of the sites and potential sites within the jurisdiction of the ADEQ Superfund Programs Section (SPS). This database is provided by ADEQ and was searched to identify all sites within a 0.5-mile search distance from the Study Area's exterior boundaries.

No facilities on the Arizona Superfund Program List were found within a 0.5-mile search distance from the Study Area's exterior boundaries.

5.3.3 Landfills

The State of Arizona maintains listings of closed and permitted operating landfills and solid waste dump sites. Lists of closed facilities are not necessarily complete since older dumping areas may not be documented. This database is from the ADEQ Waste Programs Division: Solid Waste Section Directory of Arizona Active and Inactive Landfills and was checked for active and inactive landfills located within a 0.5-mile search distance from the Study Area's exterior boundaries.

No active or inactive landfills were found within a 0.5-mile search distance from the Study Area's exterior boundaries.

5.3.4 Control Registries

Under ASTM E 1527-13, Federal, State, and Tribal institutional control/engineering control registries need to be researched. ADEQ has developed the AZURITE Database, dated May, 2018 and reviewed through ADEQ GIS eMaps, which retrieves any institutional or engineering controls, and was researched for inclusion of the Study Area.

No institutional or engineering controls were found within the Study Area or adjoining properties.

5.3.5 AZ Brownfields and Voluntary Remediation Program

ADEQ has developed the AZURITE Database, dated December, 2016 and reviewed through ADEQ GIS eMaps, which includes the ADEQ Voluntary Remediation Program and the ADEQ Brownfields Tracking System, and was searched for sites within a 0.5 mile search distance from the Study Area's exterior boundaries.

No Voluntary Remediation Program or Brownfields sites were found located within a 0.5 mile search distance from the Study Area's exterior boundaries.

5.3.6 Registered Underground Storage Tanks

State (A.R.S. 49-1001 to 1014) and Federal (RCRA Subtitle I) laws require that persons who own or have owned USTs containing "regulated substances" complete a notification form and register the tank with the state. Tribal UST records are researched when the mandatory search distances for a Study Area are within tribal lands. This database was searched for UST sites located within a 0.125-mile search distance from the Study Area's exterior boundaries.

Ten UST sites are listed in the Allands report as being located within the 0.125-mile search distance from Study Area's exterior boundaries. A summary of findings is presented in Table 4

TABLE 4. UST SUMMARY

Facility ID	Site	Address	Tank Status	Potential Impact	
0-003073	Mohave Union HS district 30 Positive Alternative for Student Success (PASS)	519 West Beale Street	4/4 removed	None	No releases. Facility should not impact project as currently scoped.
0-001757	Kingman Army National Guard	700 West Beale Street	2/2 removed	None	Four closed LUSTs. Facility should not impact project as currently scoped.
0-001125	Chevron #9-0172	777 West Beale Street	5/7 removed	None	Eight closed LUSTs. Facility should not impact project as currently scoped.
0-008261	Express Stop #406/Good 2 Go Stores #506	915 West Beale Street	0/3 removed	None	One closed LUST. Facility should not impact project as currently scoped.
0-002426	Hallum Store/Baker Conoco	932 West Beale Street	5/8 removed	None	Four closed LUSTs. Facility should not impact project as currently scoped.
0-005414	Kingman 76 Auto/Truck Stop Plaza	946 West Beale Street	1/8 removed	None	Ten closed LUSTs. Facility should not impact project as currently scoped.
0-008432	West Coast Chevron	1224 West Beale St	0/3 removed	None	No releases. Facility should not impact project as currently scoped.
0-005652	D & J Service Center	1246 West Beale Street	6/6 removed	None	Eight closed LUSTs, with VEMUR. Facility should not impact project as currently scoped.
0-003287	Kingman Tire	1302 West Beale Street	6/6 removed	None	Two closed LUSTS. Facility should not impact project as currently scoped.
0-000367	Arizona Game & Fish - Region II	1420 West Beale St	1/1 removed	None	No releases. Facility should not impact project as currently scoped.

¹Refer to section 5.3.7 for details related to leaking underground storage tank (LUST) cases.

5.3.7 Registered Leaking Underground Storage Tank (LUST) Incident Reports

Owners of USTs are required to report to ADEQ any and all releases of tank contents for which ADEQ maintains an ongoing file documenting the nature of contamination and the status of each such incident. Tribal LUST records are researched when the mandatory search distances for a Study Area are within tribal lands. This database was searched for LUST sites located within a 0.5-mile search distance from the Study Area's exterior boundaries.

Seventeen LUST sites are listed in the Allands report as being located within the 0.5-mile search distance from Study Area's exterior boundaries. An additional LUST was identified on the ADEQ GIS

online website (<http://gisweb.azdeq.gov/arcgis/emaps/?topic=assessed>, accessed January 3, 2020). An ADEQ regulatory file review was conducted on November 13, 2019 for those sites in closest proximity to the Study Area and/or with the greatest potential concern. No groundwater contamination was noted for any of the LUST cases. A summary of finding is presented in Table 5.

5.4 Additional Environmental Record Sources

5.4.1 RCRA Compliance Facilities

The RCRA Compliance Log lists facilities that have been or presently are under investigation for non-compliance with RCRA regulations. Inclusion of any facility on this list indicates a history of compliance problems and RCRA regulatory violation. This database is from the ADEQ RCRA Compliance Log, dated May 2018, and was searched for compliance facilities within a 0.125-mile search distance from the Study Area's exterior boundaries.

One compliance facility was found located within a 0.125-mile search distance from the Study Area's exterior boundaries. Laidlaw Transit Inc. is located at 515 West Beale Street and the compliance inquiry is closed. Therefore, this facility should not impact the project as currently scoped.

5.4.2 Hazardous Material Incidents

The ADEQ Response Team documents spills and incidents involving hazardous material that are reported to the unit. This database is from the ADEQ Emergency Response Log from 1984 through June 2001 and was searched for hazardous material incidents located within a 0.125-mile search distance from the Study Area's exterior boundaries.

Four hazardous material incidents were found located within a 0.125-mile search distance from the Study Area's exterior boundaries. A summary of findings is presented below.

- Hallum Stores located at 932 West Beale Street, 180 gallons of diesel fuel 4/13/1989;
- Lucky Lady Oil Co. is located at 946 West Beale Street and has two incidents listed. One incident from December 22, 1997 was noted as a diesel fuel spill and the other from September 28, 1999 was listed as 2,095 gallons of spilled diesel fuel; and
- C&C Transport Inc., located at US 93 at MP 69.5, was listed with a diesel fuel spill on February 4, 1998.

All listed incidents are located outside the project limits, and likely were addressed at the time of the incident. Therefore, the incidents should not impact the project as currently scoped.

5.4.3 ADEQ Drywell Registration Database

Drywells are constructed for the purpose of collecting stormwater. Drywells are required to be registered with ADEQ. This database is from the ADEQ drywell registration database, dated March 2016, and searched for drywells located within a 0.125-mile search distance from the Study Area's exterior boundaries.

One drywell is located within a \leq 0.125-mile search distance from the Study Area's exterior boundaries. The location is the Kingman Army National Guard - Armory at 700 West Beale Street. ACS does not believe that these drywells have, or will, adversely impact the project as currently scoped. However, avoidance or proper regulatory abandonment of any drywells that may be impacted by construction is required.

TABLE 5. LUST SUMMARY

LUST ID	Site	Address	Case Closure date	Potential Impact	Files Reviewed	Notes
4208.01 4208.02 4208.03 4208.04 4208.05 4208.06 4208.07 4208.08	D&J Service Center	1246 West Beale Street	2/20/1997 2/20/1997 9/24/1998 12/23/1998 9/24/1998 12/23/1998 2/20/1997 3/3/2000	None	x	Location is approximately 0.17 mile southeast from the US 93 southern limit. A VEMUR has been filed for this site. Based on LUST closure and distance from project construction limits, site should not impact the project as currently scoped.
5076.01 5076.02	Kingman Tire	1302 West Beale Street	2/15/2001 12/21/2017	None	x	Approximately 0.1 mile southeast from the US 93 southern limit. Soil contamination contained on-site. Based on LUST closure and distance from project construction limits, site should not impact the project as currently scoped.
3666.01 3666.02 3666.03 3666.04	Mohave Union HS district 30 Positive Alternative for Student Success	519 West Beale Street	10/9/1998 10/9/1998 10/9/1998 10/9/1998	None		Approximately 0.17 mile east from the I-40/US 93 intersection limit. Based on LUST closure and distance from project construction limits, site should not impact the project as currently scoped.
0595.01 0595.02 0595.03 0595.04	Kingman Army National Guard	700 West Beale Street	5/8/1991 1/7/2000 1/7/2000 1/7/2000	None	x	Located approximately 200 feet east of the US 93/West Kingman TI ramp. Contamination contained on-site to an approximately 5-foot depth and approximately 15 feet from western property line. Based on LUST closure and distance from project construction limits, site should not impact the project as currently scoped.
3510.01 3510.02 3510.03 3510.04 3510.05 3510.06 3510.07 3510.08	Baker Chevron/ Chevron #9-0172	777 West Beale Street	3/27/1998 3/27/1998 3/27/1998 3/27/1998 3/27/1998 3/27/1998 3/27/1998 3/27/1998	None	x	Located approximately 400 feet east of the US 93/West Kingman TI ramp. Soil contamination contained on-site and contaminated soil removed. Based on LUST closure and distance from project construction limits, site should not impact the project as currently scoped.

TABLE 5. LUST SUMMARY

LUST ID	Site	Address	Case Closure date	Potential Impact	Files Reviewed	Notes
5652.01	Express Stop #406/ Good 2 Go Stores #506	915 West Beale Street	11/19/2018	None	x	Located approximately 260 feet northwest of Lampton Avenue. Soil contamination contained on-site. Based on LUST closure and distance from project construction limits, site should not impact the project as currently scoped.
5211.01 5211.02 5211.03	Hallum Store/ Baker Conoco	932 West Beale Street	5/8/2007 6/19/2018 9/19/20 18	None	x	Located approximately 300 feet west of Lampton Avenue. Soil contamination contained on-site. Based on LUST closure and distance from project construction limits, site should not impact the project as currently scoped.
3656.01 3656.02 3656.03 3656.04 3656.05 3656.06 3656.07 3656.08 3656.09 3656.10	Kingman 76 Auto/Truck Stop Plaza	946 West Beale Street	6/27/1995 9/10/1998 9/22/1998 3/2/2000 3/22/2001 9/10/1998 9/10/1998 10/15/1999 3/22/2001 8/21/2012	None		Located approximately 530 feet southwest of Lampton Avenue. Based on LUST closure and distance from project construction limits, site should not impact the project as currently scoped.
5821.01	Woody's Food Store #131	1000 West Beale Street	OPEN 12/11/2019	Unknown but Unlikely		Located approximately 0.2 mile northwest of Lampton Avenue. Undefined soil contamination was identified and site is likely under investigation. Soil contamination is the default for new LUST cases. Based on soil contamination, cross-gradient location, and distance from project construction limits, the site is unlikely to impact the project as currently scoped. However, an ADEQ file review is recommended prior to construction.

TABLE 5. LUST SUMMARY

LUST ID	Site	Address	Case Closure date	Potential Impact	Files Reviewed	Notes
4328.01 4328.02 4328.03 4328.04	Ray Bell #454- Liberty Bell	1125 West Beale Street	10/29/1996 10/29/1996 10/29/1996 10/29/1996	None		Located approximately 0.23 mile northwest of Lampton Avenue. Based on LUST closure and distance from project construction limits, site should not impact the project as currently scoped.
917.01	Gas Up Shell	1182 West Beale Street	1/11/2006	None		Located approximately 0.4 mile northwest of Lampton Avenue. Based on LUST closure and distance from project construction limits, site should not impact the project as currently scoped.
451.01 451.02	USA Truck Center	953 West Beale Street	Other jurisdiction OPEN 6/30/2010	None	x	Located approximately 0.13 mile northwest of Lampton Avenue. LUST 451.01 was related to an oil issue, and was not under UST jurisdiction. Defined on-site soil contamination requires remediation for LUST ID 451.02. Based on distance from project construction limits, site should not impact the project as currently scoped.
4588.01	Arnold Investments /Leon Station	West Beale and Joyce Avenue	11/19/1996	None		Located at the intersection of Joyce Avenue and West Beale Street. Based on LUST closure and distance from project construction limits, site should not impact the project as currently scoped.
1432.01	Anbardan Texaco	3315 North Stockton Hill Road	OPEN 9/10/1990	None		Located 0.26 mile southeast of the I-40 eastern project limits. Contaminated soil on-site requires remediation. Based on distance from project construction limits, site should not impact the project as currently scoped.
2645.01 2645.02 2645.03 2645.04 2645.05	Circle K #586	3130 North Stockton Hill Road	11/22/1994 6/25/2002 4/2/2003 5/13/2003 OPEN	None		Located 0.26 mile southeast of the I-40 eastern project limits. Soil contamination is undefined. Based on distance from project construction limits, site should not impact the project as currently scoped.

TABLE 5. LUST SUMMARY

LUST ID	Site	Address	Case Closure date	Potential Impact	Files Reviewed	Notes
4474.01 4474.02 4474.03 4474.04 4474.05 4474.06 4474.07	Canada Mart	210 West Andy Devine Avenue	1/29/2008 1/29/2008 1/29/2008 1/29/2008 5/19/2002 1/29/2008	None		Located 0.37 mile southeast of the US 93/I-40 intersection. Based on LUST closure and distance from project construction limits, site should not impact the project as currently scoped.
8.01	Benjamin Brock	105 East Andy Devine Avenue	10/19/1989	None		Located approximately 0.5 mile southeast of the US 93/I-40 intersection. Based on LUST closure and distance from project construction limits, site should not impact the project as currently scoped.
1308.01	Dunton Motors	119 East Andy Devine Avenue	5/16/1994	None		Located 0.54 mile southeast of the US 93/I-40 intersection. Based on LUST closure and distance from project construction limits, site should not impact the project as currently scoped.

DEMUR: voluntary environmental mitigation use restriction by owner, LUST: leaking underground storage tank, US 93: US Route 93, I-40: Interstate 40, TI: traffic interchange, UST: underground storage tank.

5.4.4 Fire Insurance Maps

The Study Area is not located within the boundaries of available maps.

5.4.5 AZURITE – Voluntary Environmental Mitigation Use Restrictions by Owner(s), Declaration of Environmental Use Restrictions Tracking System

A.R.S. 49-152 states that the Director of ADEQ shall allow property owners, who have voluntarily elected to remediate their property for nonresidential uses, to record in the applicable county recorder's office a VEMUR by Owner(s) limiting, by legal description, the area necessary to protect public health and the environment to non-residential uses if contamination remains on the property at or above certain levels. In accordance with Arizona Administrative Code (A.A.C.) R18-7-201 et Seq., a DEUR is a voluntary notice to deed which restricts the use of a property to non-residential use. ADEQ maintains a repository listing of sites remediated under programs administered by the department. This is called the Remediation and DEUR Tracking System (RDT). ADEQ's RDT was researched for listings within the Study Area boundaries.

A VEMUR was noted for D & J Service Center, located approximately 0.17 mile southeast of the southern US 93 Study Area limits. Based on the distance from the project construction limits, the VEMUR should not impact the project as currently scoped.

5.4.6 Environmental Permits

These lists include groundwater permits, reuse permits, National Pollutant Discharge Elimination System (NPDES) and Arizona Pollutant Discharge Elimination System (AZPDES) permitted facilities, and Aquifer Protection Permits (APPs). Any facility which discharges a material that directly or

indirectly adds any pollutant to the waters of the state may be required to obtain a permit as required by the APP rules. These databases are from ADEQ through its AZURITE Database System and the EPA, updated to March 2016, and was searched for listings within the Study Area's boundaries.

No permits were identified for the Study Area.

5.4.7 Dry Cleaners

The Dry Cleaners Inventory List summarizes current and historical dry cleaners sites throughout the State of Arizona, but is not all inclusive. This database is from the report for the ADEQ Dry Cleaners Inventory Project, dated June 2006, and was searched for dry cleaners sites located within a 0.125-mile search distance from the Study Area's exterior boundaries.

No dry cleaners were found located within a 0.125-mile search distance from the Study Area's exterior boundaries.

5.4.8 ADWR Well Report

This information is obtained from the ADWR Well Registry website. This report identifies existing groundwater wells sequenced by legal description and was searched for inclusion of the Study Area and adjacent properties within 10 acres.

Numerous wells are mapped within a 10.0-acre search area from the Study Area's exterior boundaries. It is anticipated that some of the wells are located within the Study Area. Avoidance or proper regulatory closure of wells located within the project limits that may be impacted by construction is required.

5.5 Prior Reports

No additional reports or report summaries for the Study Area were provided to ACS for review, and ACS did not encounter other reports or report summaries regarding the site in the course of completing this Phase I ESA.

5.6 Additional Records Reviewed

No additional records were reviewed for the purpose of completing this Phase I ESA.

6. Historical Review

6.1 Historical Review Summary

ACS' review of historical information relating to the Study Area has produced the following findings:

- Due to a lack of readily available standard historical sources, ACS was not able to determine uses of the Study Area back to 1940, or the first use of the Study Area. ACS does not consider this data failure to be significant because other historical references clearly indicate that the area was agricultural or residential property with likely no intervening historical uses that would impact the Study Area from an environmental standpoint;
- There are greater than 5-year gaps between several of the aerial photographs that were reviewed for this ESA. The reason for the gaps is the lack of availability of reasonably ascertainable aerial photographs in the intervening years. ACS does not consider this data failure to be significant because the largely vacant, residential, and minimal commercial land uses remained consistent in the years before and after the 5-year gaps;
- Surrounding area development was in the earliest reviewed image from 1965, including undeveloped land, residential, and commercial development. Development was concentrated around Beale Street; and
- Aerial photography review does not indicate any obvious potential environmental issues associated with the Study Area.

6.2 Historical Use Information

6.2.1 Aerial Photography

Historical aerial photographs are valuable for the environmental assessor to review features of the project area and surrounding properties over a long period of time. ACS reviewed historical aerial photographs for the following years: 1965, 1980, 1997, 2005, 2010, and 2015 (www.historicaerials.com).

1965: Beale Street/US 93 was in its current location. Historic Route 66 was located east of the current I-40/US 93 intersection. The aerial photograph showed historical/former service stations east of the Study Area, along East Beale Street. The southern portion of the Study Area consisted of residential and commercial developments. The middle portion of the Study Area is mainly undeveloped/vacant, with very minimal residential development. The northern portion of the Study Area had some residential development. Clack Canyon and White Cliff roads were visible, but unpaved.

1980: I-40 was built in its current location, causing realignment of Clack Canyon and White Cliff roads, and the addition of the I-40 West Kingman and Stockton Hill TIs. More commercial development has occurred in the northern portion of the Study Area. Additional roads were constructed, and residential development had occurred in the alignment from I-40 to US 93.

1997: More commercial development had occurred in the southern and northern portions of the Study Area. The Cerbat Hills Golf Course expanded north, towards I-40.

2005: Residential and commercial development has expanded in the northern and southern portions of the Study Area. The Study Area and surrounding area were generally in their current configuration.

2010: Development remained relatively unchanged.

2015: Development remained relatively unchanged.

6.2.2 Recorded Land Title

A land title search (historical chain-of-title) was not conducted under the scope of work for this ESA. Environmental lien and activity use limitation (AUL) information was obtained from Allands and provided in the Regulatory Database Search, September 24, 2019. Based on the historical land use of the Study Area and supporting historical review, a lack of title information is not anticipated to impact the project as currently scoped.

6.2.3 Topographic Map

Historical topographic maps provide an overview of the area relative to potential previous land uses. ACS reviewed the historical USGS Kingman, Arizona 7.5' topographic map (1967, Photorevised 1980) as part of the regulatory database search report in Appendix 4. The years reviewed were 1968, 1980, and 2014 (www.historicaerials.com). These maps served to verify the information gathered in the historic aerial photograph review. No additional development was found.

- US 93/Beale Street and Stockton Hill Road are present on the 1967 and 1980 maps, with residential and commercial development concentrated in these areas;
- I-40 and associated TIs were present in the 2014 map.

6.2.4 Interviews

Property Owner

ADOT Assistant Hazardous Materials coordinator, Mr. Kenneth Morris, completed an Owner/Occupant Questionnaire for the ADOT-owned property on January 8, 2020, and submitted it to ACS via email. Mr. Morris' completed questionnaire can be found in Appendix 2. The following is a summary of the information provided by Mr. Morris:

- Mr. Morris has 2 years of experience with the Study Area;
- Mr. Morris stated that he was unaware of previous environmental actions against the Study Area;
- Mr. Morris stated he was unaware of any solid waste or wastewater stored on the Study Area;
- Mr. Morris was unaware of any storage tanks or hazardous materials products stored or used on the Study Area;
- Mr. Morris stated off-site stormwater flows onto the Study Area, but that no drywells or retention/detention basins are located on the Study Area;
- Mr. Morris stated there may be a groundwater monitoring well within ADOT's ownership. The well appears to be generally located northeast of the West Kingman TI OP per the ADWR online well registry; and
- Mr. Morris was unaware of prior land use but stated that adjacent use was for automotive service centers and gasoline/diesel fuel stations.

Former Property Owner(s)

A Chain-of-Title search was not conducted for this Study Area; therefore, no former property owners are noted for interviews. ACS does not believe this to be a concern for the Study Area based on land use consistency and historical sources.

Government Official

Ed Green, ADOT Hazardous Materials Coordinator, completed a User Questionnaire, and answered various questions regarding the Study Area throughout the investigatory process. Mr. Green was familiar with the previous use of the property and was aware of potential prior or current associated environmental concerns with the Study Area; specifically, the LUSTs.

7. Vapor Migration

7.1 Vapor Encroachment Screening

ACS conducted a preliminary vapor encroachment screening (VES) for potential Chemicals of Concern (COCs) that may migrate as vapors onto the Study Area as a result of contaminated soil and/or groundwater near the property. The preliminary screening was conducted in general accordance with ASTM E2600-10, Vapor Encroachment Screening on Property Involved in Real Estate Transactions.

The purpose of the screening is to identify a vapor encroachment condition (VEC), which is the presence or likely presence of COC vapors in subsurface soils within the Study Area caused by the release of vapors from contaminated soil or groundwater either on or near the Study Area. An ASTM E2600-10 Tier I screening evaluation for a VEC includes a search distance test and a COC test. The search distance test is presented in Table 6 below. The COC test is based on information presented in the ESA regarding the Study Area, and the surrounding vicinity.

TABLE 6. VEC SEARCH DISTANCE TEST

Standard Environmental Record Sources	Chemicals of Concern Search Radius (Mile)	Number of Facilities Listed in the Search Radius	Petroleum Hydrocarbon Chemicals of Concern Search Radius (Mile)	Number of Facilities Listed in the Search Radius
Federal Listings				
NPL Sites	1/3	0	1/10	0
CERCLIS Sites	1/3	0	1/10	0
RCRA CORRACTS Sites	1/3	0	1/10	0
RCRA non-CORRACTS TSD Facility Sites	1/3	0	1/10	0
RCRA Generator Sites	Site only	0	Site only	0
Control Registries	Site only	0	Site only	0
ERNS Listings	Site only	0	Site only	1
State Listings				
WQARF sites	1/3	0	1/10	0
Superfund Program List	1/3	0	1/10	0
Solid Waste Facilities/Landfill Sites – Operating and Closed	1/3	0	1/10	0
Registered LUSTs	1/3	0	1/10	6
Registered USTs	Site only	0	Site only	0
Control Registries	Site only	0	Site only	0

TABLE 6. VEC SEARCH DISTANCE TEST				
Standard Environmental Record Sources	Chemicals of Concern Search Radius (Mile)	Number of Facilities Listed in the Search Radius	Petroleum Hydrocarbon Chemicals of Concern Search Radius (Mile)	Number of Facilities Listed in the Search Radius
State Listings				
VEMUR/DEUR/Liens/RDT	1/3	1	1/10	0
Brownfields	1/3	0	1/10	0
1/10 mile=528 feet 1/3 mile=1,760 feet				

7.2 Chemicals of Concern Test

The COC test for the Study Area is based on information gathered as part of this ESA and indicates the following:

- Based on information presented in Section 5, it's unlikely up-gradient or cross-gradient contaminated properties will impact the Study Area; and
- According to ADOT, the project is proposed as a future property for highway construction with a minimal number, if any, of enclosed structures.

Based on the information provided above and in the professional judgment of the preparers, ACS does not believe that there is a VEC issue for the Study Area.

8. Conclusions and Recommendations

8.1 Summary of Work

ACS was retained by Jacobs to perform a corridor Phase I ESA for the I-40/US 93 West Kingman System Traffic Interchange Study Area. The Study Area is located along I-40 from MP 48.32 to MP 51.75 (Stockton Hill Road), along US 93 from MP 69.60 to MP 71.00, and along a new alignment that would connect I-40 (from MP 49.5) to US 93, generally located along the City of Kingman boundary in Mohave County, Arizona. The Study Area is located within Section 7, Township 21 North, Range 16 West, and portions of Sections 12-15, all of Section 22, 23, and 26 of Township 21 North, Range 17 West of the Gila and Salt River Base Line and Meridian in Mohave County, Arizona.

The proposed project would reconfigure the West Beale Street TI, and upgrade existing bridges and drainage along the current I-40 and US 93. Additionally, a new segment of highway would be constructed to include a freeway-to-freeway system interchange between I-40 and the future Interstate 11 (I-11), currently called US 93. Geotechnical investigations would be included in the preliminary construction phase.

The Study Area consists mainly of I-40, US 93, within ADOT-owned ROW, and a new highway segment that will require the acquisition of new ROW. The land use along the new highway segment is largely vacant/undeveloped, with the exception of where it crosses West Beale Street as it approaches the US 93 junction. The adjacent properties are mainly ranch land/vacant, with some residential and commercial service stations present. Surrounding land use consists of commercial, residential, ranching, and a municipal golf course.

Multiple closed leaking underground storage tank (LUST) cases are affiliated with properties located along US 93/Beale Street (northwest and east of the Study Area). Based on case closure and distance from the Study Area, they are not considered to be a concern for the Study Area. Additionally, open LUST sites are present along US 93/Beale Street (northwest of the southern Study Area) and along Stockton Hill Road (southeast of the northern Study Area limits). A regulatory file review was conducted to determine the potential environmental impact of these facilities. Based on the details associated with the open LUSTs, and information obtained from the Arizona Department of Environmental Quality (ADEQ) file review, it is unlikely the LUST cases would be a concern for the Study Area.

This ESA was performed in general conformance with the purpose and scope of the EPA AAI regulation at 40 CFR 312.10 and the ASTM Standard E 1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process. Any exceptions to, or deletions from, this practice are described in the Data Gaps section of this report.

8.2 Conclusions

Based on reasonably ascertainable information, site and area reconnaissance, and research into the past and present uses of the site, ACS has determined that there are no readily apparent RECs, controlled RECs, CRECs, or HRECs in connection with the Study Area.

8.3 Recommendations

ACS has the following recommendations for the Study Area:

Based on the findings of this ESA, ACS recommends the following:

- A recent LUST was identified on the ADEQ GIS online website. This release was confirmed since the Allands regulatory database search was ordered, reviewed, and the subsequent ADEQ file review was conducted November 13, 2019. ACS recommends a regulatory file review for the

recently identified Woody's Food Store #131, LUST ID No. 5821.01, with a site address of 1000 West Beale Street prior to project construction;

- If suspected hazardous materials (surface or subsurface) are encountered during subsequent project construction, work should cease at that location and the ADOT Project Engineer should be notified immediately to make arrangements for the proper identification, treatment, or disposal of those materials; and
- Avoidance or proper regulatory closure of wells located within the project limits that may be impacted by construction is required.

Amber Huntoon-Colvin of ACS conducted fieldwork for this ESA on October 1 and 2, 2019. This report represents ACS' professional opinion of the condition of the Study Area at the time of the investigation only. Changes to the environmental conditions at the Study Area, if any, that have occurred since October 2, 2019 have not been documented by ACS and are not included in this report.

9. References Cited

- Allands, Regulatory Database (ASTM) Search for the I-40/US 93 (Kingman TI) System Interchange, 2019-09-065, dated September 24, 2019
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- Arizona Geologic Survey, Geologic Map of Arizona. Accessed October 25, 2019. <http://data.azgs.az.gov/geologic-map-of-arizona/>.
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- Trapp, Richard A., and Reynolds, Stephen J., 1995, Map showing names and outlines of physiographic areas in Arizona: Tucson, Arizona Geological Survey Open File Report OFR 95-2b, scale: 1:1,000,000.
- United States Department of Agriculture. Natural Resources Conservation Service. Mohave County, Arizona (AZ655) Soil map. Accessed October 25, 2019. websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx
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- United States Fish and Wildlife Service, National Wetlands Inventory Wetland Mapper. Accessed October 31, 2019. <http://www.fws.gov/wetlands/Data/Mapper.html>.
- United States Geological Survey, 7.5-Minute Topographic Quadrangle Map Series, Kingman, Arizona, 1967, Photorevised 1980, scale 1:24,000.
- Soils CDE - Interpretation Sheet (November 2010) https://dese.mo.gov/sites/default/files/ffa-ag-soils-interpretation_11.pdf

Appendix 1:
Consultant Information

CONSULTANT PROJECT TEAM INFORMATION

The ACS project team for this ESA consisted of Amber Huntoon-Colvin, primary author and Environmental Professional, and Colleen Murray, reviewer and Environmental Professional.

Amber Huntoon-Colvin, M.S., has over 17 years of experience in environmental compliance, site assessments, and project management. Her experience includes project management, proposal writing and cost estimates, hazardous materials and environmental site assessments including Phase I ESAs, hydrogeology evaluations, asbestos and lead-based paint surveys, desert tortoise and burrowing owl surveys, invasive and native plant surveys, hazardous and universal waste procedure development, and site investigation and remediation of leaking underground storage tanks. Ms. Huntoon-Colvin holds a Master of Science degree in Geology from the University of North Carolina at Wilmington and a Master of Science degree in Space Studies from the University of North Dakota.

Colleen Murray, M.S.T., has 15 years of experience in environmental and health and safety compliance. Her experience includes Resource Conservation and Recovery Act (RCRA) inspections and enforcement, Phase I ESAs, health and safety program development and personnel training, lead-based paint and asbestos surveys, and emergency response. Ms. Murray holds a Master of Science degree in Technology (M.S.T.) (specialization: Environmental Technology Management) from Arizona State University, and Associate Safety Professional certification from the Board of Certified Safety Professionals.

Appendix 2:
ASTM User and Owner Questionnaires

Archaeological Consulting Services, Ltd. (ACS) - User Provided Information
Questionnaire

Phase I Environmental Site Assessment (ESA) for
I-40/US 93 (Kingman TI) System Interchange Enhancement Study

ASTM Information

With the All Appropriate Inquiry (AAI, 40 CFR 312) requirements on conducting Phase I ESAs, the Arizona Department of Transportation (ADOT), as the “user” of the assessment, is responsible to acknowledge any information that ADOT may have related to the following issues in order to qualify for landowner liability protections (LLPs). This information should be provided to the environmental professional for incorporation into the Phase I ESA report. Please check yes or no and provide any additional information available regarding the Study Area.

1. Environmental liens that are filed or recorded against the site (40 CFR 132.25).

Is ADOT aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state, or local law?

Yes No

If yes, please explain:

2. Activity and land use limitations that are in place on the site or that have been filed or recorded against the property (40 CFR 312.26).

Is ADOT aware of any activity use limitations (AULs), such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded against the property under federal, tribal, state or local law?

Yes No

If yes, please explain:

3. Specialized knowledge or experience of the person/department requesting the Phase I ESA and seeking to qualify for the landowner liability protections (40 CFR 312.28).

As the user of this ESA, does ADOT have any specialized knowledge or experience relating to the property or adjoining properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Yes No

If yes, please explain:

4. Relationship of the purchase price to the fair market value of the property, if it were not contaminated (40 CFR 312.29).

Does the purchase price offered for this property reasonably reflect the fair market value of the property?
If there is a difference between the purchase price and the fair market value, have you considered whether the lower purchase price is because contamination is known or believed to be at the property?

Will purchase price be less than the appraised value? Yes No

If yes, please explain. Is it possible that the lower price might be attributable to real or perceived environmental contamination?

5. Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).

Is ADOT aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as the user:

(a) Does ADOT know the past uses of the property?

Yes No

(b) Does ADOT know of any water quality problems?

Yes No

(c) Does ADOT know of specific chemicals that are present or once were present at the property?

Yes No

(d) Does ADOT know of spills or other chemical releases that have taken place at the property?

Yes No

(e) Does ADOT know of any environmental compliance issues, permit violations, or government enforcement actions, or similar actions regarding the property?

Yes No

(f) Does ADOT know of any pending threatened or past legal actions or government enforcement actions involving the property or current or past occupants of the property?

Yes No

(g) Does ADOT know of any government enforcement actions involving the property or against current or former occupants or owners for possible or documented violations of environmental laws or regulations?

Yes No

(h) Does ADOT know of any environmental cleanups that have taken place or are ongoing at the property?

Yes No

If the answer to any of the above items (a-h) is yes, please explain:

6. The degree of obviousness of the presence or likely presence of contamination at the property and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

As the user of this ESA, based on ADOT's knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?

Yes No

If yes, please explain: Multiple UST's and LUST sites within the project area per ADEQ data.

Additional Comment(s):

Complete by:

Company/Agency Name: Arizona Department of Transportation

Printed Name Ed Green Date 01 Nov 19

Signature _____ Title Hazardous Material Coordinator

This form must be completed, signed, and returned to ACS prior to the ACS site reconnaissance.



Phase I Environmental Site Assessment Owner/Occupant Questionnaire

I-40/US 93 (Kingman TI) System Interchange Enhancement Study, Arizona

Part 1 – Property Information

Current Owner/Occupant(s):

ADOT

Current Project Activities:

ADOT is planning a traffic interchange construction project.

Part 2 – Utility Information

Please list the service providers for the following utilities:

Unknown

Electric: _____

Water: _____

Gas: _____

Sewer: _____ Year of installation: _____

Solid Waste: _____

Part 3 – Solid Waste

If the answer to any of the following is yes, please provide any additional information on page 5.

- Yes No Unk* Has solid waste like garbage, trash, demolition debris, construction debris, landscaping debris, liquids, and/or containers ever been discarded on or buried beneath the property?
- Yes No Unk Has the property ever operated as a landfill?
- Yes No Unk Has soil from an unknown source been placed, spread, or piled on the surface or used as fill on the property?
- Yes No Unk Have used tires ever been discarded on or buried beneath the property?
- Yes No Unk Have any former stock ponds, wastewater ponds, silage pits, or other excavations been filled on the property?

Part 4 – Wastewater and Liquid Discharges

- Yes No Unk Are/were any pits, ponds or lagoons for liquid wastes located on the property? If so, please describe (location, year/s present, material stored, etc.)

- Yes No Unk Are/were any wastewater interceptors, clarifiers, or sumps located on the property? If so, please describe (location, year/s present, material stored, etc.)



Part 5 – Storage Tanks

- Yes No Unk Are there any aboveground storage tanks (ASTs) currently located on the property?
- Yes No Unk Were there any past ASTs located on the property? If yes, where?
No record within ADEQ Mega Search

- Yes No Unk Are there any registered or unregistered underground storage tanks (USTs) currently located on the property?
- Yes No Unk Where there any past registered or unregistered USTs located on the property? If yes, where?

Part 6 – Hazardous Substances, Petroleum Products, and Containers

- Yes No Unk Are there any containers of hazardous chemicals or petroleum products currently stored or used on the property, such as batteries, paints, pesticides, etc.?
- Yes No Unk Was there any past usage of hazardous chemicals or petroleum products on the property? If yes, please provide details including where, when and any quantities, if known.

- Yes No Unk Are/were there any current or previous in-ground hydraulic lifts on the property?
- Yes No Unk Have pesticides ever been mixed, stored, or applied on the property? If yes, please provide details including where, when, type and any quantities, if known.

- Yes No Unk Is/was any stained soil located on the property? If yes, please provide details including where, when and cause of stained soil, if known.

Part 7 – Stormwater and Drainage Provisions

- Yes No Unk Are there any drywells on the property? Location: _____
- Yes No Unk If yes, are they registered with the state agency?
- Yes No Unk Are there any retention or detention basins on the property?
- Yes No Unk Were there any former retention or detention basins on the property?
- Yes No Unk Does stormwater from an off-site source flows onto the property?



Part 8 – Wells

Are any current or former groundwater wells on the property? Yes No Unk

If yes, check type of well(s) and indicate if current or former.

Irrigation Domestic Livestock Monitoring Geotechnical Unknown

Please provide the location for any of wells, if known: Well 55-537855 - a piezometer monitoring well may be within ADOTs' ownership

Part 9 – Current/Previous Environmental Actions (ASTM E1527-13; Section 10.9)

- Yes No Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?
- Yes No Are you aware of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?
- Yes No Are you aware of any notices from any government entity regarding any possible violations of environmental laws or possible liability relating to hazardous substances or petroleum products?

Part 10 – Owner Knowledge of Property Condition

Yes No Unk If you answered yes to any of the questions above, is the owner aware of the situation(s) you answered yes to?

Part 11 – Environmental Documents

Do you know if any of the following types of documents apply to the property? Yes No, I don't know

If yes, check all that apply:

- Prior environmental assessment reports
- Environmental audit reports
- Hazardous Waste Generator Notices
- Geotechnical Reports
- SARA Title III/Form R Reports
- Title Records
- Hazardous Waste Manifests
- Water Well Records
- Drywell Registration Records
- NPDES Permits
- Wastewater Permits
- Air Emissions Permits
- UST Registrations
- AST Registrations
- Material Safety Data Sheets
- Safety Plans
- SPCC Plan
- SWPPP

Can you provide copies of any of the above to ACS? Yes No



Part 12 – Prior Site Uses

Was the property previously used for any of the following businesses? Check all that apply. List other past uses/owners in the notes section below.

- Gasoline or Diesel Fueling Station
- Heavy Equipment Repair or Maintenance
- Commercial Laundry
- Commercial Printing
- Warehousing/Distribution
- Farm Operation: Agriculture or Dairy
- Photo Developing Laboratory
- I am not aware of the prior site use(s)
- Automotive Sales or Services
- Dry-cleaning
- Medical Services
- Industrial/Manufacturing
- Junkyard or Salvage Business
- Laboratory or Chemical Handling
- None

Part 13 – Adjacent Site Uses

Were adjacent properties were used for any of the following businesses? Check all that apply. List other past uses/owners in the notes section below.

- Gasoline or Diesel Fueling Station
- Heavy Equipment Repair or Maintenance
- Commercial Laundry
- Commercial Printing
- Warehousing/Distribution
- Farm Operation: Agriculture or Dairy
- Photo Developing Laboratory
- I am not aware of the adjacent sites' uses
- Automotive Sales or Services
- Dry-cleaning
- Medical Services
- Industrial/Manufacturing
- Junkyard or Salvage Business
- Laboratory or Chemical Handling
- None

Part 14 – Person Completing this Form

Name: Kenneth W. Morris Years familiar with property: 2

Business affiliation (if applicable): ADOT Environmental Planning - Hazardous Materials Section

Address: 1611 W. Jackson Street MD EM02 City: Phoenix State: AZ Zip: 85007

Tel: 602.290.6107 Fax: N/A E-mail: kmorris@azdot.gov

Relationship to the property (please check all that apply):

- | <u>Owner</u> | <u>Occupant</u> | <u>Key Site Manager</u> |
|---------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|
| <input type="checkbox"/> Individual Owner | <input type="checkbox"/> Owner Occupant | <input checked="" type="checkbox"/> Property Manager |
| <input type="checkbox"/> Corporation or LLC | <input checked="" type="checkbox"/> Business Occupant | <input type="checkbox"/> Facilities Manager |
| <input type="checkbox"/> Partnership | <input type="checkbox"/> Business Employee | <input type="checkbox"/> Maintenance Supervisor |
| <input checked="" type="checkbox"/> Trust/Trustee | <input type="checkbox"/> Former Occupant | <input type="checkbox"/> Plant Supervisor |
| <input type="checkbox"/> Owner's Broker | | <input type="checkbox"/> Leasing Agent |

Signature: *Kenneth W. Morris*

Date Completed: January 8, 2020

**Appendix 3:
Site Photographs**



Photograph 1. View northeast from Interstate 40 (I-40) near milepost (MP) 48.3, the I-40 southern project limit.

Photograph date: October 2, 2019.



Photograph 2. View southwest of the I-40 east end project limits, near MP 51.5.

Photograph date: October 2, 2019.



Photograph 3. View west from I-40 near MP 48.8 along the proposed new highway segment alignment.
Photograph date: October 2, 2019.



Photograph 4. View west from I-40 near MP 48.5, of the proposed new highway segment location.
Photograph date: October 2, 2019.



Photograph 5. View east of the proposed new highway segment from the eastern end of Wagon Wheel Road.

Photograph date: October 2, 2019.



Photograph 6. View east of the proposed highway segment from Fort Beale Drive.

Photograph date: October 2, 2019.



Photograph 7. View west of the proposed highway segment from Fort Beale Drive.
Photograph date: October 2, 2019.



Photograph 8. View west from US Highway (US 93) near MP 69.5, the eastern project limit.
Photograph date: October 2, 2019.



Photograph 9. View northeast of the I-40 reinforced corrugated metal pipe culvert (RCMP), near MP 48.3. Typical of the concrete drainage within the Study Area.

Photograph date: October 1, 2019.



Photograph 10. View east of the West Kingman traffic interchange (TI) overpass (OP) eastbound (EB), I-40 at MP 48.4.

Photograph date: October 1, 2019.



Photograph 11. View south of White Cliff Road OPs, I-40 at MP 50.09.
Photograph date: October 1, 2019.



Photograph 12. View southwest of US 93 reinforced concrete box culvert (RCB) near MP 70.3.
Photograph date: October 1, 2019.



Photograph 13. View southwest of the I-40 north side drainage channel near MP 51.4.
Photograph date: October 2, 2019.



Photograph 14. View southwest of I-40 near MP 50.4, and the adjacent golf course.
Photograph date: October 2, 2019.

Appendix 4:
Allands Regulatory Database Report



14947 W. Piccadilly Road, Goodyear, AZ 85395 • Phone: 623-535-7800 • Fax: 623-535-7900
www.allands.com • e-mail: sharon@allands.com

Historical Title and Environmental Research

REGULATORY DATABASE (ASTM) SEARCH

YOUR FILE NO: 18-096

ALLANDS FILE NO: 2019-09-065D

DATE OF REPORT: September 24, 2019

ALLANDS hereby reports the search results of Federal and State Databases according to ASTM standards for Phase I Environmental Site Assessments E 1527-13. Allands is not responsible for errors in the available records. The total liability is limited to the fee paid for this report. This is a confidential, privileged and protected document for the use of ACS.

1. The land referred to in this report is located in Mohave County, Arizona, described as follows:

Property located along and between Interstate 40 and Hwy 93, Kingman, Arizona, being in a portion of Section 7, Township 21 North, Range 16 West and in portions of Sections 12 through 15, inclusive and 22, 23 and 26, Township 21 North, Range 17 West, Gila and Salt River Base and Meridian.

REGULATORY DATABASE SEARCH SUMMARY

Database	Date of Database	Approximate Minimum Search Distance (miles)	Reported Facilities
Standard Federal ASTM Environmental Record Sources			
NPL (National Priorities List) / Proposed NPL / DOD (Department of Defense Sites)	08/19	1.0	0
Delisted National Priorities List	08/19	0.5	0
CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System)/No Further Remedial Action Planned (NFRAP) / Superfund Enterprise Management Systems (SEMS)	02/19	0.5	0
RCRA (Resource Conservation and Recovery Act)	08/19	0.125	5
RCRA – CORRACTS (Corrective Action Sites)	08/19	1.0	0
RCRA – Non-CORRACTS TSDFs (Non-Corrective Action Treatment, Storage, and Disposal Facilities)	08/19	0.5	0
ERNS (Emergency Response Notification System)	08/19	0.125	2
Standard State ASTM Environmental Record Sources			
WQARF (Water Quality Assurance Revolving Fund) Areas	08/19	1.0	0
Superfund Program List (replaces ACIDS)	08/04	0.5	0
Solid Waste Facilities/Landfill Sites – Operating and Closed	05/99 & 05/04	0.5	0
Control Registries	08/19	Site only	0
Brownfields / Voluntary Remediation Program	12/16	0.5	0
Registered USTs (Underground Storage Tanks) (includes Tribal Records)	08/19	0.125	10
LUSTs (Leaking Underground Storage Tanks) Incident Reports (includes Tribal Records)	08/19	0.5	17
Additional Environmental Record Sources			
RCRA Compliance Facilities	08/19	0.125	1
Hazardous Materials Incidents Emergency Response Logbook	1984-06/01	0.125	4
ADEQ Drywell Registration Database (includes Tribal Records)	08/19	0.125	1
Environmental Permits	08/19	Site only	0
Fire Insurance Maps	Various	Site and adjoining	0
Topographical / Aerial Maps	See text	Site and adjoining	2
VEMUR / DEUR / LIENS / DEURTRACKER	08/19	Site only	1
DRYCLEANER	06/06	0.125	0
Arizona Department of Water Resources Well Registration Database	09/18	Site and adjoining	See Text

Allands contacts the appropriate sources on a quarterly basis to maintain currency of data

Standard Federal ASTM Environmental Record Sources

SUPERFUND NATIONAL PRIORITIES LIST (NPL)

Under Section 105 of the Comprehensive Environmental Response, Compensation and Liability Act the Environmental Protection Agency established a National Priorities List (NPL) of Superfund sites. In addition, Proposed NPL and DOD (Department of Defense) Sites are researched in the section. These databases are provided by the EPA and the Arizona Department of Environmental Quality, dated August, 2019, and searched to identify all NPL/Proposed NPL/ DOD sites within a 1.0 mile search distance from subject property exterior boundaries.

Note: Due to inconsistency between the general area site description in the Narrative site information and the detailed site map, the distance/directions are determined based upon the most current site map available from ADEQ.

No National Priorities List (NPL) / Proposed NPL / DOD Sites were found located within a 1.0 mile search distance from subject property exterior boundaries.

DELISTED NATIONAL PRIORITIES LIST

Site may be delisted from the National Priorities List where no further response is appropriate. This database is provided by the Environmental Protection Agency, dated August, 2019, and searched to identify all Delisted NPL Sites within a 0.5 mile search distance from subject property exterior boundaries.

No Delisted National Priorities List (NPL) Sites were found located within a 0.5 mile search distance from subject property exterior boundaries.

FEDERAL CERCLIS / NFRAP LIST / SEMS

The CERCLIS list contains sites which are either proposed to or on the NPL and sites which are in the screening and assessment phase for possible inclusion on the NPL. Those sites on the NFRAP list have no further remedial action planned. This database has been archived by EPA as of November 12, 2013 and the Superfund Enterprise Management System (SEMS) has replaced the former CERCLIS/NFRAP lists and is dated February, 2019 and searched for facilities within a 0.5 mile search distance from subject property exterior boundaries.

No CERCLIS / NFRAP / SEMS facilities were found located within a 0.5 mile search distance from subject property exterior boundaries.

RESOURCE CONSERVATION AND RECOVERY ACT FACILITIES (RCRA)

Under RCRA the Environmental Protection Agency compiles a database of facilities that are involved in the generation of hazardous materials. This database is from the Arizona Department of Environmental Quality RCRAInfo Database, dated August, 2019 and checked for Federal RCRA facilities located within a <=0.125 mile search distance from subject property exterior boundaries.

EPA ID	FACILITY	ADDRESS	NOTIF. DATE	STATUS
AZ0000613349	Laidlaw Transit Inc	515 W Beale St	7/29/2002	N
AZ0000613349	Positive Alternative For Student Success (Pass)	519 West Beale Street	12/26/2017	N
AZD981685571	ADOT Equipment Services Kingman	524 W Beale	1/27/2005	N
AZD983469396	Chevron Station 9 0172	777 W Beale St	7/29/2002	N
AZE001016700	ADEQ Emergency Response	554 Windsor	10/21/2002	N

CODES:

- LQG: Large quantity generator (more than 1000 kg per month)
- SQG: Small quantity generator (100 – 1000 kg per month)
- CEG: Conditionally exempt small quantity generator (less than 100 kg per month)
- N : Not a generator verified or inactive generator

CORRACTS FACILITIES

Under RCRA the Environmental Protection Agency compiles a database of Corrective Action Sites, sites with known contamination. Also known as the RCRA CORRACTS List, this is a list maintained by the EPA of RCRA sites at which contamination has been discovered and where some level of corrective clean-up activity has been undertaken. For example, a site may have been on the RCRA TSD or the RCRA Generators site list, and was placed on the CORRACTS list once contamination was discovered and remediation was underway. This database is dated August, 2019, and checked for facilities which occurred within a 1.0 mile search distance from subject property exterior boundaries.

No Facilities were found which occurred within a 1.0 mile search distance from subject property exterior boundaries.

NON-CORRACTS TSD FACILITIES

Under RCRA the Environmental Protection Agency compiles a database of facilities that are involved in the transportation, treatment, storage, or disposal of hazardous materials. This database is from the Arizona Department of Environmental Quality Arizona Hazardous Waste Treatment, Storage and Disposal Facilities, dated August, 2019, and checked for Facilities which occurred within a 0.5 mile search distance from subject property exterior boundaries.

No TSD Facilities were found which occurred within a 0.5 mile search distance from subject property exterior boundaries.

FEDERAL EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS) LIST

The ERNS list is a national database used to collect information on reported releases of oil and hazardous substances. This database is provided by the National Response Center and the EPA through the Right of Know Net by OMB Watch and Unison Institute from 1983 to August, 2019, and checked for incidents located within a <=0.125 mile search distance from subject property exterior boundaries.

ID	DATE	LOCATION	MATERIAL	DETAILS
500511	9/28/1999	946 W Beale St	Oil, Fuel: No. 2	Tank On Tanker Truck / Truck Driver Struck A Pole And Tank Was Punctured
1079558	4/11/2014	Hwy 93 South Bound South I-40	Diesel Fuel	Caller Reported That Road Debris Punctured A Tractor Trailer Truck Saddle Tank Causing A Spill Of Diesel Fuel.

Standard State ASTM Environmental Record Sources

WATER QUALITY ASSURANCE REVOLVING FUND (WQARF)

The state of Arizona established a remedial program under A.R.S. 49-282 to facilitate the conservation and clean-up of Arizona drinking water and water sources. Under the authority of the WQARF program, the state actively identifies any actual or potential impact upon state waters, evaluates the extent of contamination, identifies parties responsible, and provides money grants to assist in clean-up activities. This database is provided by the Arizona Department of Environmental Quality dated August, 2019, and searched to identify all WQARF sites within a 1.0 mile search distance from subject property exterior boundaries.

Note: Due to inconsistency between the general area site description in the Narrative site information and the detailed site map, the distance/directions are determined based upon the most current site map available from ADEQ.

No WQARF Registry List sites were found located within a 1.0 mile search distance from subject property exterior boundaries.

ARIZONA SUPERFUND PROGRAM LIST

The Arizona Superfund Program List replaces the Arizona CERCLIS Information Data System (ACIDS). This list is more representative of the sites and potential sites within jurisdiction of the Arizona Department of Environmental Quality Superfund Programs Section (SPS). This database is provided by the Arizona Department of Environmental Quality, dated August, 2004, and searched to identify all sites within a 0.5 mile search distance from subject property exterior boundaries.

No facilities on the Arizona Superfund Program List were found located within a 0.5 mile search distance from subject property exterior boundaries.

Program Status codes:

Pending PI	WQARF Preliminary Investigation (PI) is scheduled or in process
On Registry	PI has resulted in inclusion of a site on the WQARF Registry
ACTIVE	The Department of Defense is presently addressing the site
On NPL	site has been listed on the CERCLA National Priorities List

LANDFILLS

The state of Arizona maintains listings of closed and permitted, operating landfills and solid waste dump sites. Lists of closed facilities are not necessarily complete - older dumping areas may not be documented. This database is from the Arizona Department of Environmental Quality Waste Programs Division; Solid Waste Section Directory of Arizona Active and Inactive Landfills dated May, 1999 and May, 2004, and checked for active and inactive landfills located within a 0.5 mile search distance from subject property exterior boundaries.

No active nor inactive landfills were found located within a 0.5 mile search distance from subject property exterior boundaries.

Codes:

MSWLF: **Municipal Solid Waste Landfills**
CSWLF: **Closed Solid Waste Landfills**
CSWOD: **Closed Solid Waste Dumps**

CONTROL REGISTRIES

Under ASTM E 1527-13, Federal, State and Tribal institutional control / engineering control registries need to be researched. EPA Envirofacts was reviewed for federal institutional or engineering controls and The Arizona Department of Environmental Quality has developed the AZURITE Database, reviewed through ADEQ GIS eMaps, which retrieves any institutional or engineering controls, dated August, 2019, and was researched for inclusion of subject property.

No institutional or engineering controls were found which occurred at subject property

BROWNFIELDS / VOLUNTARY CLEANUP PROGRAM

The Arizona Department of Environmental Quality has developed the AZURITE Database, reviewed through ADEQ GIS eMaps, which includes the ADEQ Voluntary Remediation Program dated August, 2018 and the ADEQ Brownfields Tracking System, dated December, 2016, and searched for sites which occurred within a 0.5 mile search distance from subject property exterior boundaries.

No brownfield sites were found which occurred within a 0.5 mile search distance from subject property exterior boundaries.

**REGISTERED UNDERGROUND STORAGE TANKS
(UST)**

State (A.R.S. 49-1001 to 1014) and Federal (RCRA Subtitle I) laws require that persons who own or have owned underground storage tanks containing “regulated substances” complete a notification form and register the tank with the state. Tribal UST records are researched when subject property exterior boundaries are within search distance of Tribal lands. This database is from the Arizona Department of Environmental Quality UST Log dated August, 2019, and searched for UST sites located within a <=0.125 mile search distance from subject property exterior boundaries.

Facility ID	Facility Name	Address	Tank No	Tank Inst Date	Closure Type	Closure Date
0-003073	Positive Alternative For Student Success (Pass)	519 W Beale St	1	9/18/1969	Removal	8/10/1994
0-003073	Positive Alternative For Student Success (Pass)	519 W Beale St	2	9/18/1969	Removal	8/10/1994
0-003073	Positive Alternative For Student Success (Pass)	519 W Beale St	3	9/18/1969	Removal	8/10/1994
0-003073	Positive Alternative For Student Success (Pass)	519 W Beale St	4	9/18/1988	Removal	8/10/1994
0-001757	Arizona Army National Guard - Kingman Armory	700 W Beale St	1	1/1/1984	Removal	11/14/1995
0-001757	Arizona Army National Guard - Kingman Armory	700 W Beale St	2	1/1/1984	Removal	11/14/1995
0-001125	Chevron #9-0172	777 W Beale St	1	1/16/1982	Removal	3/22/1994
0-001125	Chevron #9-0172	777 W Beale St	2	1/1/1982	Removal	3/22/1994
0-001125	Chevron #9-0172	777 W Beale St	3	1/1/1982	Removal	3/22/1994
0-001125	Chevron #9-0172	777 W Beale St	4	1/1/1982	Removal	3/22/1994
0-001125	Chevron #9-0172	777 W Beale St	5	1/1/1980	Removal	3/22/1994
0-001125	Chevron #9-0172	777 W Beale St	6	5/1/1994		
0-001125	Chevron #9-0172	777 W Beale St	7	5/1/1994		
0-008261	Express Stop #406 / Good 2 Go Stores #506	915 W Beale St	1	3/24/1994		
0-008261	Express Stop #406 / Good 2 Go Stores #506	915 W Beale St	2	3/24/1994		
0-008261	Express Stop #406 / Good 2 Go Stores #506	915 W Beale St	3	3/24/1994		
0-002426	Hallum Store /Baker Conoco	932 W Beale St	1	1/1/1978		
0-002426	Hallum Store /Baker Conoco	932 W Beale St	2	1/1/1978		
0-002426	Hallum Store /Baker Conoco	932 W Beale St	3	1/1/1978	Removal	2/1/1990
0-002426	Hallum Store /Baker Conoco	932 W Beale St	4	1/1/1978	Removal	2/1/1990
0-002426	Hallum Store /Baker Conoco	932 W Beale St	5	1/1/1978		
0-002426	Hallum Store /Baker Conoco	932 W Beale St	6	2/1/1990		
0-002426	Hallum Store /Baker Conoco	932 W Beale St	7	2/1/1990		
0-002426	Hallum Store /Baker Conoco	932 W Beale St	8	1/1/1978	Removal	2/1/1990

**REGISTERED UNDERGROUND STORAGE TANKS
(CONT.)**

Facility ID	Facility Name	Address	Tank No	Tank Inst Date	Closure Type	Closure Date
0-005414	Kingman 76 Auto/Truck Stop Plaza	946 W Beale St	1	1/1/1982		
0-005414	Kingman 76 Auto/Truck Stop Plaza	946 W Beale St	2	1/1/1982		
0-005414	Kingman 76 Auto/Truck Stop Plaza	946 W Beale St	3	1/1/1982		
0-005414	Kingman 76 Auto/Truck Stop Plaza	946 W Beale St	4	1/1/1982		
0-005414	Kingman 76 Auto/Truck Stop Plaza	946 W Beale St	5	1/1/1982		
0-005414	Kingman 76 Auto/Truck Stop Plaza	946 W Beale St	6	1/1/1982		
0-005414	Kingman 76 Auto/Truck Stop Plaza	946 W Beale St	7	4/18/1982	Removal	6/1/1998
0-005414	Kingman 76 Auto/Truck Stop Plaza	946 W Beale St	8	1/1/1982		
0-008432	West Coast Chevron	1224 W Beale St	1	3/24/1994		
0-008432	West Coast Chevron	1224 W Beale St	2	3/24/1994		
0-008432	West Coast Chevron	1224 W Beale St	3	3/24/1994		
0-005652	D&J Service Center	1246 W Beale St	1	5/7/1956	Removal	1/1/1986
0-005652	D&J Service Center	1246 W Beale St	2	5/7/1956	Removal	1/1/1986
0-005652	D&J Service Center	1246 W Beale St	3	5/7/1956	Removal	9/13/1995
0-005652	D&J Service Center	1246 W Beale St	4	5/7/1956	Removal	9/13/1995
0-005652	D&J Service Center	1246 W Beale St	5	5/7/1961	Removal	9/13/1995
0-005652	D&J Service Center	1246 W Beale St	6	1/1/1986	Removal	9/13/1995
0-003287	Kingman Tire	1302 W Beale St	1	1/1/1968	Removal	4/15/1999
0-003287	Kingman Tire	1302 W Beale St	2	1/1/1968	Removal	4/15/1999
0-003287	Kingman Tire	1302 W Beale St	3	1/1/1973	Removal	4/15/1999
0-003287	Kingman Tire	1302 W Beale St	4	1/1/1968	Removal	9/25/1990
0-003287	Kingman Tire	1302 W Beale St	6	12/7/1999	Removal	11/1/2017
0-003287	Kingman Tire	1302 W Beale St	1	1/1/1968	Removal	4/15/1999
0-000367	AG&F - Region Ii	1420 W Beale St	1	1/1/1979	Removal	4/11/1991

REGISTERED UNDERGROUND STORAGE TANKS DETAILS

NOTE: Details section is from the ADEQ 2003 UST list, newer lists do not provide this information.

Facility Id	Facility	Owner Id	Owner
Tank No.	Status	Capacity	Age
Tank Release Detection	Content	Piping Type	Pipe Release Detection
	Pipe Material		

0-003073 **Mohave Union High School Dist 30** Mohave Co. 2383 Mohave Union High School Dist 30
515 W Beale St ,Kingman AZ 86401
 1 REMV Gasoline 2000 Manual Tank Gauging Interstitial Monitoring Unknown Suction: Check Line
Tightness Testing (Secondary Containment) Tank Tightness with Inventory Controls
 2 REMV Gasoline 2000 Manual Tank Gauging Interstitial Monitoring Unknown Suction: Check Line
Tightness Testing (Secondary Containment) Tank Tightness with Inventory Controls
 3 REMV Used Oil 500 Manual Tank Gauging Interstitial Monitoring Unknown Line Tightness Testing
(Secondary Containment) Tank Tightness with Inventory Controls
 4 REMV Diesel 4000 Manual Tank Gauging Interstitial Monitoring Fiberglass Reinforced Plastic Suction:
Check Line Tightness Testing (Secondary Containment) Tank Tightness with Inventory Controls

0-001757 **Kingman Guard Organizational Shop** Mohave Co. 2438 AZ Army National Guard
700 W Beale St ,Kingman AZ 86401-5795
 1 REMV Gasoline 5000 Interstitial Monitoring (Secondary Containment)Fiberglass Reinforced Plastic
Pressure Line Tightness Testing Tank Tightness with Inventory Controls
 2 REMV Diesel 5000 Interstitial Monitoring (Secondary Containment)Fiberglass Reinforced Plastic
Pressure Line Tightness Testing Tank Tightness with Inventory Controls

0-001125 **Baker Chevron / Chevron 9-0172** Mohave Co. 5522 Jim Baker Chevron Inc
777 W Beale St ,Kingman AZ 86401
 1 REMV Gasoline 9942 Manual Tank Gauging Interstitial Monitoring Fiberglass Reinforced Plastic
Pressure Line Tightness Testing (Secondary Containment) Tank Tightness with Inventory Controls
 2 REMV Gasoline 9942 Manual Tank Gauging Interstitial Monitoring Fiberglass Reinforced Plastic
Pressure Line Tightness Testing (Secondary Containment) Tank Tightness with Inventory Controls
 3 REMV Gasoline 10000 Manual Tank Gauging Interstitial Monitoring Fiberglass Reinforced Plastic
Pressure Line Tightness Testing (Secondary Containment) Tank Tightness with Inventory Controls
 4 REMV Gasoline 9942 Manual Tank Gauging Interstitial Monitoring Fiberglass Reinforced Plastic
Pressure Line Tightness Testing (Secondary Containment) Tank Tightness with Inventory Controls
 5 REMV Used Oil 2000 Fiberglass Reinforced Plastic
 6 ACTV Gasohol 20000 Automatic Tank Gauging Groundwater Double-Walled Fiberglass Pressure
Automatic Line Leak Detectors Monitoring Interstitial Monitoring (Double Reinforced Plastic
Groundwater Monitoring Walled) Interstitial Monitoring (Secondary Interstitial Monitoring (Double
Containment) Tank Tightness with Inventory Walled) Interstitial Monitoring Controls Vapor Monitoring
(Secondary Containment) Line Tightness Testing Vapor Monitoring
 7 ACTV Gasohol 22000 Automatic Tank Gauging Groundwater Double-Walled Fiberglass Pressure
Automatic Line Leak Detectors Monitoring Interstitial Monitoring (Double Reinforced Plastic
Groundwater Monitoring Walled) Manual Tank Gauging Interstitial Monitoring (Double
Walled) Interstitial Monitoring (Secondary Containment) Line Tightness Testing Vapor Monitoring

**REGISTERED UNDERGROUND STORAGE TANKS
DETAILS CONT.**

Facility Id	Facility	Owner Id	Owner
Tank No.	Status	Capacity	Age
Tank Release Detection	Content	Piping Type	Tank Material
	Pipe Material		Pipe Release Detection

0-005414 **Kingman 76 Auto/Truck Stop Plaza** Mohave Co. 4274 National Auto Truckstops Inc
 946 W Beale/I-40 & US Hwy 93 ,Kingman AZ 86401
 1 ACTV Diesel 20000 Automatic Tank Gauging Fiberglass Reinforced Plastic Pressure Automatic Line
 Leak Detectors
 2 ACTV Diesel 20000 Automatic Tank Gauging Fiberglass Reinforced Plastic Pressure Automatic Line
 Leak Detectors
 3 ACTV Diesel 20000 Automatic Tank Gauging Fiberglass Reinforced Plastic Pressure Automatic Line
 Leak Detectors
 4 ACTV Diesel 20000 Automatic Tank Gauging Fiberglass Reinforced Plastic Pressure Automatic Line
 Leak Detectors
 5 ACTV Gasoline 20000 Automatic Tank Gauging Fiberglass Reinforced Plastic Pressure Automatic Line
 Leak Detectors
 6 ACTV Gasoline 20000 Automatic Tank Gauging Fiberglass Reinforced Plastic Pressure Automatic Line
 Leak Detectors
 7 REMV New Oil 10000 Manual Tank Gauging Interstitial Monitoring Bare Steel Pressure Line Tightness
 Testing (Secondary Containment) Tank Tightness with Inventory Controls
 8 ACTV Used Oil 10000 Automatic Tank Gauging Fiberglass Reinforced Plastic Gravity Feed Automatic
 Line Leak Detectors

0-008261 **Billy's Gas Exxon** Mohave Co. 4469 Bpj&s Inc
 915 W Beale St ,Kingman AZ 86401
 1 ACTV Gasoline 12000 Interstitial Monitoring (Secondary Fiberglass Reinforced Plastic Pressure
 Interstitial Monitoring Containment) Interstitial Monitoring Double-Walled (Double Walled) Interstitial
 (Double Walled) Monitoring (Secondary Containment)
 2 ACTV Gasoline 12000 Interstitial Monitoring (Secondary Fiberglass Reinforced Plastic Pressure
 Interstitial Monitoring Containment) Interstitial Monitoring Double-Walled (Double Walled) Interstitial
 (Double Walled) Monitoring (Secondary Containment)
 3 ACTV Gasoline 12000 Interstitial Monitoring (Secondary Fiberglass Reinforced Plastic Pressure
 Interstitial Monitoring Containment) Interstitial Monitoring Double-Walled (Double Walled) Interstitial
 (Double Walled) Monitoring (Secondary Containment)

**REGISTERED UNDERGROUND STORAGE TANKS
DETAILS CONT.**

Facility Id	Facility	Owner Id	Owner
Tank No.	Status	Capacity	Age
Tank Release Detection	Content	Piping Type	Tank Material
	Pipe Material		Pipe Release Detection

0-002426 **Hallum Mobil** Mohave Co. 1641 Steve Hallum/Hallum Inc.
932 W Beale St ,Kingman AZ 86401

1 ACTV Gasoline 12000 Tank Tightness with Inventory Controls Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors Line Tightness Testing

2 ACTV Gasoline 6000 Tank Tightness with Inventory Controls Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors Line Tightness Testing

3 REMV Gasoline 2000 Interstitial Monitoring (Secondary Fiberglass Reinforced Plastic Line Tightness Testing Containment)

4 REMV Gasoline 2000 Interstitial Monitoring (Secondary Fiberglass Reinforced Plastic Containment)

5 ACTV Gasoline 10000 Tank Tightness with Inventory Controls Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors Line Tightness Testing

6 ACTV Diesel 10000 Tank Tightness with Inventory Controls Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors Line Tightness Testing

7 ACTV Diesel 10000 Tank Tightness with Inventory Controls Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors Line Tightness Testing

8 REMV Gasoline 2000 Interstitial Monitoring (Secondary Fiberglass Reinforced Plastic Containment)

0-005414 **Kingman 76 Auto/Truck Stop** Plaza Mohave Co. 4274 National Auto Truckstops Inc
946 W Beale/I-40 & US Hwy 93 ,Kingman AZ 86401

1 ACTV Diesel 20000 Automatic Tank Gauging Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors

2 ACTV Diesel 20000 Automatic Tank Gauging Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors

3 ACTV Diesel 20000 Automatic Tank Gauging Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors

4 ACTV Diesel 20000 Automatic Tank Gauging Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors

5 ACTV Gasoline 20000 Automatic Tank Gauging Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors

6 ACTV Gasoline 20000 Automatic Tank Gauging Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors

7 REMV New Oil 10000 Manual Tank Gauging Interstitial Monitoring Bare Steel Pressure Line Tightness Testing (Secondary Containment) Tank Tightness with Inventory Controls

8 ACTV Used Oil 10000 Automatic Tank Gauging Fiberglass Reinforced Plastic Gravity Feed Automatic Line Leak Detectors

**REGISTERED UNDERGROUND STORAGE TANKS
DETAILS CONT.**

Facility Id	Facility	Owner Id	Owner
Tank No.	Status	Capacity	Age
Tank Release Detection	Content	Piping Type	Tank Material
	Pipe Material		Pipe Release Detection

0-008432 **Westside Chevron** Mohave Co. 3561 Tri-valley Dist
1224 W Beale St ,Kingman AZ 86401
1 ACTV Gasoline 10000 Automatic Tank Gauging Interstitial Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors Monitoring (Double Walled) Tank Tightness Line Tightness Testing with Inventory Controls
2 ACTV Gasoline 10000 Automatic Tank Gauging Interstitial Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors Monitoring (Double Walled) Tank Tightness Line Tightness Testing with Inventory Controls
3 ACTV Gasoline 10000 Automatic Tank Gauging Interstitial Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors Monitoring (Double Walled) Tank Tightness Line Tightness Testing with Inventory Controls

0-005652 **D & J Service Center/Sinclair** Mohave Co. 4412 James McCain & David Lopez
1246 W Beale St ,Kingman AZ 86401
1 REMV Gasoline 1000 Unknown
2 REMV Gasoline 1000 Unknown
3 REMV Gasoline 2000 Interstitial Monitoring (Secondary Bare Steel Suction: Check Line Tightness Testing Containment) Tank Tightness with Inventory Controls
4 REMV Gasoline 2000 Interstitial Monitoring (Secondary Bare Steel Suction: Check Line Tightness Testing Containment) Tank Tightness with Inventory Controls
5 REMV Gasoline 3000 Interstitial Monitoring (Secondary Bare Steel Suction: Check Line Tightness Testing Containment) Tank Tightness with Inventory Controls
6 REMV Gasoline 6000 Interstitial Monitoring (Secondary Bare Steel Suction: Check Line Tightness Testing Containment) Tank Tightness with Inventory Controls

0-003287 **Shell Mini Mart #1** Mohave Co. 7420 Anbarden Shell
1302 W Beale St ,Kingman AZ 86401
1 REMV Gasoline 3000 Tank Tightness with Inventory Controls Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors Vapor Monitoring Line Tightness Testing
2 REMV Gasoline 3000 Tank Tightness with Inventory Controls Fiberglass Reinforced Plastic Pressure Automatic Line Leak Detectors Vapor Monitoring Line Tightness Testing
3 REMV Gasoline 3000 Tank Tightness with Inventory Controls Galvanized Steel Pressure Automatic Line Leak Detectors Vapor Monitoring Line Tightness Testing
4 REMV Used Oil 550 Galvanized Steel
5 REMV Used Oil 550 Galvanized Steel
6A ACTV Gasoline 10000 Automatic Tank Gauging Interstitial Double-Walled Flexible Piping Pressure Interstitial Monitoring Monitoring (Double Walled) (Double Walled)
6B ACTV Gasoline 5000 Automatic Tank Gauging Interstitial Double-Walled Flexible Piping Pressure Interstitial Monitoring Monitoring (Double Walled) (Double Walled)

**REGISTERED UNDERGROUND STORAGE TANKS
DETAILS CONT.**

Facility Id	Facility		Owner Id	Owner	
Tank No.	Status	Content	Capacity	Age	Tank Material
Tank Release Detection		Pipe Material	Piping Type		Pipe Release Detection

0-000367	<i>Arizona Game & Fish Dept Reg Iii</i>	Mohave Co. 255 Arizona Game & Fish Dept 1420 W Beale St ,Kingman AZ 86401			
		1 REMV Gasoline 3000 Manual Tank Gauging Interstitial Monitoring Galvanized Steel Suction: Check (Secondary Containment) Tank Tightness with Inventory Controls			

**REGISTERED LEAKING UNDERGROUND STORAGE TANKS
(LUST)**

Owners of USTs are required to report to the Arizona Department of Environmental Quality any and all releases of tank contents for which ADEQ maintains an ongoing file documenting the nature of contamination and the status of each such incident. Tribal LUST records are researched when subject property exterior boundaries are within search distance of Tribal lands. This database is from the ADEQ LUST Log dated August, 2019, and searched for LUST sites located within a 0.5 mile search distance from subject property exterior boundaries.

ID	LUST ID NO	FACILITY	ADDRESS	DATE OPEN	DATE CLOSED	P CODE	DIST./ DIREC.
0-005652	4208.01	D&J Service Center	1246 W Beale St	9/13/1995	2/20/1997	5R1	Area
	4208.02			9/13/1995	2/20/1997	5R1	
	4208.03			9/13/1995	9/24/1998	5R1	
	4208.04			9/13/1995	12/23/1998	5R1	
	4208.05			9/13/1995	9/24/1998	5R1	
	4208.06			9/13/1995	12/23/1998	5R1	
	4208.07			9/13/1995	2/20/1997	5R1	
	4208.08			9/13/1995	3/3/2000	5R1V	
0-003287	5076.01	Kingman Tire	1302 W Beale St	4/26/1999	2/15/2001	5R1	Area
	5076.02			11/17/2017	12/21/2017	5R1	
0-003073	3666.01	Mohave Union High School Dist 30 / Positive Alternative For Student Success (PASS)	519 W Beale St	8/24/1994	10/9/1998	5R1	0.1 mi. E
	3666.02			8/24/1994	10/9/1998	5R1	
	3666.03			8/24/1994	10/9/1998	5R1	
	3666.04			8/24/1994	10/9/1998	5R1	
0-001757	0595.01	Kingman Guard Organizational Shop	700 W Beale St	12/9/1988	5/8/1991	5R1	0.1 mi. E
	0595.02			3/25/1996	1/7/2000	5R1	
	0595.03			3/25/1996	1/7/2000	5R1	
	0595.04			3/25/1996	1/7/2000	5R1	
0-001125	3510.01	Baker Chevron / Chevron 9-0172	777 W Beale St	4/29/1994	3/27/1998	5R1	0.1 mi. E
	3510.02			4/29/1994	3/27/1998	5R1	
	3510.03			4/29/1994	3/27/1998	5R1	
	3510.04			4/29/1994	3/27/1998	5R1	
	3510.05			4/29/1994	3/27/1998	5R1	
	3510.06			4/29/1994	3/27/1998	5R1	
	3510.07			4/29/1994	3/27/1998	5R1	
	3510.08			4/29/1994	3/27/1998	5R1	
0-008261	5652.01	Good 2 Go Stores #506	915 West Beale Street	12/11/2015	11/19/2018	5R1	0.1 mi. W
0-002426	5211.01	Hallum Mobil / Baker Conoco	932 W Beale St	6/15/2000	5/8/2007	5R1	0.1 mi. W
	5211.02			8/15/2017	6/19/2018	5R3	
	5211.03			7/2/2018	9/19/20 18	5R1	

**REGISTERED LEAKING UNDERGROUND STORAGE TANKS
(cont.)**

ID	LUST ID NO	FACILITY	ADDRESS	DATE OPEN	DATE CLOSED	P CODE	DIST./ DIREC.
0-005414	3656.01 3656.02 3656.03 3656.04 3656.05 3656.06 3656.07 3656.08 3656.09 3656.10	Kingman 76 Auto /Truck Stop Plaza	946 W Beale	8/18/1994 6/2/1997 9/5/1997 9/5/1997 12/2/1997 6/2/1997 6/2/1997 6/10/1998 6/2/1997 5/25/2000	6/27/1995 9/10/1998 9/22/1998 3/2/2000 3/22/2001 9/10/1998 9/10/1998 10/15/1999 3/22/2001 8/21/2012	5S 5R1 5R1 5R1 5R2 5R1 5R1 5R2 5R2 5R1	0.1 mi. W
0-004079	4328.01 4328.02 4328.03 4328.04	Ray Bell #454 - Liberty Bell	1125 W Beale St	1/16/1996 1/16/1996 1/16/1996 1/16/1996	10/29/1996 10/29/1996 10/29/1996 10/29/1996	5R1 5R1 5R1 5R1	0.2 mi .S
0-005020	917.01	Gas Up Shell	1182 W Beale St	10/12/1989	1/11/2006	5R1	0.2 mi .S
0-003903	451.02	USA Truck Center	953 W Beale St	6/30/2010	OPEN	3	0.2 mi .S
0-008915	4588.01	Arnold Investments /Leon Station	West Beal and Joyce Avenue	8/13/1996	11/19/1996	5R1	0.2 mi. S
0-006841	1432.01	Anbardan - Texaco	3115 N Stockton Hill Rd	9/10/1990	OPEN	3	0.2 mi. SE
0-001261	2645.01 2645.02 2645.03 2645.04 2645.05	Circle K #586	3130 N Stockton Hill Rd	1/21/1993 4/6/1995 4/6/1995 4/6/1995 8/31/2018	11/22/1994 6/25/2002 4/2/2003 5/13/2003 OPEN	5S 5R1D 5R1 5R1 2	0.2 mi. SE
0-006200	4474.01 4474.02 4474.03 4474.04 4474.05 4474.06 4474.07	Canada Mart	210 W Andy Devine Ave	5/31/1996 5/31/1996 1/6/1999 1/6/1999 1/6/1999 1/6/1999 1/6/1999	1/29/2008 1/29/2008 1/29/2008 1/29/2008 1/29/2008 5/9/2002 1/29/2008	5R1 5R1 5R1 5R1 5R1 5R1 5R1	0.3 mi. E
0-000764	678.01	Benjamin Brock	105 E Andy Devine Ave	3/24/1989	10/19/1989	5R1	0.4 mi. E
0-001827	1308.01	Dunton Motors	119 E Andy Devine Ave	6/1/1990	5/16/1994	5R1	0.5 mi. E

P Code

2	Undefined soil contamination (default for newly reported LUSTs)
3	Defined soil requires remediation
5R1	Closed soil levels meet RBCA
5RID	Closed soil levels meet RBCA Tier 1, recorded DEUR
5RIV	Closed soil levels meet RBCA Tier 1, via CRS
5R2	Closed soil levels meet RBCA Tier 2
5R3	Closed soil levels meet RBCA Tier 3
5S	Closed case for suspected release (false alarm)
6	Incident/tank was determined not to be UST jurisdiction and referred to another program

Additional Environmental Record Sources

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) COMPLIANCE FACILITIES

The RCRA Compliance Log lists facilities that have been or presently are under investigation for non-compliance with RCRA regulations. Inclusion of any facility on this list indicates a history of compliance problems and RCRA regulatory violation. This database is from the Arizona Department of Environmental Quality RCRA Compliance Log, dated August, 2019, and searched for compliance facilities within a <=0.125 mile search distance from subject property exterior boundaries.

ID	EPA ID	FACILITY	ADDRESS	STATUS
2239	AZ0000513349	Laidlaw Transit Inc	515 W Beale St	CLOSED

HAZARDOUS MATERIAL INCIDENTS

The Arizona Department of Environmental Quality (ADEQ) Response Team documents spills and incidents involving hazardous materials that are reported to the unit. This database is from the Arizona Department of Environmental Quality Emergency Response Log from 1984 through June, 2001, and checked for hazardous material incidents located within a <=0.125 mile search distance from subject property exterior boundaries.

ID	DATE	FACILITY	ADDRESS	DETAILS
89-100	4/13/1989	Hallum Stores	932 W Beale St	180 Gals/Diesel Fuel
00-025-B	9/28/1999	Lucky Lady Oil Co.	946 Beale St.	2095 Gals. Diesel From Truck
98-046-C	12/2/1997	Lucky Lady Oil Co.	946 W Beale	Diesel
98-092-D	2/4/1998	C & C Transport Inc	Us 93, MP 69.5	Diesel

ADEQ DRY WELL REGISTRATION DATA BASE

Dry wells are constructed for the purpose of collecting storm waters. Dry wells are required to be registered with ADEQ. Tribal Drywell records are researched when subject property exterior boundaries are within search distance of Tribal lands. This database is from the ADEQ dry well registration database dated August, 2019, and searched for dry wells located within a <=0.125 mile search distance from subject property exterior boundaries.

FACILITY	ADDRESS	BEG REG #	END REG #	TOTAL WELLS
Kingman Armory Det 1, 1058th Co.	700 West Beale Street	8562		1

ENVIRONMENTAL PERMITS

These lists include Groundwater Permits, Reuse Permits; National Pollutant Discharge Elimination System (NPDES) Permitted Facilities and Aquifer Protection Permits. Any facility which discharges a material that directly or indirectly adds any pollutant to the waters of the state may be required to obtain a permit as required by the Aquifer Protection Permit Rules. These databases are from the Arizona Department of Environmental Quality through its AZURITE Database System and the Environmental Protection Agency and updated to August, 2019, and checked for inclusion of subject property.

Subject property was not found on these lists.

FIRE INSURANCE MAPS

A review was made at the Arizona State Capital Archives for Fire Insurance Maps, more commonly known as Sanborn Maps, which covered the area in which the subject property is located. Subject property is not located within the boundaries of available maps.

USGS 7.5 MINUTE TOPOGRAPHICAL MAPS AERIAL PHOTOS

The United States Geological Survey Topographic maps and Aerial Photos are derived from Terrain Navigator Software from My Topo, a Trimble Company. (www.mytopo.com) and are for informational purposes only.

NAME	TYPE	DATE	REVISION	CONTOUR INTERVAL
Kingman	Topo	1967	1980	20 feet
Bing	Aerial	2019		

VOLUNTARY ENVIRONMENTAL MITIGATION USE RESTRICTIONS BY OWNERS (VEMUR'S); DECLARATION OF ENVIRONMENTAL USE RESTRICTIONS (DEUR); AND ENVIRONMENTAL LIENS

A.R.S. 49-152. This states that the Director of the Arizona Department of Environmental Quality shall allow property owners, who have voluntarily elected to remediate their property for nonresidential uses, to record in the applicable county recorder's office a VEMUR limiting, by legal description, the area necessary to protect public health and the environment to nonresidential uses if contamination remains on the property at or above certain levels. In accordance with Arizona Administrative Code (A.A.C.) R18-7-201 et. Seq., a Declaration of Environmental Use Restriction (DEUR) is a voluntary notice to deed which restricts the use of a property to non-residential use. ADEQ maintains a repository listing of sites remediated under programs administered by the department. This is called the Remediation and DEUR Tracking System (RDT) ADEQ's RDT was researched for inclusion of subject property.

Name	address	parcel number	remediation ID Number	type	program	start date	end date	level achieved	vemur record date	program file number
D&J SERVICE CENTER	1246 W BEALE ST	304-09-047	19060	VEMUR	LUST PROGRAM	02-26-1999	02-26-1999	SRL NON-RESIDENTIAL	02-28-2000	UST4208.08
D&J SERVICE CENTER	1246 W BEALE ST	304-09-047	19056	OTHER	LUST PROGRAM	02-20-1997	02-20-1997	SRL RESIDENTIAL		UST4208.07
D&J SERVICE CENTER	1246 W BEALE ST	304-09-047	19051	OTHER	LUST PROGRAM	12-23-1998	12-23-1998	HBGL RESIDENTIAL		UST4208.06
D&J SERVICE CENTER	1246 W BEALE ST	304-09-047	19046	OTHER	LUST PROGRAM	09-24-1998	09-24-1998	HBGL RESIDENTIAL		UST4208.05
D&J SERVICE CENTER	1246 W BEALE ST	304-09-047	19041	OTHER	LUST PROGRAM	12-23-1998	12-23-1998	HBGL RESIDENTIAL		UST4208.04
D&J SERVICE CENTER	1246 W BEALE ST	304-09-047	19036	OTHER	LUST PROGRAM	09-24-1998	09-24-1998	SRL RESIDENTIAL		UST4208.03
D&J SERVICE CENTER	1246 W BEALE ST	304-09-047	19032	OTHER	LUST PROGRAM	02-20-1997	02-20-1997	SRL RESIDENTIAL		UST4208.02
D&J SERVICE CENTER	1246 W BEALE ST	304-09-047	16538	OTHER	LUST PROGRAM	02-20-1997	02-20-1997	SRL RESIDENTIAL		UST4208.01

DRYCLEANERS

The Drycleaners Inventory List summarizes current and historic dry cleaners sites throughout the state of Arizona and is not all inclusive. This database is from the Report for the Arizona Department of Environmental Quality Dry Cleaners Inventory Project, dated June, 2006, and searched for dry cleaners sites located within a ≤ 0.125 mile search distance from subject property exterior boundaries.

No drycleaners were found located within a ≤ 0.125 mile search distance from subject property exterior boundaries.

ARIZONA DEPARTMENT OF WATER RESOURCES WELL REPORT

This database is from the Arizona Department of Water Resources Well Report Operations Division Report, dated September, 2018. This report identifies existing wells sequenced by legal description and checked for inclusion of subject site and adjacent properties within 10 Acres.

Imaged Records are available at: <http://infoshare.azwater.gov/docushare/dsweb/HomePage>

Water Uses (WU)

A Irrigation
 B Utility (Water Co.)
 C Commercial
 D Domestic
 E Municipal
 F Industrial
 G Recreational
 H Remediation
 I Mining
 J Stock
 K Other - Exploration
 L Drainage
 M Monitoring
 N None
 O Other - Non-Production
 P Remediation
 R Recharge
 T Test
 U Unknown
 V Dewatering

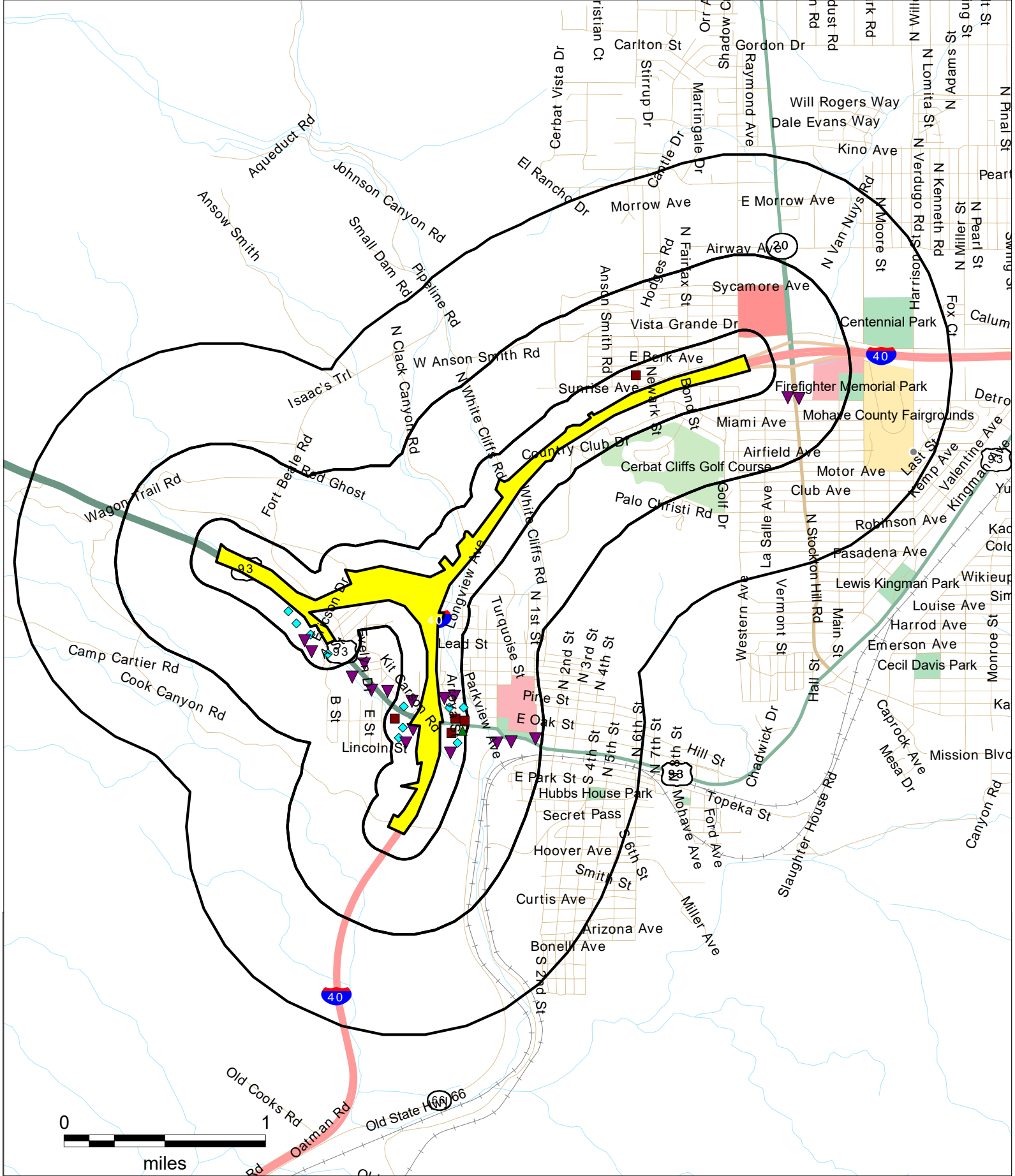
Legal Description

T Township
 N/S North or South
 R Range
 E/W East or West
 S Section
 Q1 Quarter of Section (160 Acres)
 Q2 Quarter Quarter of Section (40 Acres)
 Q3 Quarter Quarter Quarter of Section (10 acres)
 ID Well Registration Number
 WD Well Depth
 WL Water Level
 DIA Casing width

ID	T	N/S	R	E/W	S	Q1	Q2	Q3	WU	WD	WL	DIA	NAME
913607	21	N	16	W	7	SW	NW	SW		800	275	8	John Lingenfelter
637022	21	N	17	W	13				D	265	50	6	Logan,G
512902	21	N	17	W	13	NW	SE	NW	D	460	260	7	Schritter, Blake,
630500	21	N	17	W	14				J	0	0	0	Watson Jr,R E
631824	21	N	17	W	14	NE	SE	NW	D	220	135	6	Paup,L C
216876	21	N	17	W	14	SE	NW	SE		205	70	5	Freilinger
642860	21	N	17	W	14	SE	NW	SW	D	200	60	6	Mendoza Jr
510716	21	N	17	W	14	SE	SW	NW	D	160	30	5	Cherry,M
530244	21	N	17	W	14	SW	NW	SE	D	240	64	7	Barron
574507	21	N	17	W	14	SW	SE	NE	D	425		4	Heding
204979	21	N	17	W	14	SW	SE	NE	D	300	80	5	Ware
921590	21	N	17	W	14	SW	SW	NE	D	248	503	6	Kenneth and Audrey Hudson
216211	21	N	17	W	14	SW	SW	NW	D	180	70	5	Jean

**ARIZONA DEPARTMENT OF WATER RESOURCES
WELL REPORT (cont.)**

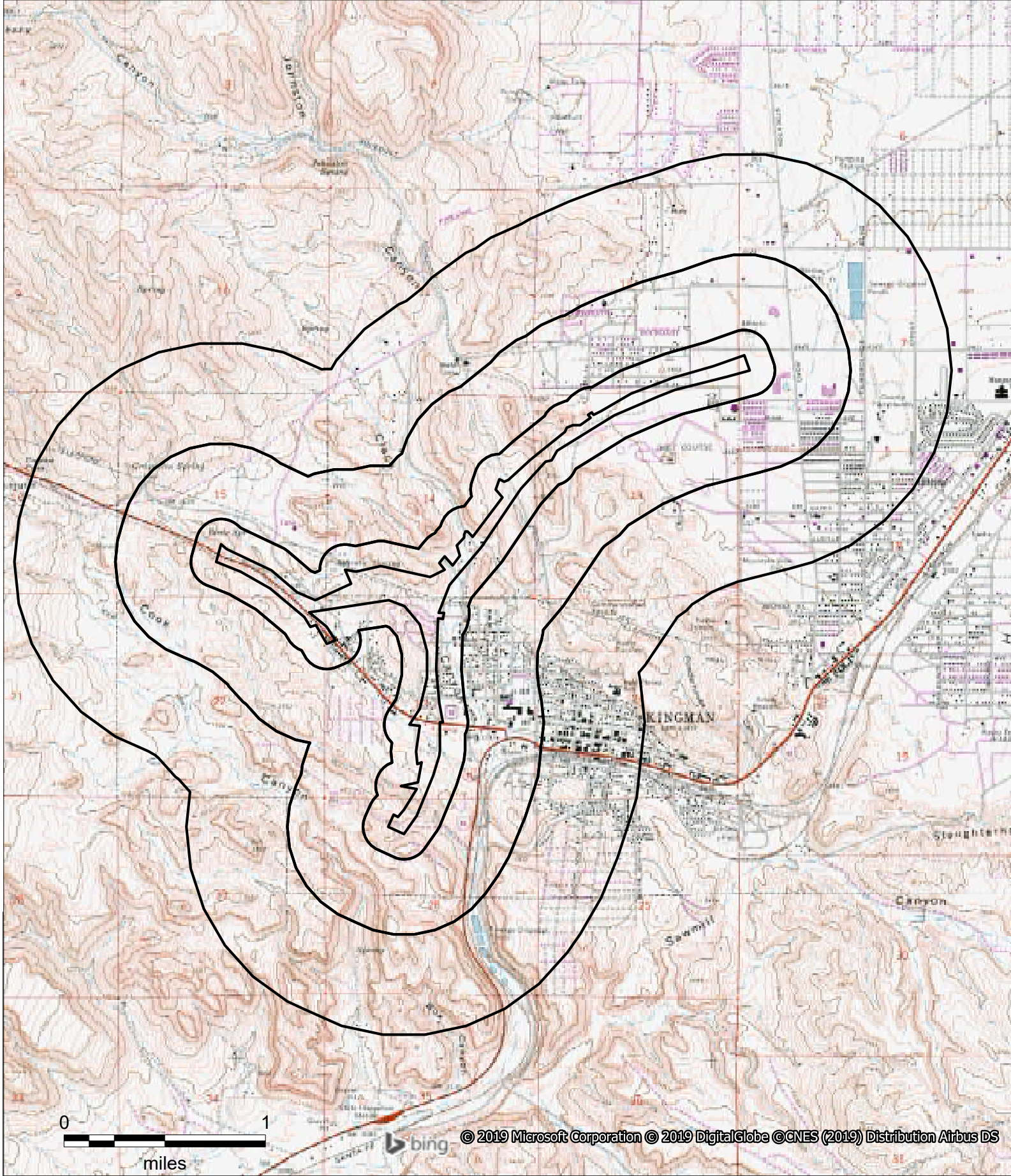
ID	T	N/S	R	E/W	S	Q1	Q2	Q3	WU	WD	WL	DIA	NAME
648618	21	N	17	W	14	SW	SW	NW	D	250	19	8	Caughlin,T W
643663	21	N	17	W	14	SW	SW	NW	D	100	12	8	Covington,E B
643662	21	N	17	W	14	SW	SW	NW	D	30	14	4	Covington,E B
216762	21	N	17	W	14	SW	SW	NW	D	430	355	5	Gates
630560	21	N	17	W	23				D	175	132	10	Stiegler
646222	21	N	17	W	23				D	160	0	8	Campbell,R P
580152	21	N	17	W	23				K	115			Tramaglino
641980	21	N	17	W	23	NE	NW	NW	D	240	105	12	Long,P V
611638	21	N	17	W	23	NE	NW	SW	A	240	180	8	Lama
643858	21	N	17	W	23	NE	SW		A	0	0	0	Simmons
602037	21	N	17	W	23	NW	NW	NW	D	300	245	10	Barkhurst,R F
806347	21	N	17	W	23	NW	NW	SE	D	0	0	0	Harvey, Ruth,
555392	21	N	17	W	23	NW	NW	SW	N	115	0	0	Lopez, David,
570733	21	N	17	W	23	NW	SW	NW					Mccain
570732	21	N	17	W	23	NW	SW	NW	T				Mccain
629642	21	N	17	W	23	NW	SW	SE	D	200	100	10	High Desert Inc,
537851	21	N	17	W	23	SE	NW	NW	M	0	0	0	Chevron Usa,
537852	21	N	17	W	23	SE	NW	NW	M	0	0	0	Chevron Usa,
537853	21	N	17	W	23	SE	NW	NW	M	0	0	0	Chevron Usa,
537854	21	N	17	W	23	SE	NW	NW	M	0	0	0	Chevron Usa,
537855	21	N	17	W	23	SE	NW	NW	M	0	0	0	Chevron Usa,
581875	21	N	17	W	23	SE	NW	SW	N	7			Hallum Inc



LEGEND

★ SITE	◆ USTs	● CERCLA / NFRAP	■ RCRA
	▼ LUSTs	● LANDFILLS	▲ RCRA COMPLIANCE

2019-09-065



LEGEND

★ **SITE**

◆ USTs

● CERCLA / NFRAP

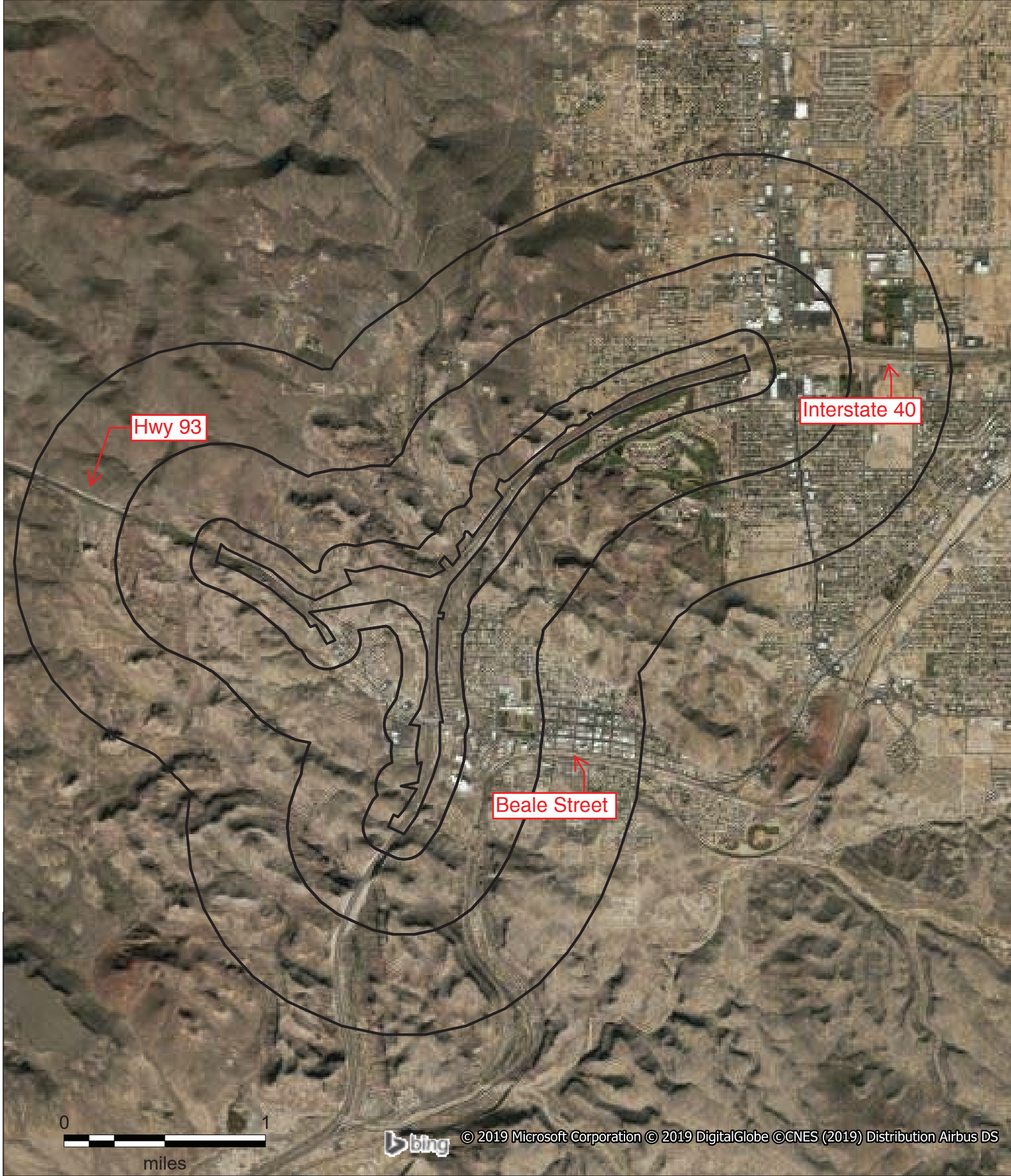
■ RCRA

▼ LUSTs

⊙ LANDFILLS

▲ RCRA COMPLIANCE

2019-09-065



LEGEND

★ **SITE**

◆ USTs
▼ LUSTs

● CERCLA / NFRAP
● LANDFILLS

■ RCRA
▲ RCRA COMPLIANCE

2019-09-065



14947 W. Piccadilly Road, Goodyear, AZ 85395 • Phone: 623-535-7800 • Fax: 623-535-7900
www.allands.com • e-mail: sharon@allands.com

Historical Title and Environmental Research

**TITLE AND JUDICIAL RECORDS FOR ENVIRONMENTAL LIENS AND
ACTIVITY AND USE LIMITATIONS; VOLUNTARY ENVIRONMENTAL
MITIGATION USE RESTRICTIONS BY OWNERS (VEMUR) AND
DECLARATION OF ENVIRONMENTAL USE RESTRICTIONS (DEUR)**

YOUR FILE NO: 18-096

ALLANDS FILE NO: 2019-09-065E

Date of Report: September 24, 2019

Title Plant Date***: September 10, 2019

***The Title Plant Date reflects the most current data made available by the information sources used at the time the research was performed.

ALLANDS hereby presents an Environmental Search Report to the land described below. Allands is not responsible for errors in the available records. The total liability is limited to the fee paid for this report. This is a confidential, privileged and protected document for the use of ACS.

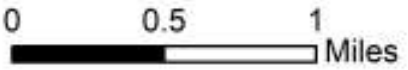
1. The land referred to in this report is located in Mohave County, Arizona.
2. Property located along and between Interstate 40 and Hwy 93, Kingman, Arizona, being in a portion of Section 7, Township 21 North, Range 16 West and in portions of Sections 12 through 15, inclusive and 22, 23 and 26, Township 21 North, Range 17 West, Gila and Salt River Base and Meridian.
3. Notice of Voluntary Environmental Mitigation Use Restriction recorded 2-28-2000 in Docket 3463, page 134 on Mohave County Assessors Parcel No. 304-09-047.
4. No DEUR'S; Environmental Liens, Brownfields, institutional controls, engineering controls, or activity and use limitations, if any, were found currently recorded against the property as searched at the subject county recorder's office.

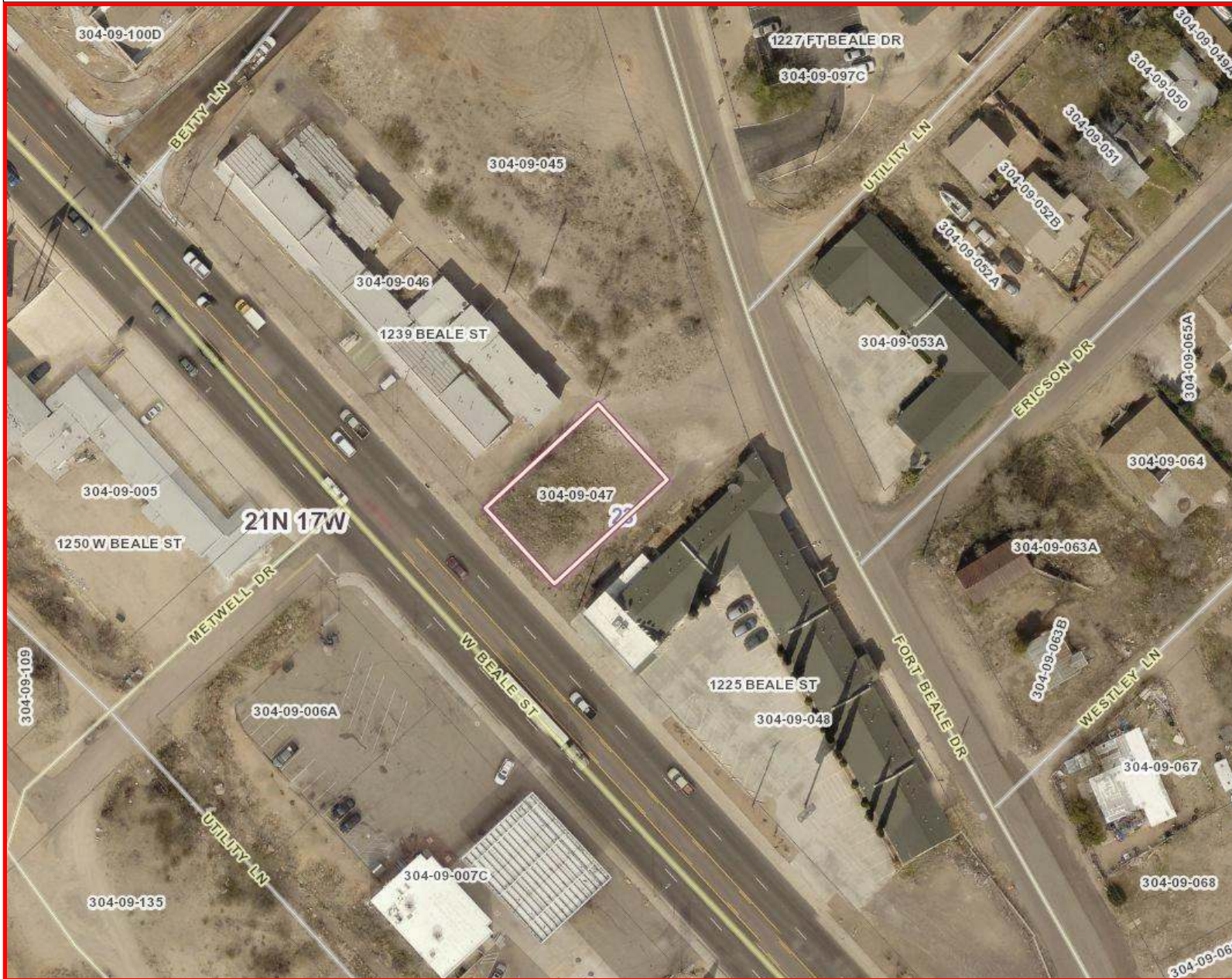


This product contains GIS data for general siting purposes only. All boundaries are approximate, and cannot be used for authoritative location purposes.

Basemap: ESRI Online Imagery 2019
 UTM Zone 11, NAD 83

- | | |
|----------------|-----------------------|
| ■ Milepost | Land Ownership |
| ▭ Project Area | ■ BLM |
| | ■ Arizona Game & Fish |
| | ▭ Private |





- Legend**
- ADOT Mileposts
 - COUNTY Mileposts
 - Sign Post Exists
 - Calculated Measure
 - Highways
 - Main Arterials
 - Collectors
 - Local
 - Railroad
 - City Limits (large scale)
 - Township/Range
 - Section
 - Surface Management**
 - Bureau of Land Management
 - Bureau of Reclamation
 - County
 - Indian Lands
 - Local or State Parks
 - Military
 - National Parks Service
 - Other
 - Private
 - State
 - State Wildlife Area
 - US Forest Service
 - US Fish & Wildlife Service

1: 1,277



0 106.4 212.8 Feet

(approximate scale)

Map Created: 9/24/2019

This map is a user generated static output from the Mohave County Interactive Map Viewer and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION, AS A LEGAL DOCUMENT, FOR PROPERTY DESCRIPTIONS, OR DETERMINATION OF LEGAL TITLE, AND SHOULD NEVER BE SUBSTITUTED FOR SURVEY OR DEED INFORMATION. The user agrees to comply with the Limitation of Use, and Assumption of Risk as stated in the full disclaimer at <http://gis.mohavecounty.us>

Notes:

RECORDING REQUESTED BY:
Pioneer Title Agency, Inc.

AND WHEN RECORDED MAIL TO:
William Ferrell
2245 E Devlin Ave
Kingman, AZ 86409

FEE# 2015007892

OFFICIAL RECORDS OF MOHAVE COUNTY
CAROL MEIER, COUNTY RECORDER
02/25/2015 09:44 AM Fee \$12.00
PAGE: 1 of 8

Escrow No. 11631-5684322 (HW)

CAPTION HEADING: Recording Warranty Deed for the Sole Purpose of adding the Trustees of the Trust and the names and addresses of the Beneficiaries to the Trust

Warranty Deed recorded November14, 2014 as Fee No. 2014049517 of Official Records of Mohave County, Arizona

Grantor William E. Ferrell and Betty L. Ferrell, husband and wife to


Grantee William Edward Ferrell and Betty Lou Ferrell, Trustees of the William Edward Ferrell and Betty Lou Ferrell Trust, under agreement dated may 3. 1995

Pursuant to ARS 33-404, Benficiaries names and addresses under said trust are disclosed in Fee # 2012009584 with Recorder of Mohave County, Arizona

Pioneer Title Agency

When recorded, mail to:

Name: William E. Ferrell
Address: 2245 E Derlin
Kingman Az.
City/State/Zip Code: 86409


FEE# 2014049517

OFFICIAL RECORDS
OF MOHAVE COUNTY
CAROL MEIER,
COUNTY RECORDER



11/14/2014 04:14 PM Fee: \$11.00

PAGE: 1 of 6

Space above this line for Recorder's use

ARS 11-1134 (B)(8)

WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS:

That I (we), William E. Ferrell and Betty L. Ferrell
the undersigned grantor(s), for the consideration of Ten (10) Dollars, and other valuable considerations,
do hereby convey to FERRELL'S FAMILY TRUST
all right, title and interest to and in that certain parcel of Real Property situated in MOHAVE
County, State of ARIZONA, and described as follows:

Legal description as follows.
See Attached sheets (4) pgs

And I (we) do warrant the title against all persons whomsoever, subject only to those encumbrances or
liens of Record, or as above set forth, if any.

IN WITNESS WHEREOF, I (we) have hereunto set my (our) hand(s) and seal this 13th
day of November, 2014

William E Ferrell William E Ferrell
Print Name of Grantor Signature of Grantor
Betty L. Ferrell Betty L. Ferrell
Print Name of Grantor Signature of Grantor

Print Name of Witness (if required by State Laws) Signature of Witness (if required by State Laws)

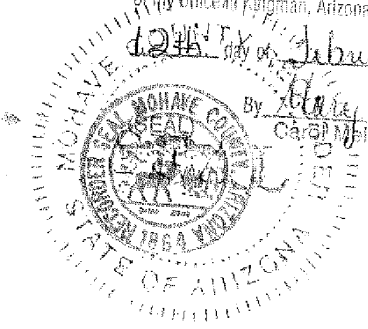
Print Name of Witness (if required by State Laws) Signature of Witness (if required by State Laws)

CERTIFICATION OF COPY
STATE OF ARIZONA }
COUNTY OF MOHAVE } SS

I, CAROL MEIER, the duly elected, qualified and acting Recorder of Mohave County, in the state of Arizona do hereby certify that the attached is a true, full and correct copy of the original instrument now on record in this office. IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of my office in Kingman, Arizona, this

12th day of February A.D. 2015

By Carol Meier - Trust Deputy
Carol Meier, County Recorder



ACKNOWLEDGMENT

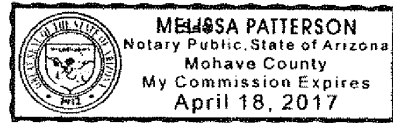
State of Arizona)
County of Mohave) ss.

On this 13th day of November, 2014, before me, the undersigned Notary Public, personally appeared William E Ferrell and Betty L Ferrell

known to me to be the individual(s) who executed the foregoing instrument and acknowledged the same to be his(her)(their) free act and deed.

My Commission Expires: 4-18-2017 M Patterson
Notary Public

If acknowledged in State of Florida, complete section below:
(Check One) Personally Known (or) Produced Identification
If applicable, Type of Identification Produced: _____



ACKNOWLEDGMENT
(State Of California)

State of California)
County of _____) ss.

On this _____ day of _____, before me, _____, the undersigned Notary Public, personally appeared,

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is(are) subscribed to the attached instrument and acknowledged to me that he(he)(she)(they) executed the same in his(her) (their) authorized capacity(ies), and that by his(her)(their) signature(s) on the instrument, the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Notary Public

Seal

Parcel Size: 0.14 Acres
Township, Range and Section: 22N, 16W, 30
Assessor Description: TRACT: 1104 NEW KINGMAN ADDITION UNIT 11 BLK 185 LOT 26
324-23-226

Parcel Size: 0.14 Acres
Township, Range and Section: 22N, 16W, 30
Assessor Description: TRACT: 1104 NEW KINGMAN ADDITION UNIT 11 BLK 187 LOT 12
324-23-276 *Book 7619 Pg. 855*

Parcel Size: 0.14 Acres
Township, Range and Section: 22N, 16W, 30
Assessor Description: NEW KINGMAN ADDITION UNIT 11 TR 1104 BLK 209 LOT 16
324-25-079

Assessor Description Information

Parcel Size: 0.17 Acres
Township, Range and Section: 22N, 17W, 25
Assessor Description: COLLEGE HEIGHTS UNIT 1 TRACT 1105 BLK 3 LOT 16
330-21-053

Book 7258 Pg. 540

Parcel Size: 0.14 Acres
Township, Range and Section: 22N, 16W, 29
Assessor Description: TRACT: 1101 NEW KINGMAN ADDN UNIT 08 BLK 101 LOT 30 POR SEC 29 & 30
324-14-150

Parcel Size: 0.28 Acres
Township, Range and Section: 22N, 16W, 30
Assessor Description: TRACT: 1103 NEW KINGMAN ADDITION UNIT 10 BLK 174 LOTS 23 & 24 CONT 12,000 SQ FT 324-22-461 & 462(324-22-462A)
324-22-462A

Parcel Size: 0.28 Acres
Township, Range and Section: 22N, 16W, 29
Assessor Description: NEW KINGMAN ADDITION UNIT 7 TR 1100 T22N R16W SEC 29 BLK 88 LOTS 33 & 34 CONT 12,000 SQ FT 324-07-353 & 354(324-07-354A)
324-07-354A

Parcel Size: 0.27 Acres
Township, Range and Section: 22N, 17W, 31
Assessor Description: T22N R17W SEC 31 SO-HI ESTATES UNIT ONE FIRST AMENDED BLK 6 LOT 1

APN 330-29-122



~~330-20-122~~

Parcel Size: 1.02 Acres
 Township, Range and Section: 20N, 17W, 7
 Assessor Description: TRACT: 3013 WALNUT CREEK ESTATES UNIT 2 BLK 5 LOT 10 CONT 1.02 AC

206-26-043

Parcel Size: 0.3 Acres
 Township, Range and Section: 22N, 17W, 13
 Assessor Description: DESERT FOUNTAIN ESTATES TRACT 3051-A BLK 1 LOT 5 330-32-007(330-35-001 THRU 043 & REM PROP 330-32-017)2005 TAX YR

330-35-005

Parcel Size: 1 Acres
 Township, Range and Section: 30N, 17W, 23
 Assessor Description: MEADVIEW UNIT 4 LOT 1318
 Book 5665 pg 436 343-08-210

Parcel Size: 0.16 Acres
 Township, Range and Section: 22N, 16W, 29
 Assessor Description: NEW KINGMAN ADDITION UNIT 7 TR 1100 T22N R16W SEC 29 BLK 94 LOT 21

324-08-221

Book: 6789
 Page: 495

Assessor Description Information

Parcel Size: 0.18 Acres
 Township, Range and Section: 21N, 16W, 18
 Assessor Description: KINGMAN METROPOLITAN ADDITION NO 2 BLK 7 LOT 59 THRU 61

311-17-139

Parcel Size: 2.2 Acres
 Township, Range and Section: 21N, 18W, 12
 Assessor Description: GOLDEN SAGE RANCHOS UNIT 57 BLK H LOT 8

306-08-104

Parcel Size: 0.19 Acres
 Township, Range and Section: 21N, 17W, 12
 Assessor Description: KINGMAN COUNTRY CLUB ADDITION UNIT 1 BLK 28 LOTS 21 & 22

305-18-586

3

3

Book: 6197
Page: 886

Assessor Description Information

Parcel Size: 1.13 Acres
Township, Range and Section: 21N, 17W, 1
Assessor Description: N2 OF PARCELAAS SHOWN ON RS 21/92 1/30/2002 2002-6114 CONT 1.13 ACRES 305-02-304 (305-02-322 & 323) 2006 TAX ROLL
305-02-322

Book: 4253
Page: 243

Assessor Description Information

Parcel Size: 0.14 Acres
Township, Range and Section: 22N, 16W, 29
Assessor Description: NEW KINGMAN ADDITION UNIT 8 TR 1101 T22N R16W SEC 29 BLK 100 LOT 32 CONT 6000 SQ FT OR 0.14 ACRES 324-14-113A (324-14-113B & C) 2008 TAX ROLL
324-14-113B

Book: 5790
Page: 116

Assessor Description Information

Parcel Size: 0.12 Acres
Township, Range and Section: . .
Assessor Description: METCALFE AC E 60X90' LOT 1 WH SAID 90' IS PAR TO SELYBNDRY OF LOT 1 BLK L SEC 23 21N 17W
304-09-047

Parcel Size: 1.18 Acres
Township, Range and Section: 20N, 17W, 7
Assessor Description: TRACT: 3043A WALNUT CREEK ESTATES UNIT 3 BLK 1 LOT 5CONT 51426 SQ FT
206-30-005

Parcel Size: 0.3 Acres
Township, Range and Section: 22N, 16W, 30
Assessor Description: TRACT: 1103 NEW KINGMAN ADDITION UNIT 10 BLK 174 LOTS 21 & 22 CONT 12,000 SQ FT 324-22-459 & 460(324-22-460A)
324-22-460A

(4)

Parcel Size: 0.25 Acres
Township, Range and Section: 21N, 16W, 18
Assessor Description: KINGMAN METROPOLITAN ADDITION NO 2 BLK 3 LOTS 55 THRU 58 CONT. 10,713 SQ FT
311-17-055A

4P

2000010296 BK 3463 PG 134
OFFICIAL RECORDS OF MOHAVE COUNTY
JOAN MC CALL, MOHAVE COUNTY RECORDER
02/28/2000 08:36A PAGE 1 OF 4
DAVID LOPEZ
RECORDING FEE 10.00

When recorded, mail to (for use by
property owner): DAVID LOPEZ
4714 STEINKE
KINGMAN AZ 86401

SPACE ABOVE THIS LINE FOR COUNTY RECORDER USE ONLY

**NOTICE OF VOLUNTARY ENVIRONMENTAL MITIGATION
USE RESTRICTION BY OWNER(S)**

Pursuant to A.R.S. § 49-152(B), the owner(s) JAMES A MCCAIN DAVID A LOPEZ
of the following described property: (Please Print)

Facility ID #0-00 5652 LUST File # 4208.08 Facility Name D&J GAS N60

Parcel ID # 304-09-047 Roll # 111011 (insert legal description of entire parcel)
METCALFE AC E 60x90' LOT 1
WH SAID 90' IS PART TO SELY

has (have) remediated a portion of the above-described property, which remediated portion is described as follows:
SEE ATTACHMENT A

(insert legal description of remediated portion, the source of the release, and the remaining contaminants)

The date when the remediation was completed is: 2-26-99 ^{U.S.T} Ref # 99-0004414 / #99-000845

The undersigned owner voluntarily agrees to limit and restrict the use of the remediated portion of the property to non-residential uses as defined in A.R.S. §49-151(A).

Approved:

Mark D. Charles

James A McCain
Signature of owner(s)


David Lopez
Signature of owner(s)

A.C. Fin. Jeannette A. Calhoun, Director MARK D. CHARLES
Waste Programs Division
Arizona Department of Environmental Quality

STATE OF ARIZONA

County of Maricopa


This instrument was acknowledged before me this
7th day of January, 2000
by Mark D. Charles

 OFFICIAL SEAL
CAROLYN W. POOLE
Notary Public - State of Arizona
MARICOPA COUNTY
My Comm. Expires April 1, 2002
My commission expires: 4/1/02

STATE OF ARIZONA

County of Mohave

This instrument was acknowledged before me this
21 day of January, 2000
by James A. McCain + David Lopez

 NOTARY PUBLIC
STATE OF ARIZONA
Mohave County
RENEE STOCKTON
My Commission Expires 06/01/03

Renee Stockton
Notary Public

Please make no marks below this line

RECEIVED
FEB - 3 2000
UST SECTION - ADEQ/WPD

FAC ID: 5652
LUST #: 4208.08
SYS CORR#: 00-3681

PAGE 2 OF 4
BK 3463 PG 135 FEE#2000010296

IMPORTANT - SEE REVERSE SIDE FOR COMPLETE EXPLANATION OF YOUR TAX NOTICE AND PAYMENT INSTRUCTIONS.

JAN. 1, 1999

DEC. 31, 1999

MOHAVE COUNTY, ARIZONA
TAX YEAR: 1999

PARCEL IDENTIFICATION 304-09-047	ROLL NUMBER 111011	TAX AREA CODE 0452	POSTING KEY 976279
-------------------------------------	-----------------------	-----------------------	-----------------------

METCALFE AC E 60X90' LOT 1
WH SAID 90' IS PAR TO SELY

MC CAIN JAMES A &
DEBORAH L ETAL JT
3041 E ANDY DEVINE AVE
KINGMAN, AZ 86401-4206

W.D. House PO #1192

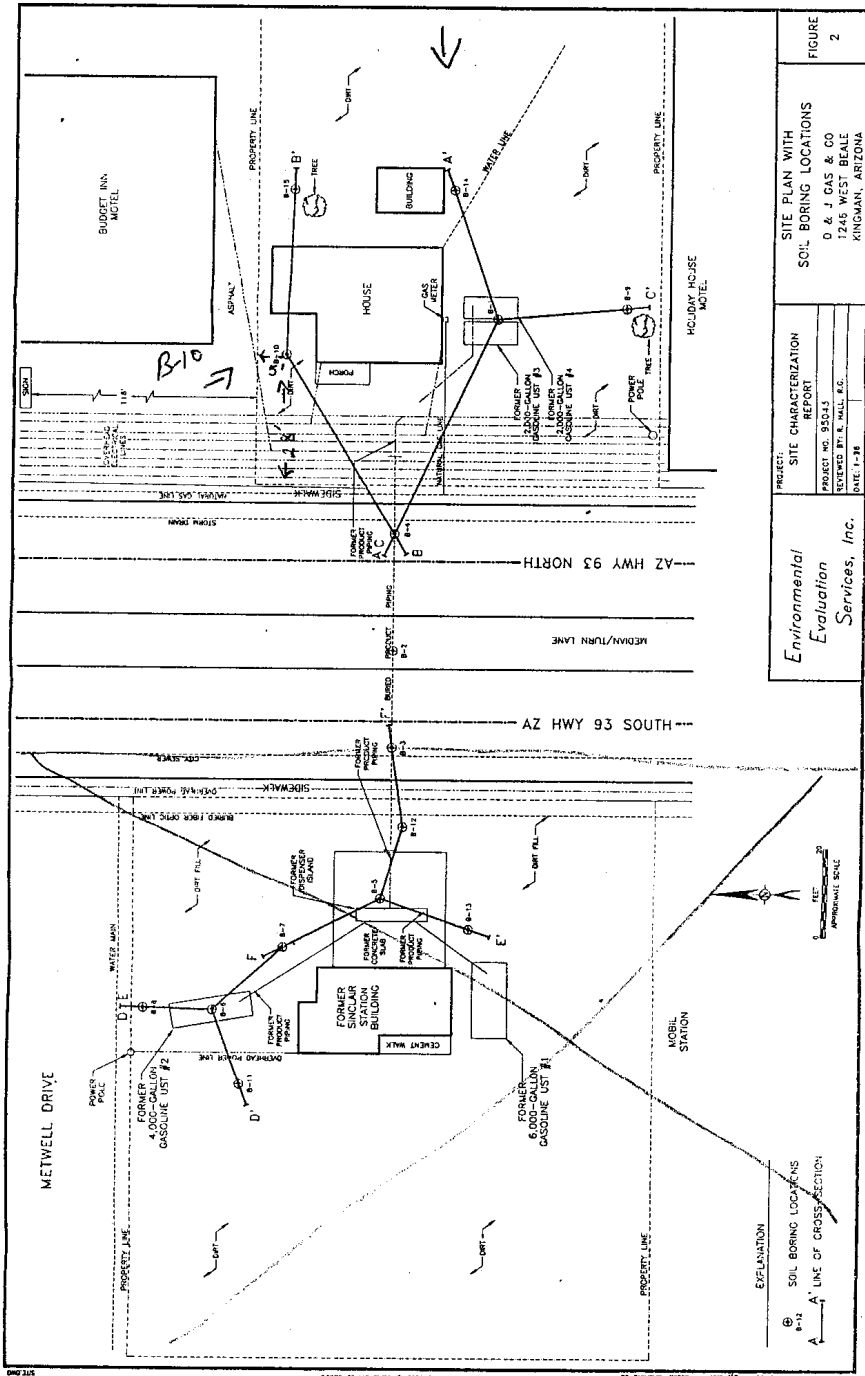
PRIMARY PROPERTY TAX CALCULATION (1)			
ITEM	LIMITED VALUE	ASSMT. %	ASSESSED VALUE
LAND, BLDGS, ETC.	34264	10.0	3426
PERSONAL PROPERTY			
TOTALS	34264		3426
ITEM	EXEMPTION	TAX RATE	AD VALOREM TAX
LAND, BLDGS, ETC.		7.3231	250.90
PERSONAL PROPERTY			
TOTALS			250.90

SECONDARY PROPERTY TAX CALCULATION (2)			
ITEM	FULL CASH VALUE	ASSMT. %	ASSESSED VALUE
LAND, BLDGS, ETC.	34264	10.0	3426
PERSONAL PROPERTY			
TOTALS	34264		3426
ITEM	EXEMPTION	TAX RATE	AD VALOREM TAX
LAND, BLDGS, ETC.		2.4803	84.98
PERSONAL PROPERTY			
TOTALS			84.98

TAX DISTRIBUTION (4)						TAX SUMMARY (3)	
TAX CODE	TAX JURISDICTION	1999 TAX	1998 TAX	CURRENT RATE/100			
02000	MOHAVE COUNTY	59.97	64.31	1.75000	PRIMARY		
54151	KINGMAN CITY SECONDARY	12.45	14.77	.36330	AD VALOREM TAX		250.90
08150	MOHAVE COMMUNITY COLLEGE	31.40	32.29	.91660	LESS STATE AID TO EDUCATION		
02000	SCHOOL EQUALIZATION	17.87	19.47	.52170	NET PRIMARY		
05004	KINGMAN ELEM SD #4	68.70	87.32	2.00520	AD VALOREM TAX		250.90
55004	KINGMAN ELEM SECONDARY	22.02	25.74	.64280	SECONDARY		
06100	MOHAVE UNION HIGH SCHOOL	72.96	79.78	2.12960	AD VALOREM		84.98
56100	MUHS SECONDARY	16.75	19.09	.48890	SPECIAL		
28000	MO CO TV CID	2.97	3.33	.08670	DISTRICT TAX		
11900	FIRE DIST ASSIST FUND	3.43	3.84	.10000	SPECIAL		
14900	MO CO LIBRARY DIST	10.23	10.50	.29860	ASSESSMENTS		
15000	MO CO FLOOD CONTROL DIST	17.13	19.20	.50000	TOTAL TAX DUE	335.88	
					HALF TAX	167.94	
						DELINQUENT DATES	
						1ST HALF	NOV 01, 1999
						2ND HALF	MAY 01, 2000
						VALUATION DATE	
						ASSESSMENT DATE	
						THIS IS THE ONLY NOTICE YOU WILL RECEIVE. NO RECEIPT WILL BE SENT UNLESS REQUESTED.	
TOTALS		335.88	379.64				

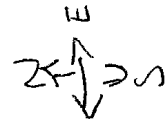
MOHAVE COUNTY
P-A-I-D
07 1999
CK 1192
TREASURER *[Signature]*

ATTACHMENT A



PROJECT:	SITE CHARACTERIZATION REPORT
PROJECT NO.:	95013
DESIGNED BY:	E. MULL, A.S.
DATE:	1-28
SITE PLAN WITH SOIL BORING LOCATIONS	
D & J GAS & CO 1245 WEST BEALE KINGMAN, ARIZONA	
FIGURE	2

Environmental Evaluation Services, Inc.



3

Boring B 10 is 5 feet from the north property line and 28 feet from the west property line. This is the area concerned in the VEMUR for LUST # 4208.08. The building on this site is going to be demolished sometime in the spring of 2000.

RECORDER'S MEMO Legitimacy Questionable For Good Reproduction

PAGE 4 OF 4
BK 3463 PG 137 FEE#2000010296

**Appendix 5:
Flood Insurance Rate Map
and
U.S. Fish and Wildlife Service National Wetlands Inventory
Map**

National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

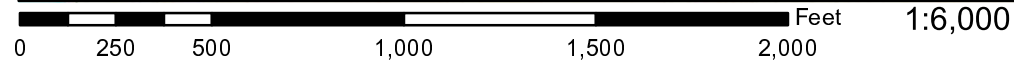
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/25/2019 at 3:36:09 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

35° 11' 15.19" N



35° 10' 45.78" N

114° 3' 49.17" W

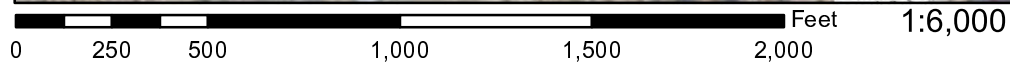
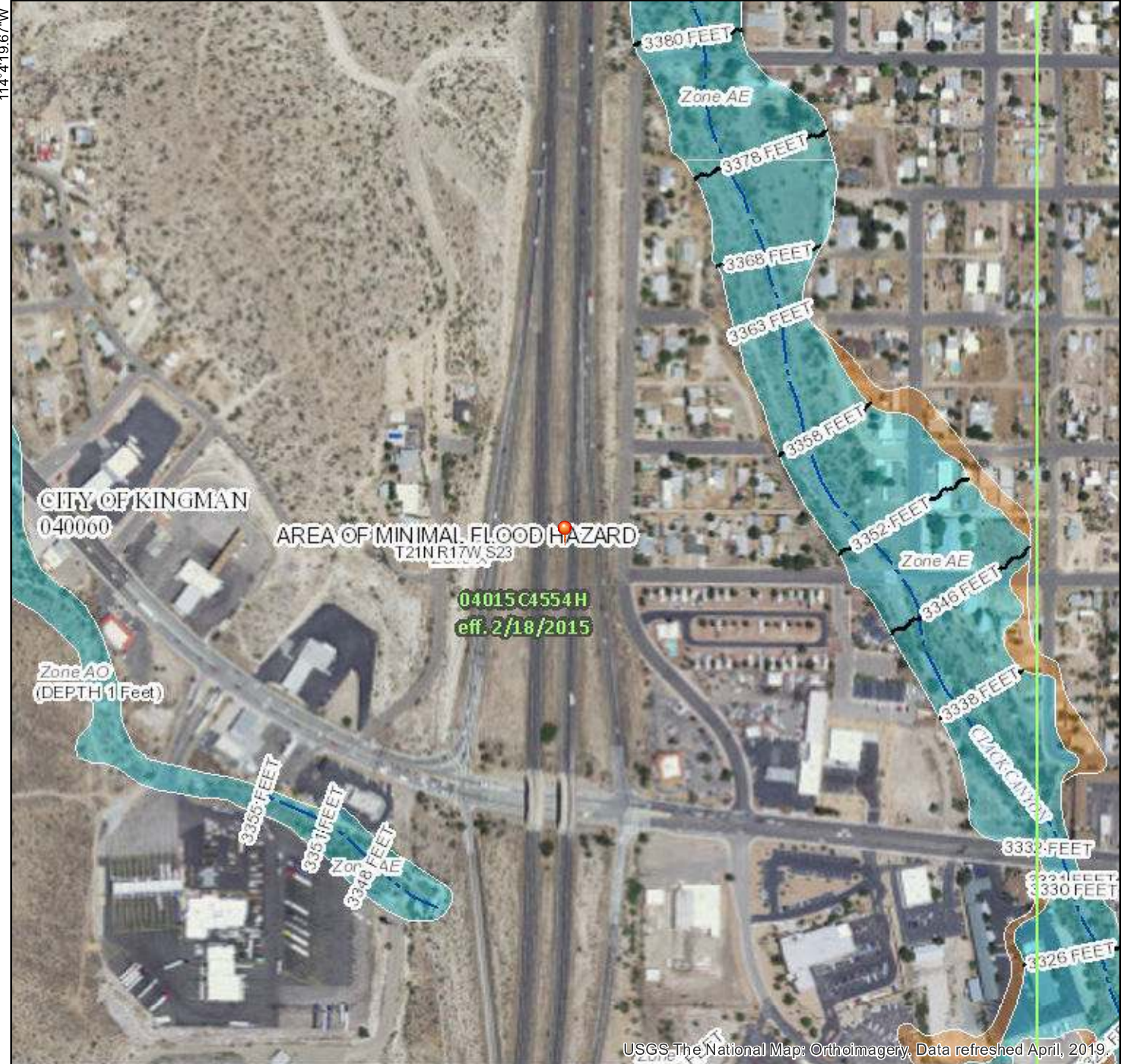
114° 4' 26.62" W



National Flood Hazard Layer FIRMette



35° 11' 49.28" N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

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114° 3' 42.21" W

35° 11' 19.87" N

National Flood Hazard Layer FIRMette



35° 12' 17.60" N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, A99	With BFE or Depth Zone AE, AO, AH, VE, AR
	Regulatory Floodway	

		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS OF FLOOD HAZARD

		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D

OTHER AREAS

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

		20.2
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
OTHER FEATURES		Profile Baseline
		Hydrographic Feature

		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/25/2019 at 3:52:36 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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0 250 500 1,000 1,500 2,000 Feet 1:6,000

USGS The National Map: Orthoimagery. Data refreshed April, 2019.

35° 11' 48.20" N

114° 3' 53.03" W



National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
MAP PANELS		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/25/2019 at 3:41:21 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

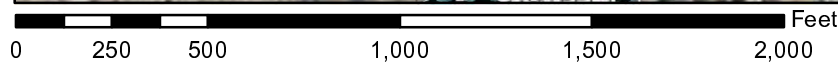
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

35° 12' 22.35" N

114° 48.70" W



USGS The National Map: Orthoimagery. Data refreshed April, 2019.



1:6,000

35° 11' 52.95" N

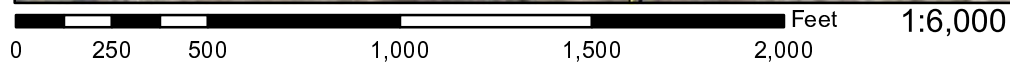
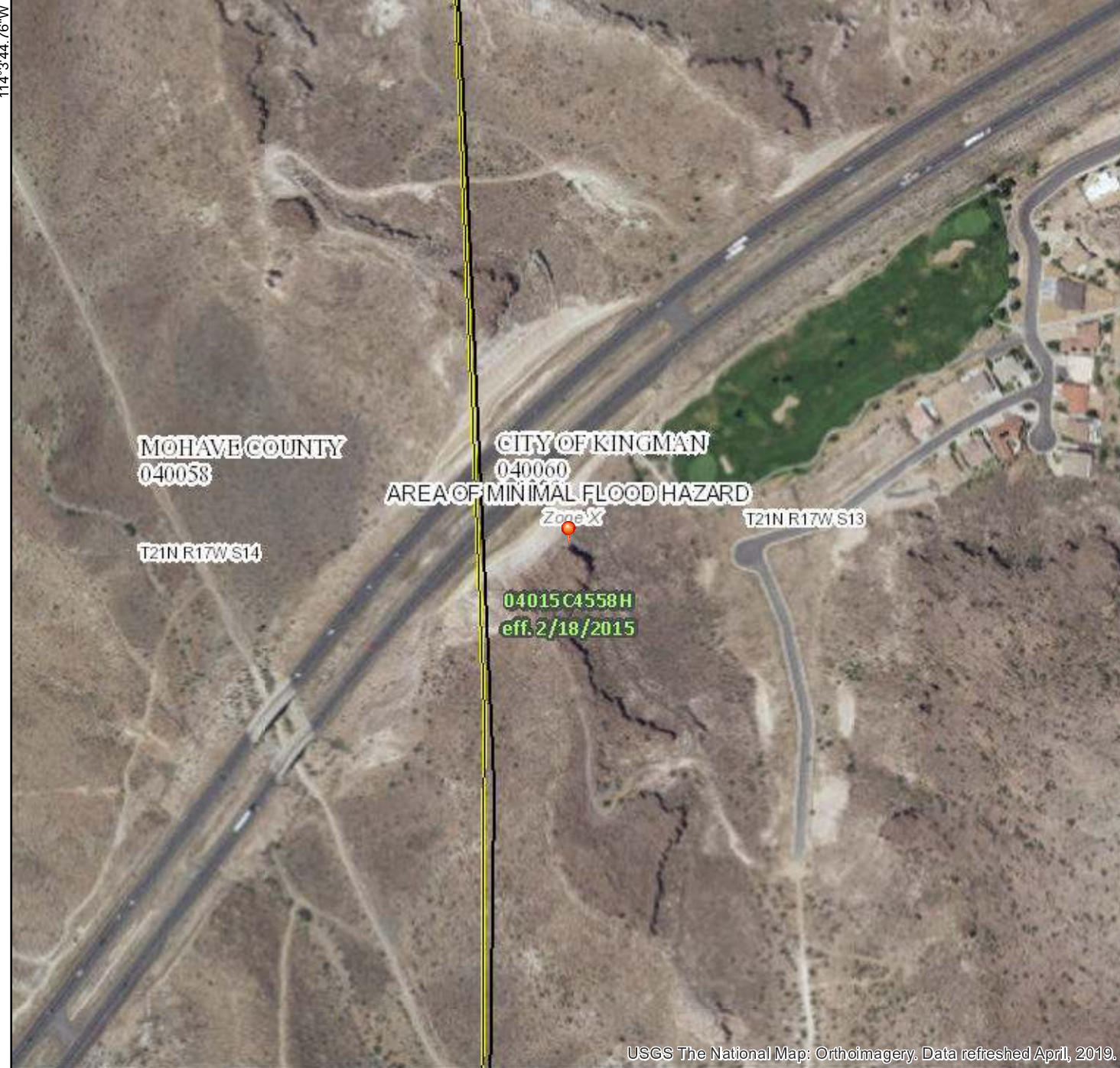
114° 31.24" W



National Flood Hazard Layer FIRMette



35° 12'46.97"N



35° 12'17.57"N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/25/2019 at 3:47:39 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

114° 37.30'W

114° 34.76'W

National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- | | | |
|------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE)
<i>Zone A, V, A99</i> |
| | | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> |
| | | Regulatory Floodway |
| OTHER AREAS OF FLOOD HAZARD | | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
| | | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> |
| | | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> |
| | | Area with Flood Risk due to Levee <i>Zone D</i> |
| OTHER AREAS | | Area of Minimal Flood Hazard <i>Zone X</i> |
| | | Effective LOMRs |
| GENERAL STRUCTURES | | Area of Undetermined Flood Hazard <i>Zone D</i> |
| | | Channel, Culvert, or Storm Sewer |
| OTHER FEATURES | | Levee, Dike, or Floodwall |
| | | Cross Sections with 1% Annual Chance Water Surface Elevation |
| MAP PANELS | | Coastal Transect |
| | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| | | Jurisdiction Boundary |
| | | Coastal Transect Baseline |
| | | Profile Baseline |
| | | Hydrographic Feature |
| | | Digital Data Available |
| | | No Digital Data Available |
| | | Unmapped |



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

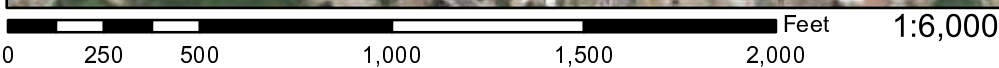
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/25/2019 at 3:48:56 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

35° 13'4.24"N



USGS The National Map: Orthoimagery. Data refreshed April, 2019.



35° 12'34.84"N

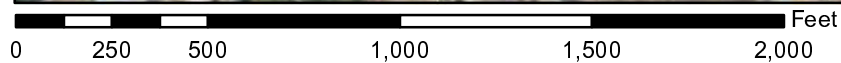
114° 2'30.84"W

114° 38.29"W

National Flood Hazard Layer FIRMette



35°13'11.05"N



USGS The National Map: Orthoimagery. Data refreshed April, 2019.

1:6,000 35°12'41.66"N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/25/2019 at 3:50:53 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

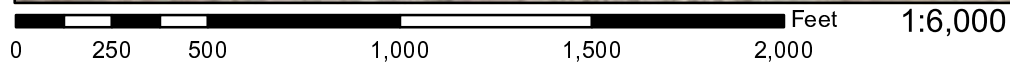
114°21'10.29"W



National Flood Hazard Layer FIRMette



35° 12' 22.77" N



USGS The National Map: Orthoimagery. Data refreshed April, 2019.

35° 11' 53.38" N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>

OTHER AREAS		Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
		Area of Undetermined Flood Hazard <i>Zone D</i>
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
OTHER FEATURES		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/25/2019 at 3:56:00 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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114° 46' 71" W

National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



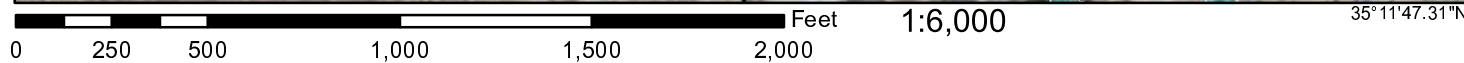
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

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35° 12' 16.71" N



114° 41' 16.28" W





January 13, 2020

Wetlands

- Estuarine and Marine Deepwater
- Freshwater Forested/Shrub Wetland
- Lake
- Freshwater Emergent Wetland
- Freshwater Pond
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.