

**PHASE I ENVIRONMENTAL ASSESSMENT
NON-FEDERAL PARCEL, EAST CLEAR CREEK
COCONINO COUNTY, ARIZONA**
Resolution Copper

Prepared for:

RESOLUTION
C O P P E R

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Project Number: 807.126

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EXPIRES 9/30/2019




WestLand Resources

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TABLE OF CONTENTS

EXECUTIVE SUMMARY.....	ES-1
1. INTRODUCTION.....	1
1.1. Purpose.....	1
1.2. Scope of Services	2
1.3. Limitations and Exceptions	2
1.4. Special Terms and Conditions	3
1.5. User Reliance.....	3
1.6. Continued Viability.....	3
2. SITE DESCRIPTION	4
2.1. Location and Legal Description	4
2.2. Site and Vicinity General Characteristics	4
2.3. Current Use of the Property	4
2.4. Description of Structures, Roads, and Other Improvements on the Site.....	4
2.5. Current Uses of Adjoining Properties	5
3. USER PROVIDED INFORMATION.....	6
3.1. Title Records	6
3.2. Environmental Liens or Activity and Use Limitations	7
3.3. Specialized Knowledge	7
3.4. Commonly Known or Reasonably Ascertainable Information	7
3.5. Valuation Reduction for Environmental Issues.....	7
3.6. Reason for Performing Phase I	7
3.7. Other	7
4. RECORDS REVIEW.....	8
4.1. Environmental Record Sources.....	8
4.2. Prior Environmental Reports	8
4.3. Physical Setting.....	9
4.3.1. Soils	10
4.3.2. Geology	10
4.3.3. Hydrology.....	11
4.3.4. Hydrogeology	11
4.4. Historical Use Information on the Property and Adjoining Properties	12
4.4.1. Historical Topographic Maps.....	12
4.4.2. Historical Aerial Photographs	13
4.4.3. Property Tax Files.....	14
4.4.4. Local Street Directories.....	14
4.4.5. Sanborn Fire Insurance Maps	14
4.4.6. Other Historical Sources.....	14
5. SITE RECONNAISSANCE.....	16
5.1. Methodology and Limiting Conditions	16
5.2. Indications of Past Uses of the Property	17
5.3. Exterior Observations.....	17
5.3.1. Hazardous Substances and Petroleum Product Containers in Connection with Identified Uses.....	17

5.3.2. Hazardous Substance and Petroleum Product Containers not in Connection with Identified Uses.....	17
5.3.3. Storage Tanks (Aboveground and Underground)	17
5.3.4. Unidentified Substance Containers	17
5.3.5. Drums	17
5.3.6. Odors	17
5.3.7. Pools of Liquid, Pits, Ponds, or Lagoons.....	18
5.3.8. Wastewater	18
5.3.9. Septic Systems	18
5.3.10. Wells.....	18
5.3.11. Stained Soil or Pavement	18
5.3.12. Stressed Vegetation.....	18
5.3.13. Solid Waste Disposal	18
5.3.14. PCB Equipment	19
5.4. Interior Observations.....	19
6. INTERVIEWS	20
6.1. Interview with Owner	20
6.2. Interviews with Occupants.....	20
6.3. Interviews with Local Government Officials.....	20
6.4. Interviews with Others	20
7. FINDINGS AND OPINIONS.....	21
8. CONCLUSION.....	24
9. DEVIATIONS	25
10. ADDITIONAL SERVICES	26
11. QUALIFICATIONS AND SIGNATURE OF ENVIRONMENTAL PROFESSIONALS ...	27
12. REFERENCES	28

FIGURES

(follow text)

- Figure 1. Vicinity Map
- Figure 2. Aerial Overview
- Figure 3. Site Reconnaissance Map

APPENDICES

- Appendix A. Site Photographs
- Appendix B. User and Owner Questionnaires:
 - Ms. Casey McKeon, Resolution Copper Mining LLC
- Appendix C. Title Records
- Appendix D. ERS Environmental LienSearch Report with Recorded Deeds
- Appendix E. ERS RecCheck Area Report Results
- Appendix F. Historical Topographic Maps
 - 1965 Topographic Map
 - 1998 Topographic Map
 - 2014 Topographic MapHistorical Aerial Photographs
 - 1953 Aerial Photograph
 - 1968 Aerial Photograph
 - 1980 Aerial Photograph
 - 1992 Aerial Photograph
 - 1997 Aerial Photograph
 - 2003 Aerial Photograph
 - 2007 Aerial Photograph
 - 2010 Aerial Photograph
 - 2014 Aerial Photograph
- Appendix G. Coconino County Assessor's Property Detail Information
- Appendix H. Résumés

EXECUTIVE SUMMARY

WestLand Resources, Inc. (WestLand) was contracted by Resolution Copper Mining LLC (the “User”) to perform a Phase I Environmental Site Assessment (ESA) for approximately 640 acres referred to as East Clear Creek (“the Property”). The Property comprises the entirety of Section 9 in Township 14 North, Range 12 East relative to the Gila and Salt River Baseline and Meridian, in Coconino County, Arizona (**Figure 1**). The Coconino County Assessor Parcel Number (APN) for the Property is 403-13-006E. An aerial photograph showing the boundary of the Property is included as **Figure 2**. Representative ground photographs depicting the site and vicinity are provided in **Appendix A**.

This Phase I ESA has been completed in accordance with the guidelines provided in the American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property* (ASTM E 2247-08). The purpose of this work was to identify the presence or potential presence of recognized environmental conditions (RECs) resulting from past or present activities. According to ASTM guidelines, a REC is defined as “...the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property.”

FINDINGS

Environmental Liens/Activity and Use Limitations. WestLand engaged Environmental Record Search (ERS) to conduct a search of available land title records for environmental liens and activity and use limitations (AULs) at the Property. A search for environmental liens and AULs was completed for Coconino County APN 403-13-006E; no records of environmental liens or AULs associated with the Property were identified.

Records Review.

Environmental Records. WestLand contracted with ERS to conduct an electronic search of regulatory agency databases for references to the Property and surrounding lands. The database search included standard and additional federal, tribal, state, local, and supplemental database records, as well as ERS proprietary database records. The regulatory agency databases were queried by conducting a search from the boundaries of the Property to the minimum search distance recommended by the ASTM standard. The Property did not appear on any of the databases searched. One database record occurs within the ASTM-recommended distance from the Property boundary: a U.S. Bureau of Reclamation oil and gas well site that is less than 0.1 miles from the Property. This site is reported in the OGW-AZ database (Arizona Oil and Gas Wells identified by the Arizona Geological Survey). The records provided for this site indicate that a permit was obtained to drill a well reportedly used for stratigraphic

testing in May 1966 (geologic exploration in connection to potential oil and gas development). The lease number associated with this site is “01 Mack’s Crossing” which refers to the name of a river crossing west of the west boundary of the Property. This record does not suggest this well is associated with monitoring or testing for releases of hazardous materials or petroleum products. It is possible that lubricants and fuel could have been spilled on adjoining land when this well was drilled but any releases would likely be of a *de minimis* nature.

Prior Environmental Report. A prior Phase I ESA was conducted by Golder Associates Inc. (Golder), in May 2005 (Golder 2005). The results of the 2005 Phase I ESA indicated that there was a low environmental risk associated with the Property and that no further investigation or remedial action were warranted at that time. Specific records of timber harvesting (logging) are not readily available, but anecdotal information refers to timber harvesting on the Property in the past. The only potential environmental concerns identified by Golder were: (1) the unlikely possibility that upstream activities might introduce contaminants in East Clear Creek. The site owner would not be liable for this potential contamination, though the Property could be adversely affected; and (2) lubricants and fuel could have been spilled on the Property during the years in which active logging occurred. Golder concluded that, these releases, if extant, were and continue to be of a *de minimis* nature. WestLand agrees with this assessment.

Physical Setting. The Property is located along the canyon floor and adjacent upland areas of East Clear Creek approximately 30 miles north of Payson and 38 miles southwest of Winslow in Coconino County. The Property consists of approximately 640 acres (259-ha). The Property lies in the East Clear Creek-Clear Creek sub-basin within the Little Colorado River watershed. The Property is located within the Little Colorado River sub-basin of the Little Colorado River Plateau groundwater basin, which covers a large swath of land in Coconino, Navajo, and Apache counties. Groundwater flow direction is from south to north in this portion of the basin.

Through and within the vicinity of the Property, East Clear Creek has carved a canyon approximately 600 feet deep through Precambrian sedimentary rocks of the plateau. Numerous named and unnamed tributaries both on- and off-site display similar landform characteristics. The Property elevation ranges from about 6,195 feet above mean seal level (amsl) in the streambed as it exits the Property near the northeastern corner to about 6,820 feet amsl in the uplands near both the southwestern and the northwestern corners.

The Arizona Department of Water Resources (ADWR) Well Registry spatial database was queried to review any data for wells within the boundaries of the Property. There are no registered wells at the Property. Numerous wells are registered with the ADWR in the adjacent section to the northwest (Section 5), which contains a portion of the Starlight Pines subdivision. Most of these wells are between 600 feet and 800 feet deep, with water levels typically ranging between 500 feet and 650 feet below ground surface (bgs).

The ADWR Well Registry indicates there are no water wells including quality monitoring wells at the Property or in the immediate vicinity of the Property. The nearest wells serve the residential community northwest of the Property. In 2015, a water quality monitoring station was observed by WestLand during a separate site visit for the Property, in Section 8, on adjoining land near the northwestern corner of the Property. This is presumed to be a water monitoring station referred to in the prior Phase I ESA near Mack's Crossing (Golder 2005) and appears to be a surface water capture sampling station on adjoining land

Analytical results from water quality sampling in 1976 suggest that all chemical constituents in East Clear Creek are within acceptable water quality standards for the support of cold water fisheries habitat (Golder 2005). More recent data from the EPA suggests that water quality in East Clear Creek is fully supportive of agricultural use; fish, shellfish, and wildlife protection and propagation; and primary contact recreation (Golder 2005).

Historical Use. WestLand identified a Bureau of Land Management (BLM) record maintained by the General Land Office (GLO) for a Record of Patent (BLM 1955) for the Property (and extensive other tracts of land) to the Santa Fe Pacific Railroad Company pursuant to the Act of July 27, 1866, for the purpose of constructing a railroad and telegraph line from Missouri and Arkansas to the Pacific Coast. There is no evidence the Property was developed in connection with the railroad or that railroad facilities occur on adjoining Property or immediately upstream of the Property. According to the ownership history records provided by the Coconino County Assessor's Office, the parcel was split from APN 403-13-006C. Phelps Dodge Company owned the Property from at least 1970 until 2001, when it was sold to Blue Ridge 800 LLC and on the same day Canyon Point LLC (Coconino County 2015). Clear Creek 640 LLC acquired the Property in 2002 and sold it to the Trust for Public Land in 2005, and on the same day the Trust for Public Land sold the Property to Swift Current Land & Cattle LLC (a subsidiary of Resolution Copper Mining LLC). Available information suggests that none of these latter owners used the Property for any active purpose. It is likely that after divestment by the railroad company the Property was held for water rights or investment purposes, but has been used informally by the public (e.g., trespassers) for the recreational purposes.

WestLand reviewed a recent cultural resource inventory report available for the Property that includes archaeological research and results of prior record searches (WestLand 2016). The historical map review for the cultural resource inventory report revealed no cultural resources within the Property with the exception of native archaeological culture sites, although one historical feature was identified just outside the Property. The GLO plat surveyed in 1893 depicts a "Log House" in the southwest quarter of the southwest quarter of Section 4, Township 14 North, Range 12 East, just north of the Property (Drummond 1895). Recent development has not occurred at the Property. Dirt roads are the only developed, formal use. Survey reports completed since the 1970s for the Property and vicinity provide some indication of planned use of land in the area. The Coconino National Forest and

Museum of Northern Arizona site files were reviewed to identify previous surveys and previously recorded sites in the vicinity of the Property. Previous surveys in the vicinity (within one mile from the Property) have been conducted by the Coconino National Forest, Arizona State University, and SEC, Inc., and Environmental Consultants. Two of the surveys were associated with timber sales in the area. Two were USFS projects involving “Planning Units” and “Treatment Areas,” although the USFS reports do not further elaborate on the descriptions of the projects. These previous projects appear to be linear surveys associated with land at the southeast portion of the Property and may have been associated with road construction or maintenance. Two of the previous surveys were conducted in preparation for road maintenance or the obliteration of existing roads. One prior survey was for the construction of stock tanks associated with grazing allotments on adjoining land.

WestLand reviewed publications available from the USFS regarding the Property and immediate vicinity to determine past land use. As part of the National Forest System, the Coconino National Forest is managed for multiple uses, ranging from recreation to resource procurement (such as logging). Logging has historically been conducted in the vicinity of the Property, with the most recent timber sale (identified as the Holder sale, along FR 137 south of the Property) in the late 1980s (USFS 1987). A project to reduce fuel loads in the 64,000 acres (26,000 hectares) comprising the watersheds upstream of the C. C. Cragin dam was planned for late 2015 (USFS 2015a). The Coconino National Forest is included in the Four Forest Restoration Initiative (4FRI), a comprehensive plan to create landscape-scale restoration approaches that will provide for fuels reduction, forest health, and wildlife and plant diversity (USFS 2015b). None of the publications available from the USFS reviewed by WestLand indicate use of hazardous materials or petroleum products at the Property.

The Property is mostly surrounded by federal lands managed as open space by the USFS as part of the Coconino National Forest, with privately held parcels (sections) to the northwest and southeast (**Figure 1**). Starlight Pines, a low-density residential subdivision, occupies the section of land adjoining the Property to the northwest. The section of land to the southeast appears to be open space; the only improvement appears to be dirt roads.

There is no evidence of an established town historically in the immediate vicinity or of homesteading or other residential use of the Property. The Property has likely been subject to logging, grazing, and dispersed recreational use overtime (hiking, fishing, and camping). A stock tank near the southern Property boundary indicates that the Property has been used for grazing; it is also within the Bar T Bar grazing allotment (AGFD 2015) but has not been used for grazing for at least 10 years (Dan Mead, pers. comm.). WestLand obtained the property tax maps and parcel detail reports for the Property from the Coconino County Assessor. This information indicates the Property does not have any issued building permits. It is possible that lubricants and fuel could have been spilled on the Property during the years in which active logging occurred. However, we concur with prior assessments that these releases, if they occurred, would likely be of a *de minimis* nature. Additionally, cattle grazing likely

occurred in the past at the Property; however, there was no indication that a ranch headquarters was located at the Property where spills of hazardous materials or petroleum products would be likely. Additionally, there was no evidence of corrals or dipping vats to suggest the use of parasitic prevention or treatment application to cattle at the Property. Any releases of hazardous material or petroleum products in connection to recreational activities at the Property and in the immediate vicinity of the Property (overland vehicle use, hiking, fishing and camping) if they occurred, would likely be of a *de minimis* nature not suspected to have resulted in a REC.

Site Reconnaissance. WestLand environmental specialists Diana Sandoval and Sarah Richman conducted field reconnaissance of the Property on June 8 and June 9, 2016, to observe current site conditions and existing environmental conditions for the Property. Access to the Property is only provided by lengthy primitive dirt roads or overland hiking across rugged terrain. Anthropogenic improvements on the Property were not observed with the exception of roads and informal fire pits. Very limited quantities debris were found in scattered areas north of the Property. However, these items were either comprised of inert materials (e.g., aluminum cans and glass) or present in small quantities (i.e., a single spray paint can). Field observations were consistent with the findings of WestLand's historical review of the Property and surrounding properties.

Interviews. Interviews were conducted with the report User and owner and the local fire department. Mr. Dan Mead, a land specialist who is familiar with the Property, was not interviewed for this Phase I ESA but information provided by him for other reports on the Property was incorporated as appropriate. Based on the knowledge of, and experience related to, the Property, none of the interviewees were aware of indicators that point to the likely presence of contamination on the Property. None of the interviews revealed information that indicated the likely presence of contamination on the Property.

The report User is also the land owner. Swift Current Land and Cattle LLC is the land owner and a subsidiary of Resolution Copper Mining LLC. Ms. Casey McKeon completed the User questionnaire and provided responses to a separate owner questionnaire, as representative of Resolution Copper Mining LLC. Ms. McKeon indicated that to her knowledge, the Property has been vacant and not used for development other than historical use for recreation and logging. There has been no evidence to suggest, or any knowledge that hazardous materials or petroleum products were stored or used at the Property. The User notes that there is a possibility that small quantities of hydrocarbons were stored or used on site during past logging; however, no evidence of any storage or use of these product at the Property has been identified. The User noted it is possible that small incidental releases associated with the potential use of hydrocarbons may have occurred, though there is no evidence of any such releases was observed. No other commonly known or reasonably ascertainable information relevant to potential RECs was provided by the User.

The report User provided copies of title information in connection to the Property including an ALTA Standard Owners 1992 policy of insurance, dated April 15, 2005, and amended May 17, 2005. The title documents include a list of Schedule B requirements and exceptions which typically list known land encumbrances (i.e., taxes, deed restrictions, easements, liens) and may provide an indication of the potential for contamination at the Property. Based on WestLand's review of the listed standard and specific encumbrances, none readily indicate the release or threat of a release of a hazardous material or petroleum product at the Property.

WestLand also conducted an interview with a local government official: Ms. Cat Sobel of the Blue Ridge Fire District. The fire district was contacted to inquire about any responses to the Property or adjoining properties with regard to fuel/chemical spills or if they were aware of any chemical or petroleum product storage at the Property. On April 22, 2016, Cat Sobel (Blue Ridge Fire District, info@brfdaz.org) reported that they have no knowledge of spills or storage at the Property or on land in the immediate vicinity.

RECOGNIZED ENVIRONMENTAL CONDITIONS

WestLand has performed this Phase I ESA in conformance with the scope and limitation of ASTM E 2247-08 for the Property. This assessment has revealed no evidence of RECs in connection with the Property.

I. INTRODUCTION

WestLand Resources, Inc. (WestLand) was contracted by Resolution Copper Mining, LLC (the “User”) to perform a Phase I Environmental Site Assessment (ESA) for approximately 640 acres referred to East Clear Creek (“the Property”). The Property comprises the entirety of Section 9 in Township 14 North, Range 12 East, relative to the Gila and Salt River Baseline and Meridian, in Coconino County, Arizona (**Figure 1**). The Coconino County Assessor Parcel Numbers (APN) for the Property is 403-13-006E.

I.1. PURPOSE

The purpose of this investigation was to conduct an assessment of the Property and surrounding areas to identify Recognized Environmental Conditions (RECs) potentially resulting in environmental impacts to the Property. According to the American Society for Testing and Materials (ASTM) E 2247-08 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property*, a recognized environmental condition is defined as: “...the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property.” This term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include *de minimis* conditions that generally do 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 government agencies. Conditions determined to be *de minimis* are not recognized environmental conditions.

The results of an investigation may be utilized as part of the due diligence investigation for prospective property owners promulgated pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA, a.k.a. Superfund), the Superfund Amendments and Reauthorization Act of 1986 (SARA), and the Small Business Liability Relief and Brownfield’s Revitalization Act of 2002 (the Brownfield Amendments). This ESA is intended to assist the User in satisfying the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations of CERCLA. The Property owner has continuing obligations, if applicable, to receive liability protections in addition to the *All Appropriate Inquiry* (40 CFR Part 312). The continuing obligations include: 1) compliance with land use restrictions; 2) not impeding the effectiveness or integrity of institutional controls; 3) taking reasonable steps to prevent releases; 4) providing assistance and access to the U.S. Environmental Protection Agency (EPA), state, or other parties conducting response or restoration actions; 5) complying with CERCLA information requests and subpoenas; and 6) providing legally required notices.

I.2. SCOPE OF SERVICES

This ESA has been completed in accordance with the guidelines provided in the ASTM *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property* (ASTM E 2247-08). This standard satisfies the requirements of the EPA *All Appropriate Inquiry* provisions, which became effective November 1, 2006 (40 CFR Part 312). This protocol requires the review of readily available environmental records, historical and current land use, interviews with persons knowledgeable about the Property, and a field reconnaissance to observe on-site conditions and adjoining properties.

The User of this report has responsibilities for addressing some of the mandatory provisions of the standard. ASTM E 2247-08 Section 6 (User Responsibilities) describes tasks that will help identify the possibility of RECs in connection with the Property that do not require the expertise of an environmental professional, including checking title records for environmental liens and activity and use limitations (AULs). The User provided certain title records to WestLand. WestLand also commissioned a search for environmental liens and AULs by a title professional on behalf of the User; see **Section 3**.

This ESA does not assess ASTM non-scope considerations, including asbestos-containing building materials, radon, lead-based paint, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality (including vapor intrusion), biological agents, mold, or other nuisances.

I.3. LIMITATIONS AND EXCEPTIONS

This Phase I ESA evaluates potential sources of hazardous substances or petroleum products that could be considered a REC and a liability due to their presence in significant concentrations, or the potential for contamination migration through exposure pathways. Unless otherwise noted, this assessment did not include any testing or sampling of materials. Hazardous substances occurring naturally are not typically considered. This report is intended to provide further recommendations regarding potential RECs related to the Property; conclusive identification of hazardous substances and petroleum products can be accomplished only through sampling and laboratory analysis.

Field reconnaissance does not provide information regarding potential sources of contamination below the ground surface. However, in cases of subsurface contamination, aboveground indicators such as obvious stress to plant life or staining are noted. All findings are based on observations and information collected at one point in time and is based on conditions during the site visit. A change of those conditions may alter the findings and conclusions of this report.

A Phase I ESA cannot, within its scope of assessment, wholly eliminate uncertainty regarding the potential presence of RECs. WestLand believes that the information in this report is reliable; however, WestLand cannot guarantee that the information provided by all the sources contained in this report is complete and accurate. This report is intended to decrease, but not eliminate, uncertainty regarding the potential for RECs in connection with a property given reasonable limits of cost and time, and in a manner consistent with the customary practices of the environmental consulting industry, under similar circumstances at the time services were performed and in similar localities. It should be noted that the conditions at the Property could change as a result of natural processes or be altered by human activities at the Property and/or nearby sites.

I.4. SPECIAL TERMS AND CONDITIONS

No special terms or conditions are associated with this report.

I.5. USER RELIANCE

This Phase I ESA has been prepared for use by Resolution Copper Mining LLC. This ESA may not be relied upon by any other person or entity without the written consent of WestLand.

I.6. CONTINUED VIABILITY

Due to the nature of Phase I ESA inquiries, their useful life is limited. ASTM E 2247-08 guidelines require that certain components of a Phase I ESA be completed less than 180 days prior to the date of acquisition or (if no acquisition is involved) the intended transaction. The following components of the Phase I ESA are presumed valid only within 180 days prior to the date of acquisition or other intended transaction:

- Interviews
- Searches for environmental liens
- Government records review
- Site reconnaissance
- Declaration by the environmental professional

Other components of the Phase I ESA are valid for one year. The above-listed components can be separately updated in order to eliminate redundant environmental due diligence efforts within one year. After one year has passed, all Phase I ESA components should be redone. The prior ESA report may be used as a reference during completion of the new investigation and analysis.

2. SITE DESCRIPTION

This section describes the location, general characteristics, and current uses of the Property. The current uses of adjoining properties are also described. Photographs depicting the Property and vicinity are provided in **Appendix A**. A recent aerial photograph depicting the Property and near vicinity is provided as **Figure 2**. The approximate locations of the ground photographs with GPS locations shown in **Appendix A** are provided on **Figure 3**.

2.1. LOCATION AND LEGAL DESCRIPTION

The Property is located along the canyon floor and adjacent upland areas of East Clear Creek approximately 30 miles north of Payson and 38 miles southwest of Winslow in Coconino County. The Property is located in Section 9 of Township 14 North, Range 12 East, relative to the Gila and Salt River Baseline and Meridian, Coconino County, Arizona (**Figure 1**). The Coconino County APN for the Property is 403-13-006E.

2.2. SITE AND VICINITY GENERAL CHARACTERISTICS

The Property consists of approximately 640 acres including a 2.3-mile perennial reach of East Clear Creek in a narrow canyon. The Property also includes additional minor tributaries that are likely ephemeral to intermittent. The Property is surrounded by Coconino National Forest lands. There is no evidence of an established town in the immediate vicinity or of homesteading or other residential use of the Property. The Property has been subject to logging, grazing, and dispersed recreational (hunting, fishing, camping) use.

2.3. CURRENT USE OF THE PROPERTY

Currently, the Property is used as open-space, with no formal developed use. There are indications of recreational use such as camping, hiking and overland vehicle at the Property. A stock tank near the southern Property boundary indicates that the Property has been used for grazing; it is also within the Bar T Bar grazing allotment (AGFD 2015) but has not been used for grazing for at least 10 years (Dan Mead, pers. comm.).

2.4. DESCRIPTION OF STRUCTURES, ROADS, AND OTHER IMPROVEMENTS ON THE SITE

Developed features at the Property are limited. Access to the Property is only provided by primitive dirt roads or overland hiking across rugged terrain. Developed features include dirt roads and camp fire pits.

2.5. CURRENT USES OF ADJOINING PROPERTIES

Adjoining properties are mostly comprised of federal lands managed as open space by the USFS as part of the Coconino National Forest. Starlight Pines, a low-density residential subdivision, occupies a section of land adjoining the Property to the northwest. A privately held section also occurs to the southeast (**Figure 1**).

3. USER PROVIDED INFORMATION

The report User is Resolution Copper Mining LLC who provided relevant information about the Property. Swift Current Land and Cattle LLC is the land owner and a subsidiary of Resolution Copper Mining LLC. The User contact is Ms. Casey McKeon. A copy of the User Questionnaire and a copy of an owner questionnaire is provided as **Appendix B**.

3.1. TITLE RECORDS

The report User provided copies of title information in connection to the Property including an ALTA Standard Owners 1992 policy of insurance, dated April 15, 2005 and amended May 17, 2005 (**Appendix C**). This policy appears to have been issued for the land transaction between Swift Current Land & Cattle LLC from Clear Creek 640, LLC. The title documents include a list of Schedule B requirements and exceptions which typically list known land encumbrances (i.e., taxes, deed restrictions, easements, liens) and may provide an indication of the potential for contamination at the Property. Based on WestLand's review of the listed standard and specific encumbrances, none readily indicate the release or threat of a release of a hazardous material or petroleum product at the Property.

WestLand reviewed the current deed for the Property. The Warranty Deed for the Property was executed October 12, 2005, and recorded the same month, conveying ownership from the Trust for Public Land to Swift Current Land & Cattle LLC. A copy of the deed is included with **Appendix D**.

WestLand identified a Bureau of Land Management (BLM) record maintained by the General Land Office for a Record of Patent (BLM 1955) for the Property (and extensive other tracts of land) to the Santa Fe Pacific Railroad Company pursuant to the Act of July 27, 1866, for the purpose of constructing a railroad and telegraph line from Missouri and Arkansas to the Pacific Coast. There is no evidence the Property was developed in connection with the railroad or that railroad facilities occur on adjoining Property or immediately

According to the ownership history records provided by the Coconino County Assessor's Office, the parcel was split from APN 403-13-006C. Phelps Dodge Company owned the Property from at least 1970 until 2001, when it was sold to Blue Ridge 800 LLC and on the same day Canyon Point LLC (Coconino County 2015). Clear Creek 640 LLC acquired the Property in 2002 and sold it to the Trust for Public Land in 2005, and on the same day the Trust for Public Land sold the Property to Swift Current Land & Cattle LLC (a subsidiary of Resolution Copper Mining, LLC). Available information suggests that none of these latter owners used the Property for any active purpose. It is likely that after divestment by the railroad company the Property was held for water rights or investment purposes, but has been used informally by the public (e.g., trespassers) for the recreational purposes.

3.2. ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS

The User is not aware of any environmental liens or activity and use limitations (AULs) for the Property. On April 29, 2016, WestLand engaged Environmental Record Search (ERS), to conduct a search of available land title records for environmental liens and AULs at the Property. A search for environmental liens and AULs was completed for Coconino County APN 403-13-006E; no records of environmental liens or AULs associated with the Property were identified (**Appendix D**).

3.3. SPECIALIZED KNOWLEDGE

The User indicated they do not have personal or institutional knowledge of environmental concerns at the Property.

3.4. COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION

The User reported recreational use and logging are historic uses thought to have occurred at the Property. There has been no evidence to suggest, or any knowledge that hazardous materials or petroleum products were stored or used at the Property. The User notes that there is a possibility that small quantities of hydrocarbons were stored or used on site during past logging; however, no evidence of any storage or use of these product at the Property has been identified. The User also noted that it is possible that small incidental releases associated with the potential use of hydrocarbons may have occurred, though no evidence of any such releases is known. No other commonly known or reasonably ascertainable information relevant to potential RECs was provided by the User.

3.5. VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES

The User reports there is no information indicating that the value of the property had been reduced as a result of environmental issues.

3.6. REASON FOR PERFORMING PHASE I

The Phase I is being performed to identify recognized environmental conditions requiring additional investigation relating to a land exchange property transaction.

3.7. OTHER

Based on the User's knowledge of, and experience related to the Property, no obvious indicators point to the presence or likely presence of contamination on the Property of which the User is aware. No other information relevant to potential RECs was provided by the User.

4. RECORDS REVIEW

WestLand reviewed a variety of regulatory records to determine if any past uses of the Property or uses within adjoining areas may have led to RECs on the Property.

4.1. ENVIRONMENTAL RECORD SOURCES

WestLand contracted with ERS to conduct an electronic search of regulatory agency databases for references to the Property and surrounding lands. The database search (Rec Check Area Report Results) was conducted on April 15, 2016, and included standard and additional federal, tribal, state, local, and supplemental database records, as well as ERS proprietary database records. The regulatory agency databases were queried by conducting a search from the boundaries of the Property to the minimum search distance recommended by the ASTM standard. A copy of the ERS environmental reports that describes the databases searched, search distances, record details for the search results, and the dates the databases were last updated are provided in **Appendix E**.

The Property did not appear on any of the databases searched. One database record occurs within the ASTM-recommended distance from the Property boundary: a U.S. Bureau of Reclamation oil and gas well site that is less than 0.1 miles from the Property. This site is reported in the OGW-AZ database (Arizona Oil and Gas Wells identified by the Arizona Geological Survey). The records provided for this site indicate that a permit was obtained to drill a well reportedly used for stratigraphic testing in May 1966 (geologic exploration in connection to potential oil and gas development). The lease number associated with this site is “01 Mack’s Crossing” which refers to the name of a river crossing west of the west boundary of the Property.

4.2. PRIOR ENVIRONMENTAL REPORTS

A prior Phase I ESAs was conducted by Golder Associates Inc. in May 2005 (Golder 2005). The results of the 2005 Phase I ESA indicated that there was a low environmental risk associated with the Property and that no further investigation or remedial action were warranted at that time. The only potential environmental concerns identified by Golder were:

1. The unlikely possibility that upstream activities might introduce contaminants in East Clear Creek. The site owner would not be liable for this potential contamination, though the Property could be adversely affected.
2. Lubricants and fuel could have been spilled on the Property during the years in which active logging occurred. These releases, if extant, would be of a *de minimis* nature.

4.3. PHYSICAL SETTING

The Property's physical setting was reviewed by WestLand to gain a comprehensive understanding of the Property's geophysical characteristics. These geophysical characteristics, including surface topography, soils, geology, hydrology, and hydrogeology would inform the potential for migration of hazardous substances and petroleum products.

The Property is situated within the Colorado Plateau physiographic province north of the Mogollon Rim in central Arizona. Through and within the vicinity of the Property, East Clear Creek has carved a canyon approximately 600 feet deep through Precambrian sedimentary rocks of the plateau. Numerous named and unnamed tributaries both on- and off-site display similar landform characteristics. The Property elevation ranges from about 6,195 feet amsl in the streambed as it exits the Property near the northeastern corner to about 6,820 feet amsl in the uplands near both the southwestern and the northwestern corners.

The East Clear Creek watershed between C. C. Cragin Dam and the Property encompasses about 37.7 square miles. The highest elevations within the upper reaches of this watershed are Moqui Ridge (7,435 feet) and an unnamed point on the Mogollon Rim above the headwaters of Yeager Canyon (7,905 feet), both southwest of the Property. The main upstream tributaries are streams in Moqui Draw, Yeager Canyon, Barbershop Canyon, Dick Hart Draw, Houston Draw, Bear Canyon, General Springs Canyon, and Miller Canyon. Downstream tributaries are streams in Leonard Canyon and Wilkins Canyon, as well as Willow Creek.

Similar to most streams in this area of the Colorado Plateau, East Clear Creek follows a meandering path in a generally northeasterly direction toward the Little Colorado River. The Little Colorado River drains the Holbrook Basin, a large geologic feature tilted slightly to the northwest. At the landscape-scale the Colorado Plateau surface in this area is flat to gently rolling, but is locally incised by small-to medium-sized streams. The stream canyons are up to 600 feet deep and, depending upon geologic substrate, canyon walls may be steeply sloped up to and including vertical cliff faces.

Through the Property, East Clear Creek displays characteristics similar to its up- and downstream segments. The channel displays a high degree of sinuosity, 2.24, as it travels approximately 12,150 feet over a straight-line distance of 5,400 feet. The channel bed of Cave Creek within the Property is relatively level (0.005 percent gradient), dropping only about 65 feet in that distance. The elevation of East Clear Creek channel as it enters the western, upstream portion of the Property is about 6,260 feet. As it leaves the eastern, lowest portion of the Property, the elevation is 6,195 feet.

4.3.1. Soils

Soil data provided by the National Cooperative Soil Survey through Web Soil Survey (Soil Survey Staff 2015) indicate that the Property is located within six soil complexes, including Wildcat soils and the Jack-Tortugas complex. The soil complexes occur on high mountainous areas of the Coconino and Colorado plateaus. Limestone and sandstone rock comprise (Ls) 80 percent of the Property's acreage.

Wildcat soils (WcB) formed in residuum weathered from Coconino sandstone or Kaibab formation. Wildcat soils are on upland exposures of sandstone with slopes that range from 1 to 15 percent. They are gravelly fine sandy loam and somewhat poorly drained, with slow to very slow permeability.

The Jacks-Tortugas complex (JtE) is well drained with moderate to low permeability. Jacks soils comprise 30 percent and Tortugas soils approximately 25 percent of this complex. The Jacks series consists of deep, well-drained soils on uplands. Slopes are dominantly 0 to 15 percent and range from 0 to 45 percent. Permeability is slow. The Tortugas series consists of very shallow and shallow, well-drained, moderately rapid permeability soils formed from limestone, calcareous sandstone, and shale on gently rolling ridges to very steep hills. Slopes are 0 to 75 percent.

The other soil complexes each comprise less than 2 percent of the Property's acreage (Soil Survey Staff 2015).

4.3.2. Geology

The geology of East Clear Creek within the Leonard Canyon 7.5-minute quadrangle has not been mapped in detail. Darton was the first to map the region, and named many of the major geologic units (Darton 1910). At the regional level, Darton mapped the reach of East Clear Creek that encompasses the Property as Permian-age Kaibab limestone. This unit covers a broad swath of the Colorado Plateau in an arc through the southwestern portion of the Holbrook Basin. Quaternary and Tertiary volcanic rocks lie farther to the west and southwest, defining the western edge of the basin. Later mapping identified the Kaibab unit extending throughout the southwestern U.S., ranging from northern Arizona into southern Utah, eastern-central Nevada, and southeastern California.

The surface geology underlying the Property is mapped as Permian sedimentary rocks (270-280 Ma) (AZGS 2011). Permian sedimentary rocks consist of gray to tan, cherty limestone of Kaibab and Toroweap Formations, and underlying white to tan, fine-grained Coconino Sandstone. Limestone was deposited in a shallow sea and sandstone was deposited in near-shore dunes and beach settings (Richard et. al 2000).

No faults have been mapped by the Arizona Geological Survey on or near the Property. As described above, East Clear Creek follows a sinuous path for much of its length, including through the Property, and likely does not follow a fault line.

4.3.3. Hydrology

The Property lies in the East Clear Creek-Clear Creek sub-basin within the Little Colorado River watershed. The watershed occupies much of the northeastern portion of Arizona (ADWR 2016). The Little Colorado River is the main drainage for the basin.

The East Clear Creek channel within the Property is identified as a substantial perennial tributary of the Little Colorado River located approximately 71 river miles downstream (generally northeast) of the Property. The Property also includes additional minor tributaries that are likely ephemeral to intermittent. Water was flowing through the entire length of East Clear Creek that lies within the Property during field visits completed by WestLand in 2015 and 2016. A U.S. Geological Survey (USGS) stream flow gauge on East Clear Creek below the confluence with Willow Creek, some 9.5 miles downstream of the Property and within a 317-square mile watershed, indicates wide monthly variations in flow over the course of the year (USGS 2015). Peak flows at the station occur in February and March; the lowest flows occur in June and July. Notably, low flows in these and other months can be zero, indicating that whatever base flow is released from the C. C. Cragin Dam is lost over the distance from the dam to the gauge. Peak flows are likely due to snowmelt in higher elevation portions of the basin, flowing through numerous tributaries to East Clear Creek. It appears that the main stem of East Clear Creek itself does not contribute substantively to the peak flows, as the dam intercepts snowmelt from upstream of that location and apparently does not typically overtop.

The USGS stream gauge in East Clear Creek at Willow Creek, well downstream from the Property, records a more variable stream flow at that location than expected here. It is possible that natural conditions present broadly through the 317-square mile watershed that reports to that gauge outweigh the effects of the C. C. Cragin Dam on the 109-square mile watershed that reports to the Property.

The National Wetlands Inventory Map identifies approximately 14.15 acres of wetlands within the Property (USFWS 2015).

The Property is mapped by FEMA as Zone X, an area of minimal flood hazard (FEMA 2010).

4.3.4. Hydrogeology

The Property is located within the Little Colorado River sub-basin within the Little Colorado River Plateau groundwater basin, which covers a large swath of land in Coconino, Navajo, and Apache counties. Groundwater flow direction is from south to north in this portion of the basin. There are three regional aquifers within the watershed including D-, N-, and C-aquifers. The Property is located within the regional C-aquifer. This aquifer is located in sedimentary formation of sandstone and limestone that are stacked and separated by impermeable shales and siltstones. Recharge to the aquifer occurs primarily along mountain fronts along the southern periphery of the basin (ADWR 2016). The

C-aquifer is considered in hydrostatic equilibrium (steady-state); however, local groundwater sinks or cones of depression are developing in areas of heavy pumpage (ADWR 2016).

The Arizona Department of Water Resources (ADWR) Well Registry spatial database was queried to review any data for wells within the boundaries of the Property. There are no registered wells at the Property. The search area was expanded to 1-mi (1.6-km) and 47 wells were identified (ADWR 2016). Water level records for these wells generally range between 500 and 700 ft bgs. The average depth to water is 582 ft. The median well yield from large wells (greater than 10-inch is 500 gpm for the entire basin.

Numerous wells are registered with the ADWR in the adjacent section to the northwest (Section 5), which contains a portion of the Starlight Pines subdivision, described above. These wells presumably produce water to support the residences in the subdivision. Most of these wells are between 600 feet and 800 feet deep, with water levels typically ranging between 500 feet and 650 feet bgs.

No water quality data was available for the Property. The ADWR Well Registry indicates there are no water quality monitoring wells at the Property or in the immediate vicinity of the Property. However, in 2015, a water quality monitoring station was observed by WestLand during other site visits completed for the Property, on adjoining land in Section 8, near the northwestern corner of the Property. The ADWR online Well Registry (ADWR 2015) does not identify any wells within Section 8. Analytical results from water quality sampling in 1976 suggest that all chemical constituents in Clear Creek are within acceptable water quality standards for the support of cold water fisheries habitat (Golder 2005). More recent data from the EPA suggests that water quality in East Clear Creek is fully supportive of agricultural use; fish, shellfish, and wildlife protection and propagation; and primary contact recreation (Golder 2005).

4.4. HISTORICAL USE INFORMATION ON THE PROPERTY AND ADJOINING PROPERTIES

The purpose of reviewing historical sources is to develop a history of the previous uses of a property and surrounding area in order to help identify past uses that may have led to RECs in connection with the Property. According to the ASTM standard, obvious uses of a property shall be identified from the present back to the property's first developed use, or back to 1940, whichever is earlier. This requires reviewing only as many standard historical sources as are reasonably ascertainable and likely to be useful.

4.4.1. Historical Topographic Maps

WestLand reviewed USGS topographic maps of the Property and its vicinity dated 1965, 1998, and 2014 (**Appendix F**). USGS topographic map coverage for the Property is provided on the Leonard Canyon 7.5-minute quadrangles at a 1:24,000 scale. Topographic maps depict both natural and

developed features, including wells, structures, and other indications of historical use. The summary below presents WestLand's review of the identified mapped features on or near the Property in chronological sequence.

The 1965 Leonard Canyon 7.5-minute quadrangle (1:24,000 scale) depicts the Property and surrounding area to the east, south, and north. The Property is depicted as undeveloped land other than an unimproved road that enters the Property from the south and travels northeast onsite into the southern portion of the Property. Various other unimproved roadways and trails are shown in the area surrounding the Property to the east, south, and west. The only developed feature depicted on this map is Morgan Tank, located approximately one mile south of the Property. Mack's Crossing is identified on adjoining land to the west of the Property, along Clear Creek. This appears to identify the location of a trail crossing along an old pack trail, which extends to the south without entering the Property.

The 1998 Leonard Canyon 7.5-minute quadrangle (1:24,000 scale) depicts the Property in the same conditions as the 1965 quadrangle. Additional roads and trails can be seen in the surrounding area, including the subdivision to the northwest of the Property. Two additional water tanks are present on the surrounding open space (Middle Tank and Fork Tank). The trail across Mack's Crossing is now identified as an unimproved road.

The 2014 Leonard Canyon 7.5-minute quadrangle (1:24,000 scale) depicts the Property in the same conditions as the 1965 and 1998 quadrangles.

Figure 1 also provides a topographic map of the Property and is dated 1965, but provides additional coverage to the north. Several water tanks are depicted on land north of the Property (Sinkhole Tank and Aztoc Tank). A borrow pit is shown almost one mile east of the highway along an unimproved roadway. The Starlight Pines subdivision was not yet developed at the time the 1965 map was developed.

4.4.2. Historical Aerial Photographs

WestLand obtained nine historical aerial photographs depicting the Property and vicinity dating from 1953, 1968, 1980, 1992, 1997, 2003, 2007, 2010, and 2014 (**Appendix F**). WestLand reviewed the maps for evidence of anthropomorphic disturbance and to identify any historical land uses that might have involved the use, treatment, storage, disposal, or generation of hazardous substances, or petroleum products.

Development at the Property visible in the aerial photography is extremely limited. None of the aerial photographs definitively display developed features at the Property other than unpaved roads. There

is no evidence on these maps that suggest use of logging or any other intensive anthropological use from at least 1953.

In the 1953 aerial photograph does not readily show any developed feature at the Property. The only developed features on surrounding land include a water tank south of the Property and an unimproved road that is now AZ-260/AZ-87 N, and a small roadway from that road to East Clear Creek at Mack's Crossing.

The 1968 aerial photograph resembles the 1953 aerial photograph but the dirt road to the Property and along the south-central portion of the Property is apparent. There are no cleared areas adjacent to this road.

Between 1980 and 2014, the condition of the Property appears to be the same. Additional roadways and residential development land west and northwest of the Property is the only subsequent change that is evident on these aerial photographs.

4.4.3. Property Tax Files

WestLand obtained the property tax maps for the Property (APN 403-13-006E) and adjoining areas from the Coconino County assessor using their electronic parcel viewer. The results of the parcel search and relevant property tax information are included as **Appendix G**. These records indicate the Property is undeveloped land, owned by Swift Current Land & Cattle LLC since 2005. The Property had agricultural tax status in the past. There are no permits noted for the Property from Coconino County.

4.4.4. Local Street Directories

Based on the lack of development in the immediate vicinity of the Property, WestLand did not conduct a city directory search.

4.4.5. Sanborn Fire Insurance Maps

Sanborn Fire Insurance Maps typically cover development in the first half of the 20th century. Considering the lack of development at the Property, WestLand did not commission a search for these maps. It is likely no coverage for the Property is available.

4.4.6. Other Historical Sources

WestLand reviewed a recent cultural resource inventory report available for the Property which includes archaeological research and results of prior records searches (WestLand 2016). The historical map review for the cultural resource inventory report revealed no cultural resources within the Property with the exception of native archaeological culture sites, although one historical feature was

identified just outside the Property. The GLO plat surveyed in 1893 depicts a “Log House” in the southwest quarter of the southwest quarter of Section 4, Township 14 North, Range 12 East, just north of the Property (Drummond 1895).

With the exception of the single dirt road noted above, recent development has not occurred at the Property. Survey reports completed since the 1970s for the Property and vicinity provide some indication of planned use of land in the area. The Coconino National Forest and Museum of Northern Arizona site files were reviewed to identify previous surveys and previously recorded sites in the vicinity of the Property. Previous surveys in the vicinity (within one mile from the Property) have been conducted by the Coconino National Forest, Arizona State University, SEC, Inc., and Environmental Consultants. Two of the surveys were associated with timber sales in the area. Two were USFS projects involving “Planning Units” and “Treatment Areas,” although the USFS reports do not further elaborate on the descriptions of the projects. These previous projects appear to be linear surveys associated with land at the southeast portion of the Property and may have been associated with road construction or maintenance. Two of the previous surveys were conducted in preparation for road maintenance or the obliteration of existing roads. One prior survey was for the construction of stock tanks associated with grazing allotments on adjoining land.

WestLand reviewed publications available from the USFS regarding the Property and immediate vicinity to determine past land use. The USFS administers the Coconino National Forest that surrounds the Property with the exception of privately held parcels to the northwest and southeast. As part of the National Forest System, the Coconino National Forest is managed for multiple uses, ranging from recreation to resource procurement (such as logging). Logging has historically been conducted in the vicinity of the Property, with the most recent timber sale (identified as the Holder sale, along FR 137 south of the Property) in the late 1980s (USFS 1987). A project to reduce fuel loads in the 64,000 acres (26,000 hectares) comprising the watersheds upstream of the C. C. Cragin dam was planned for late 2015 (USFS 2015a); it is not known if this effort was completed. The Coconino National Forest is included in the Four Forest Restoration Initiative (4FRI), a comprehensive plan to create landscape-scale restoration approaches that will provide for fuels reduction, forest health, and wildlife and plant diversity (USFS 2015b). None of the publications available from the USFS reviewed by WestLand indicate use of hazardous materials or petroleum products at the Property.

5. SITE RECONNAISSANCE

WestLand environmental specialists Diana Sandoval and Sarah Richman conducted field reconnaissance of the Property on June 8 and June 9, 2016, to observe current site conditions and existing environmental conditions for the Property. Photographs documenting pertinent features are provided in **Appendix A**.

5.1. METHODOLOGY AND LIMITING CONDITIONS

Prior to conducting the site reconnaissance, WestLand reviewed current and historical aerial photographs and topographic maps, as described in Section 4, to identify the location of any suspect areas, including roadways, cleared areas, disturbed soils, and structures. Areas of known concentrated human activity or with known access routes were assessed in more detail because these areas presented the greatest potential for impacts by hazardous materials and petroleum products.

During the site reconnaissance, WestLand evaluated the suspect areas of site disturbance through vehicle and pedestrian surveys. WestLand's reconnaissance included the Property, as well as observations of the adjoining properties from publicly accessible areas. Field observations were consistent with the findings of WestLand's historical review of the Property and surrounding properties.

The Property is accessible from Arizona State Route 87. The Coconino National Forest road network accesses the Property from the south, with Forest Road (FR) 137G entering the Property near the midpoint of the southern boundary. FR 137G appears to be used by high clearance vehicles and off-highway vehicles (OHVs) to access the southern portion of the Property for recreationists' camping and hunting. FR 319 leads from State Route 87 into the Starlight Pines subdivision, and two informal roads from Elk Lane in the subdivision enter the northern portion of the Property along the ridge above the canyon. An informal extension of the trail continues from Mack's Crossing into the Property for about 0.25 mile (0.4 km) along the canyon floor on terraces on the north side of the stream. This extension is a two-track trail used by OHV riders. Additional very primitive trails, likely game trails also used by hikers, continue east through the Property along the floodplains and terraces of East Clear Creek, crossing the stream as necessary to avoid cliffs that descend directly to the stream.

Field reconnaissance does not provide information regarding potential sources of contamination below the ground surface. However, in cases of subsurface contamination, aboveground indicators such as obvious stress to plant life or staining are noted. All findings are based on observations and information collected at one point in time and is based on conditions during the site visit. A change of those conditions may alter the findings and conclusions of this report.

5.2. INDICATIONS OF PAST USES OF THE PROPERTY

A stock tank near the southern Property boundary indicates that the parcel has been used for grazing; the parcel is within the Bar T Bar grazing allotment (AGFD 2015) but has not been used for grazing for at least 10 years (Dan Mead pers. comm.) and the tank was not observed during the site reconnaissance in June 2016. Specific records of timber harvesting (logging) are not readily available, but anecdotal information refers to timber harvesting in the past (Golder 2005).

5.3. EXTERIOR OBSERVATIONS

5.3.1. Hazardous Substances and Petroleum Product Containers in Connection with Identified Uses

No hazardous substances and petroleum product containers in connection with identified uses were observed at the Property or on land immediately adjoining the Property.

5.3.2. Hazardous Substance and Petroleum Product Containers Not in Connection with Identified Uses

No hazardous substances and petroleum product containers not in connection with identified uses were observed at the Property or on land immediately adjoining the Property.

5.3.3. Storage Tanks (Aboveground and Underground)

No indications of above- or underground storage tanks potentially used for hazardous substances or petroleum products were observed on the Property or on adjoining properties.

5.3.4. Unidentified Substance Containers

No unidentified substance containers were observed on the Property or on adjoining properties during the site reconnaissance.

5.3.5. Drums

No drums were observed at the Property or on adjoining land visible along public roadways.

5.3.6. Odors

No strong, pungent, or noxious odors were detected on the Property or on adjoining properties during the site reconnaissance.

5.3.7. Pools of Liquid, Pits, Ponds, or Lagoons

No pools of liquid, pits, ponds, or lagoons were observed on the Property or on adjoining properties. Furthermore, no such features were observed in connection with waste disposal or treatment.

5.3.8. Wastewater

No features associated with wastewater storage and disposal were observed during the site reconnaissance.

5.3.9. Septic Systems

There is no indication that septic systems are present on the Property.

5.3.10. Wells

No wells were observed at the Property. However, in 2015, a surface water quality monitoring station was observed by WestLand during a separate site visit for the Property, in Section 8, near the northwestern corner of the Property on adjoining land. The ADWR Well Registry does not identify any wells at this location (or within Section 8).

5.3.11. Stained Soil or Pavement

No stained soil or pavement was noted.

5.3.12. Stressed Vegetation

Vegetation across the Property appeared to be in good health. There was no indication of stressed vegetation on the Property or adjoining properties likely attributed to hazardous substances, or petroleum products.

5.3.13. Solid Waste Disposal

The Resource Conservation Recovery Act (RCRA) was enacted by Congress in 1976 and amended in 1984. RCRA's primary goal is to protect human health and the environment from the potential hazards of waste disposal. Unauthorized solid waste disposal provides the potential for hazardous and regulated substances to impact a property in the absence of waste-generating activities.

The Property appears to be generally clean of solid waste. Very limited quantities of debris were found in scattered areas north of the Property (**Appendix A**, Photo 4 and Photo 5). However, these items were either comprised of inert materials (e.g., aluminum cans and glass) or present in small quantities (i.e., a single spray paint can)

5.3.14. PCB Equipment

Concern over the toxicity and persistence in the environment of polychlorinated biphenyls (PCBs) led Congress in 1976 to enact §6(e) of the Toxic Substances Control Act (TSCA), which included prohibitions on the manufacture, processing, and distribution in commerce of PCBs. Historically, electrical transformers contained a cooling liquid that had PCBs. If present, electrical transformers or hydraulic equipment could provide the potential for release of PCBs onto the Property. In 1984, manufacturers began producing non-PCB transformers that contain less than 50 parts per million of PCBs.

No equipment likely containing polychlorinated biphenyls (PCBs) (such as coolant or hydraulic fluid) was observed at the Property (e.g., electrical transformers, hydraulic equipment)

5.4. INTERIOR OBSERVATIONS

Not applicable.

6. INTERVIEWS

6.1. INTERVIEW WITH OWNER

The Property is currently owned by Swift Current Land & Cattle LLC; Swift Current Land and Cattle LLC is a subsidiary of Resolution Copper Mining LLC. The report User is Resolution Copper Mining LLC who provided relevant information about the Property. On May 12, 2015, Ms. Casey McKeon of Resolution Copper Mining LLC completed the User questionnaire and a project-specific owner questionnaire generated by WestLand. Ms. McKeon indicated that to her knowledge, the Property has been vacant and not used for development other than historical use for recreation and logging. She is not aware of any information potentially pointing to a REC for the Property. Ms. McKeon indicated that possible small incidental hydrocarbon releases during historic logging maintenance may have occurred, although none have been observed by Resolution or known to have been observed by others. Responses to specific inquiries are included in **Appendix B**.

6.2. INTERVIEWS WITH OCCUPANTS

Not applicable.

6.3. INTERVIEWS WITH LOCAL GOVERNMENT OFFICIALS

WestLand contacted the Blue Ridge Fire District to inquire about any responses to the Property or adjoining properties with regard to fuel/chemical spills or if they were aware of any chemical or petroleum product storage at the Property. On April 22, 2016, Cat Sobel (Blue Ridge Fire District, info@brfdaz.org) reported that they have no knowledge of spills or storage at the Property or on land in the immediate vicinity.

6.4. INTERVIEWS WITH OTHERS

No other individuals were interviewed as part of this investigation. Mr. Dan Mead, a land specialist who is familiar with the Property, was not interviewed for this Phase I ESA but information provided by him for other reports on the Property was incorporated as appropriate. Specifically, Mr. Mead previously reported that a stock tank near the southern Property boundary indicates that the Property has been used for grazing; it is also within the Bar T Bar grazing allotment (AGFD 2015a) but has not been used for grazing for at least 10 years (Dan Mead, pers. comm.).

7. FINDINGS AND OPINIONS

Based on the findings of the environmental records search, historical review, physical setting of the Property, field reconnaissance of the Property, prior reports, and interviews, WestLand provides the following findings and opinions pertaining to the Property:

- A search for environmental liens and AULs was completed for Coconino County APN 403-13-006E; no records of environmental liens or AULs associated with the Property were identified.
- ERS conducted an electronic search of regulatory agency databases for references to the Property and surrounding lands. The Property did not appear on any of the databases searched in accordance with the ASTM standard. One database record occurs within the ASTM-recommended distance from the Property boundary: a U.S. Bureau of Reclamation oil and gas well site that is less than 0.1 mile from the Property. This site is reported in the OGW-AZ database (Arizona Oil and Gas Wells identified by the Arizona Geological Survey). The records provided for this site indicate that a permit was obtained to drill a well reportedly used for stratigraphic testing in May 1966 (geologic exploration in connection to potential oil and gas development). The lease number associated with this site is “01 Mack’s Crossing” which refers to the name of a river crossing west of the west boundary of the Property. This record does not suggest this well is associated with monitoring or testing for releases of hazardous materials or petroleum products. It is possible that lubricants and fuel could have been spilled on adjoining land when this well was drilled but any releases would likely be of a *de minimis* nature.
- A prior Phase I ESAs was conducted by Golder Associates Inc. in May 2005 (Golder 2005). The results of the 2005 Phase I ESA indicated that there was a low environmental risk associated with the Property and that no further investigation or remedial action were warranted at that time. Specific records of timber harvesting (logging) are not readily available, but anecdotal information refers to timber harvesting in the past. The only potential environmental concerns identified by Golder were: (1) the unlikely possibility that upstream activities might introduce contaminants in East Clear Creek. The site owner would not be liable for this potential contamination, though the Property could be adversely affected; and (2) lubricants and fuel could have been spilled on the Property during the years in which active logging occurred. Golder concluded that, these releases, if extant, were and continue to be of a *de minimis* nature. WestLand agrees with this assessment.

- The Arizona Department of Water Resources (ADWR) Well Registry spatial database was queried to review any data for wells within the boundaries of the Property. There are no registered wells at the Property. However, in 2015, a USFS water quality monitoring station was observed by WestLand during a separate site visit for the Property, in Section 8, near the northwestern corner on adjoining land. The ADWR Well Registry does not identify any wells within Section 8. Analytical results from water quality sampling in 1976 suggest that all chemical constituents in East Clear Creek are within acceptable water quality standards for the support of cold water fisheries habitat (Golder 2005). More recent data from the EPA suggests that water quality in East Clear Creek is fully supportive of agricultural use; fish, shellfish, and wildlife protection and propagation; and primary contact recreation (Golder 2005). There are no records indicating wells associated with the disposal or treatment of waste water and no monitoring wells associated with contaminated properties in the vicinity. Furthermore, available water quality information for East Clear Creek indicate there is no REC associated with surface and groundwater at the Property.
- WestLand environmental specialists Diana Sandoval and Sarah Richman conducted field reconnaissance of the Property on June 8 and June 9, 2016 to observe current site conditions and existing environmental conditions for the Property. Access to the Property is only provided by primitive dirt roads or overland hiking across rugged terrain. Anthropogenic improvements on the Property were not observed with the exception of roads and informal fire pits. Very limited quantities debris were found in scattered areas north of the Property. However, these items were either comprised of inert materials (e.g., aluminum cans and glass) or present in small quantities (i.e., a single spray paint can). Field observations were consistent with the findings of WestLand's historical and ecological reviews of the Property and surrounding properties. No REC or indications of use to suggest potential REC were readily observed during the site visit.
- Interviews were conducted with the report User and owner and the local fire department. The representative for Resolution Copper Mining LLC indicated that to her knowledge, the Property has been vacant and not used for development other than historical use for recreation and logging. There has been no evidence to suggest, or any knowledge that hazardous materials or petroleum products were stored or used at the Property. The User notes that there is a possibility that small quantities of hydrocarbons were stored or used on site during past logging; however, no evidence of any storage or use of these product at the Property has been identified. The User noted it is possible that small incidental releases associated with the potential use of hydrocarbons may have occurred, though there is no evidence of any such releases was observed. No other commonly known or reasonably ascertainable information relevant to potential RECs was provided by the User.

- The report User provided copies of title information in connection to the Property including an ALTA Standard Owners 1992 policy of insurance, dated April 15, 2005 and amended May 17, 2005. The title documents include a list of schedule B requirements and exceptions which typically list known land encumbrances (i.e., taxes, deed restrictions, easements, liens) and may provide an indication of the potential for contamination at the Property. Based on WestLand's review of the listed standard and specific encumbrances, none readily indicate the release or threat of a release of a hazardous material or petroleum product at the Property.
- WestLand also conducted an interview with a local government official: Ms. Cat Sobel of the Blue Ridge Fire District. The fire district was contacted to inquire about any responses to the Property or adjoining properties with regard to fuel/chemical spills or if they were aware of any chemical or petroleum product storage at the Property. She reported that they have no knowledge of spills or storage at the Property or on land in the immediate vicinity.
- The Property is surrounded by Coconino National Forest lands with the exception of Starlight Pines, a low-density residential subdivision, which occupies a section of land adjoining the Property to the northwest and a privately held section to the southeast with dirt roadways. There is no evidence of an established town in the immediate vicinity or of homesteading or other residential use of the Property. Vacant land and residential use does not readily indicate uses indicative of a REC.
- The Property is used as open-space, with no formal developed use. The Property has likely been subject to logging, grazing, and dispersed recreational (hiking, fishing, camping) use over time. Specific records of timber harvesting (logging) are not readily available but indicated by several sources. It is possible that lubricants and fuel could have been spilled on the Property during the years in which active logging occurred. However, we concur with prior assessments that these releases, if they occurred, would likely be of a *de minimis* nature. Additionally, cattle grazing likely occurred in the past at the Property; however there was no indication that a ranch headquarters was located at the Property where spills of hazardous materials or petroleum products would be likely. Additionally, there was no evidence of corrals or dipping vats to suggest the use of parasitic prevention or treatment application to cattle at the Property. Any releases of hazardous material or petroleum products in connection to recreational activities at the Property and in the immediate vicinity of the Property (overland vehicle use, hiking, fishing and camping) if they occurred, would likely be of a *de minimis* nature not suspected to have resulted in a REC.

8. CONCLUSION

WestLand has performed a Phase I ESA in conformance with the scope and limitations of ASTM E 2247-08 for the Property (**Figure 1**). Any exceptions to, or deletions from, this practice are described in Section 9 of this report.

WestLand's assessment has revealed no evidence of a potential REC in connection with the Property. WestLand also did not identify any historical recognized environmental conditions, controlled recognized environmental conditions, or *de minimis* conditions for the Property.

9. DEVIATIONS

The purpose of reviewing historical sources is to develop a history of the previous uses of a property and surrounding area in order to help identify past uses that may have led to RECs in connection with the Property. According to the ASTM standard, obvious uses of a property shall be identified from the present back to the property's first developed use, or back to 1940, whichever is earlier. This requires reviewing only as many standard historical sources as are reasonably ascertainable and likely to be useful.

Considering that developed use of the Property is limited to open space and minimal recreational uses and that there is no other documented or suspected use of the Property potentially indicating a REC, WestLand did not conduct a city directory search, Sanborn fire insurance map search, building department record search or other typically urban searches. Considering the rural nature of the Property and the available information for the Property, there were no data failures or limitations potentially affecting conclusions regarding the identification of RECs for the Property (site access limitations, physical obstructions to observations, outstanding information requests, historical data failure, etc.). Considering the known history of the site and results of our site reconnaissance and other completed research, this assessment is considered complete.

10. ADDITIONAL SERVICES

No additional services beyond the standard ASTM scope were considered as part of this assessment.

II. QUALIFICATIONS AND SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

Mr. Mark F. Taylor, P.E. believes that, to the best of his professional knowledge, he meets the definition of “environmental professional” as defined in §312.10 of 40 CFR 312. Mr. Taylor possesses the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject Property. He has developed and performed all the appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Mr. Taylor is the leading environmental professional assigned to perform project oversight for this ESA. Diana Sandoval and Sarah Richman conducted the site reconnaissance under the direction of Mr. Taylor. Ms. Sandoval and Ms. Richman conducted the interviews, regulatory inquiries, and historical research. Mr. Christopher Rife reviewed the findings in this report. Their work was conducted under the supervision of the above-named environmental professional. Mr. Taylor reviewed, interpreted, and declared the information included in this report as complete. Résumés for the key individuals participating in the preparation of this report are provided in **Appendix H**.



Mr. Mark F. Taylor, P.E.

10/4/16
Date

12. REFERENCES

- American Society for Testing and Materials (ASTM), *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM E 1527-13)*, 2013.
- _____. 2008 *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property (ASTM E 2247-08)*, 2008.
- Arizona Department of Water Resources (ADWR). 2016. Well Registry Information. Online data retrieved at <https://gisweb.azwater.gov/WellRegistry/Detail.aspx>. Accessed April 2016.
- Arizona Game and Fish Department (AGFD). 2015. 20110922, Forest Service Grazing Allotments, General Resource Areas and Wild Horse & Burro Territories in Arizona: Arizona Game and Fish Department, Phoenix, AZ. Online data retrieved at <http://habimap.org/habimap/metadata/HTML/usfsallotments.htm>. Accessed May 25, 2015.
- Arizona Geological Survey (AZGS). 2011. Arizona Geology Map Available at: http://www.azgs.az.gov/services_azgeomap.shtml. Accessed 2015.
- Bureau of Land Management (BLM) 1955. *Record of Patent: Phoenix 080632*. US Department of Interior, Bureau of Land Management: Washington DC. March 25, 1955.
- Coconino County. 2016. Assessor Records. Available at: <http://www.coconino.az.gov/index.aspx?NID=119>. Accessed on June 15, 2016.
- Drummond, Daniel. 1895 GLO Plat of Township 14 North, Range 12 East, Gila & Salt River Meridian. Surveyor General's Office, Tucson.
- Golder Associates Inc. 2005. Phase I Environmental Site Assessment Forested Land T14N, R12E, Section 9 Coconino County, Arizona.
- Soil Survey Staff. 2015. Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Online data retrieved at <http://websoilsurvey.nrcs.usda.gov/>. Accessed March 11, 2015.
- Richard, S.M., S.J. Reynolds, S.J. Spencer, J.E. Spencer, and P.A. Pearthree. 2000. Geologic Map of Arizona. Arizona Geological Survey Map M-35, 1 sheet, scale 1:1,000,000. Available at: http://azgs.az.gov/services_azgeomapg.shtml. Accessed April 2016.
- U.S. Fish and Wildlife Service (USFWS). 2015. National Wetland Inventory. Digital data. Online data retrieved at <http://www.fws.gov/wetlands/Data/Mapper.html>. Accessed March 2015.

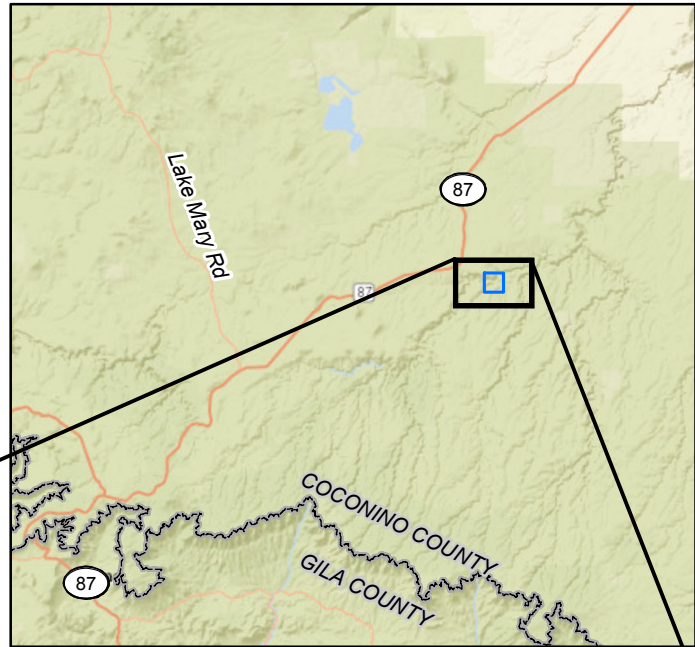
- U.S. Forest Service. (USFS) 1987. Coconino National Forest Land and Resource Management Plan. US Department of Agriculture, Forest Service, Southwestern Region.
- _____. 2015a. C.C. Cragin Fuels Reduction Project. Available at:
<http://www.fs.usda.gov/project/?project=46075&exp=detail>. Accessed May 28, 2015.
- _____. 2015b. History of 4FRI. Website: <http://www.fs.usda.gov/main/4fri/history>. Accessed May 28, 2015.
- U.S. Department of Homeland Security. 2010. FEMA Flood Map Panel 04005C8175G. Online data retrieved at: <https://msc.fema.gov/portal/search>
- U.S. Geologic Survey (USGS). 2015. USGS Surface-Water Monthly Statistics for the Nation - USGS 09398500 Clear Creek Below Willow Creek, N Winslow AZ. Available at:
http://waterdata.usgs.gov/nwis/monthly?referred_module=sw&site_no=09398500&por_09398500_1=19219,00060,1,1947-06,1993-10&format=html_table&date_format=YYYY-MM-DD&rdb_compression=file&submitted_form=parameter_selection_list. Accessed June, 2015
- WestLand Resources, Inc. (WestLand). 2016. A Cultural Resources Inventory of 633.88 Acres for the East Clear Creek Land Exchange, Coconino County, Arizona. Cultural Resources Report 2015-60. Prepared by Jeffrey P. Charest . June 23, 2016. Project No. 807.113 520 03-0555

FIGURES

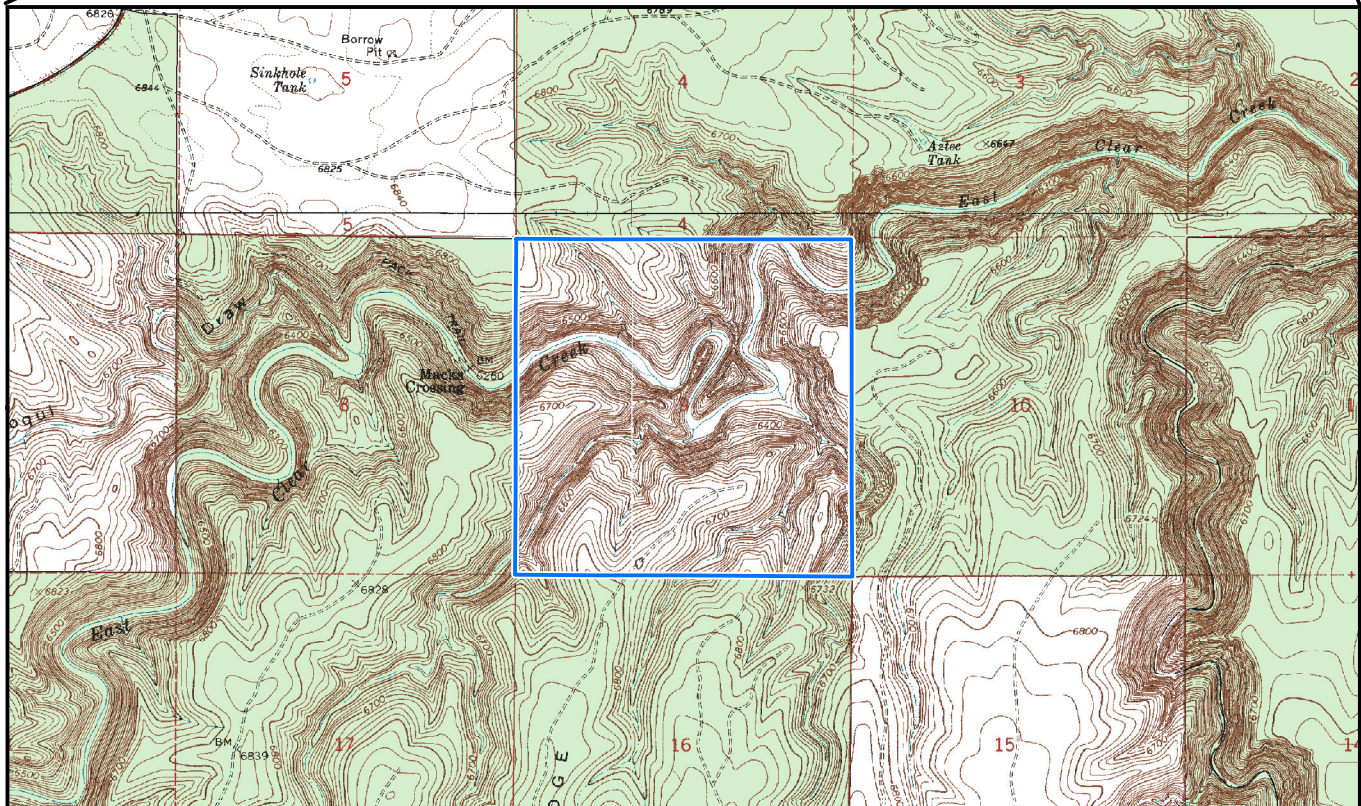
ARIZONA

PROJECT
LOCATION

SOUTHERN COCONINO COUNTY



Approximate Scale 1 Inch = 10 Miles



T14N, R12E, Section 9,
Coconino County, Arizona.
Leonard Canyon USGS 7.5' Quadrangle.
Data Source: BLM Surface Management (2015), World Street Maps

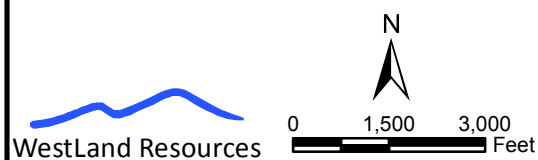
RESOLUTION COPPER

Phase I




Environmental Site Assessment
for the East Clear Creek Property

VICINITY MAP

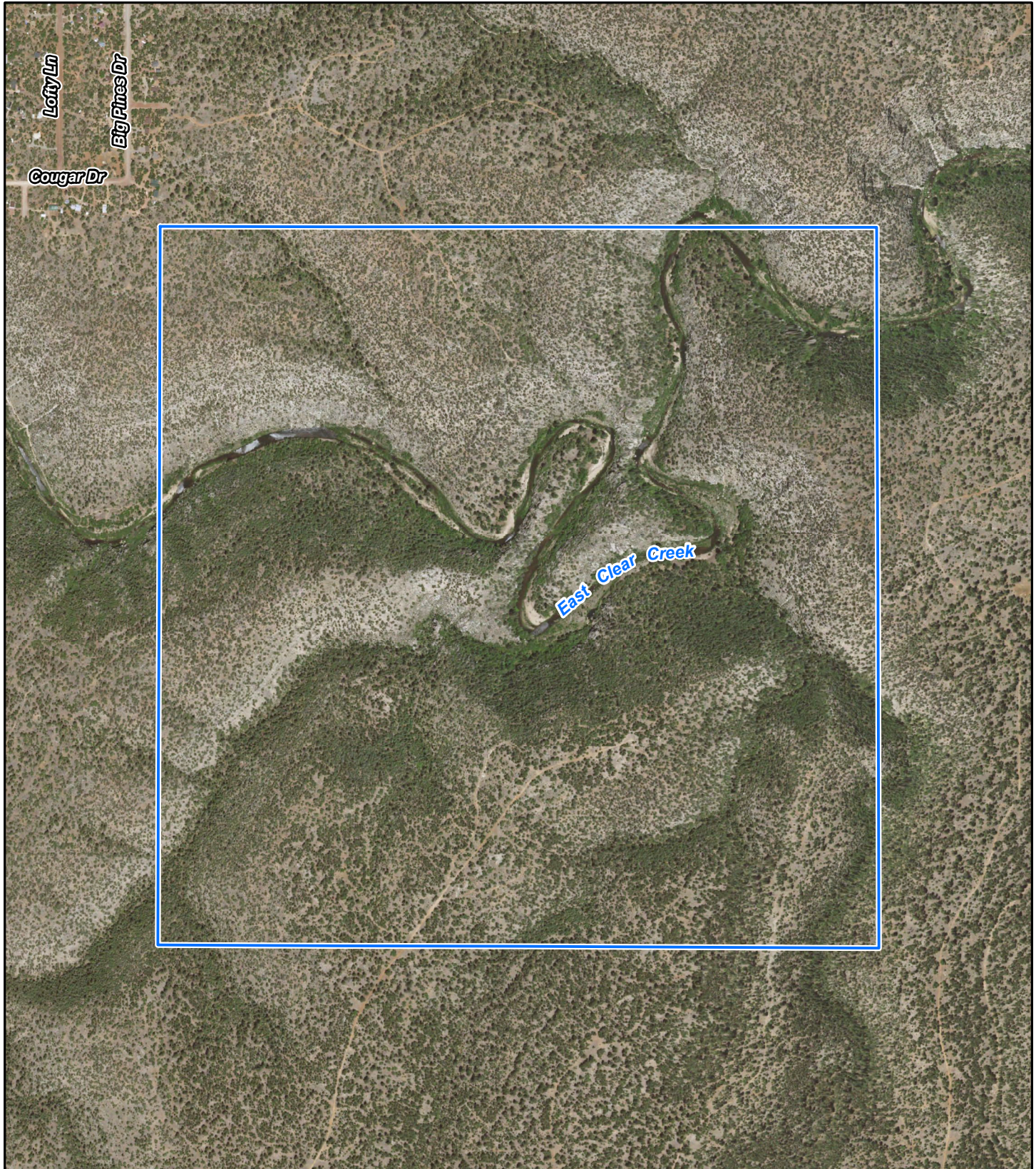
Figure 1



Legend

-  East Clear Creek Property
-  Private Land (No Color)
-  US Forest Service (USFS)

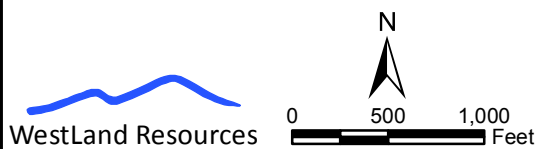
WestLand Resources



T14N, R12E, Section 9,
Coconino County, Arizona.
Leonard Canyon USGS 7.5' Quadrangle.
Image Source: NAIP, 6-2-2015

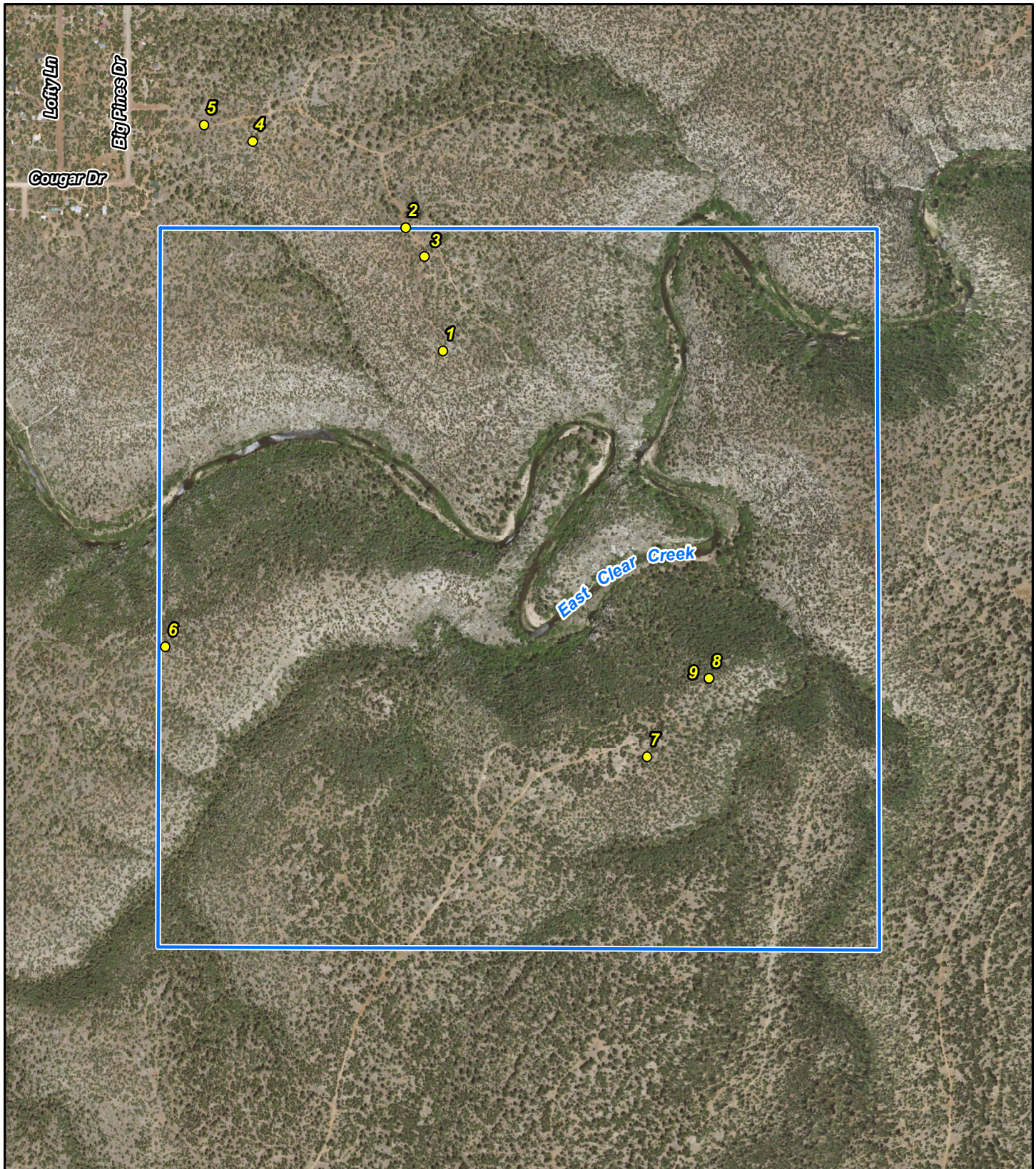
RESOLUTION COPPER
Phase I
Environmental Site Assessment
for the East Clear Creek Property

AERIAL OVERVIEW
Figure 2

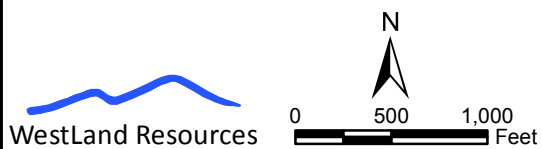


Legend

East Clear Creek Property



T14N, R12E, Section 9,
Coconino County, Arizona.
Leonard Canyon USGS 7.5' Quadrangle.
Image Source: NAIP, 6-2-2015



WestLand Resources

Legend

- East Clear Creek Property
- Photo Location

RESOLUTION COPPER

Phase I

Environmental Site Assessment

for the East Clear Creek Property

SITE RECONNAISSANCE MAP
Figure 3

APPENDIX A

Site Photographs



Photo 1. Property overview from north of East Clear Creek



Photo 2. View at northern boundary of Property from the end of the road



Photo 3. Informal fire pit on Property near northern boundary



Photo 4. Informal fire pit north of the Property



Photo 5. Scattered trash north of Property on Elk Road



Photo 6. View entering Property from western boundary, south of East Clear Creek



Photo 7. Informal fire pit at the end of the road, south of East Clear Creek



Photo 8. Overlook from location south of East Clear Creek away from the road



Photo 9. View from the end of the road, south of East Clear Creek

No Photo

APPENDIX B

User Questionnaire

ASTM E 1527-13 & 2247-08

USER QUESTIONNAIRE

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the “Brownfields Amendments”), the user must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that “all appropriate inquiry” is not complete.

(1). Environmental cleanup liens that are filed or recorded against the *property* (40 CFR 312.25).

Are you aware of any environmental cleanup liens against the *property* that are filed or recorded under federal, tribal, state or local law? NO

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

Are you aware of any 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 in a registry under federal, tribal, state or local law? NO

(3). Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).

As the user of this ESA do you have any specialized knowledge or experience related to the *property* or nearby 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

(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/lease being paid for this *property* reasonably reflect the fair market value of the *property*? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*? No information indicating that the value of the property had been reduced as a result of environmental issues.

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

Are you 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 user:

- (a.) Do you know the past uses of the *property*? Recreation and logging are the only known historical uses for the Property.
- (b.) Do you know of specific chemicals that are present or once were present at the *property*? No evidence or knowledge of hazardous chemicals being stored on site. Likely that small amounts of hydrocarbons were stored or used on site during logging activities, although no evidence of any storage was identified.
- (c.) Do you know of spills or other chemical releases that have taken place at the *property*? No evidence or knowledge of spills or releases of chemicals on the Property. Possible small incidental hydrocarbon releases during historic logging maintenance, although none were observed.
- (d.) Do you know of any environmental cleanups that have taken place at the *property*? No knowledge or evidence of cleanups being conducted on the Property.

(6). The degree of obviousness of the presence of 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 your 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*? No evidence of contamination on the Property.

In addition, certain information should be collected, if available, and provided to the environmental professional selected to conduct the Phase I. This information is intended to assist the environmental professional but is not necessarily required to qualify for one of the LLPs. The information includes:

- (a) The reason why the Phase I is required. Support of the land exchange between the US and Resolution Copper Mining
- (b) The type of *property* and type of *property* transaction, for example, sale, purchase, exchange, etc. Exchange
- (c) The complete and correct address for the *property* (a map or other documentation showing *property* location and boundaries is helpful). Not needed for this questionnaire; already provided.
- (d) The scope of services desired for the Phase I (including whether any parties to the *property* transaction may have a required standard scope of services on whether any considerations beyond the requirements of Practice E 1527/2247 are to be considered). Standard only.
- (e) Identification of all parties who will rely on the Phase I report. Resolution Copper Mining.
- (f) Identification of the site contact and how the contact can be reached. - Are there previous site contacts that should be interviewed? N/A
- (g) Any special terms and conditions which must be agreed upon by the environmental professional. N/A
- (h) Any other knowledge or experience with the *property* that may be pertinent to the environmental professional (for example, copies of any available prior environmental site assessment reports, documents, correspondence, etc., concerning the *property* and its environmental condition). N/A

USER NAME & FIRM: Ms. Casey McKeon, Resolution Copper Mining

EMAIL: casey.mckeon@resolutioncopper.com

DATE: May 12, 2016

**PROPERTY: East Clear Creek
ENVIRONMENTAL SITE ASSESSMENT**

OWNER/ OPERATOR/OCCUPANT QUESTIONNAIRE

The objective of interviews with Past and Present Owners and Occupant is to obtain information indicating recognized environmental conditions in connection with the Property. Past and present owners, operators and occupants shall be interviewed who are likely to have material information regarding the potential for contamination at the property, provided such persons have been identified and the information is not likely to be duplicative of information already obtained from different sources.

Property Location/Address: East Clear Creek - the entirety of Section 9 in Township 14 North, Range 12 East in Coconino County, Arizona

Interview Medium (underline one): in person, by telephone, in writing Date: May 12, 2016

Interviewee Relationship to the *property* (underline one): past owner, present owner, operator/manager, tenant, occupant, other.

Please respond to the questions provided below and expand your responses as appropriate:

(1). Please describe the current uses of the *property*, if known.

vacant

(2). Please describe the past/historic use(s) of the *property*, if known.

No current uses, maybe some recreational access. Recreation and logging are the only known historical uses for the property.

(3). Name the current and any past owners or occupants of the *property*, if known.

Current owner Swift Land and Cattle, LLC. Past is Clear Creek 640 LLC

(4). Please describe the past and/or current uses of adjoining properties, if known. unknown

(5). Please describe the general past and/or current uses of the surrounding area, if known. (i.e. residential, commercial, agricultural, industrial etc.) logging, recreational

(6). Are you aware of any chemicals/petroleum products in individual containers greater than 5-gallons that are present or once were present at the *property* (including used automotive/industrial batteries, pesticides, paints, solvents acids, bases, antifreeze, gasoline, diesel, fuel oil, kerosene, lubricating oil, benzene, etc)? This includes industrial drums (typically 55-gallons).

Yes_____ No_____ Unknown x_____

(7). Do you know of spills or other chemical releases that have taken place at the *property*?

Yes_____ No_____ Unknown x_____

(8). Do you know of any environmental cleanups that have taken place at the *property*?

Yes_____ No_____ Unknown x_____

(9). Are you aware of any environmental cleanup liens against the *property*?

Yes_____ No x_____ Unknown_____

(10). Are you aware of any engineering controls (capping, slurry walls or water treatment), land use restrictions or institutional controls (deed restriction, restrictive covenants, easements or zoning) intended to reduce exposure of a hazardous substance or petroleum product at the *property*?

Yes_____ No_____ Unknown x_____

(11). Are there any above ground storage tanks, underground storage tanks, vent pipes or access ways indicating storage tanks at the *property*?

Yes_____ No x_____ Unknown_____

(12). Are there any PCBs (transformers, hydraulic equipment) at the *property*?

Yes_____ No x_____ Unknown_____

(13). Have you observed stained soil/pavement, corrosion, or stressed vegetation that may indicate a petroleum or chemical spill at the *property*?

Yes_____ No x_____ Unknown_____

(14). Have you observed pits, ponds, or lagoons associated with wastewater treatment/disposal at the *property*?

Yes_____ No x_____ Unknown_____

(15). Are you aware of any wastewater/stormwater facilities at the *property* (drains, sumps, ditches, washes)?

Yes_____ No x_____ Unknown_____

(16). Are you aware of any wells located at the *property* (dry, irrigation, injection, or abandoned)?

Yes_____ No x_____ Unknown_____

(17). Are you aware of any septic systems at the *property*?

Yes_____ No x_____ Unknown_____

(18). Has the *property* been used for landfill, dump, battery storage, junkyard, or other disposal purposes?

Yes_____ No x_____ Unknown_____

(19). Has dirt fill been brought to the *property* that originated from a site of unknown origin or from a contaminated site?

Yes_____ No_____ Unknown x_____

(20). Are there or has there ever been any flooring, drains, or walls located within the facility that are stained by substances other than water or emitting odors?

Yes_____ No x_____ Unknown_____

(21). Are you aware of any other information that may be pertinent to identifying past and present environmental conditions at the property or copies of any available prior *environmental site assessment reports*, documents, correspondence, etc., concerning the *property* and its environmental condition?

Yes x_____ No_____ Unknown_____ Golder Phase 1 ESA 2005

APPENDIX C

Title Records



TRANSNATION TITLE INSURANCE COMPANY

223 N. San Francisco
Flagstaff, AZ 86001
Phone: (928) 774-7191
Fax: (928) 774-2167

December 8, 2005

Swift Current Land & Cattle LLC
2525 East Arizona Biltmore Cir Suite C-135
Phoenix, Arizona 85016

YOUR REF: **01491899**
OUR NO.: **01491899**

Attached is your ALTA Standard Owners 1992 policy of title insurance, per your instructions.



Transnation Title Insurance Company, an Arizona Corporation herein called the Company, for a valuable consideration, hereby commits to issue its policy or policies of title insurance, as identified in Schedule A, in favor of the proposed insured named in Schedule A, as owner or mortgagee of the estate or interest covered hereby in the land described or referred to in Schedule A, upon payment of the premiums and charges therefor; all subject to the exceptions and conditions and stipulations shown herein, the Exclusions from Coverage, the Schedule B exceptions, and the conditions and stipulations of the policy or policies requested. (See back cover for printed Exclusions from Coverage and Schedule B exceptions contained in various policy forms.)

This Commitment shall be effective only when the identity of the proposed Insured and the amount of the policy or policies committed for have been inserted in Schedule A hereof by the Company. either at the time of the issuance of this Commitment or by subsequent endorsements and is subject to the Conditions and Stipulations on the back cover.

This Commitment is preliminary to the issuance of such policy or policies of title insurance and all liability and obligations hereunder shall cease and terminate six months after the effective date hereof or when the policy or policies committed for shall issue. whichever first occurs. provided that the failure to issue such policy or policies is not the fault of the Company.

IN WITNESS WHEREOF, Transnation Title Insurance Company has caused its corporate name and seal to be hereunto affixed by its duly authorized officers on the date shown in Schedule A.

TRANSNATION TITLE INSURANCE COMPANY

Attest:

A handwritten signature in cursive script, likely belonging to the Secretary.

Secretary



A handwritten signature in cursive script, likely belonging to the President.

President

DISCLOSURE NOTICES

Good Funds Law

Arizona Revised Statutes Section 6-843 regulates the disbursement of escrow funds by an escrow agent. The law requires that funds be deposited in the escrow agent's escrow account and available for withdrawal prior to disbursement. Funds deposited with the Company by wire transfer may be disbursed upon receipt. Funds deposited with the Company in the form of cashier's checks, certified checks or teller's checks, or checks which are made by an affiliate of a state or federally regulated depository institution when the check is drawn on that institution, may be disbursed the same day as deposited. If funds are deposited with the Company by other methods, recording and/or disbursement may be delayed.

Privacy Notice (15 U.S.C. 6801 and 16 CFR Part 313):

We collect nonpublic personal information about you from information you provide on forms and documents and from other people such as your lender, real estate agent, attorney, escrow, etc. We do not disclose any nonpublic personal information about our customers or former customers to anyone, except as permitted by law. We restrict access to nonpublic personal information about you to those employees who need to know that information in order to provide products or services to you. We maintain physical, electronic and procedural safeguards that comply with federal regulations to guard your nonpublic personal information.

PURCHASER DWELLING ACTIONS NOTICE

Pursuant to Arizona Revised Statutes Section 12-1363.N, notice is hereby provided to the purchaser of a dwelling of the provisions of Arizona Revised Statutes Sections 12-1361, 1362 and 1363. These statutory sections set forth the requirements to be met by a purchaser prior to bringing an action against the seller of a dwelling arising out of or related to the design, construction, condition or sale of the dwelling. "Dwelling" means a single or multifamily unit designed for residential use and common areas and improvements owned or maintained by an association or its members. "Seller" means any person, firm, partnership, corporation, association or other organization engaged in the business of designing, constructing or selling dwellings. The complete statutory sections can be viewed on the Arizona State Legislature's web site: www.azleg.state.az.us/ars/ars.htm.

NOTICE:

Pursuant to Arizona Revised Statutes 11-480, effective January 1, 1991, the County Recorder may not accept documents for recording that do not comply with the following:

- a Print must be ten-point type (pica) or larger.
- b Margins of at least one-half inch along the left and right sides one-half inch across the bottom and at least two inches on top for recording and return address information.
- c Each instrument shall be no larger than 8 ½ inches in width and 14 inches in length.

Escrow Officer: **Not Applicable**
Transnation Title Insurance Company
223 N. San Francisco
Flagstaff, AZ 86001

COMMITMENT FOR TITLE INSURANCE

Issued by

Transnation Title Insurance Company

SCHEDULE A

1. Effective Date: **April 15, 2005** at 7:30 a.m. File No.: 01323006
2. Policy or Policies to be issued: **ALTA Standard Owners 1992**

Proposed Insured: **Swift Current Land & Cattle LLC, an Arizona limited liability company**

Liability: **\$TO COME**

Policy or Policies to be issued: **None**

Policy or Policies to be issued: **None**
3. The estate or interest in the land described or referred to in the Commitment and covered herein is **A FEE**.
4. Title to the said estate or interest in said land is at the effective date hereof vested in:

Clear Creek 640, LLC, an Arizona limited liability company
5. The land referred to in this Commitment is situated in the County of Coconino, State of ARIZONA, and is described as follows:

As fully set forth on "Exhibit A" attached hereto and by this reference incorporated herein.

Title Officer: **Betty McIntosh/BDM**
Typist: **b18**

Amended: May 17, 2005 **No. 2**

Page 3 of 8

EXHIBIT "A"

All of Section 9, Township 14 North, Range 12 East of the Gila and Salt River Base and Meridian, Coconino County, Arizona.

Including all oil, gas and other minerals in, on or under or which may be produced from said land.

**SCHEDULE B – SECTION I
REQUIREMENTS**

The following are the requirements to be complied with prior to the issuance of said policy or policies. Any other instrument recorded subsequent to the date hereof may appear as an exception under Schedule B of the policy to be issued. Unless otherwise noted, all documents must be recorded in the office of the Recorder of the County in which said property is located.

1. PAYMENT OF any and all assessments.
2. FURNISH copy of filed Articles of organization of the limited liability company named below which states whether said limited liability company is member managed or manager managed:

Clear Creek 640, LLC, an Arizona limited liability company

3. SUBMIT fully executed copy of the Operating Agreement (and all amendments) of the limited liability company named below for examination. The right is reserved to make additional requirements upon said examination.

Clear Creek 640, LLC, an Arizona limited liability company

4. RECORD Deed from Clear Creek 640, LLC, an Arizona limited liability company to Trust for the Public Land.

NOTE: ARS 11:1133 may require the completion and filing of an Affidavit of Value.

TAX NOTE:

Year	2004
Parcel No.	403-13-006E/8
Total Tax	\$14.30
First Half	\$paid
Second Half	\$paid

ARB No. 403-13-002P

END OF SCHEDULE B – SECTION I

**SCHEDULE B – SECTION II
EXCEPTIONS**

Schedule B of policy or policies to be issued will contain exceptions to the following matters unless the same are disposed of to the satisfaction of the Company:

- A. Defects, liens, encumbrances, adverse claims or other matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof but prior to the date the proposed Insured acquires for value of record the estate or interest or mortgage thereon covered by this commitment.
- 1. OBLIGATIONS imposed upon said land by its inclusion within any district formed pursuant to Title 48, Arizona Revised Statutes, excluding however Municipal or County Improvement Districts.
- 2. TAXES AND ASSESSMENTS collectible by the County Treasurer, a lien not yet due and payable for the following year:

2005
- 3. THE RIGHTS of the United States of America the State of Arizona and/or other parties to any portion of the within property lying within the bed, or former bed, of any water course, as that term is defined under Arizona law.
- 4. ANY TERMS, CONDITIONS, RULES OR RESTRICTIONS imposed, upon the right of access to the land described in Schedule A, by the United States of America acting by and through the Forest Service, Department of Agriculture.

END OF SCHEDULE B – SECTION II

COMMITMENT CONDITIONS AND STIPULATIONS

1. The term mortgage, when used herein, shall include deed of trust, trust deed, or other security instrument.
2. If the proposed insured has or acquires actual knowledge of any defect, lien, encumbrance, adverse claim or other matter affecting the estate or interest or mortgage thereon covered by this Commitment other than those shown in Schedule B hereof, and shall fail to disclose such knowledge to the Company in writing, the Company shall be relieved from liability for any loss or damage resulting from any act or reliance hereon to the extent the Company is prejudiced by failure to so disclose such knowledge. If the proposed Insured shall disclose such knowledge to the Company, or if the Company otherwise acquires actual knowledge of any such defect, lien, encumbrance, adverse claim or other matter, the Company at its option may amend Schedule B of this Commitment accordingly, but such amendment shall not relieve the Company from liability previously incurred pursuant to paragraph 3 of these Conditions and Stipulations.
3. Liability of the Company under this Commitment shall be only to the named proposed insured and such parties included under the definition of insured in the form of policy or policies committed for and only for actual loss incurred in reliance hereon in undertaking in good faith, (a) to comply with the requirements hereof, or (b) to eliminate exceptions shown in Schedule B, or (c) to acquire or create the estate or interest or mortgage thereon covered by this Commitment. In no event shall such liability exceed the amount stated in Schedule A for the policy or policies committed for and such liability is subject to the insuring provisions, the Conditions and Stipulations, and the Exclusions from Coverage of the form of policy or policies committed for in favor of the proposed insured which are hereby incorporated by reference and are made a part of this Commitment except as expressly modified herein.
4. Any action or actions or rights of action that the proposed insured may have or may bring against the Company arising out of the status of the title to the estate or interest or the status of the mortgage thereon covered by this Commitment must be based on and are subject to the provisions of this Commitment

AMERICAN LAND TITLE ASSOCIATION LOAN POLICY (10-17-92)
WITH ALTA ENDORSEMENT-FORM 1 COVERAGE
and
AMERICAN LAND TITLE ASSOCIATION LEASEHOLD LOAN POLICY (10-17-92)
WITH ALTA ENDORSEMENT-FORM 1 COVERAGE
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorney's fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
- (b) Any governmental policy power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
 - (a) created, suffered, assumed or agreed to by the insured claimant
 - (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
 - (c) resulting in no loss or damage to the insured claimant;
 - (d) attaching or created subsequent to Date of Policy; (except to the extent that this policy insures the priority of the lien of the insured mortgage over any statutory lien for services, labor or material) or
 - (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the estate or interest insured by this policy.
4. Unenforceability of the lien of the insured mortgage because of the inability or failure of the insured at Date of Policy, or the inability or failure of any subsequent owner of the indebtedness, to comply with applicable doing business laws of the state in which the land is situated.
5. Invalidity or unenforceability of the lien of the insured mortgage, or claim thereof, which arises out of the transaction evidenced by the insured mortgage and is based upon usury or any consumer credit protection or truth in lending law.
6. Any statutory lien for services, labor or materials (or the claim of priority of any statutory lien for services, labor or materials over the lien of the insured mortgage) arising from an improvement or work related to the land which is contracted for and commenced subsequent to Date of Policy and is not financed in whole or in part by proceeds of the indebtedness secured by the insured mortgage which at Date of Policy the insured has advanced or is obligated to advance.
7. Any claim which arises out of the transaction creating the interest of the mortgagee insured by this Policy, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that is based on:
 - (a) the transaction creating the interest of the insured mortgagee being deemed a fraudulent conveyance or fraudulent transfer, or
 - (b) the subordination of the interest of the insured mortgagee as a result of the application of the doctrine of equitable subordination; or
 - (c) the transaction creating the interest of the insured mortgagee being deemed a preferential transfer except where the preferential transfer results from the failure:
 - (i) to timely record the instrument of transfer; or
 - (ii) of such recordation to impart notice to a purchaser for value or a judgment or lien creditor.

The above policy forms may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage policy will also include the following General Exceptions:

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records. Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests or claim which are not shown by the public records but which could be ascertained by an inspection of the land or by making inquiry of persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.

AMERICAN LAND TITLE ASSOCIATION OWNER'S POLICY (10-17-92)
And
AMERICAN LAND TITLE ASSOCIATION LEASEHOLD OWNER'S POLICY (10-17-92)
EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violating affecting the land has been recorded in the public records at Date of Policy.
- (b) Any governmental policy power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
 - (a) created, suffered, assumed or agreed to by the insured claimant
 - (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
 - (c) resulting in no loss or damage to the insured claimant;
 - (d) attaching or created subsequent to Date of Policy; (except to the extent that this policy insures the priority of the lien of the insured mortgage over any statutory lien for services, labor or material) or
 - (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the estate or interest insured by this policy.
4. Any claim, which arises out of the transaction vesting in the insured the estate or interest insured by the policy, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that is based on:
 - (a) the transaction creating the estate or interest insured by this policy being deemed a fraudulent conveyance or fraudulent transfer, or
 - (b) the transaction creating the estate or interest insured by the policy being deemed a preferential transfer except where the preferential transfer results from the failure:
 - (i) to timely record the instrument of transfer; or
 - (ii) of such recordation to impart notice to a purchaser for value or a judgment or lien creditor.

The above policy forms may be issued to afford either Standard Coverage or Extended Coverage. In addition to the above Exclusions from Coverage, the Exceptions from Coverage in a Standard Coverage Policy will also include the following General Exceptions.

EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage (and the Company will not pay costs, attorneys' fees or expenses) which arise by reason of:

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records. Proceedings by a public agency which may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests or claim which are not shown by the public records but which could be ascertained by an inspection of the land or by making inquiry of persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.

**AMERICAN LAND TITLE ASSOCIATION
HOMEOWNER'S POLICY OF TITLE INSURANCE (10/17/98)
EXCLUSIONS**

In addition to the Exceptions in Schedule B, You are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of any law or government regulation. This includes ordinances, laws and regulations concerning:
 - a. building
 - b. zoning
 - c. land use
 - d. improvements on the Land
 - e. land division
 - f. environmental protection

This Exclusion does not apply to violations or the enforcement of these matters if notice of the violation or enforcement appears in the Public Records at the Policy Date.
This Exclusion does not limit the coverage described in Covered Risk 14, 15, 16, 17 or 24.

2. The failure of Your existing structures, or any part of them, to be constructed in accordance with applicable building codes. This Exclusion does not apply to violations of building codes if notice of the violation appears in the Public Records at the Policy Date.
3. The right to take the Land by condemning it, unless:
 - a. a notice of exercising the right appears in the Public Records at the Policy Date; or
 - b. the taking happened before the Policy date and is binding on You if You bought the Land without knowing of the taking.
4. Risks:
 - a. that are created, allowed, or agreed to by You, whether or not they appear in the Public Records;
 - b. that are known to You at the Policy Date, but not to Us, unless they appear in the Public Records at the Policy Date;
 - c. that result in no loss to You; or
 - d. that first occur after the Policy Date – this does not limit the coverage described in Covered Risk 7, 8d, 22, 23, 24 or 25.
5. Failure to pay value for Your Title.
6. Lack of a right:
 - a. to any land outside the area specifically described and referred to in paragraph 3 of Schedule A; and
 - b. in streets, alleys, or waterways that touch the land.

This Exclusion does not limit the coverage described in Covered Risk 11 or 18.

**AMERICAN LAND TITLE ASSOCIATION
RESIDENTIAL TITLE INSURANCE POLICY (6-2-87)
EXCLUSIONS**

In addition to the Exceptions in Schedule B, you are not insured against loss, costs, attorneys' fees, and expenses resulting from:

1. Governmental police power, and the existence or violation of any law or government regulation. This includes building and zoning ordinances and also laws and regulations concerning:
 - Land use
 - Improvements on the land
 - Land division
 - Environmental protection
- This exclusion does not apply to violations or the enforcement of these matters which appear in the public records at Policy Date.
This exclusion does not limit the zoning coverage described in items 12 and 13 of Covered Title Risks.
2. The right to take the land by condemning it, unless;
 - A notice of exercising the right appears in the public records on the Policy Date
 - The taking happened prior to the Policy Date and is binding on you if you bought the land without knowing of the taking
 3. Title Risks:
 - That are created, allowed, or agreed to by you
 - That are known to you, but not to us, on the Policy Date – unless they appeared in the Public Records
 - That result in no loss to you
 - That first affect your title after the Policy Date – this does not limit the labor and material lien coverage in Item B of Covered Title Risks
 4. Failure to pay value for your title.
 5. Lack of a right:
 - To any land outside the area specifically described and referred to in Item 3 of Schedule A
 - OR
 - In streets, alleys, or waterways that touch your land

This exclusion does not limit the access coverage in Item 5 of Covered Title Risks

OWNER'S POLICY OF TITLE INSURANCE

Issued by **Transnation Title Insurance Company**



Transnation Title Insurance Company is a member of the LandAmerica family of title insurance underwriters.

SUBJECT TO THE EXCLUSIONS FROM COVERAGE, THE EXCEPTIONS FROM COVERAGE CONTAINED IN SCHEDULE B AND THE CONDITIONS AND STIPULATIONS, TRANSNATION TITLE INSURANCE COMPANY, an Arizona corporation, herein called the Company, insures, as of Date of Policy shown in Schedule A, against loss or damage, not exceeding the Amount of Insurance stated in Schedule A, sustained or incurred by the insured by reason of:

1. Title to the estate or interest described in Schedule A being vested other than as stated therein;
2. Any defect in or lien or encumbrance on the title;
3. Unmarketability of the title;
4. Lack of a right of access to and from the land.

The Company will also pay the costs, attorneys' fees and expenses incurred in defense of the title, as insured, but only to the extent provided in the Conditions and Stipulations.

IN WITNESS WHEREOF, TRANSNATION TITLE INSURANCE COMPANY has caused its corporate name and seal to be hereunto affixed by its duly authorized officers, the Policy to become valid when countersigned by an authorized officer or agent of the Company.

TRANSNATION TITLE INSURANCE COMPANY

Attest:


Secretary



By:


President

EXCLUSIONS FROM COVERAGE

The following matters are expressly excluded from the coverage of this policy and the Company will not pay loss or damage, costs, attorneys' fees or expenses which arise by reason of:

1. (a) Any law, ordinance or governmental regulation (including but not limited to building and zoning laws, ordinances, or regulations) restricting, regulating, prohibiting or relating to (i) the occupancy, use, or enjoyment of the land; (ii) the character, dimensions or location of any improvement now or hereafter erected on the land; (iii) a separation in ownership or a change in the dimensions or area of the land or any parcel of which the land is or was a part; or (iv) environmental protection, or the effect of any violation of these laws, ordinances or governmental regulations, except to the extent that a notice of the enforcement thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
(b) Any governmental police power not excluded by (a) above, except to the extent that a notice of the exercise thereof or a notice of a defect, lien or encumbrance resulting from a violation or alleged violation affecting the land has been recorded in the public records at Date of Policy.
2. Rights of eminent domain unless notice of the exercise thereof has been recorded in the public records at Date of Policy, but not excluding from coverage any taking which has occurred prior to Date of Policy which would be binding on the rights of a purchaser for value without knowledge.
3. Defects, liens, encumbrances, adverse claims or other matters:
 - (a) created, suffered, assumed or agreed to by the insured claimant;
 - (b) not known to the Company, not recorded in the public records at Date of Policy, but known to the insured claimant and not disclosed in writing to the Company by the insured claimant prior to the date the insured claimant became an insured under this policy;
 - (c) resulting in no loss or damage to the insured claimant;
 - (d) attaching or created subsequent to Date of Policy; or
 - (e) resulting in loss or damage which would not have been sustained if the insured claimant had paid value for the estate or interest insured by this policy.
4. Any claim, which arises out of the transaction vesting in the Insured the estate or interest insured by this policy, by reason of the operation of federal bankruptcy, state insolvency, or similar creditors' rights laws, that is based on:
 - (a) the transaction creating the estate or interest insured by this policy being deemed a fraudulent conveyance or fraudulent transfer; or
 - (b) the transaction creating the estate or interest insured by this policy being deemed a preferential transfer except where the preferential transfer results from the failure:
 - (i) to timely record the instrument of transfer; or
 - (ii) of such recordation to impart notice to a purchaser for value or a judgment or lien creditor.

1. DEFINITION OF TERMS.

The following terms when used in this policy mean:

- (a) "insured": the insured named in Schedule A, and, subject to any rights or defenses the Company would have had against the named insured, those who succeed to the interest of the named insured by operation of law as distinguished from purchase including, but not limited to, heirs, distributees, devisees, survivors, personal representatives, next of kin, or corporate or fiduciary successors.
- (b) "insured claimant": an insured claiming loss or damage.
- (c) "knowledge" or "known": actual knowledge, not constructive knowledge or notice which may be imputed to an insured by reason of the public records as defined in this policy or any other records which impart constructive notice of matters affecting the land.
- (d) "land": the land described or referred to in Schedule A, and improvements affixed thereto which by law constitute real property. The term "land" does not include any property beyond the lines of the area described or referred to in Schedule A, nor any right, title, interest, estate or easement in abutting streets, roads, avenues, alleys, lanes, ways or waterways, but nothing herein shall modify or limit the extent to which a right of access to and from the land is insured by this policy.
- (e) "mortgage": mortgage, deed of trust, trust deed, or other security instrument.
- (f) "public records": records established under state statutes at Date of Policy for the purpose of imparting constructive notice of matters relating to real property to purchasers for value and without knowledge. With respect to Section 1(a) (iv) of the Exclusions From Coverage, "public records" shall also include environmental protection liens filed in the records of the clerk of the United States district court for the district in which the land is located.
- (g) "unmarketability of the title": an alleged or apparent matter affecting the title to the land, not excluded or excepted from coverage, which would entitle a purchaser of the estate or interest described in Schedule A to be released from the obligation to purchase by virtue of a contractual condition requiring the delivery of marketable title.

2. CONTINUATION OF INSURANCE AFTER CONVEYANCE OF TITLE.

The coverage of this policy shall continue in force as of Date of Policy in favor of an insured only so long as the insured retains an estate or interest in the land, or holds an indebtedness secured by a purchase money mortgage given by a purchaser from the insured, or only so long as the insured shall have liability by reason of covenants of warranty made by the insured in any transfer or conveyance of the estate or interest. This policy shall not continue in force in favor of any purchaser from the insured of either (i) an estate or interest in the land, or (ii) an indebtedness secured by a purchase money mortgage given to the insured.

3. NOTICE OF CLAIM TO BE GIVEN BY INSURED CLAIMANT.

The insured shall notify the Company promptly in writing (i) in case of any litigation as set forth in Section 4(a) below, (ii) in case knowledge shall come to an insured hereunder of any claim of title or interest which is adverse to the title to the estate or interest, as insured, and which might cause loss or damage for which the Company may be liable by virtue of this policy, or (iii) if title to the estate or interest, as insured, is rejected as unmarketable. If prompt notice shall not be given to the Company, then as to the insured all liability of the Company shall terminate with regard to the matter or matters for which prompt notice is required; provided, however, that failure to notify the Company shall in no case prejudice the rights of any insured under this policy unless the Company shall be prejudiced by the failure and then only to the extent of the prejudice.

4. DEFENSE AND PROSECUTION OF ACTIONS; DUTY OF INSURED CLAIMANT TO COOPERATE.

(a) Upon written request by the insured and subject to the options contained in Section 6 of these Conditions and Stipulations, the Company, at its own cost and without unreasonable delay, shall provide for the defense of an insured in litigation in which any third party asserts a claim adverse to the title or interest as insured, but only as to those stated causes of action alleging a defect, lien or encumbrance or other matter insured against by this policy. The Company shall have the right to select counsel of its choice (subject to the right of the insured to object for reasonable cause) to represent the insured as to those stated causes of action and shall not be liable for and will not pay the fees of any other counsel. The Company will not pay any fees, costs or expenses incurred by the insured in the defense of those causes of action which allege matters not insured by this policy.

(b) The Company shall have the right, at its own cost, to institute and prosecute any action or proceeding or to do any other act which in its opinion may be necessary or desirable to establish the title to the estate or interest, as insured, or to prevent or reduce loss or damage to the insured. The Company may take any appropriate action under the terms of this policy, whether or not it shall be liable hereunder, and shall not thereby concede liability or waive any provision of this policy. If the Company shall exercise its rights under this paragraph, it shall do so diligently.

(c) Whenever the Company shall have brought an action or interposed a defense as required or permitted by the provisions of this policy, the Company may pursue any litigation to final determination by a

court of competent jurisdiction and expressly reserves the right, in its sole discretion, to appeal from any adverse judgment or order.

(d) In all cases where this policy permits or requires the Company to prosecute or provide for the defense of any action or proceeding, the insured shall secure to the Company the right to so prosecute or provide defense in the action or proceeding, and all appeals therein, and permit the Company to use, at its option, the name of the insured for this purpose. Whenever requested by the Company, the insured, at the Company's expense, shall give the Company all reasonable aid (i) in any action or proceeding, securing evidence, obtaining witnesses, prosecuting or defending the action or proceeding, or effecting settlement, and (ii) in any other lawful act which in the opinion of the Company may be necessary or desirable to establish the title to the estate or interest as insured. If the Company is prejudiced by the failure of the insured to furnish the required cooperation, the Company's obligations to the insured under the policy shall terminate, including any liability or obligation to defend, prosecute, or continue any litigation, with regard to the matter or matters requiring such cooperation.

5. PROOF OF LOSS OR DAMAGE.

In addition to and after the notices required under Section 3 of these Conditions and Stipulations have been provided the Company, a proof of loss or damage signed and sworn to by the insured claimant shall be furnished to the Company within 90 days after the insured claimant shall ascertain the facts giving rise to the loss or damage. The proof of loss or damage shall describe the defect in, or lien or encumbrance on the title, or other matter insured against by this policy which constitutes the basis of loss or damage and shall state, to the extent possible, the basis of calculating the amount of the loss or damage. If the Company is prejudiced by the failure of the insured claimant to provide the required proof of loss or damage, the Company's obligations to the insured under the policy shall terminate, including any liability or obligation to defend, prosecute, or continue any litigation, with regard to the matter or matters requiring such proof of loss or damage.

In addition, the insured claimant may reasonably be required to submit to examination under oath by any authorized representative of the Company and shall produce for examination, inspection and copying, at such reasonable times and places as may be designated by any authorized representative of the Company, all records, books, ledgers, checks, correspondence and memoranda, whether bearing a date before or after Date of Policy, which reasonably pertain to the loss or damage. Further, if requested by any authorized representative of the Company, the insured claimant shall grant its permission, in writing, for any authorized representative of the Company to examine, inspect and copy all records, books, ledgers, checks, correspondence and memoranda in the custody or control of a third party, which reasonably pertain to the loss or damage. All information designated as confidential by the insured claimant provided to the Company pursuant to this Section shall not be disclosed to others unless, in the reasonable judgment of the Company, it is necessary in the administration of the claim. Failure of the insured claimant to submit for examination under oath, produce other reasonably requested information or grant permission to secure reasonably necessary information from third parties as required in this paragraph shall terminate any liability of the Company under this policy as to that claim.

6. OPTIONS TO PAY OR OTHERWISE SETTLE CLAIMS; TERMINATION OF LIABILITY.

In case of a claim under this policy, the Company shall have the following additional options:

(a) To Pay or Tender Payment of the Amount of Insurance.

To pay or tender payment of the amount of insurance under this policy together with any costs, attorneys' fees and expenses incurred by the insured claimant, which were authorized by the Company, up to the time of payment or tender of payment and which the Company is obligated to pay. Upon the exercise by the Company of this option, all liability and obligations to the insured under this policy, other than to make the payment required, shall terminate, including any liability or obligation to defend, prosecute, or continue any litigation, and the policy shall be surrendered to the Company for cancellation.

(b) To Pay or Otherwise Settle With Parties Other than the Insured or With the Insured Claimant.

(i) to pay or otherwise settle with other parties for or in the name of an insured claimant any claim insured against under this policy, together with any costs, attorneys' fees and expenses incurred by the insured claimant which were authorized by the Company up to the time of payment and which the Company is obligated to pay; or

(ii) to pay or otherwise settle with the insured claimant the loss or damage provided for under this policy, together with any costs, attorneys' fees and expenses incurred by the insured claimant which were authorized by the Company up to the time of payment and which the Company is obligated to pay.

Upon the exercise by the Company of either of the options provided for in paragraphs (b)(i) or (ii), the Company's obligations to the insured under this policy for the claimed loss or damage, other than the payments required to be made, shall terminate, including any liability or obligation to defend, prosecute or continue any litigation.

Conditions and Stipulations Continued Inside Cover

CONTROL NO. A37-1016713

CONDITIONS AND STIPULATIONS
(Continued)

7. DETERMINATION, EXTENT OF LIABILITY AND COINSURANCE.

This policy is a contract of indemnity against actual monetary loss or damage sustained or incurred by the insured claimant who has suffered loss or damage by reason of matters insured against by this policy and only to the extent herein described.

(a) The liability of the Company under this policy shall not exceed the least of:

- (i) the Amount of Insurance stated in Schedule A; or,
- (ii) the difference between the value of the insured estate or interest as insured and the value of the insured estate or interest subject to the defect, lien or encumbrance insured against by this policy.

(b) In the event the Amount of Insurance stated in Schedule A at the Date of Policy is less than 80 percent of the value of the insured estate or interest or the full consideration paid for the land, whichever is less, or if subsequent to the Date of Policy an improvement is erected on the land which increases the value of the insured estate or interest by at least 20 percent over the Amount of Insurance stated in Schedule A, then this Policy is subject to the following:

- (i) where no subsequent improvement has been made, as to any partial loss, the Company shall only pay the loss pro rata in the proportion that the amount of insurance at Date of Policy bears to the total value of the insured estate or interest at Date of Policy; or
- (ii) where a subsequent improvement has been made, as to any partial loss, the Company shall only pay the loss pro rata in the proportion that 120 percent of the Amount of Insurance stated in Schedule A bears to the sum of the Amount of Insurance stated in Schedule A and the amount expended for the improvement.

The provisions of this paragraph shall not apply to costs, attorneys' fees and expenses for which the Company is liable under this policy, and shall only apply to that portion of any loss which exceeds, in the aggregate, 10 percent of the Amount of Insurance stated in Schedule A.

(c) The Company will pay only those costs, attorneys' fees and expenses incurred in accordance with Section 4 of these Conditions and Stipulations.

8. APPORTIONMENT.

If the land described in Schedule A consists of two or more parcels which are not used as a single site, and a loss is established affecting one or more of the parcels but not all, the loss shall be computed and settled on a pro rata basis as if the amount of insurance under this policy was divided pro rata as to the value on Date of Policy of each separate parcel to the whole, exclusive of any improvements made subsequent to Date of Policy, unless a liability or value has otherwise been agreed upon as to each parcel by the Company and the insured at the time of the issuance of this policy and shown by an express statement or by an endorsement attached to this policy.

9. LIMITATION OF LIABILITY.

(a) If the Company establishes the title, or removes the alleged defect, lien or encumbrance, or cures the lack of a right of access to or from the land, or cures the claim of unmarketability of title, all as insured, in a reasonably diligent manner by any method, including litigation and the completion of any appeals therefrom, it shall have fully performed its obligations with respect to that matter and shall not be liable for any loss or damage caused thereby.

(b) In the event of any litigation, including litigation by the Company or with the Company's consent, the Company shall have no liability for loss or damage until there has been a final determination by a court of competent jurisdiction, and disposition of all appeals therefrom, adverse to the title as insured.

(c) The Company shall not be liable for loss or damage to any insured for liability voluntarily assumed by the insured in settling any claim or suit without the prior written consent of the Company.

10. REDUCTION OF INSURANCE; REDUCTION OR TERMINATION OF LIABILITY.

All payments under this policy, except payments made for costs, attorneys' fees and expenses, shall reduce the amount of the insurance pro tanto.

11. LIABILITY NONCUMULATIVE.

It is expressly understood that the amount of insurance under this policy shall be reduced by any amount the Company may pay under any policy insuring a mortgage to which exception is taken in Schedule B or to which the insured has agreed, assumed, or taken subject, or which is hereafter executed by an insured and which is a charge or lien on the estate or interest described or referred to in Schedule A, and the amount so paid shall be deemed a payment under this policy to the insured owner.

12. PAYMENT OF LOSS.

(a) No payment shall be made without producing this policy for endorsement of the payment unless the policy has been lost or destroyed, in which case proof of loss or destruction shall be furnished to the satisfaction of the Company.

(b) When liability and the extent of loss or damage has been definitely fixed in accordance with these Conditions and Stipulations, the loss or damage shall be payable within 30 days thereafter.

13. SUBROGATION UPON PAYMENT OR SETTLEMENT.

(a) The Company's Right of Subrogation.

Whenever the Company shall have settled and paid a claim under this policy, all right of subrogation shall vest in the Company unaffected by any act of the insured claimant.

The Company shall be subrogated to and be entitled to all rights and remedies which the insured claimant would have had against any person or property in respect to the claim had this policy not been issued. If requested by the Company, the insured claimant shall transfer to the Company all rights and remedies against any person or property necessary in order to perfect this right of subrogation. The insured claimant shall permit the Company to sue, compromise or settle in the name of the insured claimant and to use the name of the insured claimant in any transaction or litigation involving these rights or remedies.

If a payment on account of a claim does not fully cover the loss of the insured claimant, the Company shall be subrogated to these rights and remedies in the proportion which the Company's payment bears to the whole amount of the loss.

If loss should result from any act of the insured claimant, as stated above, that act shall not void this policy, but the Company, in that event, shall be required to pay only that part of any losses insured against by this policy which shall exceed the amount, if any, lost to the Company by reason of the impairment by the insured claimant of the Company's right of subrogation.

(b) The Company's Rights Against Non-insured Obligors.

The Company's right of subrogation against non-insured obligors shall exist and shall include, without limitation, the rights of the insured to indemnities, guaranties, other policies of insurance or bonds, notwithstanding any terms or conditions contained in those instruments which provide for subrogation rights by reason of this policy.

14. ARBITRATION.

Unless prohibited by applicable law, either the Company or the insured may demand arbitration pursuant to the Title Insurance Arbitration Rules of the American Arbitration Association. Arbitrable matters may include, but are not limited to, any controversy or claim between the Company and the insured arising out of or relating to this policy, any service of the Company in connection with its issuance or the breach of a policy provision or other obligation. All arbitrable matters when the Amount of insurance is \$1,000,000 or less shall be arbitrated at the option of either the Company or the insured. All arbitrable matters when the Amount of Insurance is in excess of \$1,000,000 shall be arbitrated only when agreed to by both the Company and the insured. Arbitration pursuant to this policy and under the Rules in effect on the date the demand for arbitration is made or, at the option of the insured, the Rules in effect at Date of Policy shall be binding upon the parties. The award may include attorneys' fees only if the laws of the state in which the land is located permit a court to award attorneys' fees to a prevailing party. Judgment upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.

The law of the situs of the land shall apply to an arbitration under the Title Insurance Arbitration Rules.

A copy of the Rules may be obtained from the Company upon request.

15. LIABILITY LIMITED TO THIS POLICY; POLICY ENTIRE CONTRACT.

(a) This policy together with all endorsements, if any, attached hereto by the Company is the entire policy and contract between the insured and the Company. In interpreting any provision of this policy, this policy shall be construed as a whole.

(b) Any claim of loss or damage, whether or not based on negligence, and which arises out of the status of the title to the estate or interest covered hereby or by any action asserting such claim, shall be restricted to this policy.

(c) No amendment of or endorsement to this policy can be made except by a writing endorsed hereon or attached hereto signed by either the President, a Vice President, the Secretary, an Assistant Secretary, or validating officer or authorized signatory of the Company.

16. SEVERABILITY.

In the event any provision of the policy is held invalid or unenforceable under applicable law, the policy shall be deemed not to include that provision and all other provisions shall remain in full force and effect.

17. NOTICES, WHERE SENT.

All notices required to be given the Company and any statement in writing required to be furnished the Company shall include the number of this policy and shall be addressed to: Consumer Affairs Department, P.O. Box 27567, Richmond, Virginia 23261-7567.

POLICY OF TITLE INSURANCE
Issued by
Transnation Title Insurance Company
SCHEDULE A

Amount of Insurance: **\$3,400,000.00**

Policy/File No.: **01491899**

Date of Policy: **October 14, 2005 at Fee No. 3349408**

Name of Insured:

Swift Current Land & Cattle LLC, an Arizona Limited Liability Company

1. The estate or interest referred to herein is at the Date of Policy vested in:


Swift Current Land & Cattle LLC, an Arizona Limited Liability Company

2. The estate or interest in the land described herein and which is covered by this policy is:

A FEE

3. The land referred to in this policy is situated in the County of Coconino, State of ARIZONA, and is more particularly described in Exhibit "A" attached hereto and made a part hereof.

Countersigned:

BY: 

Authorized Officer or Agent

EXHIBIT "A"

All of Section 9, Township 14 North, Range 12 East of the Gila and Salt River Base and Meridian, Coconino County, Arizona.

Including all oil, gas and other minerals in, on or under or which may be produced from said land.

SCHEDULE B
EXCEPTIONS FROM COVERAGE

This policy does not insure against loss or damage, nor against costs, attorneys fees or expenses, any or all of which arise by reason of the following:

PART I

1. Taxes or assessments which are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the public records.

Proceedings by a public agency which may result in taxes or assessments, or notices or such proceedings, whether or not shown by the records of such agency or by the public records.
2. Any facts, rights, interests or claims which are not shown by the public records but which could be ascertained by an inspection of the land or which may be asserted by persons in possession thereof.
3. Easements, liens or encumbrances, or claims thereof, which are not shown by the public records.
4. Discrepancies, conflicts in boundary lines, shortages in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.
5. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, and agreements, covenants, conditions or rights incident thereto, whether or not the matters excepted under (a), (b) or (c) are shown by the public records.

SCHEDULE B
EXCEPTIONS FROM COVERAGE

PART II

THIS POLICY DOES NOT INSURE AGAINST LOSS OR DAMAGE BY REASON OF THE FOLLOWING:

1. OBLIGATIONS imposed upon said land by its inclusion within any district formed pursuant to Title 48, Arizona Revised Statutes, excluding however Municipal or County Improvement Districts.
2. THE RIGHTS of the United States of America the State of Arizona and/or other parties to any portion of the within property lying within the bed, or former bed, of any water course, as that term is defined under Arizona law.
3. ANY TERMS, CONDITIONS, RULES OR RESTRICTIONS imposed, upon the right of access to the land described in Schedule A, by the United States of America acting by and through the Forest Service, Department of Agriculture.
4. TAXES AND ASSESSMENTS collectible by the County Treasurer, a lien payable but not yet due for the following year:

Second half of 2005

OWNER'S POLICY OF TITLE INSURANCE

American Land Title Association (10/17/92)

Issued by

**Transnation Title
Insurance Company**

Transnation Title Insurance Company
is a member of the LandAmerica family of title insurance
underwriters.



LandAmerica Financial Group, Inc.
101 Gateway Centre Parkway
Richmond, Virginia 23235-5153
www.landam.com

THANK YOU.

Title insurance provides for the protection of your real estate investment. We suggest you keep this policy in a safe place where it can be readily available for future reference.

If you have questions about title insurance or the coverage provided by this policy, contact the office that issued this policy, or you may call or write:

Transnation Title Insurance Company
Consumer Affairs
P.O. Box 27567
Richmond, Virginia 23261-7567
telephone, toll free: 800 446-7086
web: www.landam.com

We thank you for choosing to do business with Transnation Title Insurance Company, and look forward to meeting your future title insurance needs.

Transnation Title Insurance Company
is a member of the LandAmerica family of title insurance
underwriters.



APPENDIX D

**ERS
Environmental
LienSearch
Report**

Environmental Lien Research

REPORT RESULTS



Report Results for:

Sarah Richman
WestLand Resources
4001 E Paradise Falls Drive
Tucson, AZ 86712
2104668143 EL
April 29, 2016

Subject Site:

Clients Project #: **807.126**
Address: **East Clear Creek**
City, State Zip: **Coconino County, AZ**

ERS Order #:

2104668143 EL

Prepared For:

Name: Sarah Richman
Company: WestLand Resources
Address: 4001 E Paradise Falls Drive
City, State Zip: Tucson, AZ 86712

Date:

April 29, 2016



The NETR Environmental Lien Search Report

**EAST CLEAR CREEK
COCONINO COUNTY, ARIZONA**

Friday, April 29, 2016

Project Number: L16-01206

2055 East Rio Salado Parkway
Tempe, Arizona 85281

Telephone: 480-967-6752
Fax: 480-966-9422

ENVIRONMENTAL LIEN REPORT

The NETR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied property information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' office, registries of deed, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved and description); and
- provide a copy of the deed or cite documents reviewed;

Thank you for your business

Please contact NETR at 480-967-6752
with any questions or comments

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ENVIRONMENTAL LIEN REPORT

The NETR Environmental Lien Search Report is intended to assist in the search for environmental liens filed in land title records.

TARGET PROPERTY INFORMATION

ADDRESS

East Clear Creek
Coconino County, Arizona

RESEARCH SOURCE

Source: Coconino County Assessor
Coconino County Recorder

DEED INFORMATION

Type of Instrument: Warranty Deed

Grantor: The Trust for Public Land, a nonprofit California public benefit corporation

Grantee: Swift Current Land & Cattle, LLC, an Arizona limited liability company

Deed Dated: 10/12/2005
Deed Recorded: 10/14/2005
Instrument: 3349408

LEGAL DESCRIPTION

All that certain piece or parcel of land situated and lying in Section 9, Township 14 North, Range 12 East of the Gila and Salt River Base and Meridian, Coconino County, State of Arizona

Assessor's Parcel Number(s): 403-13-006-E

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

RECORDING REQUESTED BY
AND WHEN RECORDED MAIL TO:



3349408

Page: 1 of 2
DF

SWIFT CURRENT LAND & CATTLE LLC
Attn: F.D. Hegner, Chief Operating Officer
2525 E. Arizona Biltmore Circle, Suite C-135
Phoenix, Arizona 85016

WARRANTY DEED

THIS WARRANTY DEED is made this 12th day of October, 2005, between **THE TRUST FOR PUBLIC LAND**, a nonprofit California public benefit corporation, authorized to do business in the State of Arizona as TPL-Arizona Inc., hereinafter called **GRANTOR**, and **SWIFT CURRENT LAND & CATTLE, LLC**, an Arizona limited liability company, whose address is 2525 E. Arizona Biltmore Circle, Suite C-135, Phoenix, Arizona 85016, hereinafter called **GRANTEE**.

WITNESSETH: That the said Grantor, for and in consideration of the sum of **TEN DOLLARS and other good and valuable consideration**, to the Grantor in hand paid by the Grantee, the receipt of which is hereby acknowledged, does by these presents convey and warrant the title against all persons whomsoever unto the said Grantee, and its assigns, forever, all that certain lot, piece, or parcel of land situate, lying, and being in the County of Coconino, State of Arizona, as more particularly described as follows, to-wit:

All of Section 9, Township 14 North, Range 12 East of the Gila and Salt River
Base and Meridian, Coconino County, Arizona.

Including all oil, gas and other minerals in, on or under or which may be produced
from said land.

Containing 640 acres, more or less.

together with any improvements and fixtures thereon, and any and all rights and appurtenances pertaining to the property, including any development rights, easements appurtenant, and any right, title and interest of Seller in and to timber, minerals, mineral rights and royalty interests, water rights, adjacent streets, alleys, and rights of way related to the Property.

SUBJECT TO:

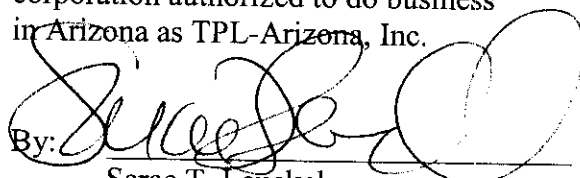
1. OBLIGATIONS imposed upon said land by its inclusion within any district formed pursuant to Title 48, Arizona Revised Statutes, excluding however Municipal or County Improvement Districts.
2. TAXES AND ASSESSMENTS collectible by the County Treasurer for the year 2005 and thereafter, a lien not yet due and payable.

7

3. THE RIGHTS of the United States of America the State of Arizona and/or other parties to any portion of the within property lying within the bed, or former bed, of any water course, as that term is defined under Arizona law.
4. ANY TERMS, CONDITIONS, RULES OR RESTRICTIONS imposed, upon the right of access to the land described in Schedule A, by the United States of America acting by and through the Forest Service, Department of Agriculture.
5. EASEMENTS, liens or encumbrances, or claims thereof, which are not shown by the public records.
6. DISCREPANCIES, conflicts in boundary lines, shortage in area, encroachments, or any other facts which a correct survey would disclose, and which are not shown by the public records.

IN WITNESS WHEREOF, the said Grantor has hereunto set its hand and seal the day and year first above written.

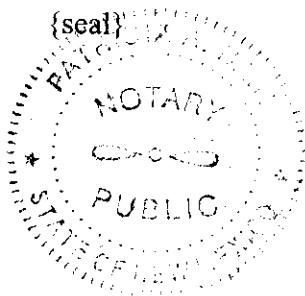
THE TRUST FOR PUBLIC LAND,
a California nonprofit public benefit
corporation authorized to do business
in Arizona as TPL-Arizona, Inc.

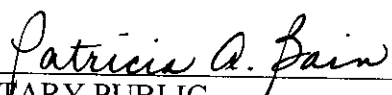
By: 
Sarae T. Leuckel
Regional Counsel

ACKNOWLEDGMENT

State of New Mexico }
County of Santa Fe }

The foregoing instrument was acknowledged before me this October 12, 2005 (date) by Sarae T. Leuckel as Regional Counsel of The Trust for Public Land, a nonprofit California public benefit corporation, on behalf of the corporation.




NOTARY PUBLIC
Print Name: Patricia A. Bain
My Commission Expires: 10-30-05



3349408
Page: 2 of 2
DF

APPENDIX E

ERS RecCheck Area Report Results



RecCheck

Area

Report Results

The Standard for ASTM/AAI Radius Searches

(One Mile Environmental Records Search, Exceeds ASTM 1527/1528 and EPA AII Appropriate Inquiry)

REPORT RESULTS



Site Location:

East Clear Creek

Coconino County, AZ 86336

(N 34-37-0, W 111-4-53) NAD83

TABLE OF CONTENTS

EXECUTIVE SUMMARY	<u>1</u>
SUMMARY OF OCCURRENCES	<u>3</u>
POTENTIAL AREAS OF CONCERN/CONTAMINATION SUMMARY	<u>4</u>
DATABASE OCCURRENCE SUMMARY	<u>4</u>
SITE LOCATION TOPOGRAPHIC MAP	<u>9</u>
SITE LOCATION MAP	<u>10</u>
1-MILE RADIUS STREET MAP W/OCCURRENCES (MAP1)	<u>11</u>
GRID LAYOUT MAP KEY	<u>12</u>
GRID MAP 101	<u>13</u>
GRID MAP 102	<u>14</u>
GRID MAP 103	<u>15</u>
GRID MAP 104	<u>16</u>
GRID MAP 105	<u>17</u>
GRID MAP 106	<u>18</u>
GRID MAP 107	<u>19</u>
GRID MAP 108	<u>20</u>
GRID MAP 109	<u>21</u>
GRID MAP 110	<u>22</u>
GRID MAP 111	<u>23</u>
GRID MAP 112	<u>24</u>
GRID MAP 113	<u>25</u>
GRID MAP 114	<u>26</u>
GRID MAP 115	<u>27</u>
GRID MAP 116	<u>28</u>
1-MILE TOPOGRAPHIC MAP W/OCCURRENCES (MAP3)	<u>29</u>
AGENCY DIFFERENCES IN MAPPED LOCATIONS (MAP4)	<u>30</u>
SUMMARY OF AGENCY DIFFERENCES	<u>31</u>
MAPPED AIR PERMITS WITH POTENTIAL DISPERSION (MAP5)	<u>32</u>

LISTED OCCURRENCE DETAILS	33
RECORDS SOURCES SEARCHED	34
UN-MAPPABLE OCCURRENCES	78
DISCLAIMER, LIMITS AND LIABILITIES	79

EXECUTIVE SUMMARY

INFORMATION ON THE REQUESTED LOCATION

Site Address:	East Clear Creek Coconino County, AZ 86336
Client Project Name/Number:	East Clear Creek 807.126
Coordinates:	N 34-37-0, W 111-4-53 (NAD 83) 34.6166814285366, -111.081326294338
Date of Report	April 15, 2016
ERS Project Number:	2104666843
Subject Site Listed on the following lists:	Not Listed
Subject Site Listed as Map ID#:	N/A
USGS 7.5 Minute Quad Map:	Leonard Canyon
Subject Site Located within a Potential Area of Concern:	No
Township, Section and Range:	Township: 14N Range: 12E Section: 009
Site Elevation: (feet above or below (-) mean sea level)	Approximately 6248 ft near the center of the area.
Flood Zone: (FEMA Q3 Digital Data)	Panel: 04005C8175G, Effective Date: 9/3/2010 Zone X - Area of minimal flood hazard, usually depicted on FIRMs as above the 500-year flood level.
Fire Insurance Map Coverage:	No
Radon Information:	EPA Radon Zone: 2 (Predicted avg for county: 2 to 4 pCi/L)
Search Radius Expansion Size: (In Miles)	0
Soil Type: (USDA Soil Survey Geographic Database) (SSURGO)	Limestone and sandstone rock land Map Unit Type: Consociation

Zip Codes Searched for "Un-Mappable" Sites:	Not Researched
Occurrence Count:	1

SUMMARY OF OCCURRENCES

MAP ID	ID/SITE NAME	ADDRESS	DATABASE	STATUS	DISTANCE (MILES)	ELEV DIFF (FEET)
1 Maps: 1 , 3	3-10 U. S. Bur. Reclam.	Not Reported by Agency	OGW-AZ	Stratigraphic test	0.03 W	N/A

POTENTIAL AREAS OF CONCERN/CONTAMINATION SUMMARY

DATABASE SEARCHED	SUBJECT SITE WITHIN POTENTIAL AREA OF CONCERN	AREAS FOUND WITHIN 1-MILE RADIUS
Brownfields-AZ	No	0
Close-WQARF-AZ	No	0
DOD-AZ	No	0
EpaNPL-AZ	No	0
WQARF-AZ	No	0
NPL-R9-US	No	0

DATABASE OCCURRENCE SUMMARY

HIGH RISK* OCCURRENCES IDENTIFIED IN REQUESTED SEARCH RADIUS		
DATABASE SEARCHED	DISTANCE SEARCHED (MILES)	HIGH RISK OCCURRENCES FOUND
ASPL-AZ	0.5	0
BF-Open-AZ	0.5	0
CERCLIS-US	0.5	0
LUST-Open-AZ	0.5	0
NPL-US	1	0
Proposed-NPL-US	1	0
RemOther-Open-AZ	0.5	0
SAA-Agreements-US	1	0
Tribal-LUST-Open-Reg9	0.5	0
VCP-Open-AZ	0.5	0

* For the purposes of this report, "high risk" occurrences are those that have known contamination and have not received a "case closed" or "no further action" status from the agency that maintains the records.

ASTM/AAI STANDARD RECORD SOURCES SUMMARY

STANDARD ENVIRONMENTAL RECORD SOURCES	ASTM MIN. SEARCH DIST. / ERS SEARCH DIST. (MILES)	ERS DATABASE NAME	TOTAL LISTINGS	MAP ID #'S
Federal NPL site list	1.0 / 1.0	NPL-US	0	None Listed
		Proposed-NPL-US	0	None Listed
Federal Delisted NPL site list	0.5 / 1.0	Delisted-NPL-US	0	None Listed
Federal CERCLIS list	0.5 / 0.5	CERCLIS-US	0	None Listed
Federal CERCLIS NFRAP site list	0.5 / 0.5	CERCLIS-Archived-US	0	None Listed
Federal RCRA CORRACTS facilities list	1.0 / 1.0	RCRA-COR-US	0	None Listed
Federal RCRA non-CORRACTS TSD facilities list	0.5 / 0.5	RCRA-TSD-US	0	None Listed
Federal RCRA generators list	Property and	RCRA-CESQG-US	0	None Listed

	adjoining properties / 0.25			
		RCRA-LQG-US	0	None Listed
		RCRA-NON-US	0	None Listed
		RCRA-SQG-US	0	None Listed
Federal Inst/Eng control registries	Property Only / 0.25	Controls-RCRA-US	0	None Listed
		Controls-US	0	None Listed
		Hist-US-EC	0	None Listed
		Hist-US-IC	0	None Listed
		LIENS-US	0	None Listed
		ERNS-US	0	None Listed
Federal ERNS list	Property Only / 0.0625			
State and Tribal-Equivalent NPL	1.0 / 1.0	Not Reported by Agency	0	None Listed
State and Tribal-Equivalent CERCLIS	0.5 / 0.5	ASPL-AZ	0	None Listed
		SS-AZ	0	None Listed
State and Tribal landfill and/or solid waste disposal sites	0.5 / 0.5	ALF-AZ	0	None Listed
		CLF-AZ	0	None Listed
		Debris-US	0	None Listed
		Hist-Dumps-US	0	None Listed
		Transfer-AZ	0	None Listed
		Tribal-ODI-US	0	None Listed
		LUST-Closed-AZ	0	None Listed
		LUST-Open-AZ	0	None Listed
State and Tribal Leaking Storage Tank Lists	0.5 / 0.5	Tribal-LUST-Closed-Reg9	0	None Listed
		Tribal-LUST-Open-Reg9	0	None Listed
		AST2-AZ	0	None Listed
		AST-AZ	0	None Listed
		FEMA-UST-US	0	None Listed
State and Tribal Registered Storage Tank Lists	Property and adjoining properties / 0.25	Tribal-UST-Reg9	0	None Listed
		UST-AZ	0	None Listed
		Controls-AZ	0	None Listed
		Tribal-VCP-US	0	None Listed
State and Tribal Inst/Eng Control Registries	Property Only / 0.5			
State and Tribal Voluntary Cleanup Sites	0.5 / 0.5	VCP-Closed-AZ	0	None Listed
		VCP-Open-AZ	0	None Listed
		BF-Closed-AZ	0	None Listed
State and Tribal Brownfield Sites	0.5 / 0.5	BF-Open-AZ	0	None Listed
		BF-US	0	None Listed
		Tribal-BF-US	0	None Listed

FEDERAL ASTM/AAI DATABASES							
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
BF-US	0.5	0	0	0	0	-	0
CERCLIS-Archived-US	0.5	0	0	0	0	-	0
CERCLIS-US	0.5	0	0	0	0	-	0
Controls-RCRA-US	0.5	0	0	0	0	-	0
Controls-US	0.5	0	0	0	0	-	0
Debris-US	0.5	0	0	0	0	-	0
Delisted-NPL-US	1	0	0	0	0	0	0
ERNS-US	0.0625	0	0	-	-	-	0
FEMA-UST-US	0.25	0	0	0	-	-	0
FTTS-ENF-US	0.0625	0	0	-	-	-	0
Hist-Dumps-US	0.5	0	0	0	0	-	0
Hist-US-EC	0.5	0	0	0	0	-	0
Hist-US-IC	0.5	0	0	0	0	-	0
HMIS-US	0.0625	0	0	-	-	-	0
LIENS-US	0.0625	0	0	-	-	-	0
NPL-US	1	0	0	0	0	0	0
PADS-US	0.0625	0	0	-	-	-	0
PCB-US	0.25	0	0	0	-	-	0
Proposed-NPL-US	1	0	0	0	0	0	0
RCRA-CESQG-US	0.25	0	0	0	-	-	0
RCRA-COR-US	1	0	0	0	0	0	0
RCRA-LQG-US	0.25	0	0	0	-	-	0
RCRA-NON-US	0.25	0	0	0	-	-	0
RCRA-SQG-US	0.25	0	0	0	-	-	0
RCRA-TSD-US	0.5	0	0	0	0	-	0
SAA-Agreements-US	1	0	0	0	0	0	0
Tribal-BF-US	0.5	0	0	0	0	-	0
Tribal-LUST-Closed-Reg9	0.5	0	0	0	0	-	0
Tribal-LUST-Open-Reg9	0.5	0	0	0	0	-	0
Tribal-ODI-US	0.5	0	0	0	0	-	0
Tribal-UST-Reg9	0.25	0	0	0	-	-	0
Tribal-VCP-US	0.5	0	0	0	0	-	0

STATE ASTM/AAI DATABASES							
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
ALF-AZ	0.5	0	0	0	0	-	0
ASPL-AZ	0.5	0	0	0	0	-	0
AST2-AZ	0.25	0	0	0	-	-	0
AST-AZ	0.25	0	0	0	-	-	0
BF-Closed-AZ	0.5	0	0	0	0	-	0
BF-Open-AZ	0.5	0	0	0	0	-	0
CLF-AZ	0.5	0	0	0	0	-	0
Controls-AZ	0.5	0	0	0	0	-	0
Hist-SPILLS-AZ	0.0625	0	0	-	-	-	0
LUST-Closed-AZ	0.5	0	0	0	0	-	0
LUST-Open-AZ	0.5	0	0	0	0	-	0
Manifest2-NY	0.0625	0	0	-	-	-	0
Manifest2-RI	0.0625	0	0	-	-	-	0
Oil-Centers-AZ	0.5	0	0	0	0	-	0
RemOther-Closed-AZ	0.5	0	0	0	0	-	0
RemOther-Open-AZ	0.5	0	0	0	0	-	0

STATE ASTM/AAI DATABASES

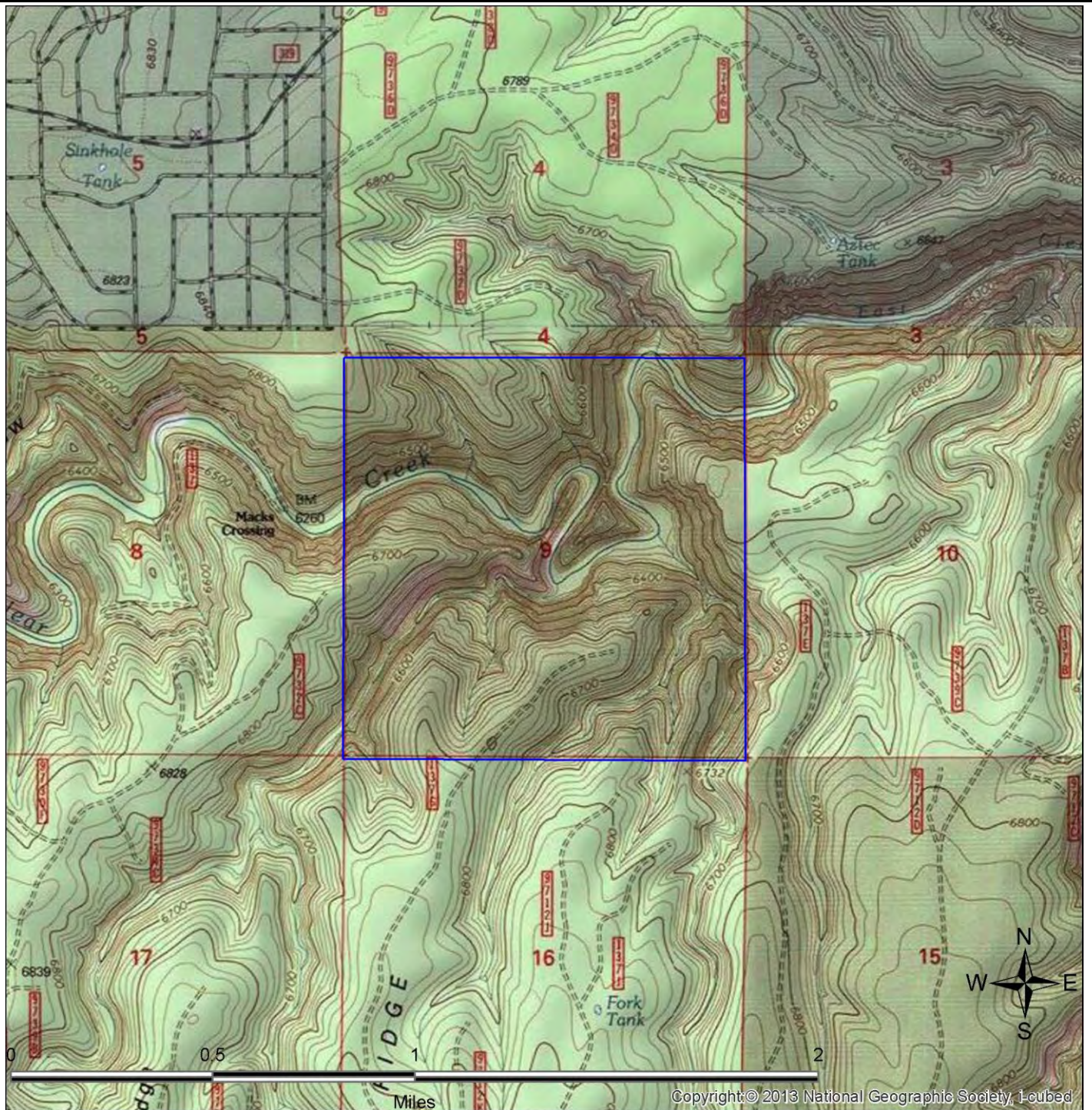
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
SS-AZ	0.5	0	0	0	0	-	0
Transfer-AZ	0.5	0	0	0	0	-	0
UST-AZ	0.25	0	0	0	-	-	0
VCP-Closed-AZ	0.5	0	0	0	0	-	0
VCP-Open-AZ	0.5	0	0	0	0	-	0

SUPPLEMENTAL DATABASES

DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Air-AZ	0.25	0	0	0	-	-	0
Allfac-AZ	0.25	0	0	0	-	-	0
BioFuel-US	0.25	0	0	0	-	-	0
CDL-AZ	0.0625	0	0	-	-	-	0
CDL-US	0.0625	0	0	-	-	-	0
Coal-Ash-AZ	0.5	0	0	0	0	-	0
Coal-Ash-Dams-US	0.5	0	0	0	0	-	0
Dams-AZ	0.25	0	0	0	-	-	0
DryCleaners-AZ	0.25	0	0	0	-	-	0
DryWell-AZ	0.25	0	0	0	-	-	0
EGRID-US	0.5	0	0	0	0	-	0
EPA-Watch-List-US	0.25	0	0	0	-	-	0
FA-HW-US	0.0625	0	0	-	-	-	0
FA-UST-AZ	0.0625	0	0	-	-	-	0
FRS-US	0.0625	0	0	-	-	-	0
FTTS-INSP-US	0.0625	0	0	-	-	-	0
FUDS-US	1	0	0	0	0	0	0
Hist-AFS2-US	0.25	0	0	0	-	-	0
Hist-AFS-US	0.25	0	0	0	-	-	0
Hist-AZ	0.0625	0	0	-	-	-	0
Hist-FIFRA-US	0.25	0	0	0	-	-	0
HIST-MLTS-US	0.25	0	0	0	-	-	0
Hist-US	0.0625	0	0	-	-	-	0
ICIS-Air-US	0.0625	0	0	-	-	-	0
ICIS-FEC-US	0.0625	0	0	-	-	-	0
ICIS-NPDES-US	0.0625	0	0	-	-	-	0
Lead-Smelter-2-US	0.25	0	0	0	-	-	0
Lead-US	0.25	0	0	0	-	-	0
Mines-AZ	0.0625	0	0	-	-	-	0
MINES-US	0.0625	0	0	-	-	-	0
MLTS-US	0.0625	0	0	-	-	-	0
MRDS-US	0.25	0	0	0	-	-	0
NPDES-AZ	0.0625	0	0	-	-	-	0
OGW-AZ	0.0625	0	1	-	-	-	1
PCS-US	0.25	0	0	0	-	-	0
RADINFO-US	0.0625	0	0	-	-	-	0
RFG-Lab-US	0.25	0	0	0	-	-	0
RMP-US	0.0625	0	0	-	-	-	0
ROD-US	0.5	0	0	0	0	-	0
SDWIS-US	0.25	0	0	0	-	-	0
SSTS-US	0.0625	0	0	-	-	-	0
SWT-AZ	0.25	0	0	0	-	-	0
Tribal-Air-US	0.25	0	0	0	-	-	0
TRIS2000-US	0.0625	0	0	-	-	-	0

SUPPLEMENTAL DATABASES							
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
TRIS2010-US	0.0625	0	0	-	-	-	0
TRIS80-US	0.0625	0	0	-	-	-	0
TRIS90-US	0.0625	0	0	-	-	-	0
TSCA-US	0.0625	0	0	-	-	-	0
UIC-AZ	0.0625	0	0	-	-	-	0
UMTRA-US	0.0625	0	0	-	-	-	0
USGS-Waterwells-US	0.0625	0	0	-	-	-	0
Vapor-Intrusions-US	0.5	0	0	0	0	-	0
Waste-tire-AZ	0.5	0	0	0	0	-	0
Wells-AZ	0.0625	0	0	-	-	-	0

PROPRIETARY HISTORIC DATABASES							
DATABASE SEARCHED	DISTANCE SEARCHED	SUBJECT SITE	0.125 MILES	0.25 MILES	0.5 MILES	1.0 MILES	TOTAL
Hist-Agriculture	0.0625	0	0	-	-	-	0
Hist-Auto Dealers	0.0625	0	0	-	-	-	0
Hist-Auto Repair	0.25	0	0	0	-	-	0
Hist-Chemical Manufacturing	0.0625	0	0	-	-	-	0
Hist-Cleaners	0.25	0	0	0	-	-	0
Hist-Machine Shop	0.0625	0	0	-	-	-	0
Hist-Manufacturing	0.0625	0	0	-	-	-	0
Hist-Metal Plating	0.0625	0	0	-	-	-	0
Hist-Mortuaries	0.0625	0	0	-	-	-	0
Hist-Paint-Stores	0.0625	0	0	-	-	-	0
Hist-Petroleum	0.0625	0	0	-	-	-	0
Hist-Printers	0.0625	0	0	-	-	-	0
Hist-RV-Dealers	0.0625	0	0	-	-	-	0
Hist-Salvage	0.0625	0	0	-	-	-	0
Hist-Service Stations	0.25	0	0	0	-	-	0
Hist-Transportation	0.0625	0	0	-	-	-	0
Hist-Trucking	0.0625	0	0	-	-	-	0
Hist-Vehicle-Parts	0.0625	0	0	-	-	-	0



SITE LOCATION TOPOGRAPHIC MAP

U.S. Geological Survey. Leonard Canyon Quadrangle, 7.5 Minute Series

WestLand Resources

East Clear Creek
Coconino County, AZ 86336

FIGURE: 1
JOB: 807.126
DATE: 4/15/2016



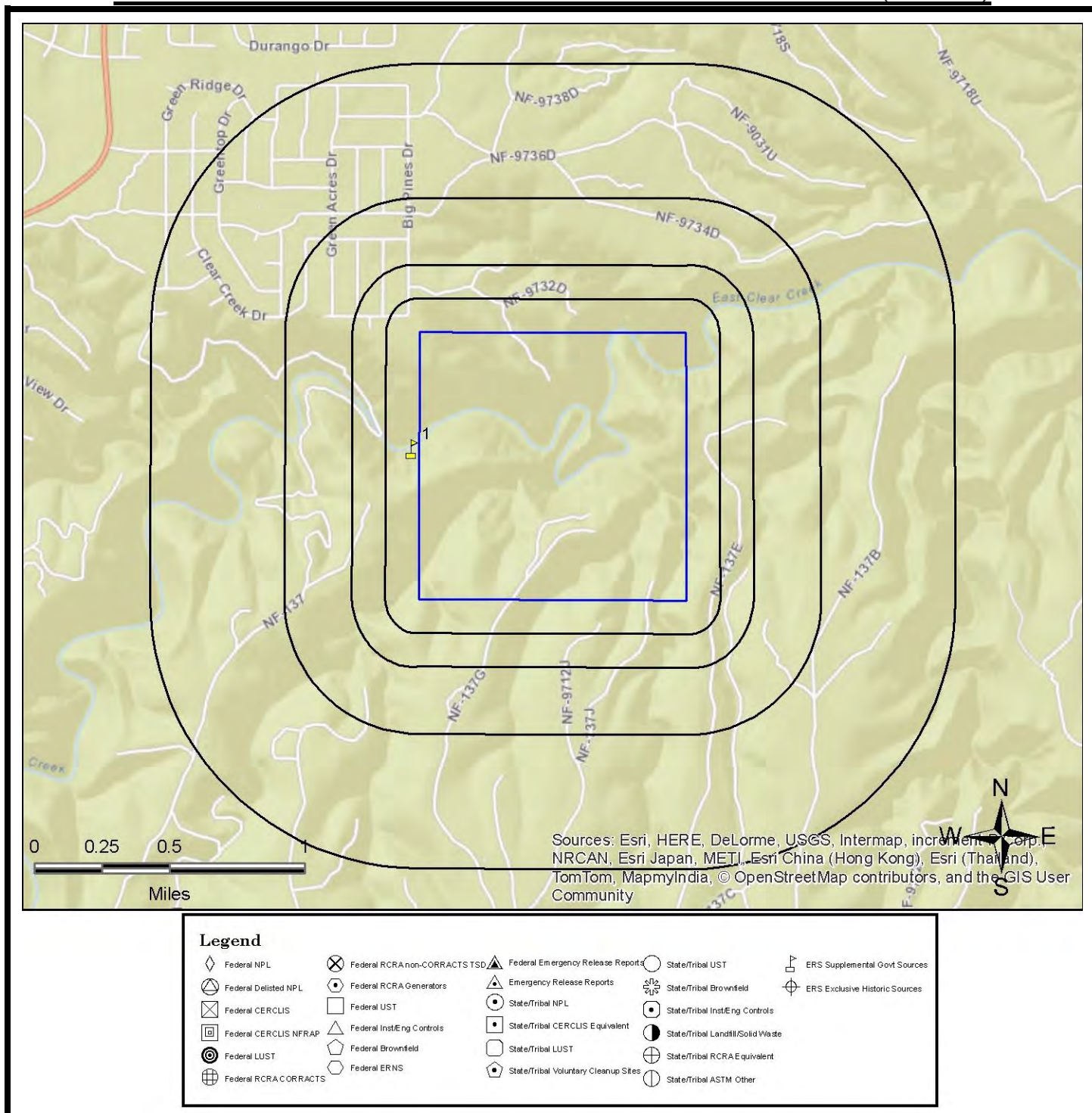
SITE LOCATION MAP

WestLand Resources

East Clear Creek
Coconino County, AZ 86336

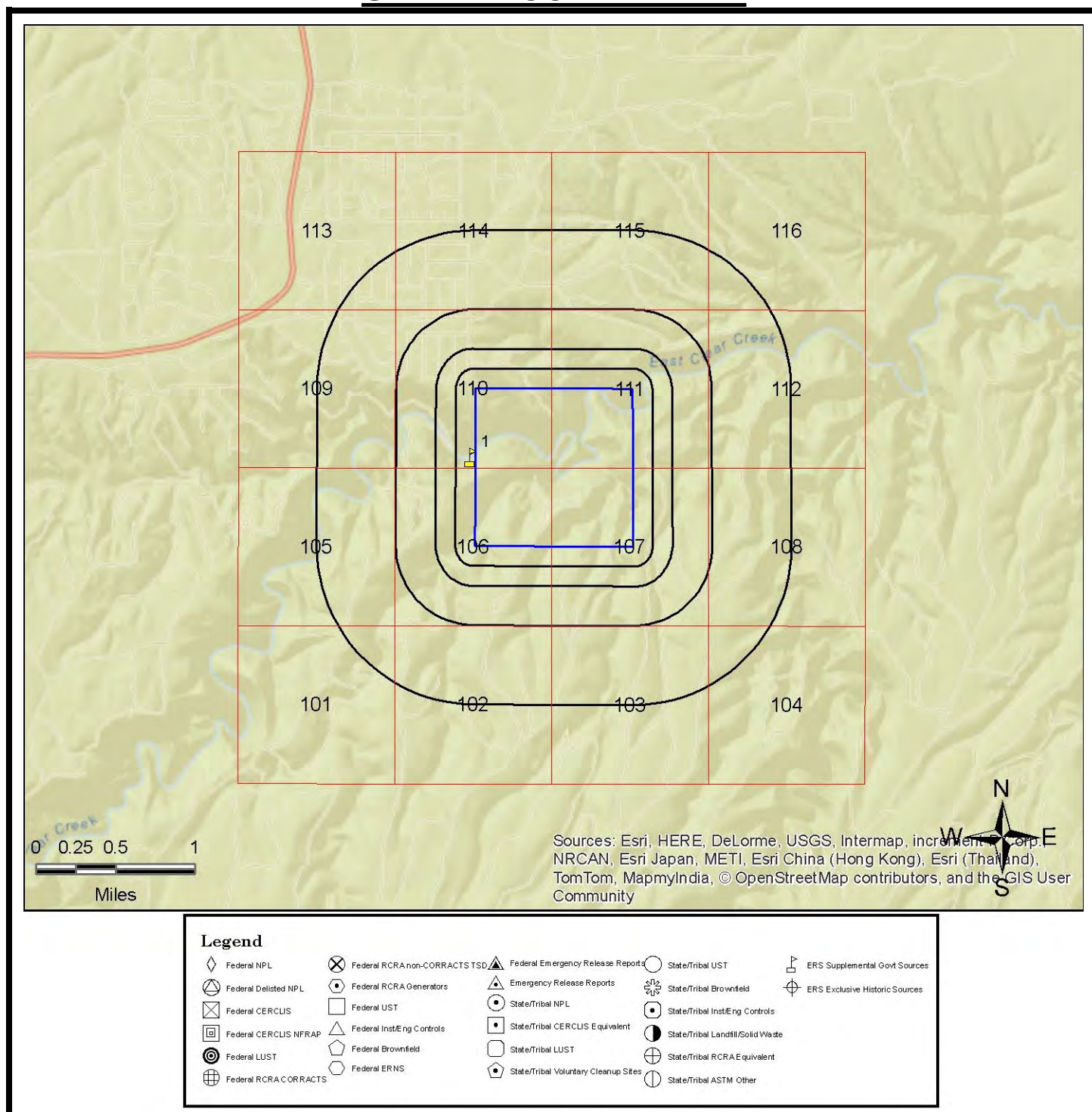
FIGURE: 2
JOB: 807.126
DATE: 4/15/2016

1-MILE RADIUS STREET MAP W/OCCURRENCES (MAP1)



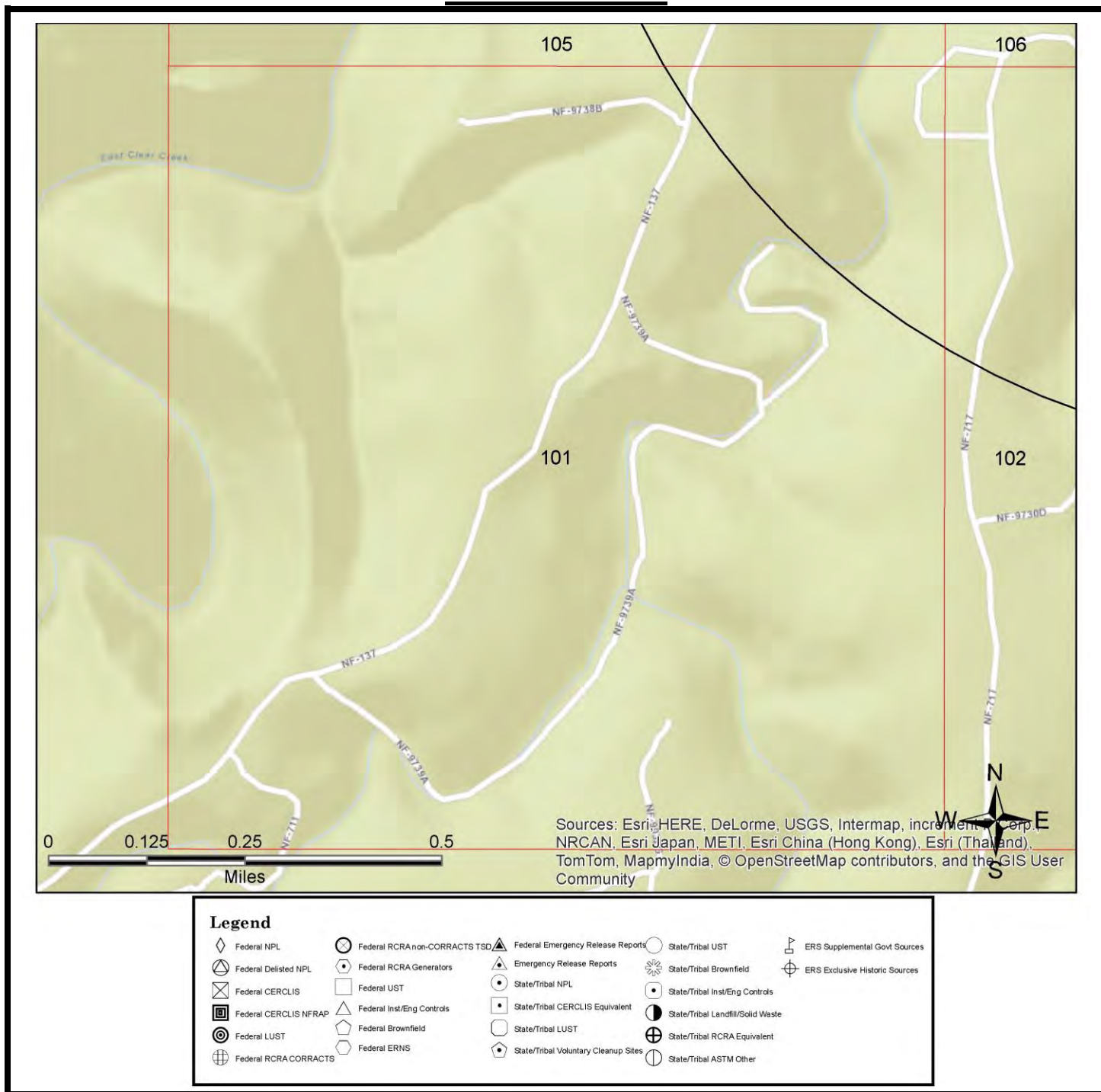
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

GRID LAYOUT MAP KEY



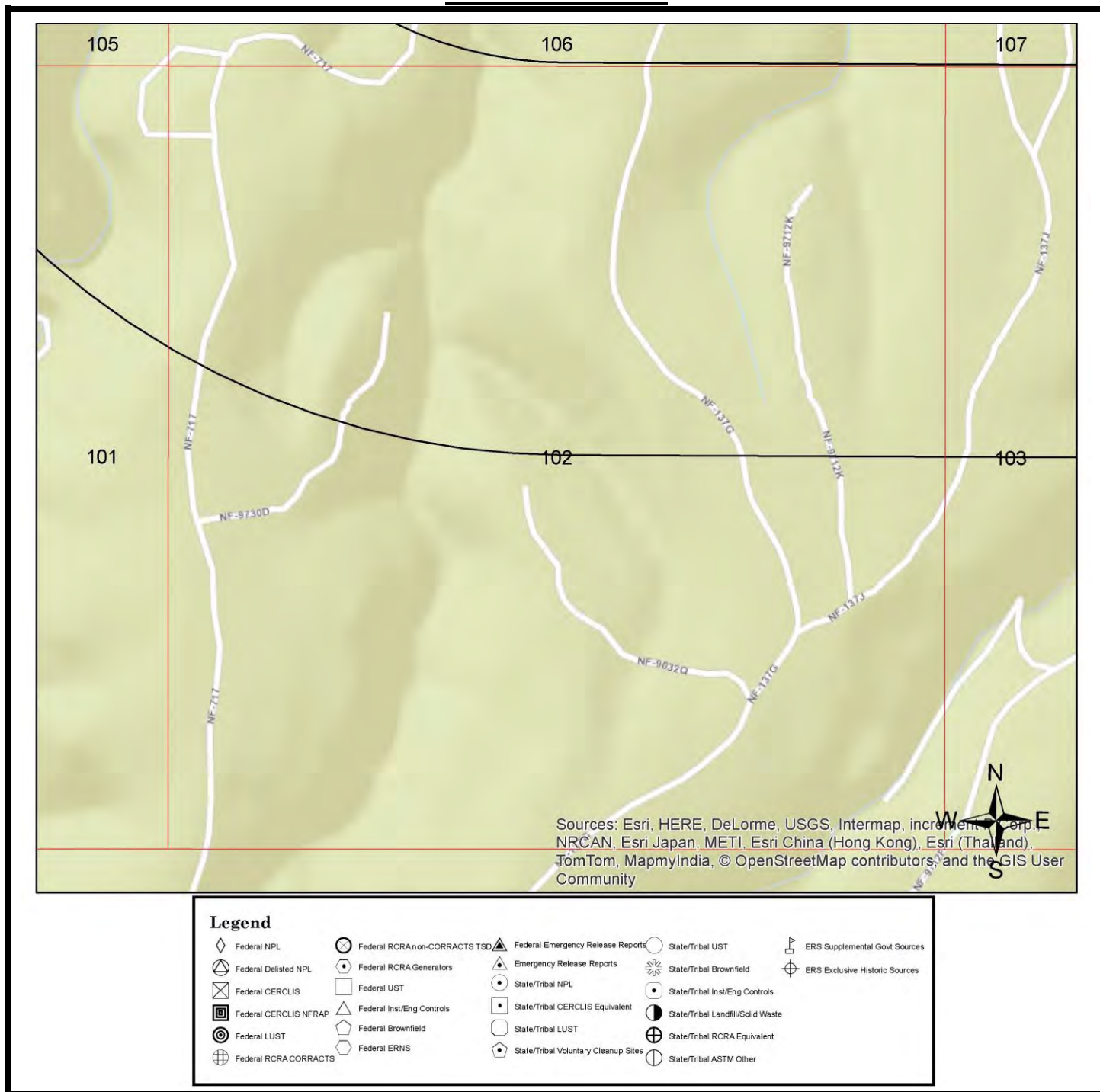
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

GRID MAP 101



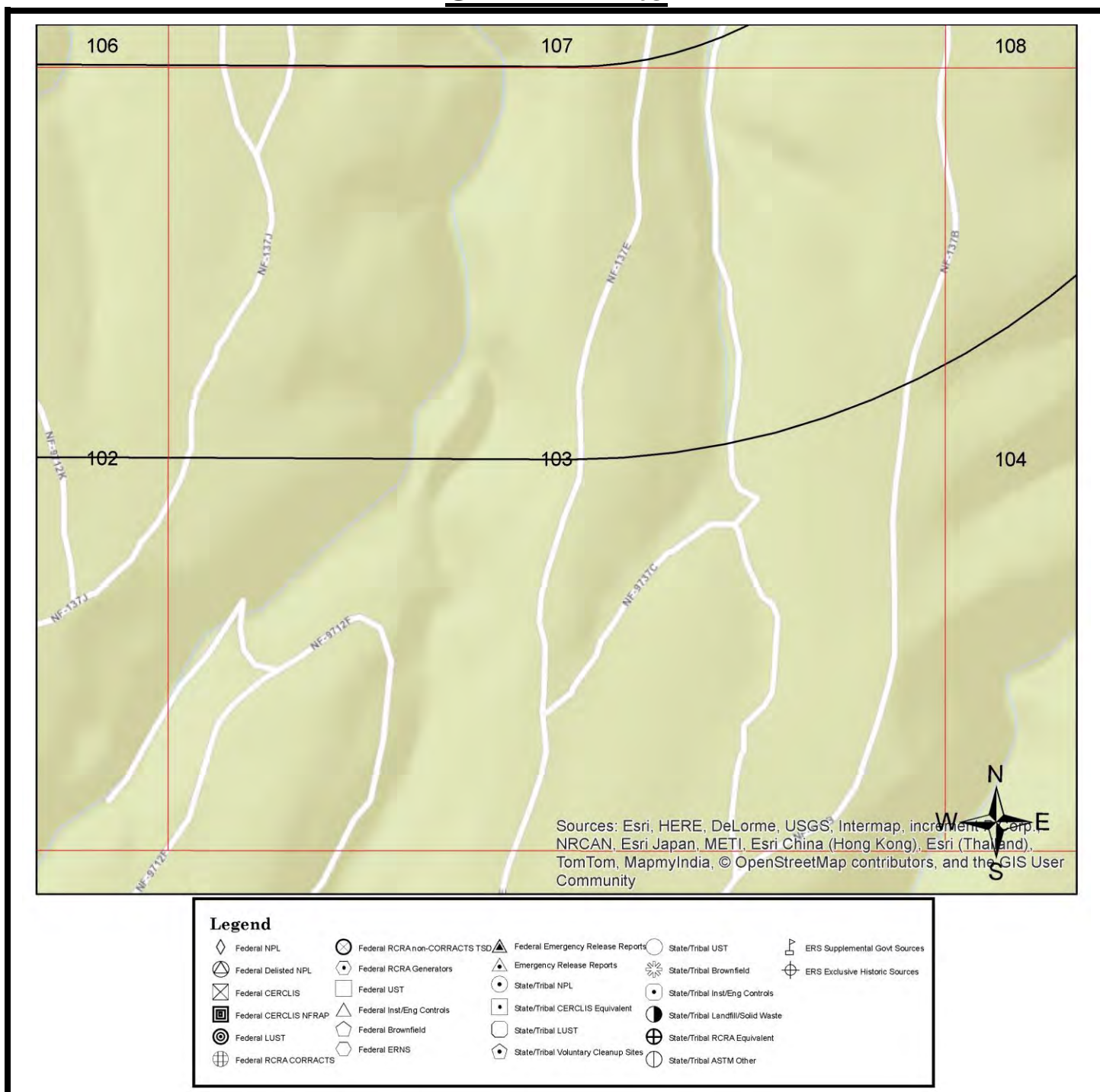
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

GRID MAP 102



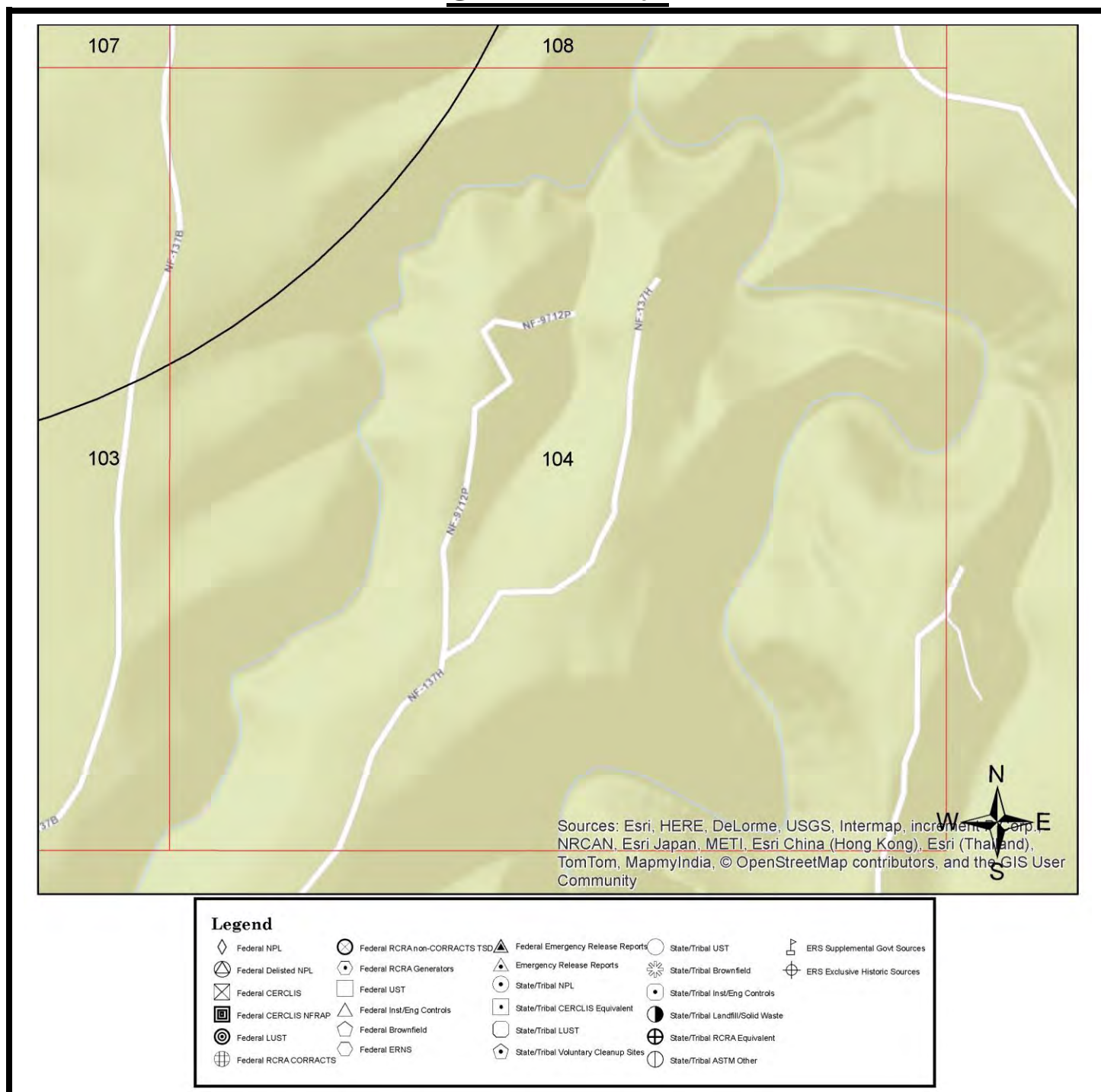
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

GRID MAP 103



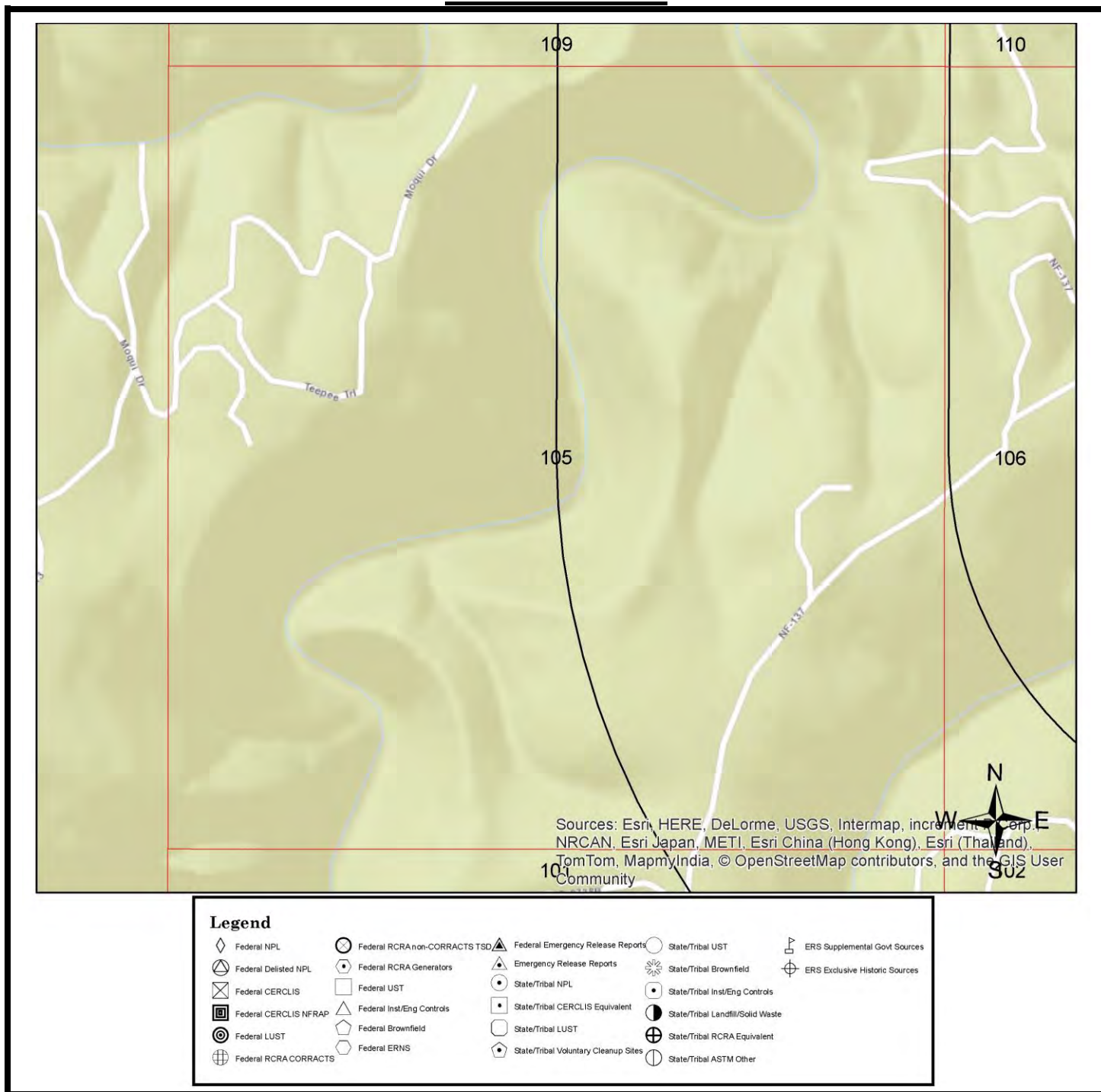
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

GRID MAP 104



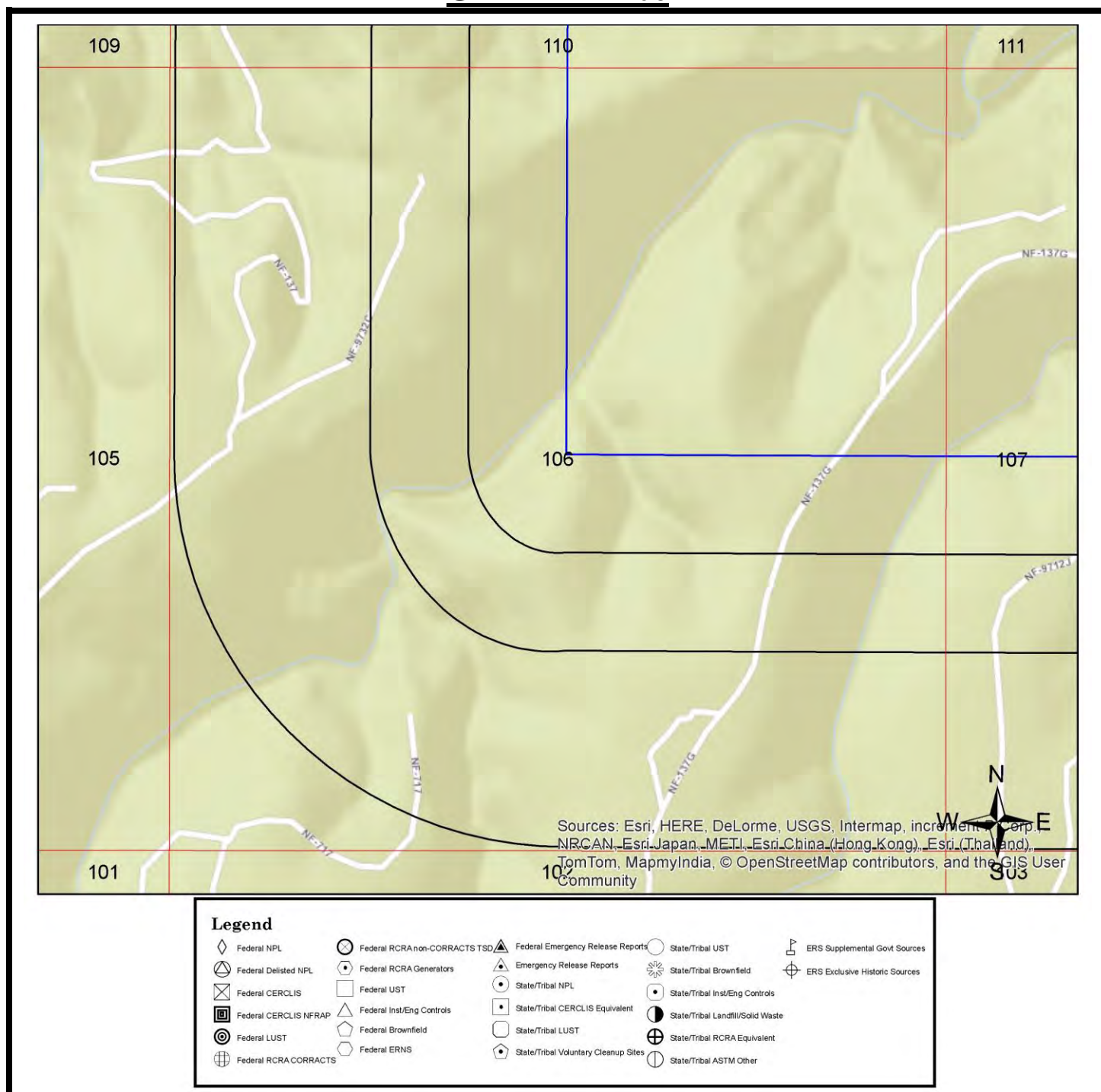
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

GRID MAP 105



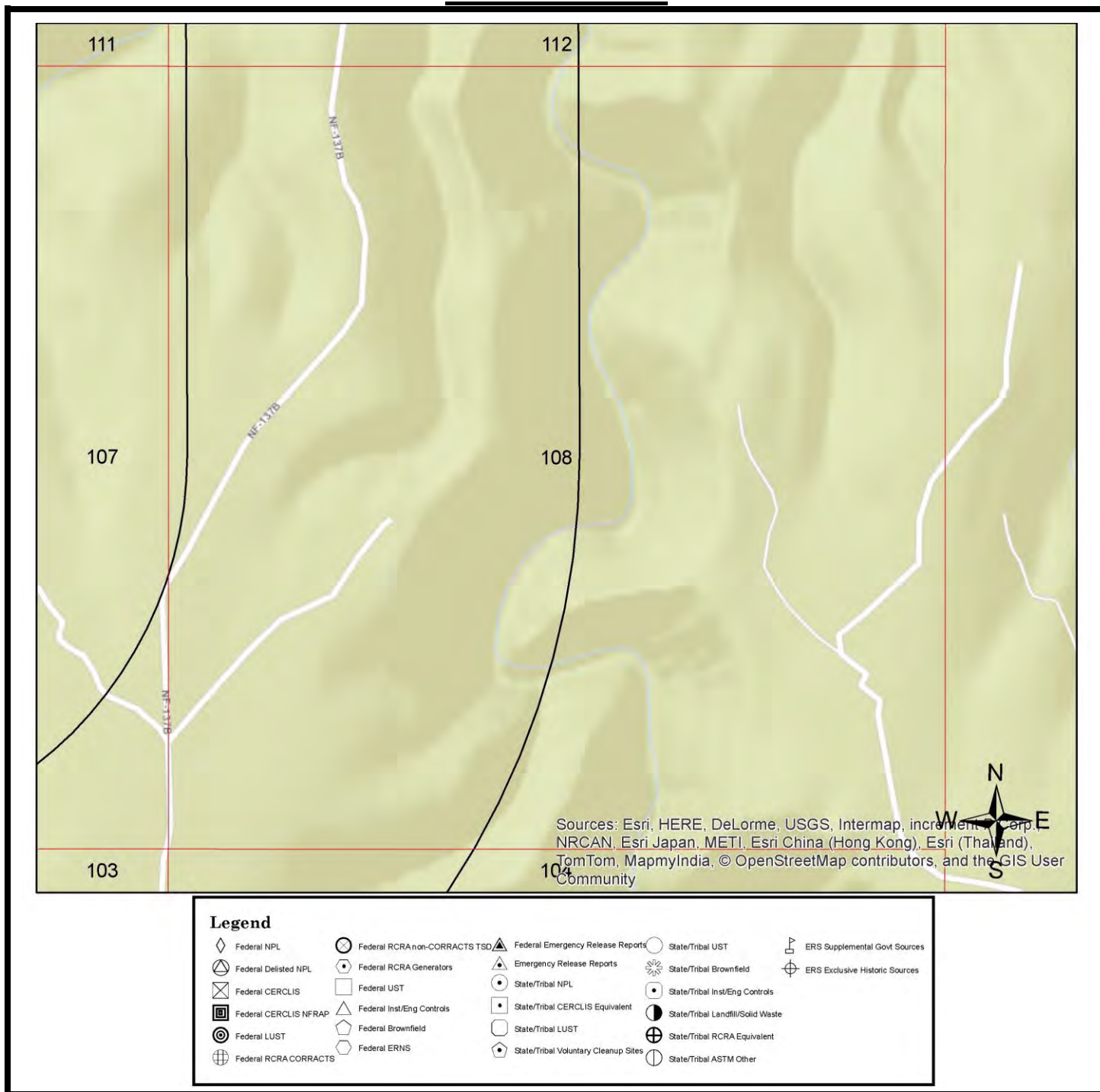
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

GRID MAP 106



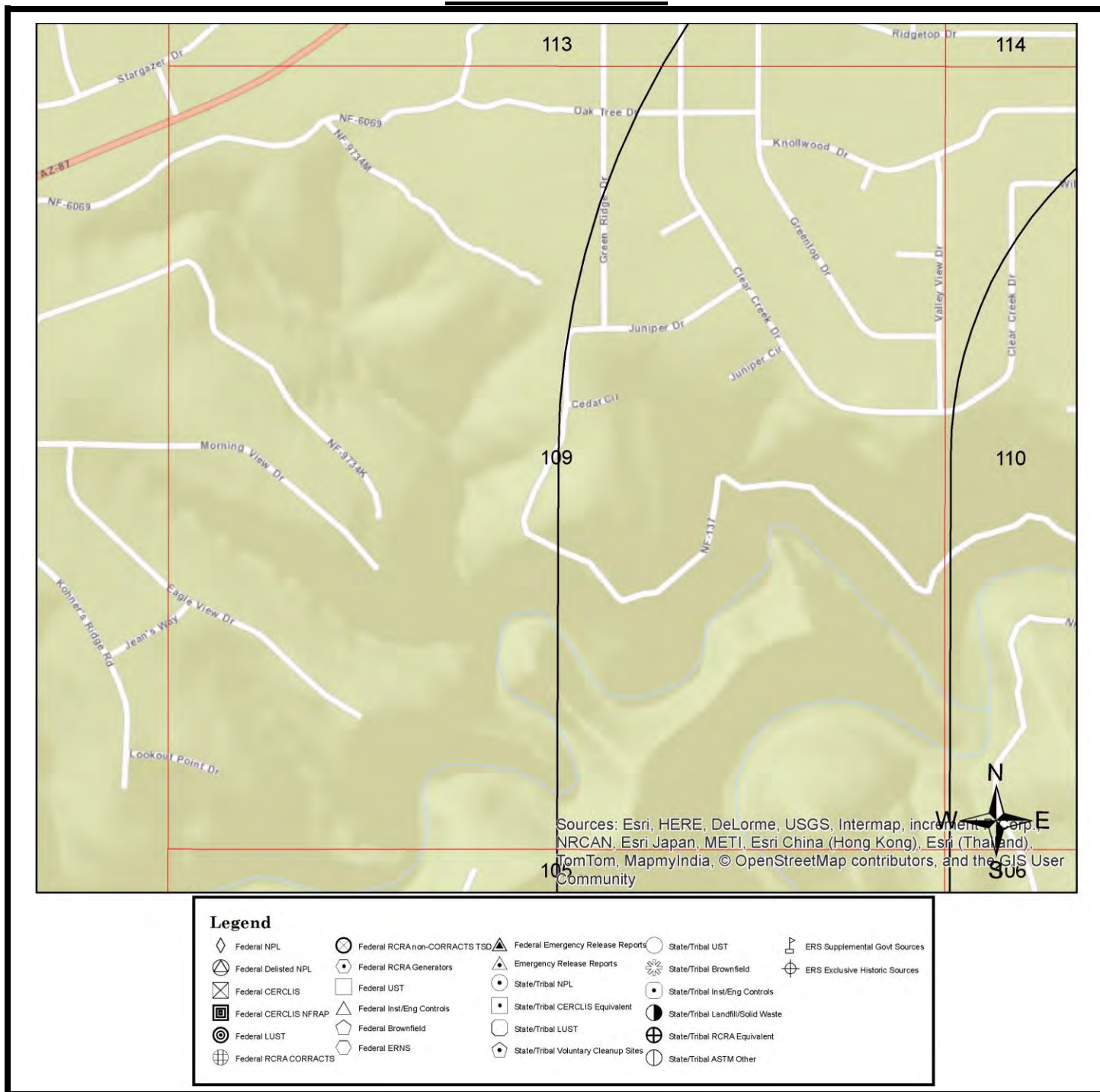
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

GRID MAP 108



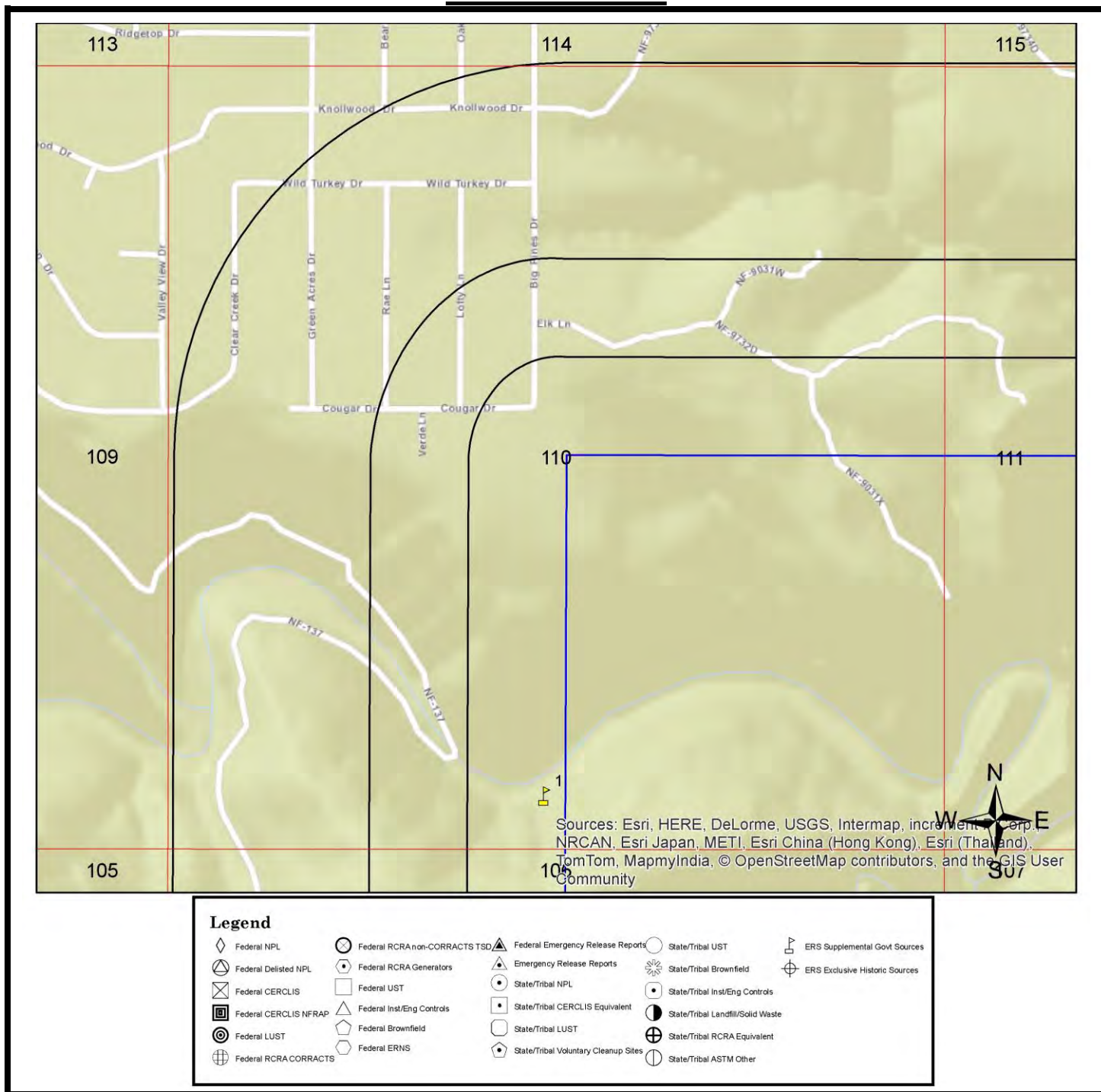
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

GRID MAP 109



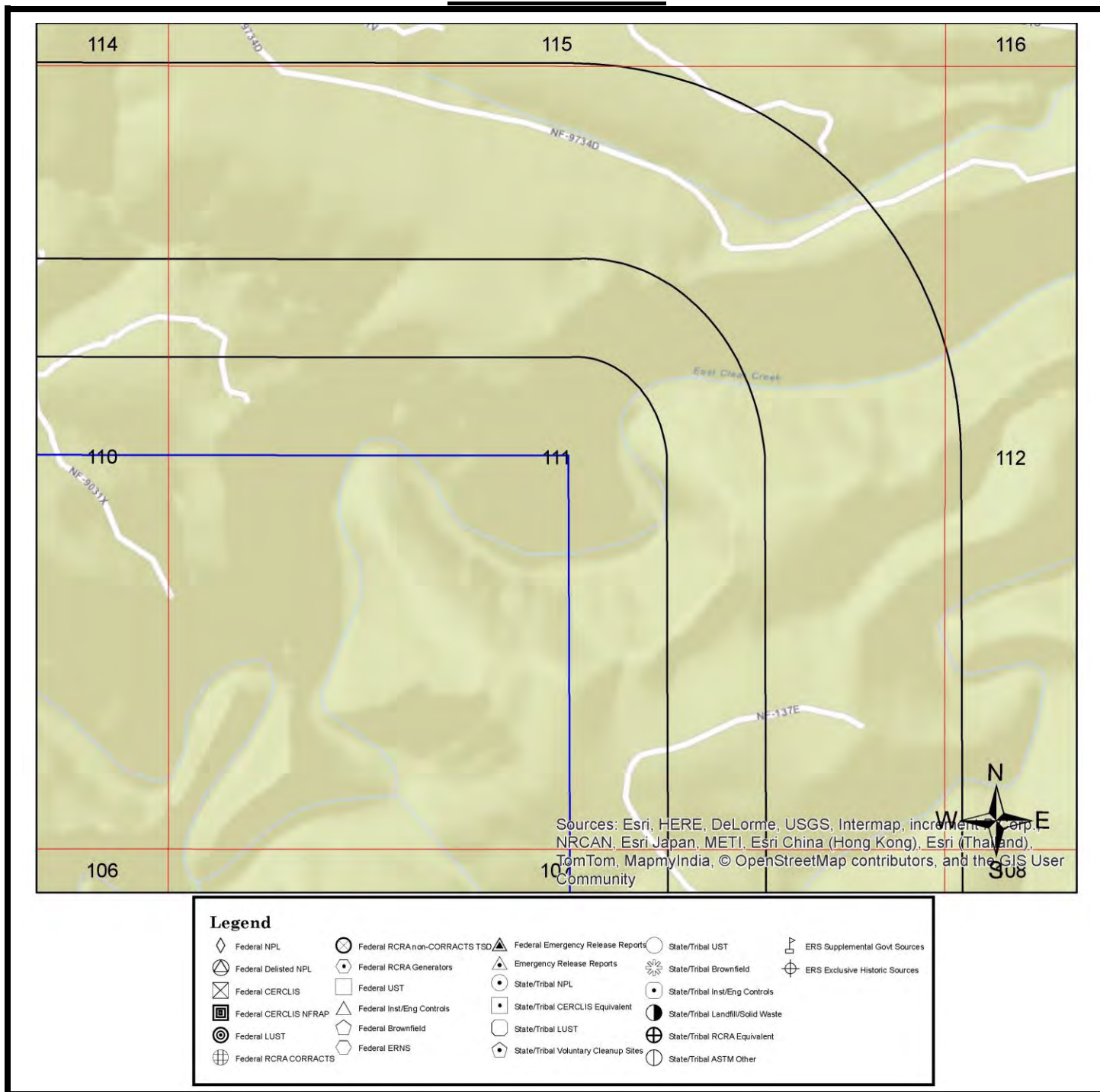
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

GRID MAP 110



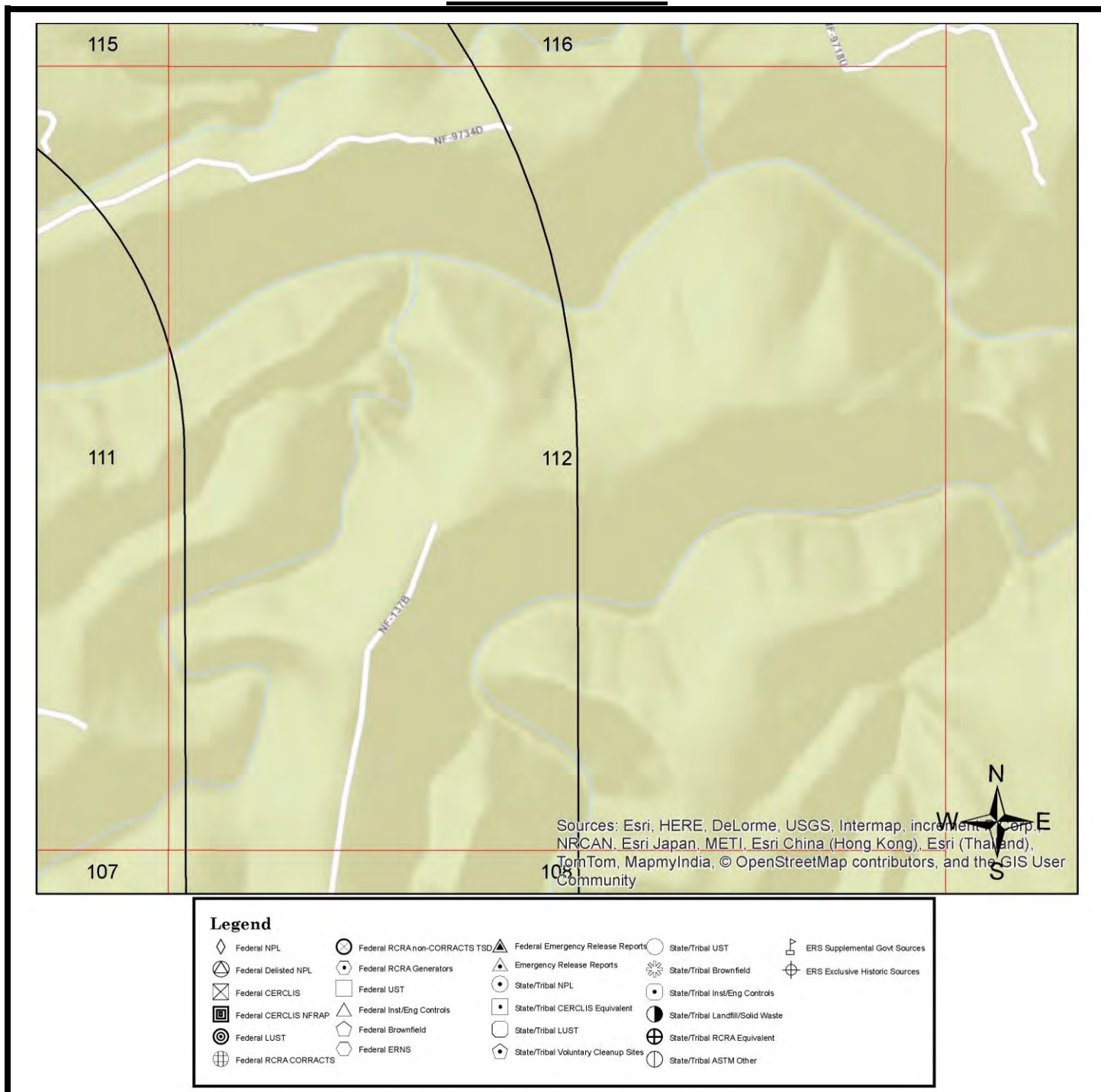
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

GRID MAP 111



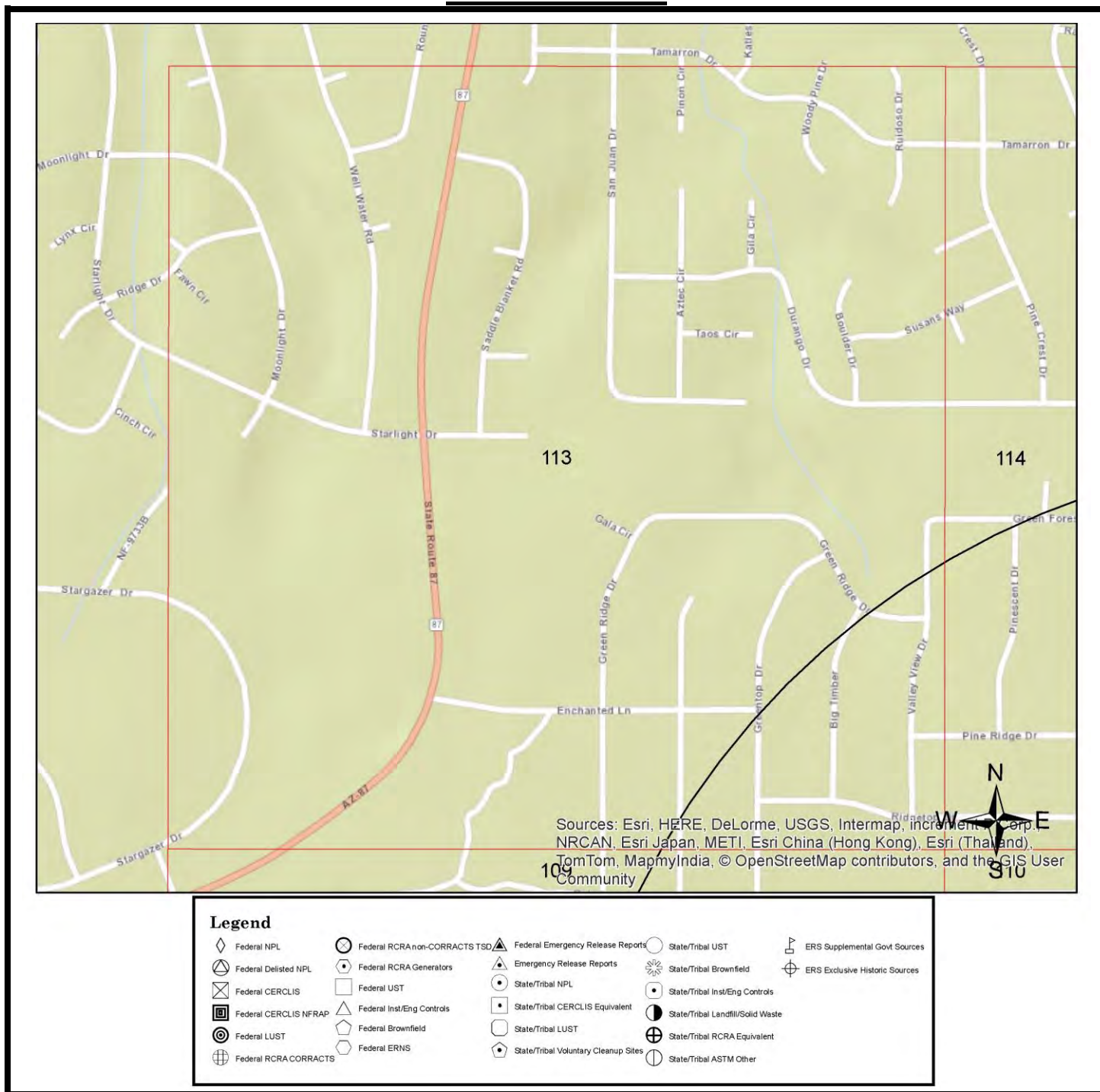
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

GRID MAP 112



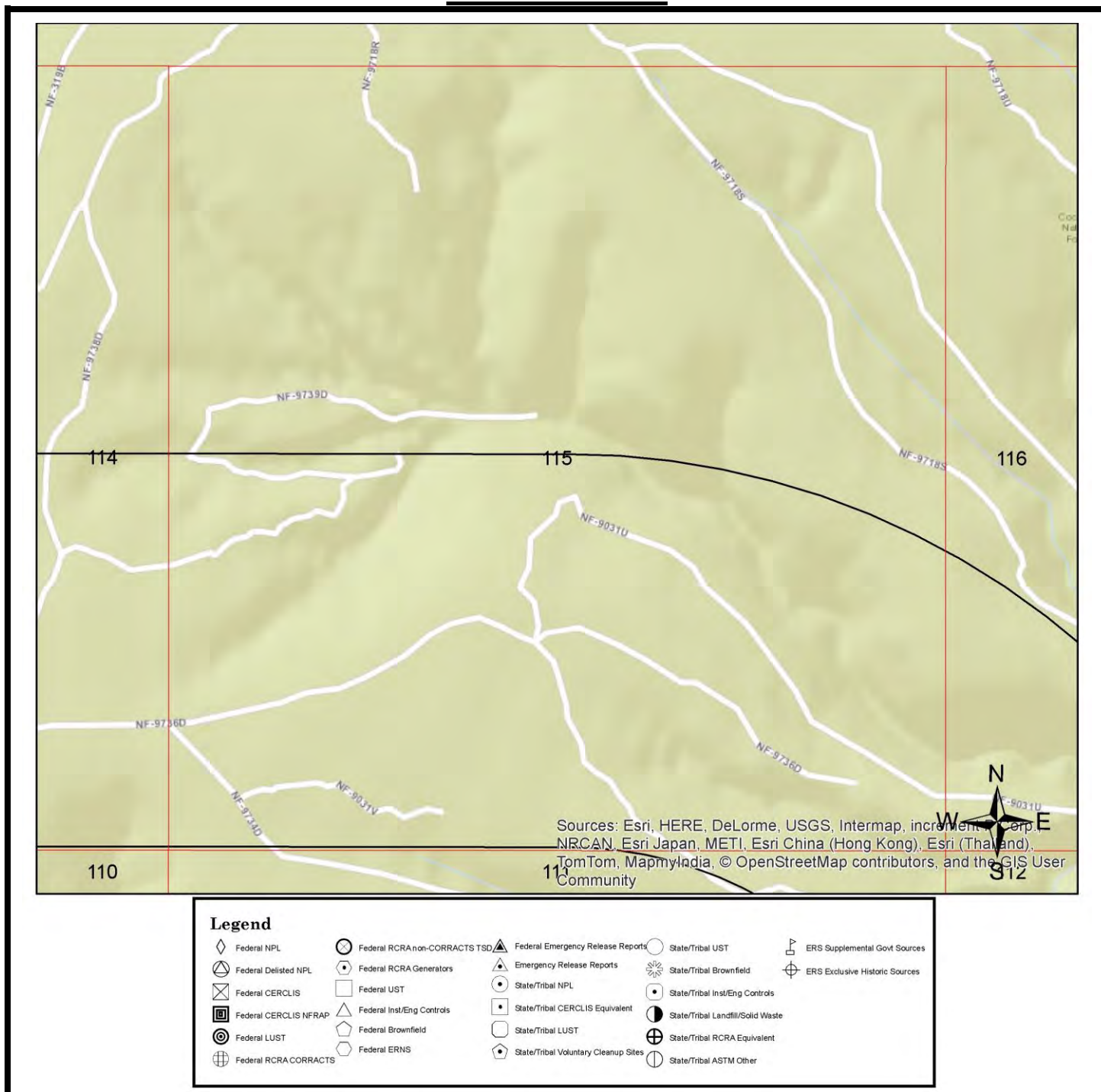
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

GRID MAP 113



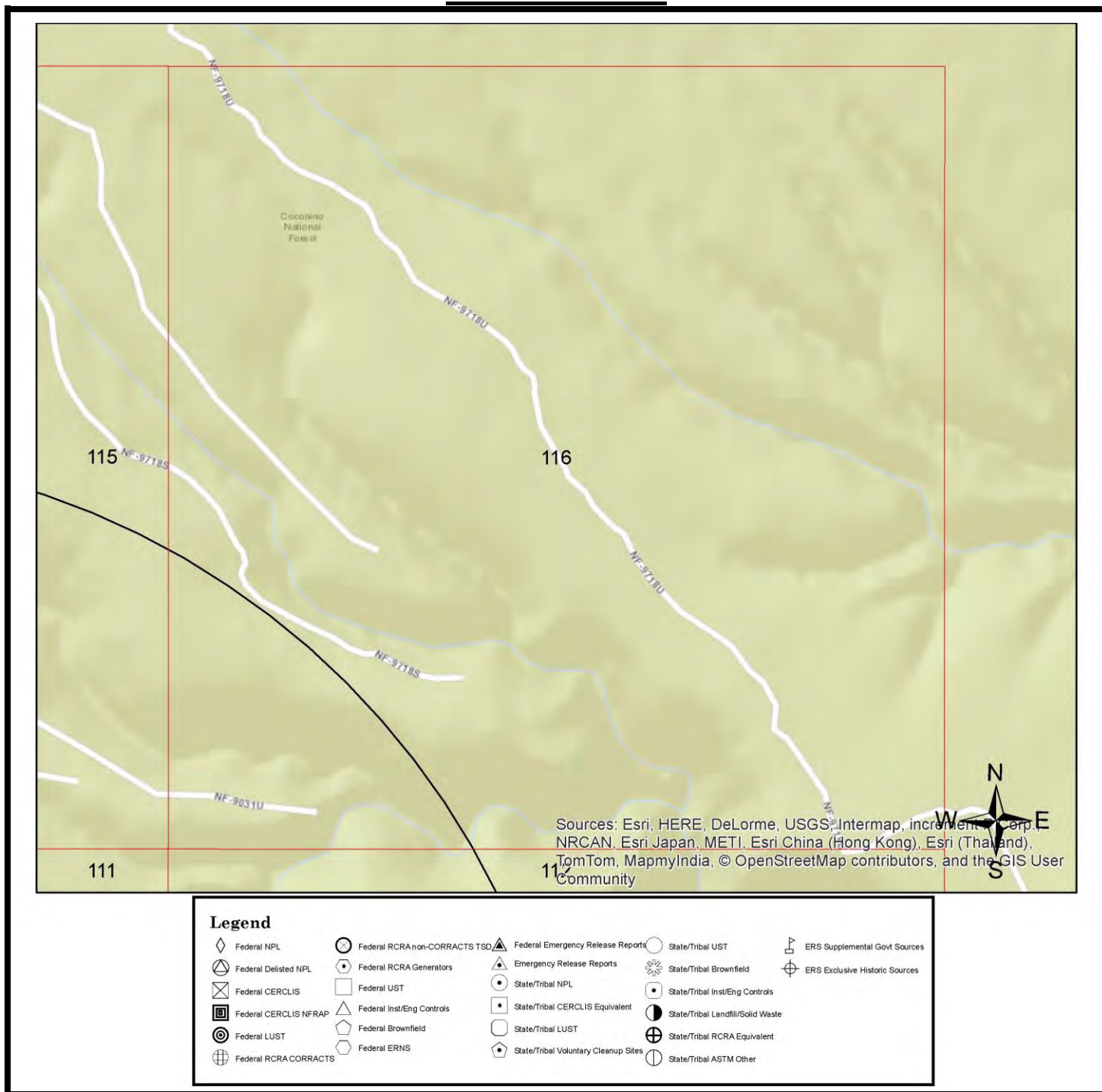
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

GRID MAP 115



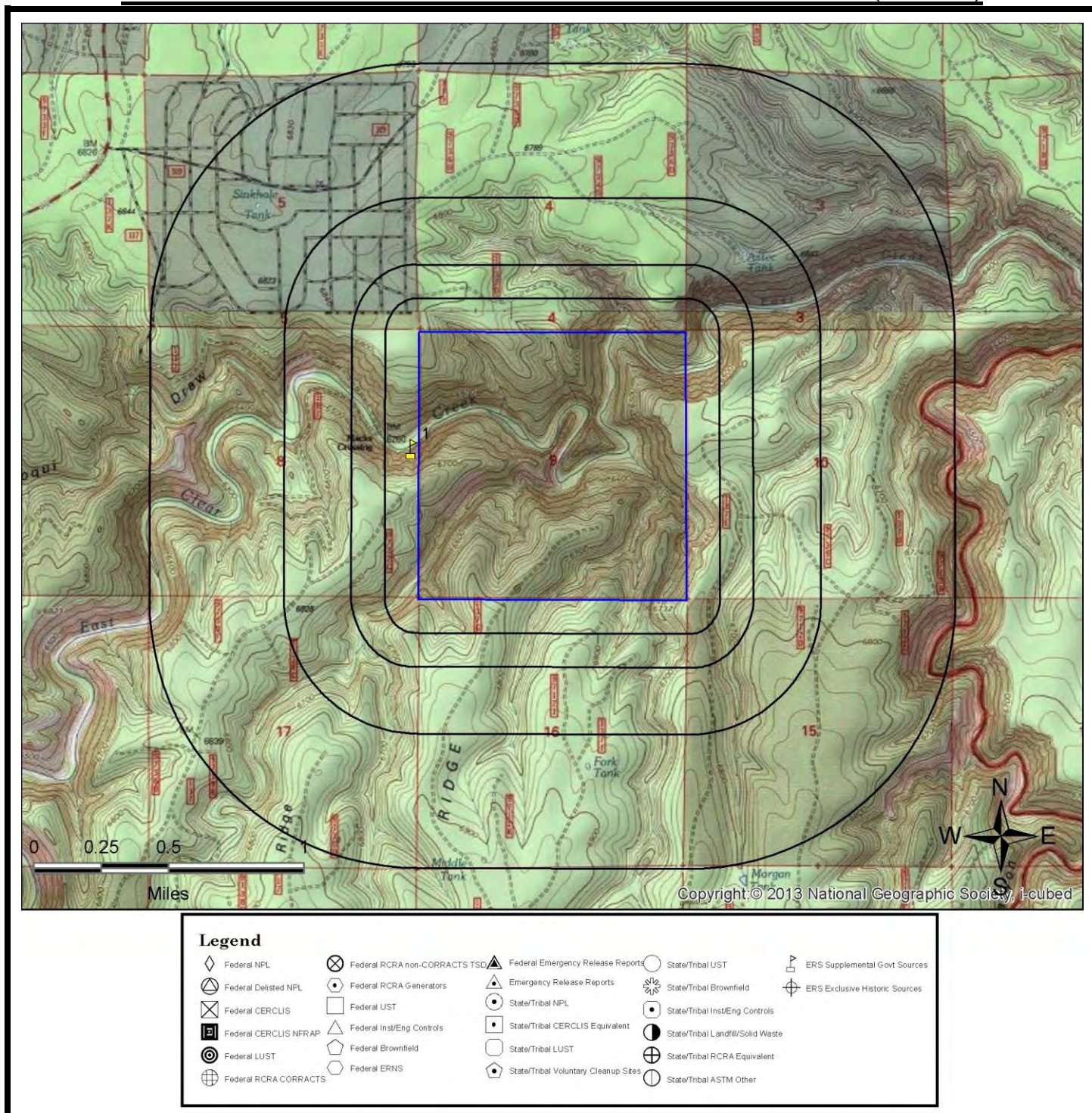
All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

GRID MAP 116



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

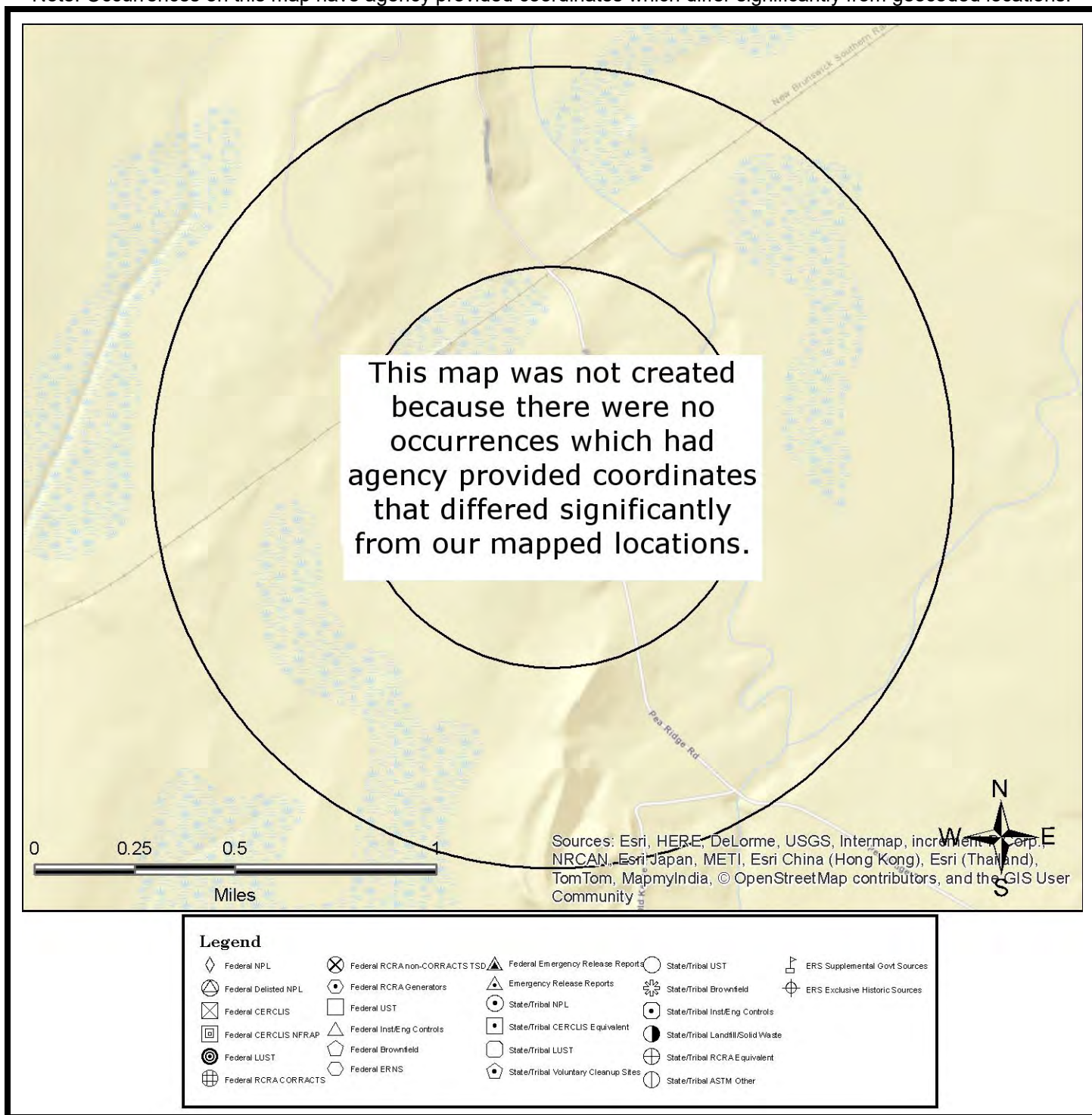
1-MILE TOPOGRAPHIC MAP W/OCCURRENCES (MAP3)



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. **Occurrences are shown in three colors** to give a visual indication of the potential risk of the listed occurrence based on the type of list and the current status of the occurrence. Occurrences shown in **RED** are locations with known contamination that have not received a "case closed" or "no further action" status. Occurrences shown in **YELLOW** have been listed by the respective agency, but do not always represent an environmental risk. The detailed status information and description of the listing should be reviewed for further information. Occurrences shown in **GREEN** are occurrences that have active permits or have had contamination in the past but have received a "case closed" or "no further action" status and therefore, do not likely present an environmental risk.

AGENCY DIFFERENCES IN MAPPED LOCATIONS (MAP4)

Note: Occurrences on this map have agency provided coordinates which differ significantly from geocoded locations.



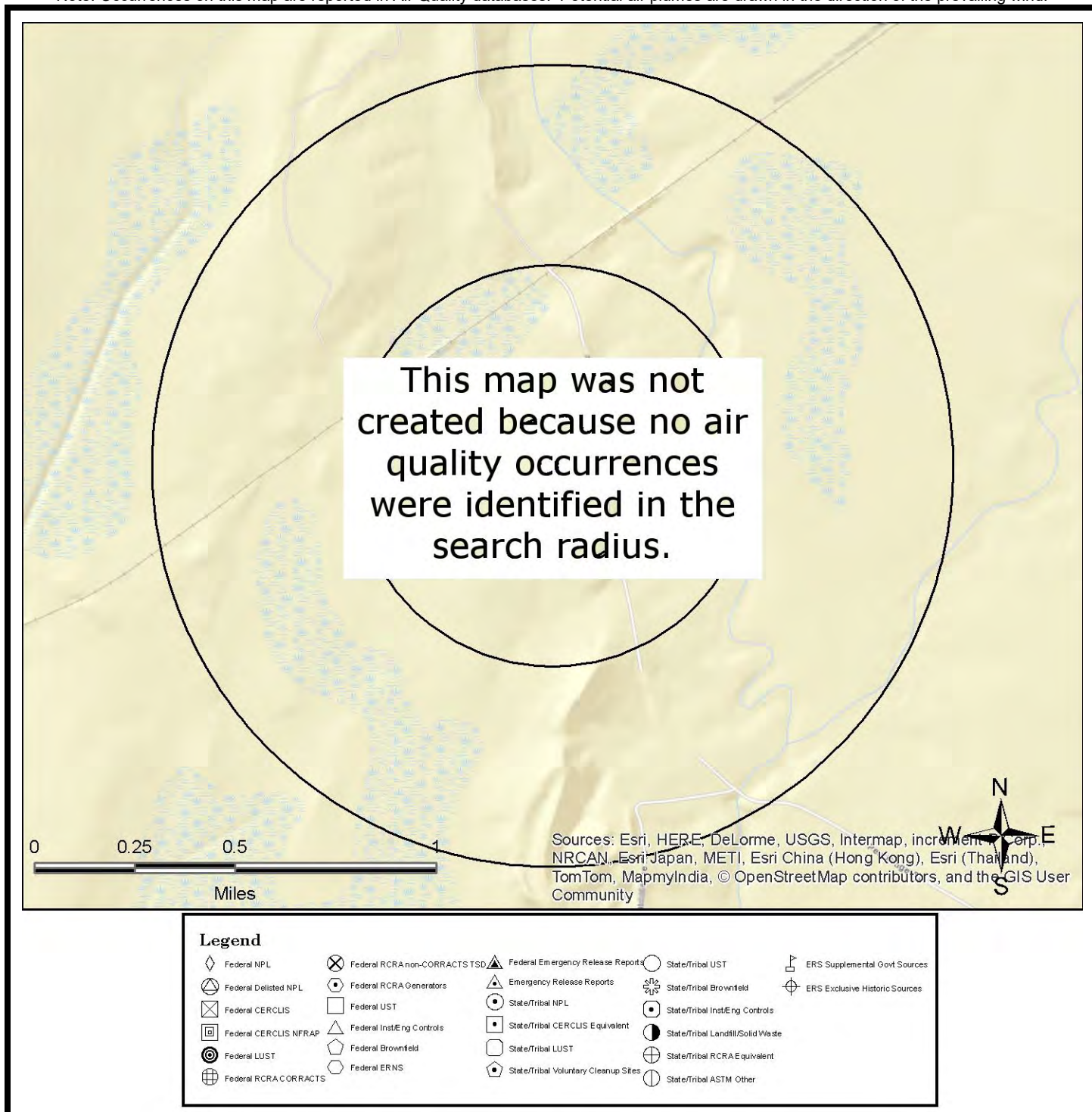
This "AGENCY DIFFERENCES IN MAPPED LOCATIONS (MAP 4)" is fully protected against reproduction in any way, shape or form by ERS Environmental Record Search. ALL applicable laws, copyrights, pending copyrights, trademarks, and any and all applicable Federal and State laws apply at all times. These protections include the concept, procedures, processes, layout, vision, color scheme, mapping layout, legends, data, any and all verbiage, and the entire concept.

SUMMARY OF AGENCY DIFFERENCES

MAP ID	ID / SITE NAME	ADDRESS / DATABASE	AGENCY COORDINATES	DISTANCE (MILES)	DIRECTION
N/A	No occurrences were identified where the agency provided coordinates that differed significantly from our mapped locations.				

MAPPED AIR PERMITS WITH POTENTIAL DISPERSION (MAP5)

Note: Occurrences on this map are reported in Air Quality databases. Potential air plumes are drawn in the direction of the prevailing wind.



All plotted occurrences represent approximate locations based on geographic information provided by the respective agency/source. Actual locations may vary due to numerous reasons such as: the size of the property, accuracy of the provided location, accuracy of the software used to determine the location, etc. Potential air dispersion plumes are depicted to graphically show the direction contaminants may travel based on prevailing wind data and provide a visual screening tool only. Actual direction will vary especially by season. Depending on the actual contaminate, amount released, and other variables, the distance from the source the contaminate may travel can and will vary. Interpretation and review of all the actual relevant data by an environmental professional is recommended before making any decisions, conclusions or otherwise based on the map depictions, air data, and potential air dispersion plumes.

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LISTED OCCURRENCE DETAILS

DATABASE	STATUS	DISTANCE	ELEVATION	MAP ID
OGW-AZ	Stratigraphic test	0.03 miles W	6273 ft	1
SITE NAME			MAPS	ID
U. S. Bur. Reclam.			1 , 3	3-10
ADDRESS			CITY	ZIP
Not Reported by Agency				
DETAILS				
API Number: 02-005-05097 PERMIT: 3-10 Section: 08 Township: 14N Range: 12E Location: SE NE Lease Number: 01 MacksCrosing SAMPLE: N/A Elevation: 6270 GL Total Depth: 301 FIELD: Not Reported Field Description: Not Reported Completion Date: 1966/05				

RECORDS SOURCES SEARCHED

Air-AZ

Arizona Air Permits

Category: ERS Supplemental Govt Sources

Description: This database contains permitted facilities in Arizona. These sites are active and have received ADEQ air permits.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027712331

Date last updated: 9/18/2015

Date last checked: 9/18/2015

Distance searched: 0.25 miles

Sites:

None Found

ALF-AZ

Active Landfills

Category: State/Tribal Landfill/Solid Waste

Description: This database contains a listing of Active Solid Waste Landfills.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027712221

Date last updated: 2/8/2016

Date last checked: 2/8/2016

Distance searched: 0.5 miles

Sites:

None Found

Allfac-AZ

Arizona Permits

Category: ERS Supplemental Govt Sources

Description: This database contains facilities that have been issued a Arizona DEQ permit at some point in time. Facilities listed can be in any of the following programs: Air, Chemical Release, Drinking Water, Hazardous Waste, Solid Waste, Surface Water, UST, Waste Water, and Remediation and Redevelopment.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027712300

Date last updated: 11/18/2015

Date last checked: 11/24/2015

Distance searched: 0.25 miles

Sites:

None Found

ASPL-AZ

Arizona Superfund Program List

Category: State/Tribal CERCLIS Equivalent

Description: This database contains WQARF Registry Sites, National Priorities List (NPL) sites and Department of Defense (DOD) sites requiring SPS oversight as reported by the Arizona Department of Environmental Quality.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027714340

Date last updated: 9/18/2015

Date last checked: 9/18/2015

Distance searched: 0.5 miles

Sites:

None Found

AST2-AZ**Aboveground Storage Tanks**

Category: State/Tribal UST

Description: This database contains aboveground storage tanks as reported by the Department of Fire, Building and Line Safety.

Agency: Department of Fire, Building and Line Safety

Phone Number: 6023641003

Date last updated: 10/19/2015

Date last checked: 10/5/2015

Distance searched: 0.25 miles

Sites:

None Found

AST-AZ**Aboveground Storage Tanks**

Category: State/Tribal UST

Description: This database contains a listing of Aboveground Storage Tanks reported by Arizona Department of Environmental Quality.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027712300

Date last updated: 8/19/2015

Date last checked: 8/19/2015

Distance searched: 0.25 miles

Sites:

None Found

BF-Closed-AZ**Brownfield Sites, Closed Cases**

Category: State/Tribal Brownfield

Description: This database contains a listing of Brownfield Closed Sites where the contamination on the property has been cleaned up.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027714153

Date last updated: 7/13/2015

Date last checked: 6/29/2015

Distance searched: 0.5 miles

Sites:

None Found

BF-Open-AZ

Brownfield Sites, Open Cases

Category: State/Tribal Brownfield

Description: Brownfield Open Sites where the contamination on the property has not been cleaned up.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027714153

Date last updated: 7/13/2015

Date last checked: 6/29/2015

Distance searched: 0.5 miles

Sites:

None Found

BF-US

A Listing of Brownfields Sites

Category: Federal Brownfield

Description: This database contains a listing of Brownfields sites listed under the "Cleanups in My Community" program maintained by EPA.

Agency: U.S. Environmental Protective Agency

Phone Number: 2025662777

Date last updated: 3/30/2016

Date last checked: 3/1/2016

Distance searched: 0.5 miles

Sites:

None Found

BioFuel-US

Bio Diesel Fuel

Category: ERS Supplemental Govt Sources

Description: This database contains a listing of EPA Fuels Programs facilities.

Agency: U.S Environmental Protection Agency

Phone Number: 2023439303

Date last updated: 7/27/2015

Date last checked: 7/8/2015

Distance searched: 0.25 miles

Sites:

None Found

Brownfields-AZ**Brownfield Site Boundaries****Category:** State/Tribal Brownfield**Description:** This database contains Brownfield site boundaries.**Agency:** Arizona Department of Environmental Quality**Phone Number:** 6027714153**Date last updated:** 12/30/2015**Date last checked:** 12/1/2015**Distance searched:** 1 mile**Sites:**

None Found

CDL-AZ**Clandestine Drug Labs****Category:** ERS Supplemental Govt Sources**Description:** This database contains a listing of seized illegal drug laboratory sites where drug manufacturing chemicals were seized. These sites are reported to meet the S.R.S. 12-990(1) definition of a "clandestine drug laboratory."**Agency:** Arizona State Board of Technical Registration**Phone Number:** 6023644948**Date last updated:** 6/17/2015**Date last checked:** 6/10/2015**Distance searched:** 0.063 miles**Sites:**

None Found

CDL-US**National Clandestine Drug Lab Register****Category:** ERS Supplemental Govt Sources**Description:** National Clandestine Drug Lab Register. This database contains a listing of addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites.**Agency:** United States Drug Enforcement Administration**Phone Number:** 2023071000**Date last updated:** 7/28/2015**Date last checked:** 7/8/2015**Distance searched:** 0.063 miles**Sites:**

None Found

CERCLIS-Archived-US**CERCLIS sites that have been archived**

Category: Federal CERCLIS NFRAP

Description: This database contains a listing of Archived CERCLIS sites. The Archive designation means that assessment at a site has been completed and EPA has determined no steps will be taken to designate the site as a priority by listing it on the National Priorities List (NPL). No further remedial action is planned for these sites under the Superfund Program.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 3/22/2016

Date last checked: 2/26/2016

Distance searched: 0.5 miles

Sites:

None Found

CERCLIS-US

Comprehensive Environmental Response, Compensation, and Liability Information System

Category: Federal CERCLIS

Description: CERCLIS is the Comprehensive Environmental Response, Compensation, and Liability Information System. CERCLIS contains information on hazardous waste sites, potential hazardous waste sites, and remedial activities across the nation, including sites that are on the National Priorities List (NPL) or being considered for the NPL. This database contains a listing of NPL Sites.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 3/21/2016

Date last checked: 2/26/2016

Distance searched: 0.5 miles

Sites:

None Found

CLF-AZ

Closed Landfills

Category: State/Tribal Landfill/Solid Waste

Description: This database contains a listing of Closed Solid Waste Landfills.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027712221

Date last updated: 2/8/2016

Date last checked: 2/8/2016

Distance searched: 0.5 miles

Sites:

None Found

Close-WQARF-AZ

Closed Water Quality Assurance Revolving Fund (WQARF) Sites

Category: State/Tribal NPL

Description: The database includes the closed Water Quality Assurance Revolving Fund (WQARF).

Agency: Arizona Department of Environmental Quality

Phone Number: 6027714340

Date last updated: 12/30/2015

Date last checked: 12/1/2015

Distance searched: 1 mile

Sites:

None Found

Coal-Ash-AZ

Coal Ash Disposal Sites

Category: ERS Supplemental Govt Sources

Description: This database contains coal ash disposal sites.

Agency: EarthJustice

Phone Number: 8005846460

Date last updated: 11/18/2015

Date last checked: 11/24/2015

Distance searched: 0.5 miles

Sites:

None Found

Coal-Ash-Dams-US

Coal Ash Contaminated Sites and Hazard Dams

Category: ERS Supplemental Govt Sources

Description: This database contains coal ash contaminated sites and hazard dams. Coal combustion waste sites have contaminated groundwater, wetlands, and rivers. The U.S. EPA rates coal ash ponds according to a National Inventory of Dams criteria that categorizes the ponds by the damage that would occur in the event of a dam failure. This database contains High Hazard and Significant Hazard dams.

Agency: EarthJustice

Phone Number: 8005846460

Date last updated: 10/20/2015

Date last checked: 10/12/2015

Distance searched: 0.5 miles

Sites:

None Found

Controls-AZ

Environmental Use Restriction Sites

Category: State/Tribal Inst/Eng Controls

Description: Arizona DEQ maintains a DEUR Tracking Database that lists all sites with Environmental Use Restrictions and Voluntary Environmental Mitigation Use Restrictions. This database contains listings of both types.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027714397

Date last updated: 2/17/2016

Date last checked: 2/17/2016

Distance searched: 0.5 miles

Sites:

None Found

Controls-RCRA-US

Federal RCRA with Controls

Category: Federal Inst/Eng Controls

Description: This database contains RCRA facilities that have Inst/Eng Controls placed on them as identified by the EPA.

Agency: Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 3/24/2016

Date last checked: 2/29/2016

Distance searched: 0.5 miles

Sites:

None Found

Controls-US

Controls List

Category: Federal Inst/Eng Controls

Description: This database contains a listing of Voluntary Action Program Sites with Engineering Controls and/or Institutional Controls placed on them and were identified by the Environmental Protection Agency.

Agency: Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 2/8/2016

Date last checked: 2/8/2016

Distance searched: 0.5 miles

Sites:

None Found

Dams-AZ

Arizona Dams

Category: ERS Supplemental Govt Sources

Description: This database contains dam locations in Arizona. The data is provided by the University of Arizona Institutional Repository and has not been updated since 1996.

Agency: United States Environmental Protection Agency

Phone Number: 2022607301

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Debris-US**Debris Sites****Category:** Federal Solid Waste**Description:** This database contains the Torres Martinez Reservation Illegal dump sites reported by the United States Environmental Protection Agency.**Agency:** United States Environmental Protection Agency**Phone Number:** 8004249346**Date last updated:** Historical Database**Date last checked:** N/A**Distance searched:** 0.5 miles**Sites:**

None Found

Delisted-NPL-US**Delisted NPL Sites****Category:** Federal Delisted NPL**Description:** This database contains a listing of Delisted NPL sites. These are facilities that have been removed from the NPL list. The EPA may delete a final NPL site if it determines that no further response is required to protect human health or the environment.**Agency:** Environmental Protection Agency**Phone Number:** 8004249346**Date last updated:** 3/21/2016**Date last checked:** 2/26/2016**Distance searched:** 1 mile**Sites:**

None Found

DOD-AZ**Department of Defense Sites****Category:** ERS Supplemental Govt Sources**Description:** The database includes the Arizona Department of Defense Sites (DOD).**Agency:** Arizona Department of Environmental Quality**Phone Number:** 6027714340**Date last updated:** 12/30/2015**Date last checked:** 12/1/2015**Distance searched:** 1 mile**Sites:**

None Found

DryCleaners-AZ**Dry Cleaner Facilities****Category:** ERS Supplemental Govt Sources

Description: This database contains a listing of drycleaners reported by the Arizona Department of Environmental Quality.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027712221

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

DryWell-AZ

DryWells

Category: ERS Supplemental Govt Sources

Description: This database contains drywell locations reported by the Arizona Department of Environmental Quality.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027714686

Date last updated: 2/25/2016

Date last checked: 2/25/2016

Distance searched: 0.25 miles

Sites:

None Found

EGRID-US

Emissions & Generation Resource Facilities

Category: ERS Supplemental Govt Sources

Description: Emissions & Generation Resource Integrated Database (eGRID) is a comprehensive source of data on the environmental characteristics of almost all electric power generated in the United States.

Agency: Environmental Protection Agency

Phone Number: 2023439340

Date last updated: 11/24/2015

Date last checked: 11/12/2015

Distance searched: 0.5 miles

Sites:

None Found

EpaNPL-AZ

Arizona National Priority List

Category: State/Tribal NPL

Description: The database includes the Arizona NPL sites as provided by the Arizona DEQ.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027714340

Date last updated: 12/30/2015

Date last checked: 12/1/2015

Distance searched: 1 mile

Sites:

None Found

EPA-Watch-List-US

EPA Watch List

Category: ERS Supplemental Govt Sources

Description: This database contains facilities listed on the Clean Air Act, Clean Water Act, and RCRA Watch List. These reports are now considered archived and will no longer be updated. Being on the Watch List may not mean that the facility has actually violated the law only that an evaluation or investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. The Watch List does not identify which alleged violations of environmental laws may pose the greatest risk to public health or the environment. It is an automated report based on data from the Air Facility System (AFS), which is used by federal, state and local agencies to track environmental enforcement and compliance information.

Agency: Environmental Protection Agency

Phone Number: 2025661667

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

ERNS-US

Emergency Response Notification System

Category: Federal ERNS

Description: The primary function of the National Response Center is to serve as the sole national point of contact for reporting all oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories. This database contains a listing of discharge locations.

Agency: National Response Center

Phone Number: 8004248802

Date last updated: 1/27/2016

Date last checked: 2/25/2016

Distance searched: 0.063 miles

Sites:

None Found

FA-HW-US

Financial Assurance, Hazardous Waste

Category: ERS Supplemental Govt Sources

Description: This database contains Financial Assurance facilities listed under the Hazardous Waste program as reported by the United States Environmental Protection Agency.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 7/27/2015

Date last checked: 6/23/2015

Distance searched: 0.063 miles

Sites:

None Found

FA-UST-AZ

Financial Assurance for Underground Storage Tanks

Category: ERS Supplemental Govt Sources

Description: This database identifies facilities with Underground Storage Tanks that have financial assurance as reported by the Arizona Department of Environmental Quality.

Agency: Arizona Department of Environmental Quality

Phone Number: 7852961684

Date last updated: 10/19/2015

Date last checked: 10/7/2015

Distance searched: 0.063 miles

Sites:

None Found

FEMA-UST-US

FEMA Underground Storage Tanks

Category: Federal UST

Description: This database contains Federal Emergency Management Agency (FEMA) owned and operated underground storage tanks. The report was published in 2006.

Agency: Environmental Protection Agency

Phone Number: 7036037165

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

FRS-US

Facility Registry Index (FINDS)

Category: ERS Supplemental Govt Sources

Description: The Facility Registry System (FRS) is a centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest.

Agency: Environmental Protection Agency

Phone Number: 2022720167

Date last updated: 8/3/2015

Date last checked: 7/8/2015

Distance searched: 0.063 miles

Sites:

None Found

FTTS-ENF-US**FIFRA/TSCA Tracking System (FTTS) Enforcement Actions**

Category: Federal ASTM Other

Description: The FIFRA/TSCA Tracking System (FTTS) is a regional system used to track compliance activities such as inspections, case review, enforcement actions taken, samples collected, and pesticide grants and cooperative agreement information. The compliance monitoring and enforcement activities are tracked from the time an inspector conducts (or schedules) an inspection until the time the case is closed or the enforcement action is settled. Specific legal citations include, but are not limited to: Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Toxic Substances Control Act (TSCA), and Emergency Planning and Community Right-to-Know Act (EPCRA).

Agency: United States Environmental Protection Agency

Phone Number: 2025642501

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

FTTS-INSP-US**FIFRA/TSCA Tracking System (FTTS) Inspections**

Category: ERS Supplemental Govt Sources

Description: The FIFRA/TSCA Tracking System (FTTS) is a regional system used to track compliance activities such as inspections, case review, enforcement actions taken, samples collected, and pesticide grants and cooperative agreement information. The compliance monitoring and enforcement activities are tracked from the time an inspector conducts (or schedules) an inspection until the time the case is closed or the enforcement action is settled. Specific legal citations include, but are not limited to: Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), Toxic Substances Control Act (TSCA), and Emergency Planning and Community Right-to-Know Act (EPCRA).

Agency: United States Environmental Protection Agency

Phone Number: 2025642501

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

FUDS-US**Formerly Used Defense Sites**

Category: ERS Supplemental Govt Sources

Description: The Department of Defense (DoD) is responsible for environmental restoration of properties that were formerly owned by, leased to or otherwise possessed by the United States and under the jurisdiction of the Secretary of Defense. Such properties are known as Formerly Used Defense Sites (FUDS). The Army is the executive agent for the program and the U.S. Army Corps of Engineers manages and directs the program's administration. The scope and magnitude of the FUDS program are significant, with more than 9,900 properties identified for potential inclusion in the program. Information about the origin and extent of contamination, land transfer issues, past and present property ownership, and program policies must be evaluated before DoD considers a property eligible for Defense Environment Restoration Account (DERA) funding under the FUDS program. Environmental cleanup procedures at FUDS are similar to those at active DoD installations.

Agency: Department of Defense

Phone Number: 2025284285

Date last updated: 3/7/2016

Date last checked: 3/7/2016

Distance searched: 1 mile

Sites:

None Found

Hist-AFS2-US

Air Facility System for Clean Air Act stationary sources

Category: ERS Supplemental Govt Sources

Description: AFS contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners (automobiles and other mobile air pollution sources are tracked by a different AIRS subsystem (AMS).

Agency: Environmental Protection Agency

Phone Number: 2025645962

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-AFS-US

Air Facility System for Clean Air Act stationary sources

Category: ERS Supplemental Govt Sources

Description: AFS contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners (automobiles and other mobile air pollution sources are tracked by a different AIRS subsystem (AMS).

Agency: Environmental Protection Agency

Phone Number: 2025645962

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-Agriculture**Ranches/Farms, Livestock/Agriculture**

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Ranches, Farms, Livestock, and/or Agriculture. This classification covers establishments primarily engaged in the production or feeding of beef cattle, except feedlots. Establishments also included are engaged in the production of cows' milk and other dairy products and in raising dairy heifer replacements. Such farms may process and bottle milk on the farm and sell at wholesale or retail. This category also includes establishments primarily engaged in the production of animal specialties, not elsewhere classified, such as pets, bees, worms, and laboratory animals. Furthermore, this industry includes establishments primarily engaged in the production of cash grains, not elsewhere classified. Primary cash grains in this classification include dry field and seed peas and beans, safflowers, sunflowers, and popcorn.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Auto Dealers**Auto and Truck Dealers**

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Auto Dealers. This classification is comprised of establishments involved in the retail sale of new automobiles and light trucks. This category also covers establishments primarily engaged in the retail sale of used cars only, with no sales of new automobiles, new automobile tires, batteries, and other automobile parts and accessories.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Auto Repair**Automotive Repair**

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Auto Repair and Tire Dealers. This classification is primarily selling, tires, replacement parts, batteries, and other automotive accessories. In addition, many operate service departments.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-AZ

Previously Listed Arizona Sites

Category: ERS Supplemental Govt Sources

Description: ERS has compiled records that have been previously listed in other agency databases. When ERS updates an agency database, if there is a record that was in the older version but the record is not found in the newer version, it is put into this database. The site may have been completely removed, or there was a significant change in the record such as Name, ID, or Address. The information from the old listing is preserved in this database along with which database it was originally in. It is also possible that it was moved from one database to another such as a LUST Open site receiving closure and now being listed in the LUST Closed database.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Chemical Manufacturing

Manufacturing and Distribution of Chemicals, Gases, and/or Solids

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Manufacturing and Distribution of Chemicals, Gases, and/or Solids. This industry classification includes establishments engaged in manufacturing alkalies and chlorine. Examples of products include compressed or liquefied chlorine, sodium or potassium hydroxide, sodium bicarbonate, and soda ash (not produced at mines). Manufacturing of industrial gases (organic as well as inorganic) that may be sold in compressed, liquid, or solid form. Industrial gases include acetylene, argon, carbon dioxide, helium, hydrogen, neon, nitrogen, nitrous oxide, and oxygen. Also, manufacturing industrial inorganic chemicals not elsewhere classified. A few examples are alum, ammonium compounds (except for fertilizer), industrial bleaches (sodium or calcium hypochlorite), chemical catalysts, hydrazine, hydrochloric acid, hydrogen peroxide, inorganic sodium compounds, and sulfuric acid. Other chemicals, not elsewhere classified, such as, fatty acids, essential oils, gelatin (except vegetable), sizes, bluing, laundry sours, writing and stamp pad ink, industrial compounds, such as boiler and heat insulating compounds, metal, oil, and water treating compounds, waterproofing compounds, and chemical supplies for foundries. This category also includes manufacturing various resins and plastics for sale to other industries that create plastic sheets, rods, films, and other products. The category also includes synthetic rubber, soap and detergents, rayon and acetate fibers. Furthermore, this category includes industrial and household adhesives, glues, caulking compounds, sealants, and linoleum, tile, rubber cements from vegetable, hardwood and softwood distillation products, natural dyes, tanning materials, and related products

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Cleaners

Laundry, Cleaners, and Dry Cleaning Services

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites, such as: Laundry, Cleaners, and Dry Cleaning Services. This category includes firms that primarily operate mechanical laundries powered with steam or other means, offer services, such as, dry cleaning or dyeing apparel, household fabrics, cleaning carpets and upholstered furniture, repair, alteration, and storage of clothes for individuals. Also, these establishments may provide laundered or dry-cleaned services to industrial, commercial, and government users. This category also includes establishments that primarily serve as agents for launderers and drycleaners. Furthermore, this category also includes businesses that primarily supply or rent to commercial establishments or household users the following laundered items: uniforms, gowns, and coats used by doctors, nurses, barbers, beauticians, and waitresses; table linens, bed linens, towels and toweling; and similar various items.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-Dumps-US

Dumps Inventory of 1985

Category: Federal Solid Waste

Description: This database contains Dumps as reported on the Inventory of Open Dumps from 1985. This report was published by the Office of Solid Waste, EPA.

Agency: Environmental Protection Agency

Phone Number: 2025660200

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.5 miles

Sites:

None Found

Hist-FIFRA-US

Case Administration Data from National Compliance Database (Federal Insecticide, Fungicide, and Rodenticide Act)

Category: ERS Supplemental Govt Sources

Description: This database is no longer maintained by EPA since 2006. The system tracked compliance monitoring and enforcement activities from the time an inspector conducts an inspection until the inspector closes the case or settles any resulting enforcement action(s). EPA now has the ICS database to track this information.

Agency: U.S. Environmental Protection Agency

Phone Number: 2025642501

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-Machine Shop

Machine Shops, Welding, Machine Repair

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites, such as: Machine shops, welding shops and machine repair.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Manufacturing

Historic Sources US: Manufacturing

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes manufacturing sites.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Metal Plating

Metal Plating

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes metal plating sites.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

HIST-MLTS-US

Material Licensing Tracking System

Category: ERS Supplemental Govt Sources

Description: This database contains facilities listed on the Material Licensing Tracking system that possess or use radioactive materials as reported by the U.S. Nuclear Regulatory Commission. In late 2012, the agency changed from MLTS to WBL system and no longer keep track of certain information that was available in the old MLTS system.

Agency: U.S. Nuclear Regulatory Commission

Phone Number: 3014157169

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-Mortuaries

Crematories/Mortuaries

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Mortuaries and Crematories. This classification includes establishments primarily engaged in preparing the dead for burial, conducting funerals, and cremating the dead.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Paint-Stores

Paint Stores

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes paint stores.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Petroleum

Petroleum Refining/ Manufacturing/ Chemicals

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Petroleum Refining, Manufacturing, and/or processing Chemicals. This category covers establishments engaged primarily in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, and lubricants through fractionation or straight distillation of crude oil, re-distillation of unfinished petroleum derivatives, cracking, or other processes. This category also includes establishments primarily engaged in manufacturing packaged fuel, powdered fuel, and other products of petroleum and coal not elsewhere classified, asphalt and tar paving mixtures and paving blocks made of asphalt mixed. Furthermore, this category includes establishments primarily engaged in blending, compounding, and re-refining lubricating oils and greases from purchased mineral, animal, and vegetable materials.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Printers

Printers and Publishers

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Printers and Publishers. This category is primarily engaged in publishing newspapers or in publishing and printing newspapers, publishing and printing periodicals, publishing and printing books and pamphlets. Other forms of publishing not elsewhere classified, such as, atlases, business service newsletters, calendars, catalogs, directories, guides, maps and map globe covers, paper patterns, race track programs, racing forms, sheet music, shopping news, technical manuals and papers, telephone directories, and yearbooks, as well as the activity of micropublishing. This category also includes, commercial printing of magazines, postage stamps, dollar bills, calendars, fine art prints, wallpaper, catalogs, coupons, directories, newspaper advertising inserts, playing cards, postcards, gift wrap, and product packaging and wrappers, greeting cards, blank books, including checkbooks and books with ruling paper, and loose-leaf binders. Furthermore, these industries are also engaged in typesetting for the trade, including advertising typesetting, hand or machine composition, photocomposition, phototypesetting, computer-controlled typesetting, and typographic composition.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-RV-Dealers

Trailer and Recreational Vehicle Dealers

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Trailer and Recreational Vehicle Dealers. This classification is comprised of establishments involved in the retail sale of new and used motor homes, recreational trailers, and campers (pickup coaches), motorcycles, motorboats and other watercraft, marine supplies, and outboard motors.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Salvage

Vehicle Salvage Yards or Wreckers

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Vehicle Salvage Yards or Wreckers.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Service Stations

Service Stations/Vehicle Fueling

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Service Stations/Vehicle Fueling Stations. This category includes gasoline service stations primarily engaged in selling gasoline and lubricating oils. These establishments frequently sell other merchandise, such as tires, batteries, and other automobile parts, or perform minor repair work.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Hist-SPILLS-AZ**Arizona Spills Reported**

Category: Emergency Release Reports

Description: This database includes the incidents identified in the Hazardous Material Logbook reported by the Arizona Department of Environmental Quality. The data only reports incidents prior to November 22, 2001.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027714380

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Transportation**Transportation Facilities**

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Airports and other facilities that may handle hazardous materials and petroleum products.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-Trucking**Trucking, Shipping, Delivery, and/or Storage**

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Trucking, Shipping, and/or Delivery Storage. This category covers establishments primarily engaged in furnishing trucking or transfer services without storage for freight generally weighing more than 100 pounds, in a single municipality, contiguous municipalities, or a municipality and its suburban areas. This category also includes establishments primarily engaged in the delivery of individually addressed letters, parcels, and packages (generally under 100 pounds), except by means of air transportation or by the United States Postal Service. This category covers establishments primarily engaged in furnishing "over-the-road" trucking services or storage services, including household goods either as common carriers or under special or individual contracts or agreements, for freight generally weighing more than 100 pounds. This category also includes establishments primarily engaged in the warehousing and storage of special products, not elsewhere classified, such as household goods, automobiles (dead storage only), furs (for the trade), textiles, oil, chemicals, lumber, whiskey, and goods at foreign trade zones, farm products, perishable goods under refrigeration.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-US

Previously Listed Federal Sites

Category: ERS Supplemental Govt Sources

Description: ERS has compiled records that have been previously listed in other agency databases. When ERS updates an agency database, if there is a record that was in the older version but the record is not found in the newer version, it is put into this database. The site may have been completely removed, or there was a significant change in the record such as Name, ID, or Address. The information from the old listing is preserved in this database along with which database it was originally in. It is also possible that it was moved from one database to another such as a LUST Open site receiving closure and now being listed in the LUST Closed database.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

Hist-US-EC

Engineering Controls Sites List

Category: Federal Inst/Eng Controls

Description: This database contains a listing of Voluntary Action Program Sites with Engineering Controls placed on them and were identified by the Environmental Protection Agency.

Agency: Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.5 miles

Sites:

None Found

Hist-US-IC

Sites with Institutional Controls

Category: Federal Inst/Eng Controls

Description: This database contains a listing of Voluntary Action Program Sites with Institutional Controls placed on them and were identified by the Environmental Protection Agency.

Agency: Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.5 miles

Sites:

None Found

Hist-Vehicle-Parts

Vehicle Parts

Category: ERS Exclusive Historic Sources

Description: ERS has compiled proprietary lists of MILLIONS of records dating back to the 1800's that have shown up in historic resources and based on their classification, may have used hazardous materials or petroleum products. This listing includes sites such as: Vehicle Parts Dealers. This category includes establishments primarily engaged in the retail sale of new automobile tires, batteries, and other automobile parts and accessories.

Agency: Environmental Record Search (ERS)

Phone Number: 8003772430

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

HMIS-US

Hazardous Materials Information System

Category: Federal Emergency Release Reports

Description: Data includes spills, releases, or other incidents involving hazardous materials in commerce during the course of transportation. All modes of transportation are included except pipeline and bulk marine transportation. Data represent a census of all incidents reportable to the U.S. Department of Transportation This database contains a listing of spills. (DOT). U.S. federal regulations require all spills meeting the following criteria to be reported, in writing, to DOT's Office of Hazardous Materials Safety.

Agency: US Department of Transportation Pipeline and Hazardous Materials Safety Administration

Phone Number: 2023664433

Date last updated: 1/13/2016

Date last checked: 3/1/2016

Distance searched: 0.063 miles

Sites:

None Found

ICIS-Air-US

Integrated Compliance Information System for Air

Category: ERS Supplemental Govt Sources

Description: The Integrated Compliance Information System for Air (ICIS-Air) data exchange allows all State, Local, and Tribal Air agencies providing air stationary source enforcement and compliance data to submit their data to EPA via the Exchange Network.

Agency: Environmental Protection Agency

Phone Number: 2025645962

Date last updated: 9/8/2015

Date last checked: 7/15/2015

Distance searched: 0.063 miles

Sites:

None Found

ICIS-FEC-US

Integrated Compliance Information System for Federal Enforcement Data

Category: ERS Supplemental Govt Sources

Description: The Integrated Compliance Information System (ICIS) tracks all formal administrative and judicial enforcement actions taken by the U.S. EPA and is used as the system of record to provide official enforcement data.

Agency: Environmental Protection Agency

Phone Number: 2025646962

Date last updated: 7/29/2015

Date last checked: 7/20/2015

Distance searched: 0.063 miles

Sites:

None Found

ICIS-NPDES-US

National Pollutant Discharge Elimination System (NPDES)

Category: ERS Supplemental Govt Sources

Description: The National Pollutant Discharge Elimination System (NPDES) permit program controls water pollution by regulating point sources that discharge pollutants into waters of the United States. This database contains a listing of permit holders.

Agency: United States Environmental Protection Agency

Phone Number: 2022720167

Date last updated: 2/17/2015

Date last checked: 12/2/2015

Distance searched: 0.063 miles

Sites:

None Found

Lead-Smelter-2-US

Lead Smelter Sites

Category: ERS Supplemental Govt Sources

Description: This database contains 464 sites that were reported as potential lead smelters sites in research conducted by the EPA Superfund Program and other sources. The sites are listed on the 2007 published report by the EPA Superfund Program.

Agency: Environmental Protection Agency

Phone Number: 7034129810

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Lead-US

Lead Smelter Sites

Category: ERS Supplemental Govt Sources

Description: This database contains lead smelter sites reported by the Environmental Protection Agency.

Agency: Environmental Protection Agency

Phone Number: 2025645962

Date last updated: 11/24/2015

Date last checked: 11/10/2015

Distance searched: 0.25 miles

Sites:

None Found

LIENS-US

Federal LIEN Sites

Category: Federal Inst/Eng Controls

Description: This database contains sites that have had Federal Liens filed on them as reported by the EPA.

Agency: U.S. Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 2/8/2016
Date last checked: 2/8/2016
Distance searched: 0.063 miles
Sites:
None Found

LUST-Closed-AZ

Leaking Underground Storage Tanks, Closed Cases

Category: State/Tribal LUST

Description: This database contains a listing of LUST Closed cases where remediation cleanup is complete.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027712300

Date last updated: 3/1/2016

Date last checked: 2/10/2016

Distance searched: 0.5 miles

Sites:
None Found

LUST-Open-AZ

Leaking Underground Storage Tanks, Open Cases

Category: State/Tribal LUST

Description: This database contains a listing of Open LUST cases where remediation cleanup is not complete.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027712300

Date last updated: 3/1/2016

Date last checked: 2/10/2016

Distance searched: 0.5 miles

Sites:
None Found

Manifest2-NY

Hazardous Waste Manifest

Category: State/Tribal RCRA Equivalent

Description: The New York Department of Environmental Conservation, Hazardous Waste Manifest System lists sites from all over the country, not just New York. To be thorough, ERS has searched the data subset that includes Kansas sites for listings on or near the subject site that are listed in the New York Department of Environmental Conservation, Hazardous Waste Manifest System.

Agency: New York State Department of Environmental Conservation

Phone Number: 5184028730

Date last updated: 12/9/2014

Date last checked: 12/5/2014

Distance searched: 0.063 miles

Sites:

None Found

Manifest2-RI**Hazardous Waste Manifest**

Category: State/Tribal RCRA Equivalent

Description: The Rhode Island Department of Environmental Management, Hazardous Waste Manifest System lists sites from all over the country, not just Rhode Island. To be thorough, ERS has searched the data subset that includes Kansas sites for listings on or near the subject site that are listed in the Rhode Island Department of Environmental Management, Hazardous Waste Manifest System.

Agency: Rhode Island Department of Environmental Management

Phone Number: 4012222797

Date last updated: 12/16/2014

Date last checked: 12/16/2014

Distance searched: 0.063 miles

Sites:

None Found

Mines-AZ**Arizona Mines**

Category: ERS Supplemental Govt Sources

Description: This database contains arizona mine sites reported by the Arizona State Land Department.

Agency: Arizona State Land Department.

Phone Number: 6025424631

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

MINES-US**Mines Master Index File**

Category: ERS Supplemental Govt Sources

Description: The Master Index file contains mine identification numbers issued for mines active or opened since 1971.

Agency: United States Department of Labor

Phone Number: 8777786055

Date last updated: 8/13/2015

Date last checked: 7/27/2015

Distance searched: 0.063 miles

Sites:

None Found

MLTS-US**Material Licensing Tracking System****Category:** ERS Supplemental Govt Sources**Description:** This database contains facilities listed on the Material Licensing Tracking system that possess or use radioactive materials as reported by the U.S. Nuclear Regulatory Commission.**Agency:** U.S. Nuclear Regulatory Commission**Phone Number:** 3014157169**Date last updated:** 8/12/2015**Date last checked:** 8/10/2015**Distance searched:** 0.063 miles**Sites:**

None Found

MRDS-US**Mineral Resources Data System (MRDS)****Category:** ERS Supplemental Govt Sources**Description:** MRDS is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references.**Agency:** U.S. Geologic Survey**Phone Number:** 8882758747**Date last updated:** 11/17/2015**Date last checked:** 2/26/2016**Distance searched:** 0.25 miles**Sites:**

None Found

NPDES-AZ**National Pollutant Discharge Elimination System (NPDES)****Category:** ERS Supplemental Govt Sources**Description:** This database contains a listing of National Pollutant Discharge Elimination System (NPDES) permit program facilities.**Agency:** Arizona Department of Environmental Quality**Phone Number:** 6027714334**Date last updated:** 6/16/2015**Date last checked:** 6/4/2015**Distance searched:** 0.063 miles**Sites:**

None Found

NPL-R9-US**NPL Region 9 Site Boundaries****Category:** Federal NPL**Description:** This database contains the boundaries of the NPL sites within the specified EPA region.

Agency: Environmental Protection Agency

Phone Number: 4159478000

Date last updated: 12/30/2015

Date last checked: 12/1/2015

Distance searched: 1 mile

Sites:

None Found

NPL-US

National Priorities List

Category: Federal NPL

Description: The National Priorities List is the list of national priorities among the known releases or threatened releases of hazardous substances, pollutants, or contaminants throughout the United States and its territories. The NPL is intended primarily to guide the EPA in determining which sites warrant further investigation. This database contains a listing of NPL sites.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 3/21/2016

Date last checked: 2/26/2016

Distance searched: 1 mile

Sites:

None Found

OGW-AZ

Arizona Oil and Gas Wells

Category: ERS Supplemental Govt Sources

Description: This database contains a listing of Oil and Gas Wells identified by the Arizona Geological Survey.

Agency: Arizona Geological Survey

Phone Number: 5207703500

Date last updated: 6/17/2015

Date last checked: 6/4/2015

Distance searched: 0.063 miles

Sites:

U. S. Bur. Reclam.

MapID: [1](#) Stratigraphic test

Oil-Centers-AZ

Used Oil Collection Centers

Category: State/Tribal ASTM Other

Description: This database contains a listing of registered Used Oil Collection Centers in Arizona.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027714140

Date last updated: 2/8/2016

Date last checked: 2/8/2016

Distance searched: 0.5 miles

Sites:

None Found

PADS-US

PCB Registration Database System

Category: Federal ASTM Other

Description: This database contains a listing of generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Agency: Environmental Protection Agency

Phone Number: 2025660500

Date last updated: 3/21/2016

Date last checked: 3/1/2016

Distance searched: 0.063 miles

Sites:

None Found

PCB-US

PCB Transformers

Category: Federal ASTM Other

Description: PCB Transformer Registration Database. This database indicates the best known current status of registered PCB transformers

Agency: U.S Environmental Protection Agency

Phone Number: 7033088404

Date last updated: 3/1/2016

Date last checked: 3/1/2016

Distance searched: 0.25 miles

Sites:

None Found

PCS-US

Permit Compliance System for Clean Water Act

Category: ERS Supplemental Govt Sources

Description: PCS is an information management system maintained by the Office of Compliance to track permit compliance and enforcement status of facilities regulated by the National Pollutant Discharge Elimination System (NPDES) under the Clean Water Act. PCS is designed to support the NPDES program at the state, regional, and national levels.

Agency: Environmental Protection Agency

Phone Number: 2025640221

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.25 miles

Sites:

None Found

Proposed-NPL-US

Proposed NPL Sites

Category: Federal NPL

Description: This database contains current proposed NPL sites as reported by the EPA.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 11/23/2015

Date last checked: 2/26/2016

Distance searched: 1 mile

Sites:

None Found

RADINFO-US

Radiation Information Database

Category: ERS Supplemental Govt Sources

Description: This database contains a listing of facilities that are regulated by the US EPA regulations for radiation and radioactivity.

Agency: Environmental Protection Agency

Phone Number: 2023439775

Date last updated: 3/1/2016

Date last checked: 3/1/2016

Distance searched: 0.063 miles

Sites:

None Found

RCRA-CESQG-US

Resource Conservation and Recovery Act, Conditionally Exempt Small Quantity Generators

Category: Federal RCRA Generators

Description: The primary goals of RCRA are to: Protect human health and the environment from the potential hazards of waste disposal. Conserve energy and natural resources. Reduce the amount of waste generated. Ensure that wastes are managed in an environmentally sound manner. This database contains a listing of Conditionally Exempt Small Quantity Generators.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 2/3/2016

Date last checked: 1/29/2016

Distance searched: 0.25 miles

Sites:

None Found

RCRA-COR-US

Resource Conservation and Recovery Act - Corrective Actions

Category: Federal RCRA CORRACTS

Description: The primary goals of RCRA are to: Protect human health and the environment from the potential hazards of waste disposal. Conserve energy and natural resources. Reduce the amount of waste generated. Ensure that wastes are managed in an environmentally sound manner.

EPA estimates that between 50 and 70 percent of all TSDFs have some degree of environmental contamination requiring detailed investigation and perhaps cleanup. Under a program entitled Corrective Action, EPA has the statutory authority to require permitted and interim status TSDFs to clean up hazardous waste contamination. This database contains a listing of sites that have had corrective action.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 2/3/2016

Date last checked: 1/29/2016

Distance searched: 1 mile

Sites:

None Found

RCRA-LQG-US**Resource Conservation and Recovery Act, Large Quantity Generators**

Category: Federal RCRA Generators

Description: The primary goals of RCRA are to: Protect human health and the environment from the potential hazards of waste disposal. Conserve energy and natural resources. Reduce the amount of waste generated. Ensure that wastes are managed in an environmentally sound manner. This database contains a listing of Large Quantity Generators.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 2/3/2016

Date last checked: 1/29/2016

Distance searched: 0.25 miles

Sites:

None Found

RCRA-NON-US**Resource Conservation and Recovery Act**

Category: Federal RCRA Generators

Description: The primary goals of RCRA are to: Protect human health and the environment from the potential hazards of waste disposal. Conserve energy and natural resources. Reduce the amount of waste generated. Ensure that wastes are managed in an environmentally sound manner. This database contains a listing of RCRA Non-Hazardous generators.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 2/3/2016

Date last checked: 1/29/2016

Distance searched: 0.25 miles

Sites:

None Found

RCRA-SQG-US

Resource Conservation and Recovery Act, Small Quantity Generators

Category: Federal RCRA Generators

Description: The primary goals of RCRA are to: Protect human health and the environment from the potential hazards of waste disposal. Conserve energy and natural resources. Reduce the amount of waste generated. Ensure that wastes are managed in an environmentally sound manner. This database contains a listing of Small Quantity Generators.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 2/3/2016

Date last checked: 1/29/2016

Distance searched: 0.25 miles

Sites:

None Found

RCRA-TSD-US

Resource Conservation and Recovery Act - Treatment, Storage, and Disposal sites

Category: Federal RCRA non-CORRACTS TSD

Description: The primary goals of RCRA are to: Protect human health and the environment from the potential hazards of waste disposal. Conserve energy and natural resources. Reduce the amount of waste generated. Ensure that wastes are managed in an environmentally sound manner.

This database contains a listing of Treatment, Storage and Disposal Facilities - Facilities that receive hazardous waste from generators or other facilities for treatment, storage or disposal of waste are known as TSDFs.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 2/3/2016

Date last checked: 1/29/2016

Distance searched: 0.5 miles

Sites:

None Found

RemOther-Closed-AZ

Remediation Other Sites

Category: State/Tribal ASTM Other

Description: Sites reported by the Arizona Department of Environmental Quality where the owner has elected to remediate the property without the use of an institutional or engineering control.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027714397

Date last updated: 2/17/2016

Date last checked: 2/17/2016

Distance searched: 0.5 miles

Sites:

None Found

RemOther-Open-AZ**Remediation Other Sites**

Category: State/Tribal ASTM Other

Description: Sites reported by the Arizona Department of Environmental Quality where the owner has elected to remediate the property without the use of an institutional or engineering control.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027714397

Date last updated: 2/17/2016

Date last checked: 2/17/2016

Distance searched: 0.5 miles

Sites:

None Found

RFG-Lab-US**Reformulated Gasoline (RFG)**

Category: ERS Supplemental Govt Sources

Description: This database includes the list of registered Reformulated Gasoline Laboratories.

Agency: Environmental Protection Agency, United States

Phone Number: 2023439303

Date last updated: 11/24/2015

Date last checked: 11/18/2015

Distance searched: 0.25 miles

Sites:

None Found

RMP-US**Risk Management Plans**

Category: ERS Supplemental Govt Sources

Description: This database contains facilities that have developed risk management plans as reported by the Environmental Protection Agency. The System for Risk Management Plans (SRMP) is a suite of electronic systems containing information relating to risk management plans submitted by facilities in accordance with the Clean Air Act, Section 112(r). Affected facilities are to develop risk management programs which will prevent and minimize consequences of accidental releases of certain hazardous chemicals that could harm public health and the environment.

Agency: Environmental Protection Agency

Phone Number: 2025642491

Date last updated: 3/12/2015

Date last checked: 2/23/2016

Distance searched: 0.063 miles

Sites:

None Found

ROD-US

Records of Decision

Category: ERS Supplemental Govt Sources

Description: The Record of Decision (ROD) is a public document that explains which cleanup alternatives will be used to clean up a Superfund site. The ROD for sites listed on the NPL (NPL Site Listing Process) is created from information generated during the Remedial Investigation/Feasibility Study (RI/FS). A ROD contains site history, site description, site characteristics, community participation, enforcement activities, past and present activities, contaminated media, the contaminants present, scope and role of response action and the remedy selected for cleanup. This database contains a listing of sites with RODs.

Agency: Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 11/24/2015

Date last checked: 11/18/2015

Distance searched: 0.5 miles

Sites:

None Found

SAA-Agreements-US

Sites with Superfund Alternative Approach Agreements

Category: Federal ASTM Other

Description: This database contains sites that have a Superfund Alternative agreement. The Superfund alternative (SA) approach uses the same investigation and cleanup process and standards that are used for sites listed on the NPL. The SA approach is an alternative to listing a site on the NPL; it is not an alternative to Superfund or the Superfund process.

Agency: Environmental Protection Agency

Phone Number: 2025645110

Date last updated: 2/25/2016

Date last checked: 2/25/2016

Distance searched: 1 mile

Sites:

None Found

SDWIS-US

Safe Drinking Water Information System

Category: ERS Supplemental Govt Sources

Description: This database contains the Safe Drinking Water Information including Public Water, Source and Treatment, Enforcements and Violations reported by the United States Environmental Protection Agency.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 3/11/2015

Date last checked: 3/10/2015

Distance searched: 0.25 miles

Sites:

None Found

SS-AZ**Superfund Sites**

Category: State/Tribal CERCLIS Equivalent

Description: This database contains superfund sites in Arizona. The data is provided by the University of Arizona Institutional Repository and last updated in 1997.

Agency: United States Environmental Protection Agency

Phone Number: 2022607301

Date last updated: 2/8/2016

Date last checked: 2/8/2016

Distance searched: 0.5 miles

Sites:

None Found

SSTS-US**Section 7 Tracking System**

Category: ERS Supplemental Govt Sources

Description: This database contains a listing of EPA-registered domestic pesticide-producing and device producing establishments and the pesticides produced based on data in the Section Seven Tracking System.

Agency: Environmental Protection Agency

Phone Number: 2025644203

Date last updated: 9/3/2015

Date last checked: 9/4/2015

Distance searched: 0.063 miles

Sites:

None Found

SWT-AZ**Special Waste Transporter List**

Category: ERS Supplemental Govt Sources

Description: This database contains special waste transporter sites as reported by the Arizona Department of Environmental Quality. Special waste is classified as waste that contains petroleum contaminated soils and waste from shredding motor vehicles.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027712221

Date last updated: 6/17/2015

Date last checked: 6/15/2015

Distance searched: 0.25 miles

Sites:

None Found

Transfer-AZ**Transfer Stations**

Category: State/Tribal Landfill/Solid Waste

Description: This database contains active transfer stations as reported by the Arizona Department of Environmental Quality.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027712221

Date last updated: 3/2/2016

Date last checked: 3/2/2016

Distance searched: 0.5 miles

Sites:

None Found

Tribal-Air-US**Tribal Air Permitted Facilities**

Category: ERS Supplemental Govt Sources

Description: This database contains tribal locations that have been issued air permits as reported by the US Environmental Protection Agency. At this time the database includes region 2, 5, 7, 8, 9, 10.

Agency: United States Environmental Protection Agency

Phone Number: 3123532000

Date last updated: 5/1/2015

Date last checked: 2/27/2015

Distance searched: 0.25 miles

Sites:

None Found

Tribal-BF-US**Tribal Brownfields**

Category: Federal Brownfield

Description: This database contains a listing of Brownfields on Native American Land identified by the United States Environmental Protection Agency.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 5/16/2014

Date last checked: 5/16/2014

Distance searched: 0.5 miles

Sites:

None Found

Tribal-LUST-Closed-Reg9**Tribal Leaking Underground Storage Tanks**

Category: Federal LUST

Description: This database contains a listing of Leaking Underground Storage Tanks on Native American Land identified by the United States Environmental Protection Agency in Region 9.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 3/25/2016

Date last checked: 3/8/2016

Distance searched: 0.5 miles

Sites:

None Found

Tribal-LUST-Open-Reg9

Tribal Leaking Underground Storage Tanks

Category: Federal LUST

Description: This database contains a listing of Leaking Underground Storage Tanks on Native American Land identified by the United States Environmental Protection Agency in Region 9.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 3/25/2016

Date last checked: 3/8/2016

Distance searched: 0.5 miles

Sites:

None Found

Tribal-ODI-US

Tribal Open Dump Sites

Category: Federal Solid Waste

Description: This database contains a listing of Open Dump Sites on Native American Land identified by the Indian Health Service

Agency: Indian Health Service

Phone Number: 3014431046

Date last updated: 2/25/2016

Date last checked: 2/25/2016

Distance searched: 0.5 miles

Sites:

None Found

Tribal-UST-Reg9

Tribal Underground Storage Tanks

Category: Federal UST

Description: This database contains a listing of Underground Storage Tanks on Native American Land identified by the United States Environmental Protection Agency in Region 9.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 3/24/2016

Date last checked: 3/4/2016
Distance searched: 0.25 miles
Sites:
None Found

Tribal-VCP-US

Tribal VCP

Category: Federal Tribal VCP

Description: This database contains voluntary cleanup sites located in tribal land as reported by the United States Environmental Protection Agency.

Agency: United States Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 2/8/2016

Date last checked: 2/8/2016

Distance searched: 0.5 miles

Sites:
None Found

TRIS2000-US

Toxics Release Inventory System

Category: ERS Supplemental Govt Sources

Description: TRIS is a EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities. This database contains a listing of facilities that reported in the years between 2000-2009.

Agency: Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:
None Found

TRIS2010-US

Toxics Release Inventory System

Category: ERS Supplemental Govt Sources

Description: TRIS is a EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities. This database contains a listing of facilities that reported in the years between 2010-2012.

Agency: Environmental Protection Agency

Phone Number: 8004249346

Date last updated: 8/28/2015
Date last checked: 7/28/2015
Distance searched: 0.063 miles
Sites:
None Found

TRIS80-US

Toxics Release Inventory System

Category: ERS Supplemental Govt Sources

Description: TRIS is a EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities. This database contains a listing of facilities that reported in the years between 1987-1989.

Agency: Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:
None Found

TRIS90-US

Toxics Release Inventory System

Category: ERS Supplemental Govt Sources

Description: TRIS is a EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities. This database contains a listing of facilities that reported in the years between 1990-1999.

Agency: Environmental Protection Agency

Phone Number: 8004249346

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:
None Found

TSCA-US

Toxics Substance Control Sites

Category: ERS Supplemental Govt Sources

Description: TSCA addresses the production, importation, use, and disposal of specific chemicals including polychlorinated biphenyls (PCBs), asbestos, radon and lead-based paint. This database contains a listing of these facilities.

Agency: U.S. Environmental Protection Agency

Phone Number: 2025642501

Date last updated: 9/4/2015

Date last checked: 11/21/2014

Distance searched: 0.063 miles

Sites:

None Found

UIC-AZ

Underground Injection Control Wells

Category: ERS Supplemental Govt Sources

Description: This database contains Underground Injection Control Wells reported by the Arizona Geological Survey.

Agency: Arizona Geological Survey.

Phone Number: 5207703500

Date last updated: 9/29/2015

Date last checked: 9/25/2015

Distance searched: 0.063 miles

Sites:

None Found

UMTRA-US

Uranium Mill Tailings Remedial Action Sites

Category: ERS Supplemental Govt Sources

Description: The Uranium Mill Tailings Radiation Control Act (UMTRCA) of 1978 gave the U.S. Department of Energy (DOE) the responsibility of stabilizing, disposing, and controlling uranium mill tailings and other contaminated material at twenty-four uranium mill processing sites located across ten states and at approximately 5,200 associated properties.

Agency: Department of Energy

Phone Number: 5058450011

Date last updated: Historical Database

Date last checked: N/A

Distance searched: 0.063 miles

Sites:

None Found

USGS-Waterwells-US

Ground Water Site Inventory

Category: ERS Supplemental Govt Sources

Description: This database contains a listing of wells, springs, test holes, tunnels, drains, and excavations reported by the United States Geological Survey, Water Resources Program.

Agency: United States Geological Survey, Water Resources Program

Phone Number: 9162783000

Date last updated: Historical Database

Date last checked: N/A
Distance searched: 0.063 miles
Sites:
None Found

UST-AZ

Underground Storage Tanks

Category: State/Tribal UST

Description: This database contains a listing of Registered Underground Storage Tanks in Arizona.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027712300

Date last updated: 2/29/2016

Date last checked: 2/22/2016

Distance searched: 0.25 miles

Sites:
None Found

Vapor-Intrusions-US

Vapor Intrusion Database

Category: ERS Supplemental Govt Sources

Description: This database contains the vapor intrusion database as reported by the Environmental Protection Agency.

Agency: Environmental Protection Agency

Phone Number: 7033057411

Date last updated: 2/8/2016

Date last checked: 2/8/2016

Distance searched: 0.5 miles

Sites:
None Found

VCP-Closed-AZ

Voluntary Cleanup Program Sites, Closed Cases

Category: State/Tribal Voluntary Cleanup Sites

Description: This database contains a listing of Voluntary Cleanup Program Sites where the contamination on the property has been cleaned up.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027714153

Date last updated: 7/13/2015

Date last checked: 6/29/2015

Distance searched: 0.5 miles

Sites:
None Found

VCP-Open-AZ

Voluntary Cleanup Program Sites, Open Cases

Category: State/Tribal Voluntary Cleanup Sites

Description: This database contains a listing of Voluntary Cleanup Program Sites where the contamination on the property has been cleaned up.

Agency: Arizona Department of Environmental Quality

Phone Number: 6027714153

Date last updated: 7/13/2015

Date last checked: 6/29/2015

Distance searched: 0.5 miles

Sites:

None Found

Waste-tire-AZ

Waste Tire Sites

Category: ERS Supplemental Govt Sources

Description: This database contains a listing of Waste Tire Sites registered through the Arizona Department of Environmental Quality.

Agency: Arizona Department of Environmental Quality

Phone Number: 602-771-41

Date last updated: 6/15/2015

Date last checked: 6/11/2015

Distance searched: 0.5 miles

Sites:

None Found

Wells-AZ

Arizona Wells

Category: ERS Supplemental Govt Sources

Description: This database contains a listing of Arizona wells.

Agency: Arizona Department of Water Resources

Phone Number: 6027718640

Date last updated: 3/1/2016

Date last checked: 6/15/2015

Distance searched: 0.063 miles

Sites:

None Found

UN-MAPPABLE OCCURRENCES

The following occurrences were not mapped primarily due to incomplete or inaccurate address information. All of the following occurrences were determined to share the same zip code as the area searched. General status information is given with each occurrence along with any address information entered by the agency responsible for the list.

ID	Facility Name	Address	Database	Status
No "un-mapped" sites requested.				

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The data presented in this report should only be interpreted by an experienced environmental professional, as per EPA definition, that completely understands the potential inaccuracy of the data derived from others, the possible existence of contaminated occurrences that have not been listed, and the possibility that the governmental database misrepresents the actual status of an occurrence or listing. Prior to relying completely on any of the data within this report, an environmental professional should verify the accuracy of the information presented unless one of ERS's Environmental Professionals has interpreted the data and/or report.

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APPENDIX F

**Historical
Topographical
Maps**

**Historical Aerial
Photographs**

Aerial Photo & Topographic Map Research

REPORT RESULTS



Report Results for:

Sarah Richman
WestLand Resources
4001 E Paradise Falls Drive
Tucson, AZ 85712
2104666843 AOTO
April 15, 2016

Subject Site:

Client's Project #: **807.126**
Address: **East Clear Creek**
City, State Zip: **Coconino County, AZ**

ERS Order #:

2104666843 AOTO

Prepared For:

Name: Sarah Richman
Company: WestLand Resources
Address: 4001 E Paradise Falls Drive
City, State Zip: Tucson, AZ 85712

Date:

April 15, 2016

Enclosed are the results of our.....

Aerial Photograph and Topographic Map research.

Thank you for selecting ***Environmental Record Search!***

To aid you in locating your site on the imagery provided, we have placed a box over/surrounding your site.

Note: *This box is not representative of your site's boundaries. It is simply a tool to assist you with the location of your site within the image. The box has been placed in the same location on each image to help you locate your site easily from year to year. If you have any problems locating your site, please call us. We are here to help.*

All terms, conditions, and limitations normally associated with work contracted by **ERS** and presented or associated with aerial photography are in effect at all times. This letter summary, all its information, and content have been derived from and rely upon the reviewed aerial photographs. **ERS's** research has only been based on these images; **ERS** did not perform any type of independent investigation of any type, including as to the accuracy and/or completeness of the information derived or otherwise obtained from the secondary source or sources.

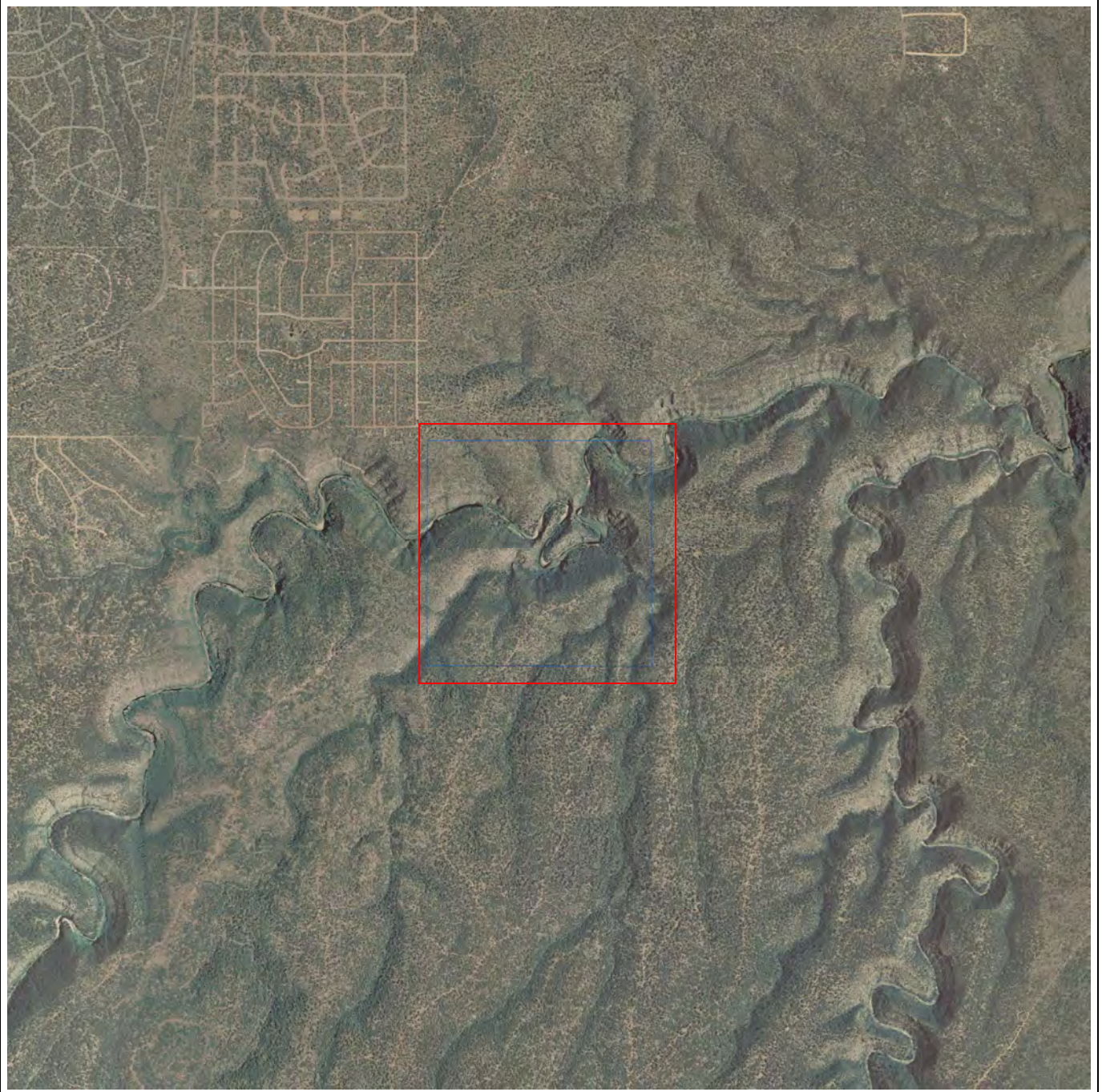


Historical Aerial Photo

Site:
**East Clear Creek
Coconino County, AZ**

2014



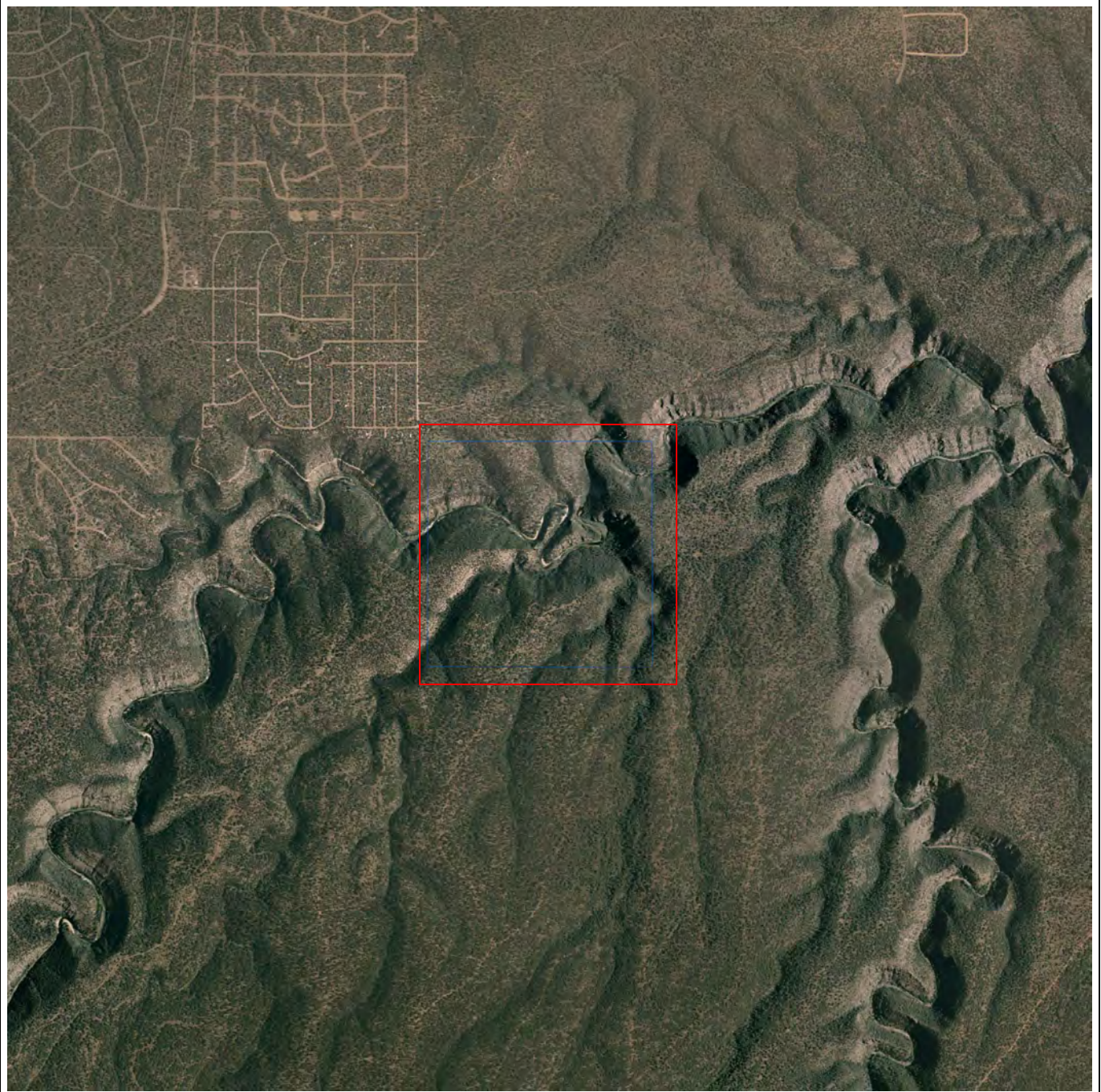


Historical Aerial Photo

Site:
East Clear Creek
Coconino County, AZ

2010



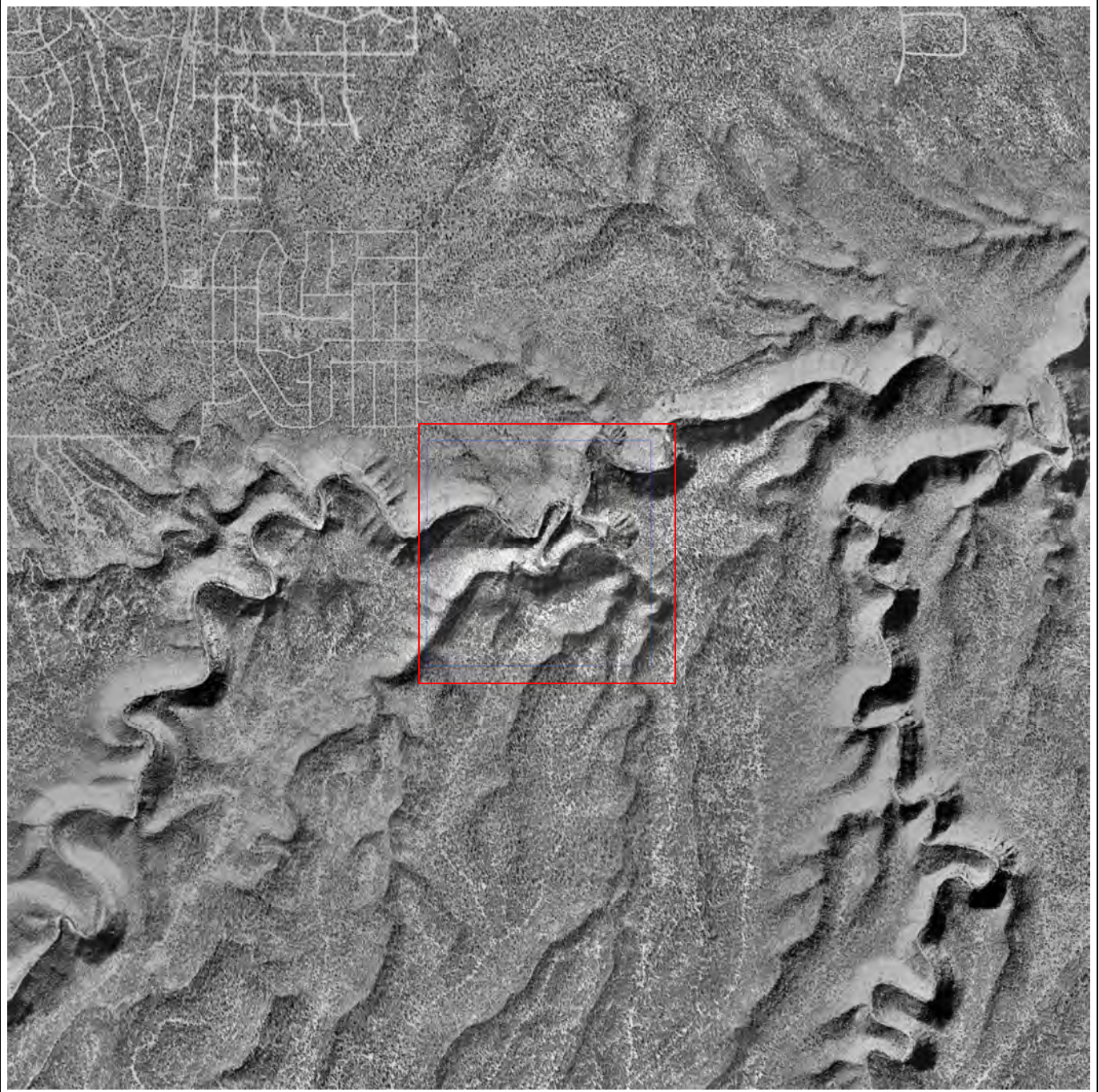


Historical Aerial Photo

Site:
East Clear Creek
Coconino County, AZ

2007



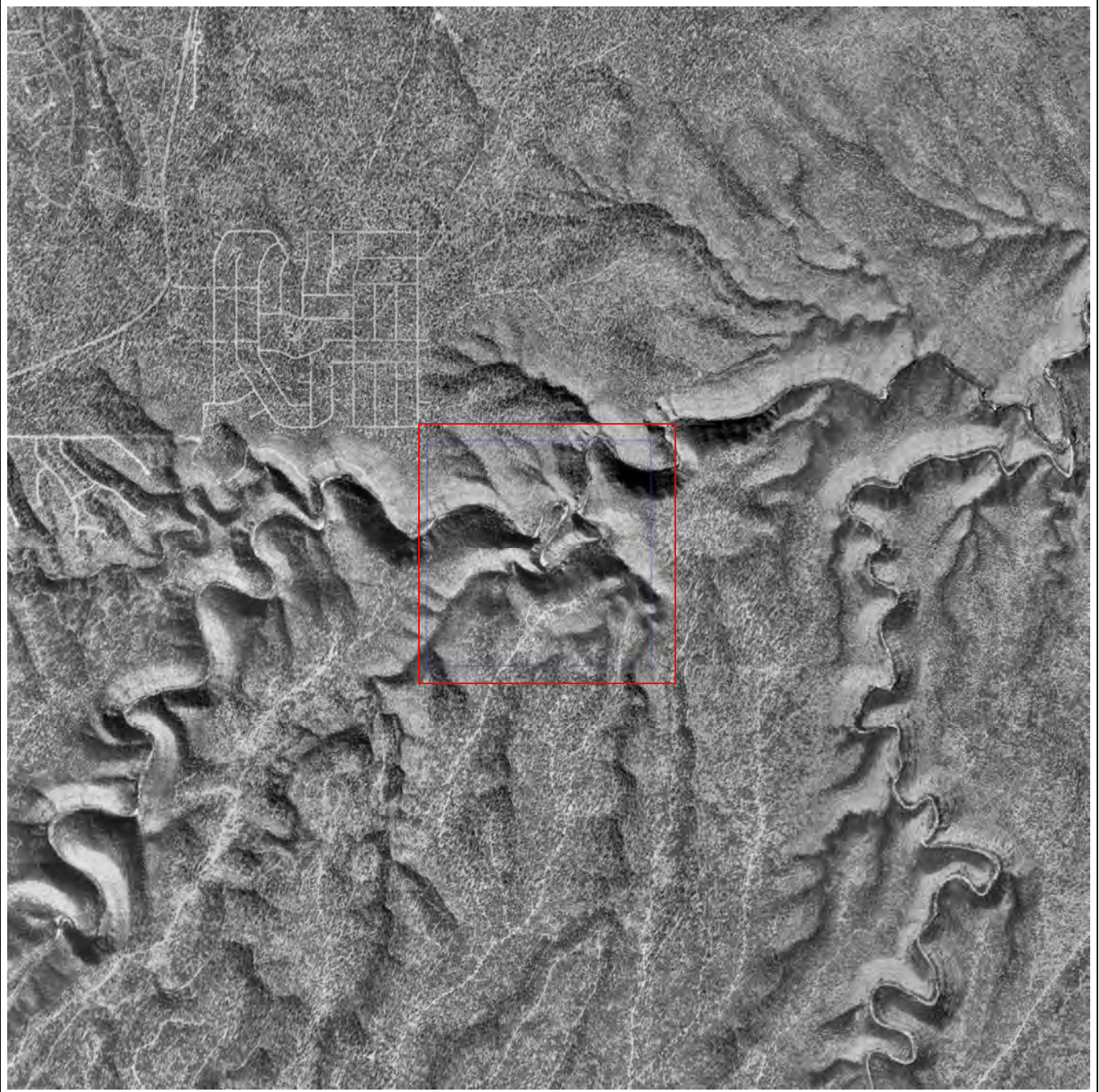


Historical Aerial Photo

Site:
East Clear Creek
Coconino County, AZ

2003



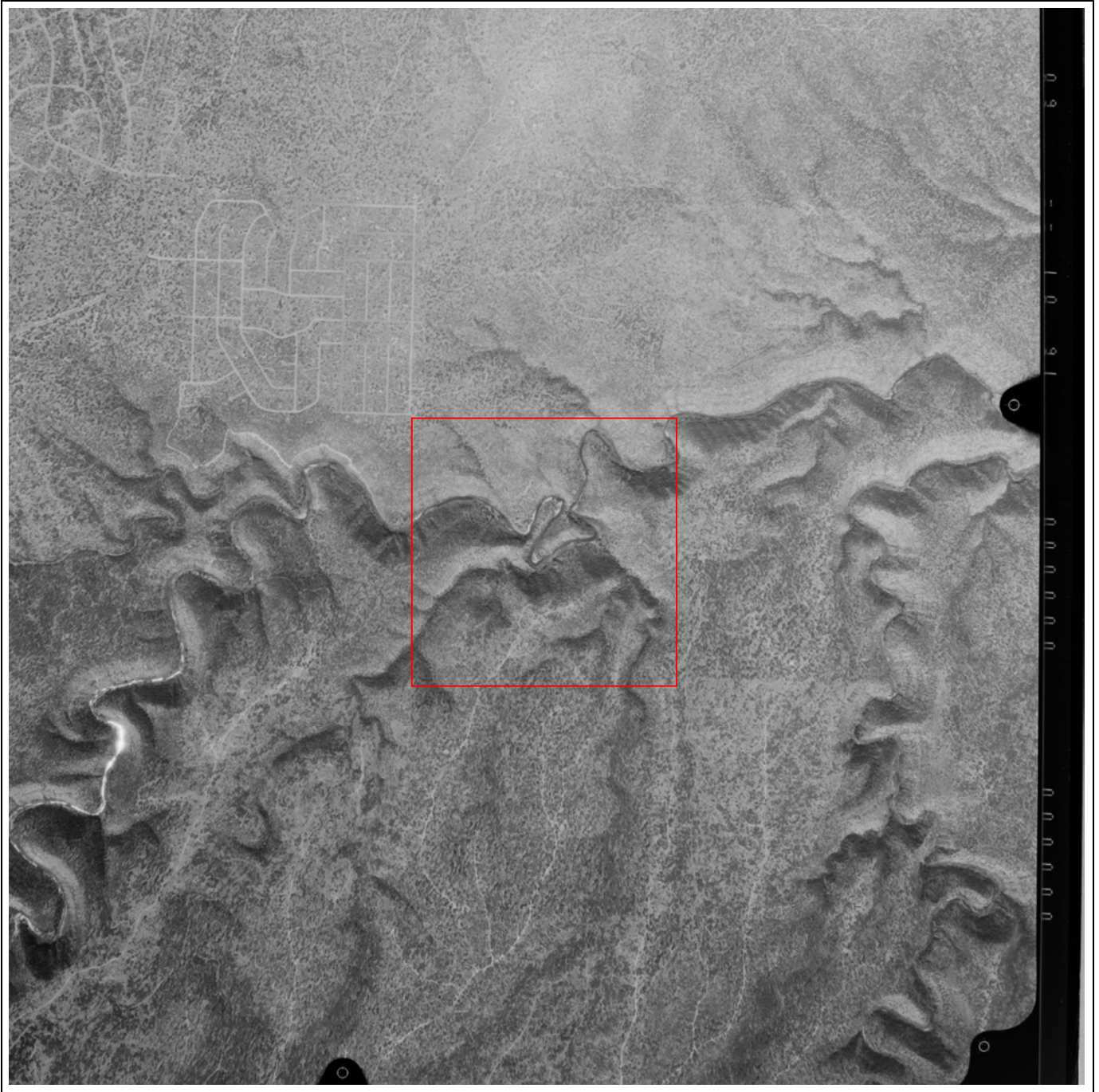


Historical Aerial Photo

Site:
East Clear Creek
Coconino County, AZ

1997



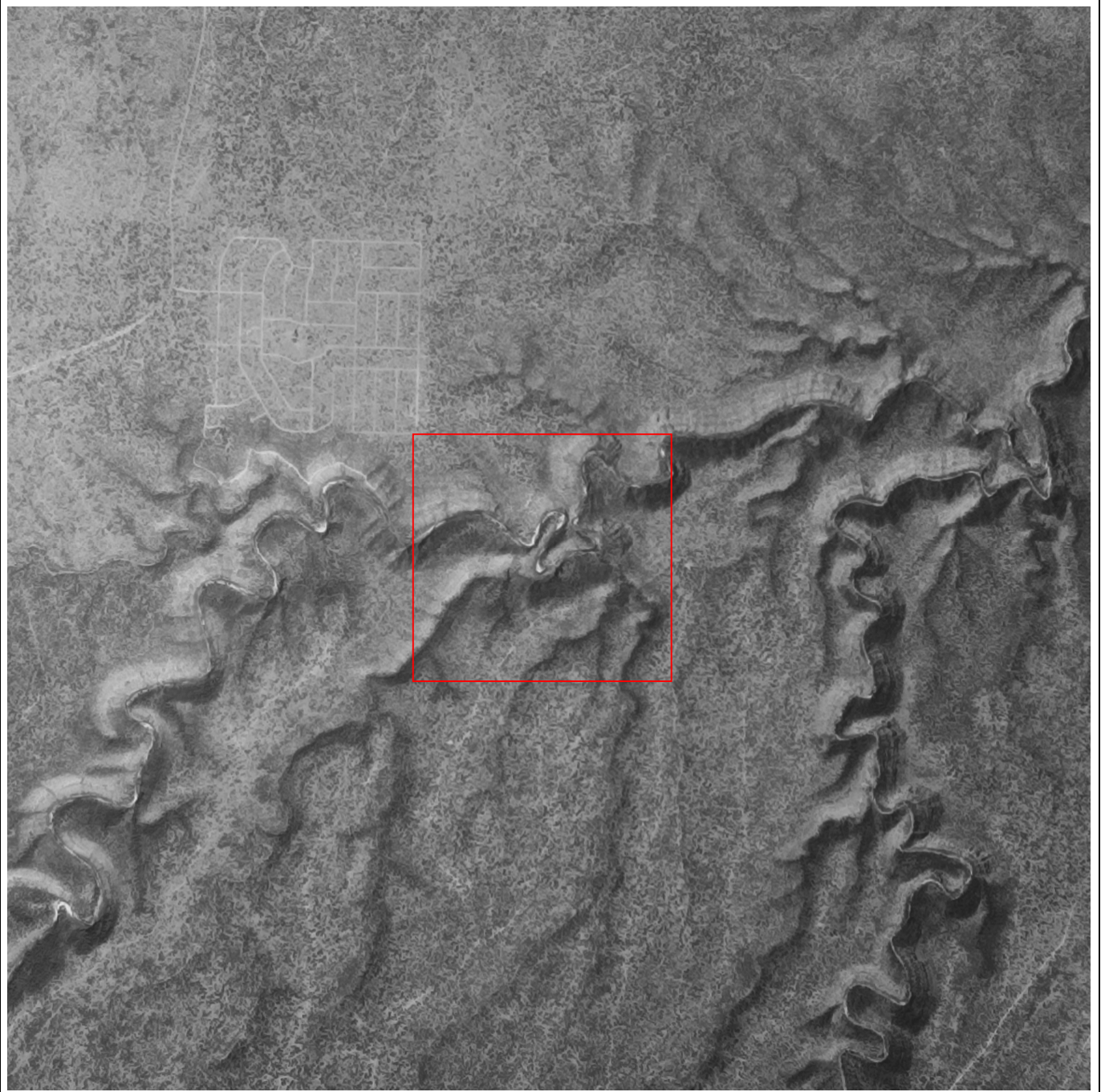


Historical Aerial Photo

Site:
East Clear Creek
Coconino County, AZ

1992



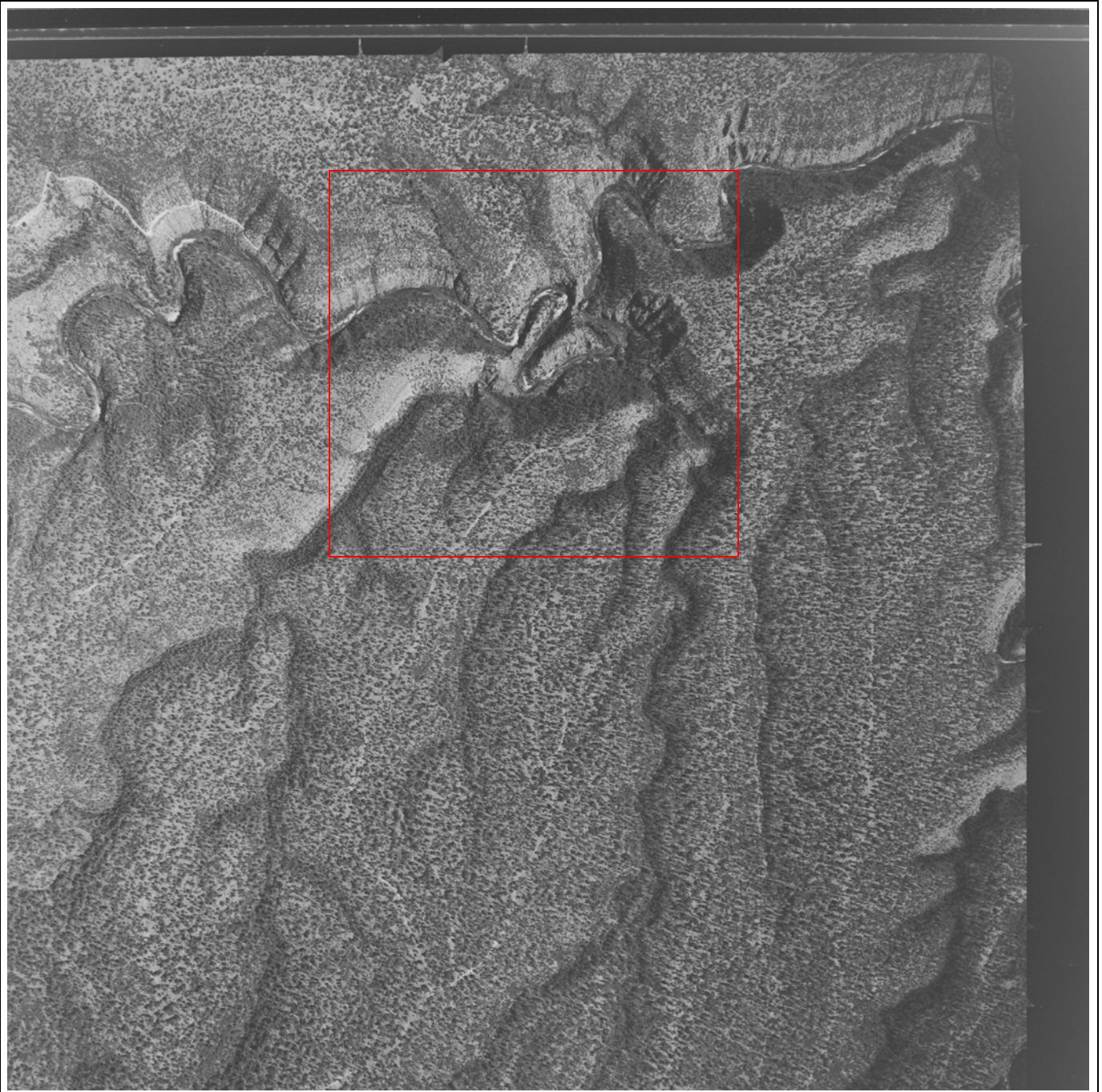


Historical Aerial Photo

Site:
East Clear Creek
Coconino County, AZ

1980



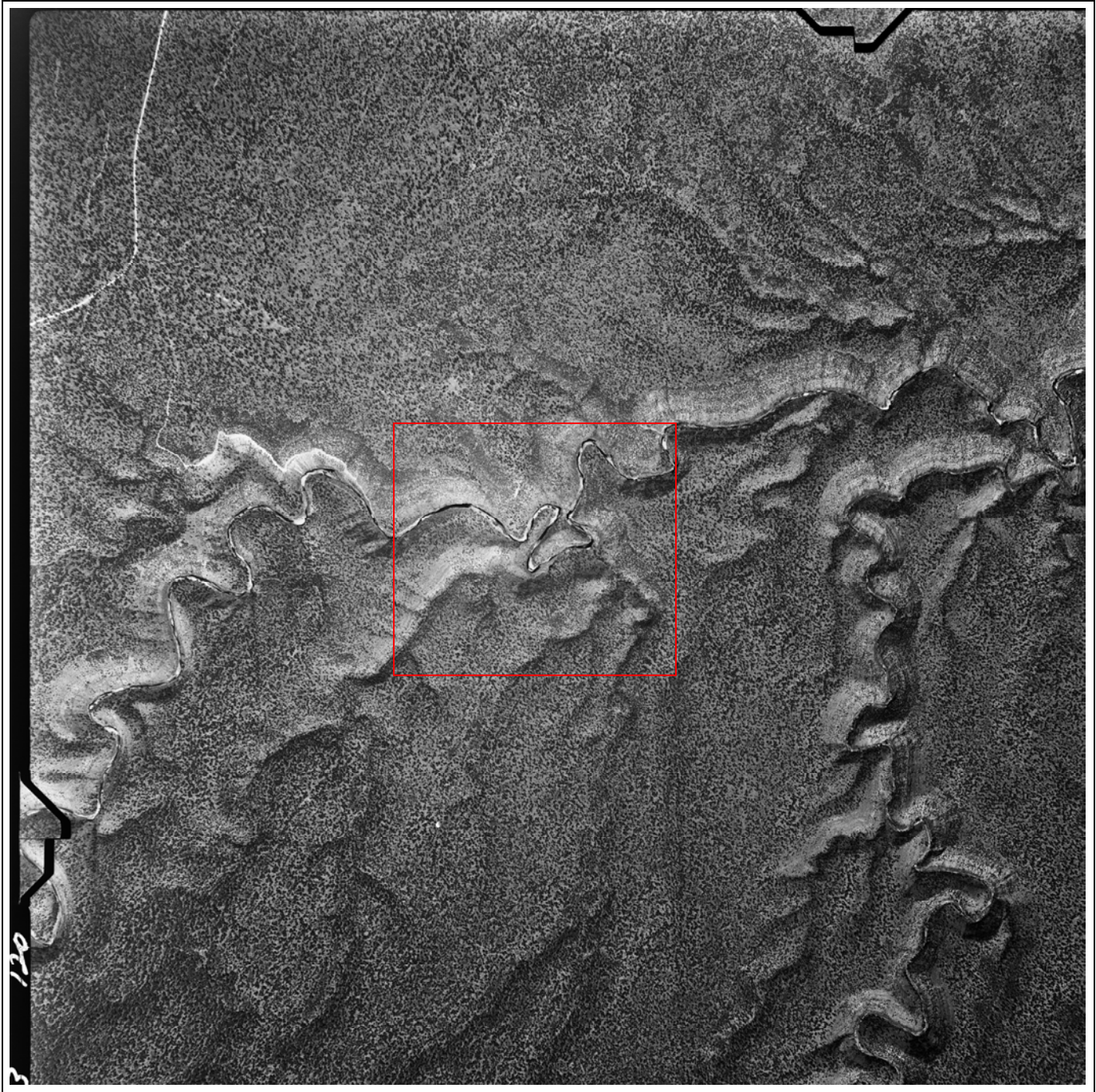


Historical Aerial Photo

Site:
East Clear Creek
Coconino County, AZ

1968





Historical Aerial Photo

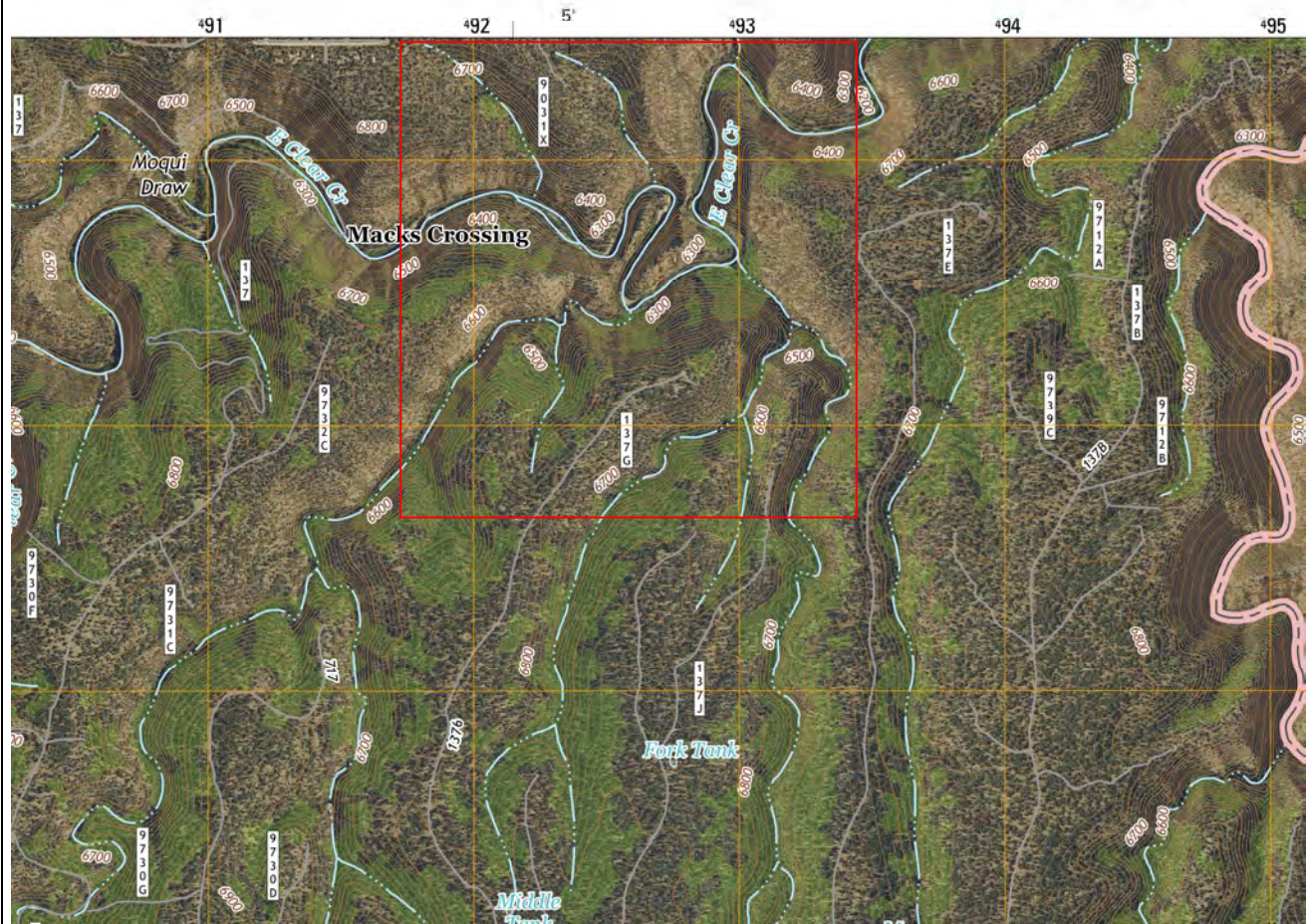
Site:
East Clear Creek
Coconino County, AZ

1953



ENT OF THE INTERIOR
OLOGICAL SURVEY

The National Map
US Topo

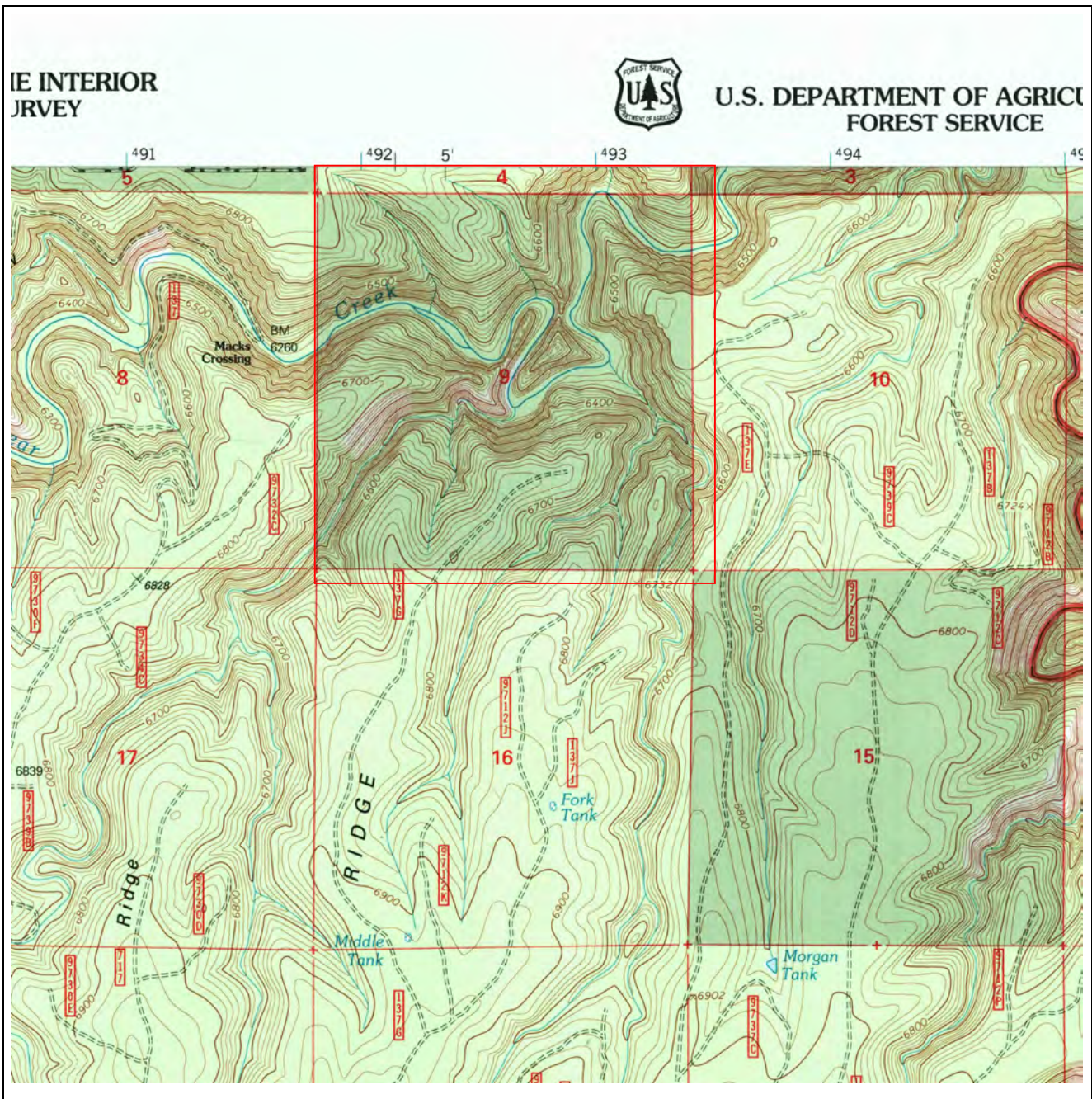


Historical Topographic Map

Site:
East Clear Creek
Coconino County, AZ

Date:	2014
Quad:	Leonard Canyon
Series:	7.5
Original Scale:	1:24,000
Contour Intervals:	20'

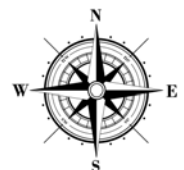


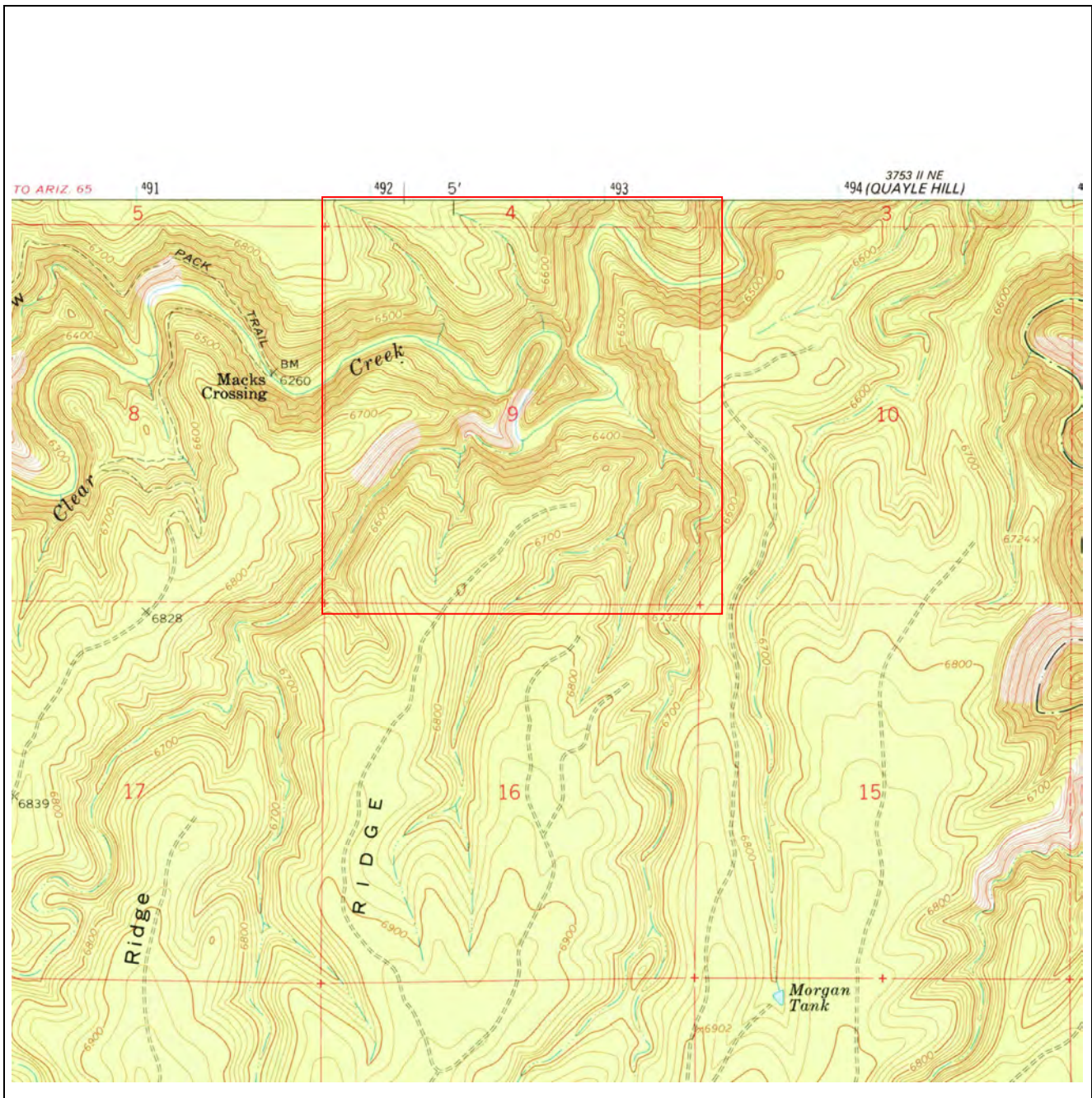


Historical Topographic Map

Site:
East Clear Creek
Coconino County, AZ

Date:	1998
Quad:	Leonard Canyon
Series:	7.5
Original Scale:	1:24,000
Contour Intervals:	20'





Historical Topographic Map

Site:
East Clear Creek
Coconino County, AZ

Date:	1965
Quad:	Leonard Canyon
Series:	7.5
Original Scale:	1:24,000
Contour Intervals:	20'



APPENDIX G

Coconino County Assessor's Property Deed Information

403-13-006E

Search Results

Parcel Details

Parcel 40313006E

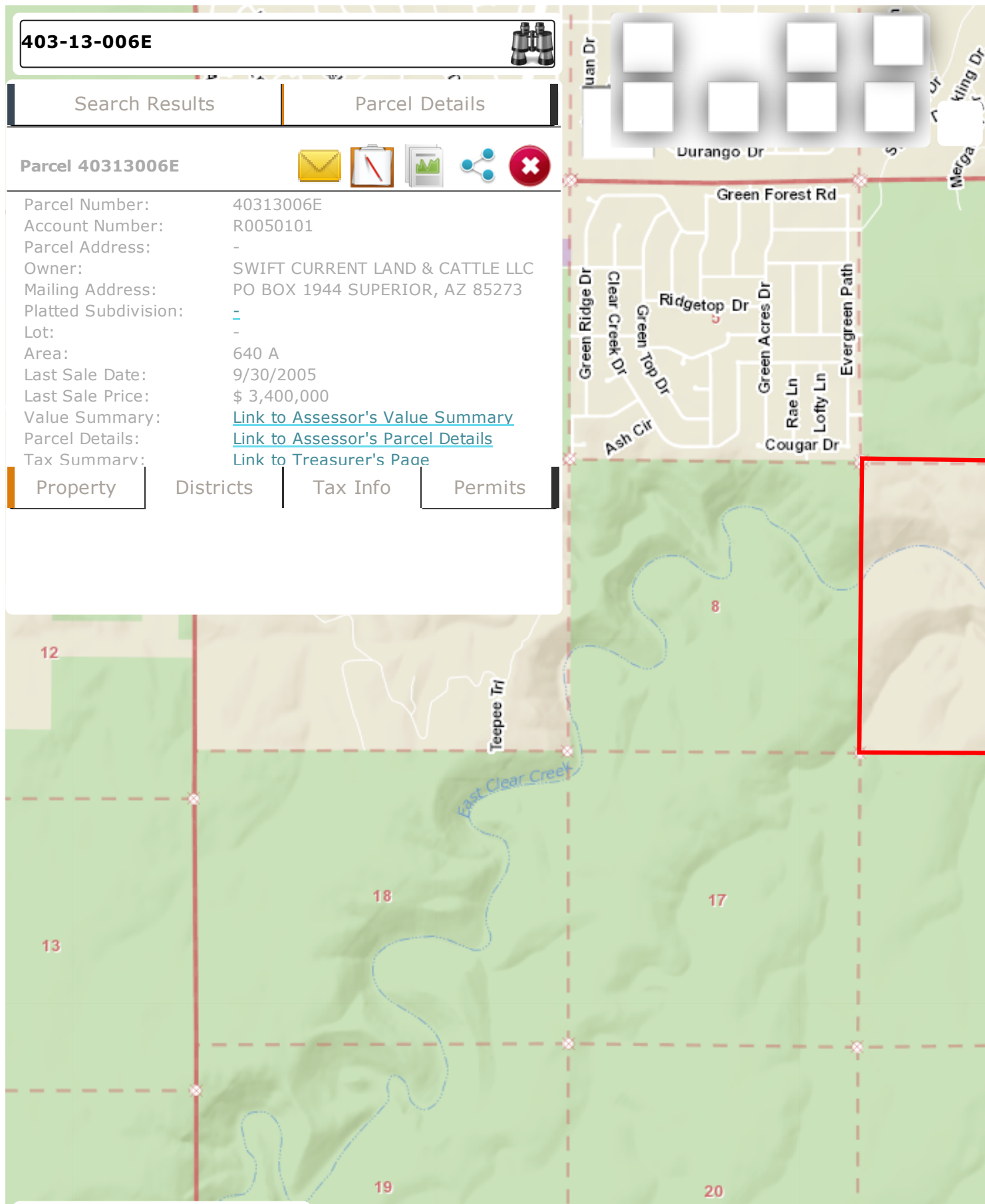
Parcel Number: 40313006E
Account Number: R0050101
Parcel Address: -
Owner: SWIFT CURRENT LAND & CATTLE LLC
Mailing Address: PO BOX 1944 SUPERIOR, AZ 85273
Platted Subdivision: -
Lot: -
Area: 640 A
Last Sale Date: 9/30/2005
Last Sale Price: \$ 3,400,000
Value Summary: [Link to Assessor's Value Summary](#)
Parcel Details: [Link to Assessor's Parcel Details](#)
Tax Summary: [Link to Treasurer's Page](#)

Property

Districts

Tax Info

Permits



Lat/Long: 34.6466/-111.1361

1 km

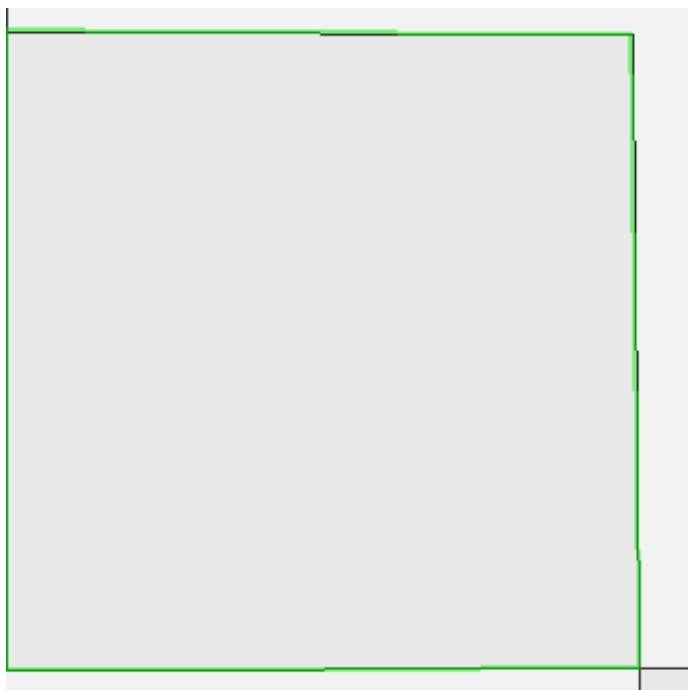
0.4mi

Account: R0050101Location**Situs Address****City** HAPPY JACK**Tax Area** 0500 - SD#5 ONLY**Parcel Number** 403-13-006-E**Legal Summary** Section: 09
Township: 14N Range: 12EOwner Information**Owner Name** SWIFT CURRENT LAND
& CATTLE LLC**In Care Of Name** ATTN F D HEGNER
CO OFFICER**Owner Address** PO BOX 1944
SUPERIOR, AZ 85273Assessment History**Full Cash Value (FCV)** \$928,224**Limited Property Value (LPV)** \$928,224**Primary Assessed** \$139,234**Secondary Assessed** \$139,234**Tax Area:** 0500 **Primary Rate:** 3.9435**Secondary Rate:** 1.1297

Legal Class	FCV	LPV	Primary Assessed	Secondary Assessed
02.R	\$928,224	\$928,224	\$139,234	\$139,234

Sale DateSale PriceDoc Description\$1,100,000DEED\$1,140,000DEED\$1,850,000DEED\$3,200,000DEEDImages

- [GIS](#)



Account: R0050101 Real Property Account

- [General](#)
- [Remarks](#)

Entry Date	Remark
-	7/02 2003 APPEAL - FCV REDUCED BASED ON AG STATUS. JAF 12/19/05 NOPC ISSUED FOR 2006. REMOVED AG STATUS. PARCEL SOLD. NO LONGER QUALIFIES. BJC 1/10/07,MG,PER ADDRESS CORRECTION FORM FROM TREAS.OFFICE,11/10/06, REQUESTED BY DAN MEAD 9/10 PER TYLER CONVERSION CHG USE CODE FROM 0004 TO 0014 FOR 2011-SS
05/14/2012	UPDATED LEGAL DESCRIPTION FIELDS AND VERIFIED DATA CONVERSION JP
04/02/2013	2014 APPEAL, FCV REDUCED, BIC

Office	Entry Date
ASSESSOR	
Remark	
7/02 2003 APPEAL - FCV REDUCED BASED ON AG STATUS. JAF 12/19/05 NOPC ISSUED FOR 2006. REMOVED AG STATUS. PARCEL SOLD. NO LONGER QUALIFIES. BJC 1/10/07,MG,PER ADDRESS CORRECTION FORM FROM TREAS.OFFICE,11/10/06, REQUESTED BY DAN MEAD 9/10 PER TYLER CONVERSION CHG USE CODE FROM 0004 TO 0014 FOR 2011-SS	

APPENDIX H

Résumés

Project Role and Responsibilities:

WestLand Resources, Inc., Principal QA/QC

Special Expertise:

- *Large Water System Master Planning*
- *Well Design and Permitting*
- *Environmental Site Assessments*
- *Reservoir Design and Analysis*
- *Arsenic Treatment Design*
- *Water System Modeling and Pipe Network Analysis*
- *Water Pumping Facility Design and Permitting*
- *Sewer Basin Studies*
- *Potable/Reclaimed Water Main Extensions*
- *Water and Wastewater Treatment Design*
- *Infrastructure Route Studies*
- *Potable/Reclaimed Water System Planning*
- *Sewer and Reclaimed Water System Master Planning*

Education:

- *M.B.A., University of Arizona*
- *B.S., Civil Engineering, University of Arizona*

Civil Engineering Registration:

- *Arizona #22999, 1989*
- *California #44219, 1989*
- *Nevada #09281, 1991*
- *New Mexico #14546, 1999*

Memberships:

- *Board Member - Citizen's Water Advisory Committee to the City of Tucson*
- *Finance Subcommittee Member - Citizen's Water Advisory Committee to the City of Tucson*

Background:

Mr. Taylor has over 25 years of experience in water resources wastewater engineering, and remediation systems including the design of systems for public works projects, master-planned communities, large commercial and retail centers, and the mining industry. He is responsible for the development of water system master plans; well, reservoir, booster station, and transmission main design; water treatment and arsenic treatment design; and the assessment of rates and development impact fees as well as wastewater master plan preparation, feasibility studies, system modeling and simulation, and capacity analyses; the design of wastewater treatment plants/disposal facilities, sewer infrastructure, lift stations and force mains, septic systems, and wetlands; and permit application, including aquifer protection permits, reclaimed water reuse permits, Arizona Pollutant Discharge Elimination System permits, recharge basin permits, and 208 plan amendments for private and municipal clients.

During the last 12 years, Mr. Taylor has served as Principal-in-Charge for WestLand's multi-disciplinary water and wastewater infrastructure projects, providing project management, design and technical supervision, project scheduling, and budget oversight. His plans and contract documents are technically accurate, buildable, and operationally efficient, leading to few, if any, change orders during construction.

Selected project experience includes:

Various Phase I Environmental Site Assessments. Performed and managed multiple Phase I Environmental Site Assessments at various locations in Arizona and acted as principal reviewer for technical reports. Experience includes site reconnaissance and characterization, environmental record sources review, personal interviews, and aerial photograph and topographical map interpretations. Elective sites generally exhibit little evidence of environmental liabilities with some wildcat dumping and numerous housekeeping issues of *de minimis* importance.

Tucson Water Dove Mountain 3.0-MG C-Zone Reservoir and D-Zone and E-Zone Booster Stations; Pima County, Arizona; Cottonwood Properties.

As part of Tucson Water's regional planning efforts, Mr. Taylor served as Project Manager for the design of water infrastructure in support of the Dove Mountain development and other properties located at the intersection of Tangerine and Thornydale Roads. Consulting services for the 3.0-MG cast-in-place, hopper-bottom, reinforced-concrete, in-ground reservoir and two onsite

booster stations included project management and coordination; surveying services; geotechnical investigation; corrosion monitoring design; structural engineering; civil engineering, site, and pipeline design; and landscape services. The new reservoir provides floating storage to the Tucson Water C-Zone and forebay storage capacity to both the onsite D- and E-Zone

Mark F. Taylor, P.E.

booster stations. Civil engineering services included plans, specifications, and construction drawings for the booster station design, booster station piping layout, hydropneumatic tank and air compressor, reservoir piping, and valve vault equipment layout. The project was constructed per Tucson Water standards.

Dove Mountain Reclaimed Water Master Plan; Pima County, Arizona; Cottonwood Properties; Principal-in-Charge of the preparation of the Dove Mountain Reclaimed Water Master Plan, an update to the Reclaimed Water Master Plan for the Tortolita Mountain Properties Basin that had been prepared for approximately 1,800 acres within the Dove Mountain community and included two golf courses. WestLand's revised master plan incorporated the entire 5,600-acre community with provisions for up to five 18-hole golf courses. The Dove Mountain project is served by Tucson Water's Thornydale reclaimed water reservoir and booster station. In accordance with Tucson Water's pressure and velocity requirements, WestLand performed hydraulic modeling for each of the various phasing scenarios to determine the best phasing of construction for the proposed reclaimed water system infrastructure buildout.

Sahuarita Water Company Arsenic Treatment Design; Sahuarita, Arizona; Sahuarita Water Company. Principal-in-Charge of water system planning and design for the Sahuarita Water Company's centralized arsenic treatment facility and transmission system. WestLand coordinated with Layne Christensen in the preparation of the design drawings for a new 2,000-gpm Layne Christensen Adsorption Arsenic Treatment facility, providing specifications for the facility, electrical and instrumentation systems, and piping layout and sizing. Deliverables included a treatment system option evaluation, design report, an opinion of probable construction cost, and final plans and specifications. The facility was designed to be expandable for future needs. WestLand also provided construction bidding services for this project.

Las Quintas Serenas Water Company Arsenic Treatment and Well Site Upgrades; Green Valley, Arizona; Las Quintas Serenas Water Company. Principal-in-Charge of the design of arsenic treatment and water plant upgrades for Well Nos. 6 and 7. These included an iron media adsorption arsenic treatment system, a 400,000-gallon storage tank, and a 1,250-gpm variable-frequency-drive (VFD) transfer booster station. A new 2,500-lineal foot, 8-inch dedicated transmission water main was designed to connect Well No. 7 to the Well No. 6 site. Raw water from either or both wells is treated through the arsenic system at the Well No. 6 site, sent to fill the new tank, and pumped via the transfer booster station into the distribution system. Services provided by WestLand included site layout and grading; site piping and valving layout and sizing; preparation of booster pump and motor design specifications; and hydropneumatic tank design and associated equipment. WestLand prepared the design report, final plans and specifications, and engineer's opinion of probable construction cost.

City of Nogales Arsenic Treatment; Nogales, Arizona; City of Nogales Utilities Department. Principal-in-Charge of the development of design criteria for arsenic treatment at the Meadow Hills Wells Nos. 1 and 3 and Coronado Well No. 1. The Meadow Hills wells pump directly into the water distribution system and fill the existing City of Nogales North Zone storage tank, while the Coronado well pumps to the existing High School storage tank located in the City of Nogales Downtown Pressure Zone. All three wells required arsenic treatment in order to meet the new EPA arsenic standard. Arsenic treatment consisted of a dual-vessel iron-media adsorption system located at each well site.

Northwest CAP Delivery System Preliminary Route Evaluation and Analysis; Northwestern Pima County; Northwest Water Providers. For over a decade, the Flowing Wells Irrigation District, Metropolitan Domestic Water Improvement District, Town of Marana, and Town of Oro Valley have worked collaboratively to develop a sustainable water supply for their customers. This effort has evolved over time to focus on the establishment of a water delivery system to deliver Central Arizona Project water to northwestern Pima County. As part of this effort, Mr. Taylor served as Principal-in-Charge of the

Mark F. Taylor, P.E.

development of a route analysis for the delivery system that would allow for the direct use of CAP water by each partner. The project consisted of three planning/engineering tasks: Task 1 – preliminary route evaluation, screening, and route evaluation matrix preparation; Task 2 – technical evaluation of alternative routes; and Task 3 – final route evaluation. Five potentially feasible routes were reviewed during the preliminary evaluation and screening process, two of which were identified for more detailed study.

Community Water Wells Nos. 10 and 11 Reservoir, Arsenic Treatment, Booster Station, and Transmission Main; Green Valley, Arizona; Community Water of Green Valley. Principal-in-Charge of the design of Community Water Well Nos. 10 and 11 sites, including arsenic treatment facilities, new 300,000-gallon forebay reservoirs, and booster pump stations. The new wells were designed to pump through a Layne Christensen coagulation filtration arsenic treatment process into onsite forebay reservoir. The reservoirs provide treated source water to booster stations that pump through dedicated well transmission mains to fill the Community Water Reservoirs No. 2 and No. 3. WestLand prepared the design report, final plans and specifications, and engineer's opinion of probable construction cost. Services provided by WestLand included site layout and grading; site piping and valving layout and sizing; preparation of well pump, column, and motor design specifications; and hydropneumatic tank design and associated equipment. In addition, several miles of 16-inch water main were designed to transport treated potable water to the Community Water reservoirs.

Oak Creek Water Company No. 1 Water System Master Plan; Sedona, Arizona; Oak Creek Water Company No. 1. Principal-in-Charge of the development of a master plan to address existing system deficiencies and future infrastructure requirements in support of a hook-up fee application with the Arizona Corporation Commission. As part of the preparation of the master plan, WestLand examined water source capacity and quality requirements, storage requirements, pressure requirements, fire flow requirements, water main requirements, land and easement requirements, and required system upgrades to serve proposed future development. WestLand prepared a master plan report and engineer's opinion of probable construction cost.

Red Rock Water Plant No. 1 Nitrate Treatment Plant; Pinal County, Arizona; Red Rock Utilities, LLC. Principal-in-Charge of the design of a nitrate treatment facility to mitigate the tested nitrate concentration of 10 to 12 parts per million at Water Plant No. 1. (The current primary maximum nitrate concentration limit is 10 ppm.) The treatment facility was installed at the discharge of the existing wellhead to treat half the full flow of 800 gpm to an approximate final mixed (half treated, half bypassed) nitrate concentration of 8 ppm. It consists of four steel filtration vessels that contain a chloride form of anion exchange resin media. Nitrate ions are exchanged onto the media releasing chloride ions resulting in a reduced concentration of nitrate in the treated water. The media is then backwashed with a sodium chloride brine solution to remove the nitrate ions and replace them with fresh chloride ions. The spent brine backwash water is sent to a holding tank for continuous low-flow disposal to the public sewer system. The treated water is sent to an existing onsite forebay reservoir.

Project Role and Responsibilities:

Environmental Planner/Project Manager

Special Expertise:

- *National Environmental Policy Act, Administrative Record*
- *Phase I and II Environmental Site Assessments, Preliminary Initial Site Assessments*
- *Clean Water Act*
- *Endangered Species Act*
- *Public Disclosure/Public Reports*

Education/Training:

- *MA, Land Use & Community Planning, with distinction, Northern Arizona University*
- *BSc, Regional Development, Cum Laude, University of Arizona*
- *ASTM Phase I and Phase II Environmental Site Assessments for Commercial Real Estate Workshop*
- *National Environmental Policy Act Compliance Workshop (EA/EIS)*
- *Mine Safety and Health Administration Certification*
- *90-hour Real Estate Pre-licensing*

Professional Affiliations:

- *American Planning Association*
- *ASTM Committee E50 on Environmental Assessment, Risk Management and Corrective Action*
- *International Right of Way Association*

Background:

Ms. Sandoval's experience with environmental law began in her coursework studies including Natural Resources History and Policy, Water Resources Policy and Law, Land Development Processes, and Field Studies in Environmental Geography. Prior to joining Westland, Ms. Sandoval gained experience working as an intern for the Arizona Department of Water Resources and then spent three years with a national homebuilder where she was responsible for assisting in due diligence research and land acquisitions and entitlement for master planned communities in southern Arizona. Since joining WestLand in 2007, she has provided regulatory compliance and permitting services related to land use and transportation planning, renewable energy, mining, and residential and commercial development.

Ms. Sandoval has assisted in the completion of numerous Phase I Environmental Site Assessments (ESAs) for various property types pursuant to ASTM standards E1527-05, E1527-13 and E2247-08. She has also completed Preliminary Initial Site Assessments (PISAs) for public roadway projects prepared in accordance with Arizona Department of Transportation/ Federal Highway Administration requirements and Environmental Assessment and Mitigation Reports (EAMRs). Ms. Sandoval has completed ASTM technical and professional training for Phase I and II ESAs. WestLand's ESA team routinely receives compliments from clients and regulators regarding our professionalism and the consistent quality of our work product. Upon request, ESAs address non-scope items classified as outside the standard practice, including potential asbestos-containing building materials, potential lead-based paint, health and safety concerns, and ecological resources.

Her experience with National Environmental Policy Act (NEPA) process and other federal environmental planning requirements includes resource studies, community development assessment, scoping and public participation, alternatives analyses, and keeping the administrative record. Ms. Sandoval has completed professional training workshops for writing Environmental Impact Statements, Environmental Assessments, and Finding of No Significant Impact documentation.

She has obtained CWA Section 404 and 401 permit authorizations including residential and commercial property development; linear transportation projects for railroad, roadway, and utility extensions; bank stabilization projects; mine expansions; emergency discharges; and hazardous and toxic waste cleanup. She has completed jurisdictional delineations (JDs), and secured regional general permits (RGPs), nationwide permits (NWP), and individual permits (IPs) from the U.S. Army Corps of Engineers.

Ms. Sandoval has assisted developers in meeting the requirements pertaining to City of Tucson environmental resource policies including floodplain, W.A.S.H. and E.R.Z. standards. She has worked with the City of Tucson Office of Conservation and Sustainable Development and managed the process for obtaining development standard modification requests, overlay zoning, and Stormwater Advisory Committee approvals.

She has provided environmental support for special zoning, including Conditional Use Permits for solar developments in Pima County inclusive of coordination with local environmental groups and the preparation of biological impact analyses, species surveys, and mitigation reports for impacts to protected species and habitat.

Diana Shiel Sandoval, MA

Selected Experience:

- Prepared numerous Phase I ESA reports for the Pima County Department of Environmental Quality also considering non-scope items, classified as outside the standard practice including: potential asbestos-containing building materials, potential lead-based paint, health and safety concerns, high-voltage power lines, and ecological resources.
- Completed several PISAs in anticipation of ADOT funding including the Town of Marana's project to improve Tangerine Road between Interstate-10 and La Canada, a project crossing into multiple jurisdictions including Pima County and the Town of Oro Valley; and the Town of Sahuarita's project replacing the Pima Mine Road bridge crossing over the Santa Cruz River.
- Completed Phase I Environmental Site Assessment and provided housekeeping recommendations including Spill Prevention, Control and Countermeasure (SPCC) Plan for confidential car-dealership and auto body repair shop in Tucson, Arizona.
- Managed environmental regulatory compliance for Tucson Electric Power transmission line project which will run approximately 41 linear miles in Pinal County (Pinal Central Substation to the Tortolita Substation). Assisted Tucson Electric Power in addressing National Environmental Policy Act, National Historic Preservation Act, Clean Water Act, Endangered Species Act, migratory bird protection, Arizona Pollutant Discharge Elimination System, State Native Plant Preservation and more. Coordinated with various federal entities and land management agencies to obtain all agreements, required permits and compliance documentation; the transmission line will cross privately-owned lands, lands owned by the State of Arizona and managed by the Arizona State Land Department (ASLD), federally owned lands managed by the Bureau of Reclamation (BOR) and the San Carlos Irrigation Project (SCIP), an agency of the Bureau of Indian Affairs (BIA). Ms. Shiel obtained an Approved Jurisdictional Determination from Army Corps of Engineers regarding the absence of jurisdictional waters for the project, documented that project was not likely to not adversely impact federally protected species, coordinated with Arizona Game and Fish Department to conduct surveys for candidate species in anticipation of potential federal listing, addressed plant salvage considerations for protected native species including vegetation clearing projections, and addressed state and federal archeological clearance requirements.
- Conducted special status species evaluation for confidential mining client encompassing approximately 100,000 acres (156 square miles) in Pima County. This evaluation considered species listed by the U.S. Fish and Wildlife Service under the Endangered Species Act and approximately 100 other species with potential to be listed in the future including species listed as Sensitive by the Bureau of Land Management (BLM), State of Arizona Species of Special Concern, Priority Vulnerable Species identified in the Sonoran Desert Conservation Plan website, and species identified by the International Union for Conservation of Nature and Natural Resources (IUCN) on the Red List of Threatened Species.
- Acted as Federal Emergency Management Agency's (FEMA) agent to consult with US Fish and Wildlife Service regarding potential impacts to lesser long-nosed bat for private development which needed a conditional letter of map revision (CLOMAR). Prepared biological evaluation, addressed US Fish and Wildlife Service comments, and managed federal agency's review of applicable records to obtain required clearances within the project's required development schedule.
- Acted as third party contractor to the Tonto National Forest maintaining the Resolution Pre-feasibility Activities Plan of Operations project file and prepared the administrative record. Managed Microsoft Access databases and indices of all project files; coordinated closely with interdisciplinary team to collect appropriate documentation for project decisions; identified records for redaction; and assisted in providing timely public comment and Freedom of Information Act (FOIA) responses.
- Assisted in obtaining Individual Section 404 permit authorization for Pima County Regional Flood Control District's bank stabilization project along the Pantano Wash between Speedway Boulevard and Tanque Verde Road. Work included preparation of the 404 and 401 applications, draft public notice, and 404(b)(1) Alternatives Analysis.
- Conducted riparian habitat assessment and completion of the Environmental Resource Report (ERR) for the El Rio Health Center Development in Tucson. The El Rio Health Center Development occurs along a W.A.S.H. designated watercourse. Ms. Shiel secured Development Services environmental policy approvals in compliance with Development Services Department (DSD) Full Notice Procedure (Chapter 23A-50 and 51) which required public coordination, overlay zone approval, and Stormwater Advisory Committee (SAC) authorization.
- Prepared Biological Impact Reports for Pima County Office of Sustainability & Conservation, addressed compliance with Maeveen Marie Behan Conservation Land System (MMB-CLS) and Regulated Riparian Habitat by preparing for on and offsite mitigation-conservation plans in collaboration with local, state, and federal agencies.

Project Role and Responsibilities:

Senior Project Manager

Special Expertise:

- Mining
- Water Resources
- Solid and Hazardous Wastes
- Environmental Site Assessments
- Manufacturing
- Oil and Gas
- Power
- Health and Safety

Education:

- M.A., *Environmental Policy and Management, University of Denver, Colorado, 1995*
- B.A., *Philosophy, Humboldt State University, California, 1980*

Affiliations:

- *Environmental Auditing Roundtable*
- *Southern Arizona Environmental Management Society*
- *Society of Mining Engineers, Tucson Chapter*

Background:

Mr. Rife is a Senior Project Manager in the Environmental Services Group. He specializes in regulatory compliance for environmental and engineering projects. Other areas of his expertise include water resources, mining, agriculture, environmental site assessment (ESA), underground storage tank (UST) investigations, solid and hazardous waste, and health and safety audit services. He has over 20 years of experience conducting ESAs and has been responsible for ESA projects for more than 350 broad-ranging sites, including public, private, and industrial properties; solid waste facilities; mines; and he has conducted pilot-scale testing of remedial systems. He has worked on environmental projects in the western United States and Mexico.

Selected Project Experience:

Confidential Site, Arizona. Conducted Phase I ESA of 3,500-acre site along a river bed in central Arizona. The work was conducted on behalf of a mining client in anticipation of a potential land exchange with federal agencies. The site included significant stands of undisturbed mesquite bosque and mesoriparian plants, with little evidence of environmental liabilities from limited agricultural activities historically performed on part of the property. Some wildcat dumping and numerous abandoned automobiles were observed; these were considered housekeeping issues of *de minimis* importance.

Confidential Residential Development Site; Tucson, Arizona. Managed biological assessment of 17-acre site southeast of the Tucson metropolitan

area. Previous consultants had not advised the developer of permitting and biological assessment regulatory requirements, resulting in violations of the federal Clean Water Act (CWA) and Endangered Species Act, as well as the Pima County Native Plant Preservation Ordinance. WestLand is currently completing the biological assessment and will assist the client in negotiating with regulatory agencies, especially in ESA Section 7 consultation.

Road Improvement and Park Development Site; Marana, Arizona. Task manager for CWA Section 404 permitting of road widening, drainage improvement, riverbank stabilization, and district park development for a community northwest of Tucson. Conducted a CWA Nationwide Permit applicability assessment and is currently performing an alternatives analysis. Future work will include public notification and preparation of the environmental assessment.

Prospective Municipal Solid Waste Landfill Site; Arizona. Project Manager for site investigation of a location in central Arizona for potential development as a municipal solid waste facility. The project included an engineering suitability evaluation, jurisdictional delineation of waters of the United States, and a biological evaluation of special-status species.

Silverbell UST/Leaking UST Site; Marana, Arizona. Managed closure project at site with 11 USTs. Three leaking USTs were identified during the tank removal activities. Appropriate reports were submitted to ADEQ and scoping of site characterization activities for the leaking UST sites was performed.

Confidential Hazardous Waste Site; United States. Principal internal reviewer of Phase I ESA reports for 60 hazardous waste collection sites, transfer facilities, incinerators, and landfills on behalf of client bidding to purchase portfolio. Included fast-track mobilization of field investigators from offices across the country; coordination of document review, reporting, and responding to client inquiries; and strict confidentiality protocols.

Project Role and Responsibilities:
Environmental Specialist

Training and Special Expertise:

- *Environmental Planning and Assessment*
- *Mine Safety and Health Administration Certifications*
- *Regulatory and Planning Research*

Education:

- *B.A., Environmental Studies and Business Economics, University of California, Santa Barbara*
- *Master of Environmental Science and Management (MESM), University of California, Santa Barbara*

Background:

Ms. Richman holds a Master of Environmental Science and Management specializing in pollution prevention and remediation and corporate management from the University of California, Santa Barbara. Ms. Richman's environmental consulting expertise includes permitting, technical studies, and environmental analyses for both private and public land development projects. During her tenure at WestLand Resources, Inc., (WestLand), Ms. Richman has worked on permitting for exploration drilling projects, biological resource reports, and Phase I Environmental Site Assessments (ESAs). She is proficient in project and task management and effectively communicates science and policy to a broad range of audiences.

She has assisted in the completion of several Phase I ESAs for various property types pursuant to E1527-13 and E2247-08. She has also assisted in the completion of Preliminary Initial Site Assessments (PISAs) for roadway projects. WestLand's ESA team routinely receives compliments from clients and regulators regarding our professionalism and the consistent quality of our work produce. Upon request, ESAs address non-scope items classified as outside the standard practice, including potential asbestos-containing building materials, potential lead-based paint, health and safety concerns, and ecological resources.

Ms. Richman has experience with both National Environmental Policy Act (NEPA) and California Environmental Quality Act (CEQA) processes and documentation. She has completed multiple Health Risk Assessments (HRAs) to analyze impacts of mobile and stationary sources of pollution on sensitive human populations. She has also completed technical studies, scoping and public participation, and noticing for multiple projects.

Past Experience:

- Coordination and support provided for confidential mine client including permitting support, biological resource documentation, and field coordination.
- Worked on the team completing the air quality and greenhouse gas emissions analysis for one segment of the California High Speed Rail CEQA/NEPA documentation.
- Provided project management and support services for noise, aesthetics, and air quality studies, as well as the Initial Study for commercial and residential development at a proposed Specific Plan site in Southern California.
- Completed multiple EAs for the City of Mesa's projects developing parks and low-income housing.
- Coordinated noticing, including newspaper publication, for multiple projects throughout California.
- Participated in numerous courses focused on remediation of pollution in the environment while earning Master's degree.