PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

Proposed Sun Streams 4, LLC Project
Arlington, Arizona 85322

October 30, 2018

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Our Ref.:
CO002047.0036
Date:
October 30, 2018

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ACRONYMS AND ABBREVIATIONS

ADEQ	Arizona Department of Environmental Quality
Arcadis	Arcadis U.S., Inc.
ASLD	Arizona State Land Department
AST	aboveground storage tank
ASTM	ASTM International
bgs	below ground surface
BMP	Baldwin Metals Processing
CFR	Code of Federal Regulations
CREC	controlled recognized environmental condition
EDR	Environmental Data Resources, Inc.
ESA	Environmental Site Assessment
HREC	historical recognized environmental condition
LUST	leaking underground storage tank
PCBs	polychlorinated biphenyls
REC	recognized environmental condition
U.S. EPA	United States Environmental Protection Agency
U.S.G.S.	United States Geological Service
UST	underground storage tank

EXECUTIVE SUMMARY

Arcadis U.S., Inc. (Arcadis) was retained by First Solar Development, LLC (Client) to conduct a Phase I Environmental Site Assessment (ESA) for approximately 1,122-acres of undeveloped desert land located west of Arlington in Maricopa County, Arizona (the Site). There is no physical address associated with the Site. The Site is located south of W. Elliot Road and west of Old U.S. Highway 80. The Site is owned by Arizona State Land Department.

As directed by First Solar, the Phase I ESA was performed in accordance with the ASTM International (ASTM) Standard E1527-13, Standard Practice for Environmental Site Assessments: *Phase I Environmental Site Assessment Process*. The goal of the Phase I ESA was to identify recognized environmental conditions (RECs), controlled recognized environmental conditions (CRECs), and historical recognized environmental conditions (HRECs) associated with the property in conformance with ASTM E1527-13.

The Phase I ESA included a visual inspection of the property completed on October 3, 2018; observation of adjacent properties; review of environmental regulatory agency records and historical documents; and interviews with personnel or representatives familiar with the Site as indicated elsewhere in the report.

The findings identified by Arcadis are summarized below and discussed in greater detail in the body of the report.

Historical Findings

Based on review of historical sources, the majority of the Site has historically been vacant desert land.

Baldwin Metals Processing, Inc. (BMP) operated on a small area in the northwest portion of the Site from 1981 to 1990. BMP used the site to process gallium arsenide.

From April 24, 1990 to August 15, 1990, solid and liquid wastes, sludges, soils, debris, and equipment were removed from the land occupied by BMP. More than 1,000 tons (estimated to be 1,272 cubic yards) of arsenic impacted soil and 31 drums of liquid waste were removed from the site. All material, with the exception of three pieces of equipment from the scandium processing area, was removed from the site, together with an estimated 730 tons of soil.

During the 1990 remedial investigation, post-removal residual arsenic concentrations in subsurface soil in the intensive use portion of the site were as follows: 1.7 to 16 milligrams per kilogram (mg/kg) in the Scandium Processing Area: 6.9 to 76 mg/kg in the Gallium Arsenide Processing Area; and 17 to 22 mg/kg in the vicinity of a removed septic tank and leach field. Additionally, 7,540 mg/kg arsenic was detected on the flooring surface of the abandoned operations building. Six background samples, recovered primarily west of the BMP lease boundary, contained between 4.0 and 10.0 mg/kg arsenic, with the median value of 6.7 mg/kg reported. The Arizona Department of Environmental Quality (ADEQ) concluded that the property had been "effectively remediated", having residual arsenic values below the suggested soil cleanup level of 100 mg/kg. The ADEQ issued a no further action letter for the site in 1991.

In May 1995, Groundwater Technology, Inc. (GTI) was retained by Arizona Department of Administration (ADOA) - Risk Management Section to conduct further investigation at the BMP site. The ADOA is the

State's insurer, and as such, were representing their client, Arizona State Land Department (ASLD), the owner of the Site. Both ADOA and ASLD had concerns that the property may not have been remediated to acceptable concentrations of arsenic in soil. GTI collected 16 near-surface soil samples at the BMP site. Laboratory analysis confirmed up to 19,000 mg/kg arsenic in the samples. GTI recommended further assessment within the former gallium arsenide and scandium process areas.

A follow-up investigation was performed by GTI during November 1995, which entailed the collection of 105 additional samples from 44 soil borings. Laboratory analysis confirmed up to 70 mg/kg arsenic in the samples. An average background value of 2.17 mg/kg was calculated. Two wipe samples collected from the interior concrete block wall (24 mg/kg) and concrete floor (520 mg/kg) of the former operations building confirmed arsenic contamination. GTI stated that the site had not been effectively remediated (1990 Suggested Soil Cleanup Level < 100 mg/kg) and site closure should not have occurred.

GTI submitted a "Summary and Recommendations" letter, dated March 29, 1996, which recommended installing a perimeter fence, using a preliminary remedial goal for arsenic of 2.17 mg/kg, preparing a corrective action workplan, and reviewing ADEQ's project files. No other work by GTI appears to have occurred after this date. In 1999, the ADEQ issued a letter to "Baldwin Metals File" stating no further action was required by ADEQ Water Quality Assurance Revolving Fund (WQARF) since the site and related contamination was under the jurisdiction of ADEQ Hazardous Waste Compliance Unit (HWCU).

In 2005, LFR Levine-Fricke (LFR) was retained by ADOA to recharacterize the site with greater precision after GTI's work characterizing the site in the mid-1990s. LFR conducted building materials sampling, analysis, building demolition activities, soil sampling, and 3-D subsurface modeling of the site. LFR collected a total of 61 soil samples for analysis of total arsenic concentration. This data along with previous data from GTI was used in 3-D subsurface modeling. LFR's sampling also revealed other areas of arsenic-impacted soil at the site; however, the modeling indicated that the original volume of soil estimated to require remediation, 34,600 cubic yards, was reduced to approximately 20,000 cubic yards. LFR provided remediation strategies to ASLD and ADOA and recommended that the "State proceed with solidification/stabilization technology to mitigate the arsenic concentrations present in soil at the site."

According to information provided by Mr. Erik Lohman, Loss Prevention Consultant with ADOA, "To the best of my knowledge, ITSI-Gilbane was then awarded the project to remediate the site after a competitive bidding process. In 2007, approximately 8,000 tons of soil were stabilized in-situ and then removed. A similar amount of certified clean backfill was imported, placed in the excavation area, and then compacted. We made the decision to halt excavation when the results of confirmation sampling showed random pockets of arsenic in the 15-21 mg/kg range found approximately 10 - 17 feet below the surface. Essentially, we determined that the cost to pursue further excavation greatly outweighed the benefit, especially given the remote location of the site and lack of sensitive receptors in the surrounding area. The highest concentration of arsenic in the post-remediation sampling was 21 mg/kg at a depth of 13 feet below the surface."

Since BMP is not an active case with a State agency, remediation has been completed to the satisfaction of ADOA and ASLD, and residual concentrations of arsenic at depth are fairly low in comparison to background concentrations, it does not appear that the former BMP facility represents a current environmental concern for the Site as long as future development activities do not involve excavation of soil beyond 10 feet in this area of the Site.

On-Site Findings

The Site is mainly undeveloped and consists of desert terrain with exposed surface soil, weathered stones and rocks, and desert vegetation.

Signage along Narramore Road in the northern portion of the Site identified the location of a buried fiber optic cable line.

Signage along the Southern Pacific railroad track easement in the northern portion of the Site identified the location of a buried gas pipeline.

An overhead powerline easement is present along the south side of Narramore Road in the northern portion of the Site

Aged barbed wire and wood fencing is present in areas throughout the Site.

Unpaved roads and trails are present throughout the east portions of the Site. The trails provide access to numerous unauthorized dump sites. The debris in the dump areas consists of household trash and building materials. All of the dump areas and items appeared to be in weathered and aged condition and partially to fully buried in blowing sand. Items observed in the debris piles consisted of vehicle tires, roofing material, Transite asbestos panels, cans, bottles, ceramics, clothing, toys, furniture, appliances, scrap wood and concrete, and fencings. All of the debris was observed to be in significantly damaged condition. With the exception of possible asbestos containing material and lead-based paint, no hazardous materials were observed in the debris piles.

The area of the former Baldwin Metals Processing facility was cleared of all structures and debris. Only one small pile of broken concrete wall was present in the southern portion of the former facility.

Regulatory Findings

An environmental database report prepared by Environmental Data Resources, Inc. (EDR) was reviewed for local, state, and federal listings for the Site and properties within the site vicinity. Regulatory database lists were reviewed for cases pertaining to leaking underground storage tanks (USTs) and aboveground storage tanks (ASTs), hazardous waste sites, and abandoned sites within the specified radii of standards established by ASTM guidelines.

Former Baldwin Metals Processing Facility is listed in the EMAP, RCRA-NLR, FINDS, ECHO, and Manifest databases. The facility is listed with an address of 355th Avenue and Southern Pacific Railroad. The facility is listed as a large quantity generator of arsenic in 2005 and 2007. This generation is likely due to the remediation of the site during that timeframe.

According to EDR's report, several properties were identified within the ASTM search radius. However, based on their listing for tracking purposes only, distance from the Site, hydraulic location with respect to groundwater flow, regulatory oversight, and/or case closure, these off-site properties are unlikely to represent a concern of environmental impairment or a vapor encroachment condition to the Site.

Conclusions

Arcadis has performed a Phase I ESA of the Site in conformance with the scope and limitations of ASTM Practice E1527-13 for Phase I ESAs. This assessment has revealed evidence of one REC at the Site, as follows:

- The unauthorized dump sites with asbestos containing material and potential lead-based paint materials are considered a REC. Arcadis recommends that this material be managed in accordance with State regulations for transport and disposal of hazardous materials.

The following *de minimis* conditions were identified in connection with the Site:

- Large areas of non-hazardous debris should be removed from the Site.

- There will likely be building setback requirements in connection with the buried gas pipeline that traverses the Site.

1 INTRODUCTION

Arcadis U.S., Inc. (Arcadis) was retained by First Solar Development, LLC (First Solar) to conduct a Phase I Environmental Site Assessment (ESA) for approximately 1,122-acres of undeveloped desert land located west of Arlington in Maricopa County, Arizona (the Site). There is no physical address associated with the Site. The Site is located south of W. Elliot Road and west of Old U.S. Highway 80. The Site is owned by Arizona State Land Department.

1.1 Purpose

Arcadis understands that the purpose for conducting this Phase I ESA is to assess and document the current status of environmental conditions at the Site.

1.2 Detailed Scope of Services

As directed by First Solar, the Phase I ESA was conducted in accordance with the ASTM International (ASTM) E1527-13 Standard Practice for Site Assessments: Phase I Environmental Site Assessment Process. The goal of the Phase I ESA was to identify RECs, CRECs, and HRECs associated with the property in conformance with ASTM E1527-13.

A REC is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: 1) due to release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment. *De minimis* conditions are not RECs.

A CREC is defined as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority and that subjects the property to activity and/or use limitations.

A HREC is defined as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed in a manner accepted by the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent), without subjecting the property to any activity and use limitations.

The ASTM practice requires environmental professionals to identify data gaps following reasonable inquiry of site and First Solar personnel and Arcadis' search for "reasonably ascertainable" resources. ASTM E1527-13 defines a data gap as "a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information."

Arcadis' scope of work included:

- On-site inspection of the Site to identify environmental conditions issues as defined above;
- Review of available environmental documents for the Site, including previous site assessments and investigations;
- Interviews with persons represented to be familiar with the operation and history of the Site;

- Review of property history through interviews, aerial photographs, on-line planning portals, and historical mapping (as available);
- Observation of adjacent properties and the local area to evaluate the potential for adverse environmental impact to the Site; and
- Contracting of Environmental Data Resources, Inc. (EDR) to identify sites of concern as required in the regulatory records review section of the ASTM practice for a Phase I ESA.

The Phase I ESA did not include the collection or analysis of soil, air, water, groundwater, transformer/ electrical fluids, hazardous building materials, or other samples, nor did it include a title search or search for environmental liens. This ESA did not include an assessment of the environmental (or health and safety) compliance status of the site operations.

1.3 Significant Assumptions

Arcadis has assumed that the information sources used for this assessment provided accurate information. Evaluations presented in this report are based exclusively on information provided by First Solar and site personnel and observations made during the site visit. No invasive field activities were conducted and no laboratory analyses were performed.

The boundaries of the Site were described in documents provided by First Solar and by interviews with site representatives. Arcadis assumed this information was accurate.

1.4 Limitations and Exceptions

The services performed and any opinions expressed by Arcadis in this report are based upon the limits of the assessment described herein. Arcadis has relied upon the accuracy of documents, information, data, and other materials provided or made available by First Solar and others. Arcadis has not independently verified such information and assumes no liability for the accuracy or completeness of such information. Arcadis makes no guarantee that site conditions do not exist, or will not exist in the future, that were undetected or that could lead to liability in connection with the Site. Similarly, past and present activities on the Site indicating the potential for the existence of environmental concerns may not have been discovered by Arcadis. Such activities may include those that would indicate the potential for regulated hazardous substances at the Site. Likewise, site conditions or site activities that were outside the scope of the services described above, or changes to site conditions or regulatory requirements may lead to liabilities in connection with the Site that are not identified in this report. Arcadis has reviewed the information obtained in connection with the performance of the services described above, in keeping with existing applicable environmental consulting standards and enforcement practices, but cannot predict what actions any given agency may take or what standards and practices may apply in the future.

Where access to portions of the Site or to structures on the Site was unavailable or limited, Arcadis renders no opinion and accepts no responsibility for assessment of the condition of these portions of the Site, including specifically, but not limited to, the presence of hazardous substances or petroleum products at these locations. In addition, Arcadis renders no opinion concerning the presence or absence of hazardous substances or petroleum products where direct observation of any part of the Site, or structure on the Site, is limited by physical obstructions.

The conclusions and observations are based upon limited data and professional opinions, and the assessment is performed on a particular date. Site conditions and activities may change after that date. Therefore, the risk of undiscovered environmental impairment of the Site cannot be ruled out. Arcadis does not make any representations or warranties regarding the condition or value of the Site, regardless of the results of the assessment presented in this report.

Arcadis makes no guarantees, certifications, warranties, or representations of any kind whatsoever, whether expressed or implied, regarding this Phase I ESA, the condition of the Site, or the liabilities associated with the Site.

1.5 Special Terms and Conditions

No special terms and conditions were imposed on this Phase I ESA.

1.6 Reliance

It is understood that this report will be prepared for the sole use of First Solar and Arizona State Land Department, and the contents thereof may not be used or relied upon by any other person without the express written consent and authorization of Arcadis. Use of this report by any other party shall be at such party's sole risk and liability.

1.7 Deviations

No deviations from the referenced ASTM Standard occurred.

1.8 Additional Services

No additional services beyond those outlined in ASTM E1527-13 were conducted as part of the assessment.

2 SITE LOCATION / LAND USE

2.1 Site Location

The approximate 1,122-acre site is located west of the city of Arlington and Old U.S. Highway 80 in unincorporated Maricopa County, Arizona. W. Elliot Road borders the north end of the Site. The northern portion of the Site is bisected by 355th Avenue, Narramore Road, Southern Pacific Trail, and a railroad track easement. The Site is located approximately 8.25-miles south of the 10 Freeway at its closest point. The Site Location Map and Site Plan are presented as **Figures 1 and 2**.

2.2 Site and Vicinity Characteristics

The Site is irregular in shape and varies in topography from relatively flat in the north to undulating in the south. The Site terrain consists of exposed surface soil, weathered stones, and desert vegetation. The Site is approximately 4.0-miles long at its longest point and 1.0-mile wide at its widest point. The site vicinity is comprised of residential properties, agricultural land, a solar farm, and undeveloped desert land.

Photographs of the Site and surrounding areas were taken to document current conditions and are included in **Appendix A**.

2.3 Current Use of the Property

There are no current uses of the Site. The property is owned by one landowner, as follows:

Owner	Assessor's Parcel Numbers (APNs)
Arizona State Land Department	401-38-009 and 401-38-010 The majority of the Site has not been issued APNs.

2.4 Description of Structures, Roads, and Other Improvements on the Site

The Site is mainly undeveloped and consists of desert terrain with exposed surface soil, weathered stones and rocks, and desert vegetation.

Narramore Road, S. 355th Avenue, Southern Pacific Trail, and Sothern Pacific railroad tracks bisect the north end of the Site. An overhead powerline easement is located at the north end of the Site, south of Narramore Road. Signage for a buried fiber optic cable is present along Narramore Road and a buried gas pipeline is present along the north side of the railroad track easement. A buried water pipeline is present along W. Elliot Road directly north of the Site.

Portions of the Site are bound by wood post and barbed wire fencing. Unpaved trails are present throughout the eastern portion of the Site.

2.5 Current Uses of the Adjoining Properties

Land use surrounding the Site predominately consists of undeveloped land. The adjoining properties and land uses include:

- North: W. Elliot Road followed by scattered rural residential properties.
- East: Undeveloped desert land followed by Old U.S. Highway 80
- South: Undeveloped desert land and a wash.
- West: Undeveloped desert land. A solar farm abuts the southern end of the western site boundary.

Based on visual observations, current activities at the adjacent properties do not appear to be of environmental concern to the Site.

3 USER-PROVIDED INFORMATION

An ASTM Questionnaire was completed for the Site by Mr. Ray Moore with Arizona State Land Department, owner of the Site. The questionnaire was complete in January 2018, when the boundary of the Site was slightly different. However, Mr. Moore stated that his responses on the questionnaire would be the same for the new Site boundary as they were for the initial boundary. See **Appendix B** for a copy of the questionnaire.

3.1 Environmental Liens

According to Mr. Moore, there are no environmental cleanup liens filed or recorded against the Site under federal, tribal, state, or local law. In addition, an Environmental Lien and AUL Search report obtained from EDR did not identify environmental liens recorded for the Site (see **Appendix B** for a copy of the report).

3.2 Activity and Use Limitations

According to Mr. Moore, there are no activity and use limitations (AULs), such as engineering controls, land use restrictions or institutional controls, that are in place at the Site and/or have been filed or recorded in a registry under federal, tribal, state, or local law. In addition, the Environmental Lien and AUL Search report obtained from EDR did not identify AULs recorded for the Site.

3.3 Specialized Knowledge

Mr. Moore stated that he did not have specialized knowledge of the Site.

3.4 Commonly Known or Reasonably Ascertainable Information

Mr. Moore was not aware of:

- Past uses of the Site;
- Specific chemicals that once were present at the Site;
- Spills or other chemical releases that may have taken place at the Site; or
- Environmental cleanups that may have taken place at the Site.

Mr. Bruce Campbell with Arizona State Land Department provided information on an environmental cleanup that occurred onsite; see Section 5.1.1.

3.5 Obvious Contamination Presence or Likely Presence

According to Mr. Moore, there are no obvious indicators that point to the presence or likely presence of contamination at the Site.

3.6 Owner, Property Manager, and Occupant Information

The Site is owned and managed by one landowner as identified in Section 2.3 of this report. There are no site occupants.

3.7 Reason for Performing Phase I ESA

The reason for performing the Phase I ESA was to evaluate current environmental conditions at the Site.

4 SITE HISTORY

Historical information obtained by Arcadis from EDR during this Phase I ESA is summarized in **Table 1**.

Table 1 Historical Information Reviewed

Source	Date	Information Obtained
Sanborn® Fire Insurance Maps	Not Applicable	Sanborn Fire Insurance Maps were not produced for rural, undeveloped areas.
Topographic Maps (copies provided in **Appendix C**)	1962, 1981, 1984, and 2014	Due to the length of the Site, two sets of topographic maps were obtained. On the 1962 maps, the Site is generally undeveloped land. A Southern Pacific railroad track easement, 355th Avenue, Narramore Road, and Southern Pacific Trail bisect the northern portion of the Site. Unpaved trails bisect the central-southern portion of the Site. Highway 80 is depicted east of the Site. The Hassayampa Cotton Gin is depicted east of the Site. Minimal changes to the Site and surrounding area are shown on the 1981 map. Unpaved roads are depicted in the central and southern portions of the Site. The 1984 map is similar to the 1981 map although the scale is larger. The 2014 map depicts seasonal streams bisecting the central portion of the Site.

Source	Date	Information Obtained
Aerial Photographs (copies provided in **Appendix C**)	1953, 1970, 1981, 1996, 2003, 2007, 2012, and 2017	The 1953 photograph shows the Site as mostly undeveloped desert terrain with natural vegetation and seasonal washes bisecting the central portion of the Site. An unpaved road bisects the central portion of the Site in a north to south direction. Narramore Road is shown in its existing location as an unpaved road. The existing railroad track easement bisects the northern portion of the Site. Undeveloped desert land surrounds the Site. Old Highway 80 is east-southeast of the Site. Agricultural land is adjacent west of the southern end of the Site. The 1970 photograph shows the Site and surrounding area as similar to the 1953 photograph. Narramore Road has been paved east of the Site. The 1981 photograph shows the Site and surrounding area as similar to the 1970 photograph; however, 355th Avenue is present in its existing location. The 1996 and 2003 photographs show the Site and surrounding area as similar to the 1981 photograph. A small structure and cleared area are present in the northern portion of the Site, south of the railroad tracks. This is likely the former Baldwin Metals facility that is described in Section 5.1.1. The 2007 through 2017 photographs show the Site and surrounding properties similar to the present time. The former Baldwin Metals property has been cleared from the Site. The historical Baldwin Metals facility is considered a REC for the Site.

4.1 Previous Environmental Investigations

Arcadis was not provided with prior environmental reports for the Site. However, prior environmental reports for the Baldwin Metals facility were reviewed during agency research (see Section 5.1.1).

5 RECORDS REVIEW

As part of this assessment, Arcadis reviewed regulatory databases and available agency files and records for the Site. Information from these sources is discussed in the following sections.

5.1 Regulatory Database Research

An environmental database report prepared by EDR was reviewed for local, state, and federal listings for properties within the site area. Included in EDR's report are regulatory databases reviewed by EDR for cases pertaining to leaking underground storage tanks (USTs) and aboveground storage tanks (ASTs), hazardous waste sites, and abandoned sites within the ASTM-specified radii **(Table 2)**. EDR also reviewed selected databases generated by the United States Environmental Protection Agency (U.S. EPA). Explanations of the regulatory agency databases reviewed are presented in EDR's report, which is included as **Appendix D**. Due to the length of the Site, two EDR environmental database reports were obtained.

It should be noted that the computerized geocoding technology used in the database search is based on available census data and is only accurate to approximately ±300 feet. Also, elevations were determined from the U.S. Geological Survey Digital Elevation Model and are relative (not absolute). Sites with an elevation equal to or higher than the target property have been differentiated from sites with an elevation lower than the target property.

Sites identified within the study radii were evaluated to determine if they are likely to have adversely impacted the Site. The criteria used to evaluate the potential for adverse impact to the Site include:

- Distance from the Site;
- Expected depth and direction of groundwater and surface water flow;
- Expected storm water flow direction; and
- Presence/absence of documented contaminant releases at the identified sites not identified as remediated.

Table 2 Regulatory Agency Databases / Lists Reviewed

Search Radius	Agency	Database	Type of Records in Database
1 mile	U.S. EPA	NPL	Sites designated for Superfund cleanup by the U.S. EPA
	U.S. EPA	CORRACTS	RCRA facilities undergoing "corrective actions"
0.5 mile	U.S. EPA	SEMS	Sites under review by the U.S. EPA
	U.S. EPA	TSD	Facilities that treat, store, and/or dispose of hazardous waste
	ADEQ	LUST	State and tribal leaking storage tank lists

Search Radius	Agency	Database	Type of Records in Database
	U.S. EPA	SEMS - Archive	Former CERCLIS sites with no further remedial actions planned.
Site or Adjacent Properties	U.S. EPA	RCRA Generator	Sites that generate large or small quantities of hazardous waste
	U.S. EPA	ERNS	Sites with reported accidental releases of oil and hazardous substances
Site or Adjacent Properties	ADEQ	UST	Sites with permitted USTs

Notes:

CERCLIS = Comprehensive Environmental Response Compensation and Liability Information System

CORRACTS = Corrective Action Report

ERNS = Emergency Response Notification System

LUST = Leaking Underground Storage Tank

NFRAP = No Further Remedial Action Planned

NPL= National Priorities List

SWLF = Solid Waste Landfills

TSD = Transfer, Storage and Disposal

WMUDS = Waste Management Unit Database

ADEQ = Arizona Department of Environmental Quality

SEMS = Superfund Environmental Management System

5.1.1 Site

According to EDR's report, one of the listed properties is located within the boundaries of the Site, as follows:

Former Baldwin Metals Processing Facility is listed in the EMAP, RCRA-NonGen/NLR, FINDS, ECHO, Manifest, SHWS (last updated 2000), and RGA HWS (archived records) databases. This facility is listed with an address of 355th Avenue and Southern Pacific Railroad, which is located at the north end of the Site near the western boundary. The facility is listed as a metal fabricator and a large quantity generator of arsenic in 2005 and 2007. No other specific information is provided in the databases. This facility was not observed during the Site reconnaissance.

Arcadis contacted Mr. Bruce Campbell, Environmental Program Specialist with ASLD. Mr. Campbell stated that he believed the entity that leased the land discontinued operations prior to 2001 although the building(s) remained onsite for several years after that. He stated that BMP produced gallium arsenide, which according to the Internet, is used in the manufacture of devices such as microwave frequency integrated circuits, monolithic microwave integrated circuits, infrared light-emitting diodes, laser diodes, solar cells, and optical windows. Reportedly, the toxicity of gallium arsenide is not well understood. However, it would be the source of arsenic present in the soil at the former facility.

Records for the former Baldwin Metals Processing facility were reviewed from the ADEQ and the ASLD. BMP operated on Arizona State Trust Land under commercial lease 03-084628 from 1981 to 1990. BMP notified ADEQ in 1982 that they intended to construct a gallium arsenide processing facility. The process system was reportedly closed loop with no arsenic removed except as product. However, an ADEQ hazardous waste compliance report dated October 19, 1990 stated the facility violated the Arizona Waste

Management Act through unauthorized releases of arsenic-bearing compounds between 1982 and April 1990. Lonza, Inc. was one of the primary transporters of waste from the Site. In an agreement with ADEQ, Lonza conducted the initial cleanup activities in 1990. Lonza contracted with Chemical Waste Management Inc. (CWM) for the cleanup.

Work began on the project on April 24, 1990 and was completed on August 15, 1990. CWM conducted all removal, transportation and disposal of solid and liquid wastes, sludges, soils, debris, dust, and equipment. More than 1,000 tons (estimated to be 1,272 cubic yards) of arsenic impacted soil and 31 drums of liquid waste were removed from the site. All material, with the exception of three pieces of equipment from the scandium processing area, was removed from the site, together with an estimated 730 tons of soil.

During the 1990 remedial investigation, post-removal residual arsenic levels in subsurface soil in the intensive use portion of the site were as follows: 1.7 to 16 milligrams per kilogram (mg/kg) in the Scandium Processing Area: 6.9 to 76 mg/kg in the Gallium Arsenide Processing Area; and 17 to 22 mg/kg in the vicinity of a removed septic tank and leach field. Additionally, 7,540 mg/kg arsenic was detected on the flooring surface of the abandoned operations building. Six background samples, recovered primarily west of the lease boundary, contained between 4.0 and 10.0 mg/kg arsenic, with the median value of 6.7 mg/kg reported. The ADEQ concluded that the site had been "effectively remediated", having residual arsenic values below the suggested soil cleanup level of 100 mg/kg. The ADEQ issued a no further action letter for the site to Lonza in 1991.

In May 1995, Groundwater Technology, Inc. (GTI) was retained by Arizona Department of Administration (ADOA) - Risk Management Section to conduct further investigation at the BMP site. The ADOA is the State’s insurer, and as such, were representing their client, Arizona State Land Department (ASLD), the owner of the Site. Both ADOA and ASLD had concerns that the property may not have been remediated to acceptable concentrations of arsenic in soil. GTI collected 16 near-surface soil samples at the BMP site. Laboratory analysis confirmed up to 19,000 mg/kg arsenic in the samples. GTI recommended further assessment within the former gallium arsenide and scandium process areas.

A follow-up investigation was performed by GTI during November 1995, which entailed the collection of 105 additional samples from 44 soil borings. Laboratory analysis confirmed up to 70 mg/kg arsenic in the samples. An average background value of 2.17 mg/kg was calculated. Two wipe samples collected from the interior concrete block wall (24 mg/kg) and concrete floor (520 mg/kg) of the former operations building confirmed arsenic contamination. GTI stated that the site had not been effectively remediated (1990 Suggested Soil Cleanup Level < 100 mg/kg) and site closure should not have occurred.

GTI submitted a "Summary and Recommendations" letter, dated March 29, 1996, which recommended installing a perimeter fence, using a preliminary remedial goal for arsenic of 2.17 mg/kg, preparing a corrective action workplan, and reviewing ADEQ's project files. No other work by GTI appears to have occurred after this date. In 1999, the ADEQ issued a letter to “Baldwin Metals File” stating no further action was required by ADEQ Water Quality Assurance Revolving Fund (WQARF) since the site and related contamination was under the jurisdiction of ADEQ Hazardous Waste Compliance Unit (HWCU).

In 2005, LFR Levine-Fricke (LFR) was retained by ADOA to recharacterize the site with greater precision after GTI’s work characterizing the site in the mid-1990s. LFR conducted building materials sampling, analysis, building demolition activities, soil sampling, and 3-D subsurface modeling of the site. LFR collected a total of 61 soil samples for analysis of total arsenic concentration. This data along with previous

data from GTI was used in 3-D subsurface modeling. LFR's sampling also revealed other areas of arsenic-impacted soil at the site; however, the modeling indicated that the original volume of soil estimated to require remediation, 34,600 cubic yards, was reduced to approximately 20,000 cubic yards. LFR provided remediation strategies to ASLD and ADOA and recommended that the "State proceed with solidification/stabilization technology to mitigate the arsenic concentrations present in soil at the site."

According to information provided by Mr. Erik Lohman, Loss Prevention Consultant with ADOA, "To the best of my knowledge, ITSI-Gilbane was then awarded the project to remediate the site after a competitive bidding process. In 2007, approximately 8,000 tons of soil were stabilized in-situ and then removed. A similar amount of certified clean backfill was imported, placed in the excavation area, and then compacted. We made the decision to halt excavation when the results of confirmation sampling showed random pockets of arsenic in the 15-21 mg/kg range found approximately 10 -17 feet below the surface. Essentially, we determined that the cost to pursue further excavation greatly outweighed the benefit, especially given the remote location of the site and lack of sensitive receptors in the surrounding area. The highest concentration of arsenic in the post-remediation sampling was 21 mg/kg at a depth of 13 feet below the surface."

Since BMP is not an active case with a State agency, remediation has been completed to the satisfaction of ADOA and ASLD, and residual concentrations of arsenic at depth are fairly low in comparison to background concentrations, it does not appear that the former BMP facility represents a current environmental concern for the Site as long as future development activities do not involve excavation of soil beyond 10 feet in this area of the Site.

5.1.2 Off-Site Properties

According to EDR's report, the following facilities are located adjacent to the Site:

- Arlington Valley Solar Energy II is located adjacent southwest from the Site. This facility is listed in the AST, Dry Wells, and EMAP databases. The facility is listed in the databases for tracking purposes and is not listed for having a release. This facility is not expected to pose an environmental concern to the Site.
- Facility Inspection and DM Manhole 2 at 15600 S. Old Hwy 80, possibly adjacent east of the Site, are listed in the EMAP database for the tracking of a wastewater monitoring point. This location is listed for tracking purposes and is not expected to pose an environmental concern to the Site.

According to EDR's report, several other properties were identified within the ASTM search radius. However, based on their listing for tracking purposes only, distance from the Site, hydraulic location with respect to groundwater flow, regulatory oversight, and/or case closure, these off-site properties are unlikely to represent a concern of environmental impairment or a vapor encroachment condition to the Site.

No properties are listed in EDR's Orphan Summary section of unmapped sites.

5.2 Agency Research

Files and records available at the agencies listed in **Table 3** were reviewed for information on the Site.

Table 3 Local Agency Files

Source	Date	Information Obtained
Arizona Department of Environmental Quality	October 2018	Records for the Site and nearby properties were reviewed online at http://megasearch.azdeq.gov/megasearch/. Records for the former Baldwin Metals Processing facility were found and reviewed in person at the ADEQ. The information reviewed can be found in Section 5.1.1.
Arizona State Land Department	October 2018	Records for the former Baldwin Metals Processing facility were reviewed at the Arizona State Land Department. The information reviewed can be found in Section 5.1.1.
Arizona Department of Water Recourses (ADWR)	October 2018	Records for one onsite well was reviewed from the ADWR website: http://gisweb.azwater.gov/WellRegistry/SearchWellReg.aspx. The website revealed one well located onsite. Well 55-516808 is an exploration piezometer test well. The well is located in the central north portion of the Site near a seasonal stream. The well was advanced by the Heber Mining & Exploration Company in 1987. Piezometer test wells are typically used for groundwater studies or geotechnical observations. Therefore, it is likely the well was abandoned after testing was completed. Arcadis did not observe evidence of this well onsite.

6 ENVIRONMENTAL SETTING

6.1 Topography

According to Google Earth, the Site ranges from approximately 883 feet above mean sea level at the northern boundary to approximately 808 feet above mean sea level at the southern boundary. The Site is generally flat in the northern portions and is undulating in the southern portions. The surrounding area exhibits a slight downward slope to the southeast.

6.2 Geology

According to the environmental database report prepared by EDR, the sediments beneath the Site have been identified as part of the Quaternary Volcanic Rocks Series of the Quaternary System of the Cenozoic Era. According to the United States Department of Agriculture Soil Conservation Service, the main soil component underlying the Site is Harqua, which has a soil surface texture of gravelly clay loam, slow infiltration rates and is well drained.

6.3 Surface Water

Arcadis did not observe surface water onsite; however, dry seasonal creeks and/or washes were observed in the central and southern portions of the Site. During the Site inspection, ponded water from recent rain events was observed across the Site. This water will percolate into the ground surface.

6.4 Hydrogeology

The Site is located in the Lower Gila River watershed and the Hassayampa subbasin.

No specific groundwater data was found for the Site. According to information provided by ADWR regarding an irrigation water well located approximately 0.5-mile northwest of the Site, pumping depth of the groundwater was 285 feet below ground surface (bgs) in 1985. The water well for the former Hassayampa Cotton Gin located approximately 0.5-mile east of the Site is listed as having a well depth of 250 feet bgs. The direction of groundwater flow at the Site can be expected to vary locally but is generally believed to follow the slope of the surface topography or to the washes south of the Site.

According to the EDR report, a water well located approximately 0.6-mile east of the south end of the Site had a depth to groundwater of approximately 53 feet bgs in 1986.

6.5 Flood Zones

According to the EDR report, the Site is located in a 500-year flood zone. Portions of the Site near intermittent streams are located within a 100-year flood zone.

7 SITE RECONNAISSANCE

On October 3, 2018, Mr. Blake Hunter, a representative of Arcadis, performed a reconnaissance-level assessment of the Site to observe general site conditions and indications of the possible release(s) of chemicals to the subsurface. A walk-over and drive-over site reconnaissance was conducted to identify visible evidence of RECs. Mr. Hunter was unaccompanied during the site reconnaissance. Photographs taken during the site reconnaissance are included in **Appendix A**.

7.1 Methodology and Limiting Conditions

Arcadis' representative was granted full access to the Site by the Site owner. However, not all areas of the Site were accessible either due to topography, lack of roads or trails to interior areas, and/or the presence of "no trespassing" signs.

7.2 General Site Conditions

7.2.1 Site Observations

The Site is generally undeveloped desert terrain with natural vegetation.

Signage along Narramore Road in the northern portion of the Site identified the location of a buried fiber optic cable line.

Signage along the Southern Pacific railroad track easement in the northern portion of the Site identified the location of a buried gas pipeline.

An overhead powerline easement is present along the south side of Narramore Road in the northern portion of the Site.

Aged barbed wire and wood fencing is present in areas throughout the Site.

Unpaved roads and trails are present throughout the east portions of the Site. The trails provide access to numerous unauthorized dump sites. The debris in the dump areas consists of household trash and building materials. All of the dump areas and items appeared to be in weathered and aged condition and partially to fully buried in blowing sand. Items observed in the debris piles consisted of vehicle tires, roofing material, Transite asbestos panels, cans, bottles, ceramics, clothing, toys, furniture, appliances, scrap wood and concrete, and fencings. All of the debris was observed to be in significantly damaged condition. With the exception of possible asbestos containing material and lead-based paint, no hazardous materials were observed in the debris piles.

The area of the former Baldwin Metals Processing facility was cleared of all structures and debris. Only one small pile of broken concrete wall was present in the southern portion of the former facility.

Seasonal washes and creeks are present in the south and southeastern portions of the Site. The seasonal water provides growth of dense desert vegetation within the boundaries of the washes and creeks.

7.2.2 Hazardous Substances and Petroleum Products in Connection with Identified Uses

No hazardous substances or petroleum products were observed onsite.

7.2.3 Storage Tanks

Arcadis did not observe ASTs at the Site. No evidence of USTs, such as dispensers, pipes, or vent lines, was observed on the Site.

7.2.4 Odors

No odors that would indicate an environmental concern were noted on the Site.

7.2.5 Pools of Liquid

No readily visible standing surface water, pools, or sumps containing liquids likely to be hazardous substances or petroleum products were identified during this assessment.

7.2.6 Drums

No drums were observed onsite other than some rusted small containers in debris piles. The containers appeared to be empty with no visible staining beneath or around them.

7.2.7 Hazardous Substances and Petroleum Product Containers (Not Necessarily in Connection with Identified Uses)

No hazardous substances or petroleum product containers were observed onsite.

7.2.8 Unidentified Substance Containers

No opened or damaged containers with unidentified contents suspected of being hazardous substances or petroleum products were identified during this assessment.

7.2.9 PCBs

No electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs was identified during this assessment.

7.2.10 Pits, Ponds, or Lagoons

During the site visit, Arcadis' representative looked for pits, ponds, or lagoons on the Site. Arcadis' representative also looked for pits, ponds, and lagoons on adjoining properties to the extent that such features could be visually and/or physically observed from the Site or identified in the interviews or records review. No pits, ponds, or lagoons were observed onsite or on the adjacent properties.

7.2.11 Stressed Vegetation

During the site visit, Arcadis' representative looked for areas of stressed vegetation (from other than insufficient water). No areas of stressed vegetation were observed during this assessment.

7.2.12 Solid Waste

Numerous unauthorized dump sites are present onsite. The dump sites are most prevalent in the eastern-central portion of the Site that are accessed by unpaved roads and trails. The debris consists of household trash and building materials. The debris is in weathered and aged condition and some debris is buried or partially buried in the blowing sand. With the exception of possible asbestos containing material and lead-based paint, no hazardous materials were observed in the debris.

7.2.13 Wastewater

During the site visit, Arcadis looked for wastewater or other liquids (including storm water) or discharges into a drain, ditch, underground injection system, or stream on or adjacent to the Site. There is no process wastewater discharged on site.

7.2.14 Wells

During the site visit, Arcadis looked for wells, including dry wells, water wells, irrigation wells, injection wells, monitoring wells, abandoned wells, oil wells, or other wells. No wells were observed onsite.

An exploration piezometer test well was reportedly located in the central north portion of the Site near a seasonal stream in 1987. This well was likely closed after testing was completed, which may have been testing for groundwater or geotechnical conditions. This well was not observed by Arcadis.

7.2.15 Septic Systems

During the site visit, Arcadis looked for indications of on-site septic systems or cesspools. No septic systems or cesspools were observed. The former Baldwin Metals Processing facility utilized a septic system with two leach fields. The system was reportedly removed during demolition activities.

7.2.16 Heating / Cooling

The Site is undeveloped; therefore, heating and cooling systems were not evaluated for this assessment.

7.2.17 Stains or Corrosion

Arcadis did not observe any areas of staining or corrosion during this site assessment.

7.2.18 Drains or Sumps

Arcadis did not observed drains or sumps onsite.

7.2.19 Asbestos and Lead-based Paint

Suspected asbestos containing material and lead-based paint was observed in unauthorized debris piles throughout the central-east portions of the Site. Suspected asbestos containing material consisted of significantly damaged Transite panels and possible stucco. The suspected lead-based paint material consisted of aged, painted building materials and ceramics.

8 INTERVIEWS

8.1 Interview with Site Contacts

Arcadis interviewed Mr. Bruce Campbell with ASLD and Mr. Erik Lohman with ADOA. Relevant information is included throughout this report.

9 FINDINGS AND CONCLUSIONS

Arcadis has performed a Phase I ESA in accordance with the ASTM International E1527-13 Standard Practice for Site Assessments: Phase I Environmental Site Assessment Process. Limitations or deviations from this practice are described in Section 1.4 of this report. The findings identified by Arcadis are summarized below and discussed in greater detail in the body of the report.

9.1 Recognized Environmental Conditions

The following REC was identified in connection with the Site:

- The unauthorized dump sites with asbestos containing material and potential lead-based paint materials are considered a REC. Arcadis recommends that this material be managed in accordance with State regulations for transport and disposal of hazardous materials.

9.2 Controlled Recognized Environmental Conditions

No CRECs were identified in connection with the Site.

9.3 Historical Recognized Environmental Conditions

No HRECs were identified in connection with the Site.

9.4 *De Minimis* Conditions

The following two *de minimis* conditions were identified in connection with the Site:

- Large areas of non-hazardous debris should be removed from the Site.
- There will likely be building setback requirements in connection with the buried gas pipeline that traverses the Site.

9.5 Conclusions

Arcadis has performed a Phase I ESA of the Site in conformance with the scope and limitations of ASTM Practice E1527-13 for Phase I ESAs. This assessment has revealed evidence of one REC in connection with the Site as discussed in Section 9.1 above.

No Phase I ESA can wholly eliminate uncertainty regarding the potential for RECs in connection with a property. This evaluation was intended to reduce, but not eliminate uncertainty in RECs.

10 DATA GAPS

The interval between aerial photographs and topographic maps exceeds 5 years. These limiting factors represent data gaps. Based on information obtained by Arcadis during our review of historical sources, and observation of site conditions during our visit, additional photographs and maps would not appear to be significant and we do not anticipate that the information that could be obtained from these sources would change the conclusions of this report. Pertinent data, if any, obtained by the Client following the issuance of this report should be reviewed by an environmental professional and an addendum prepared presenting an evaluation of the data and any changes to the conclusions of this report, as warranted by the data.

In addition, due to topography or lack of access roads, not all areas of the Site were able to be observed. However, based on our review of aerial images and an interview with the owner representative, it does not appear that areas of the Site not inspected would represent an environmental concern for the Site.

11 ENVIRONMENTAL PROFESSIONALS STATEMENT

The environmental assessment described herein was conducted by the undersigned employee of Arcadis. Arcadis' assessment consisted solely of the activities described in the Introduction of this Report, and in accordance with the ASTM E1527-13 guidelines for Phase I Environmental Site Assessments signed prior to initiation of the assessment, as applicable.

We declare that, to the best of our professional knowledge and belief, we meet the definition of environmental professional as defined in §312.10 of 40 Code of Federal Regulations (CFR) 312, and we have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. *

Report Prepared By:

October 30, 2018

Blake Hunter — Date
Senior Staff Scientist

Report Reviewed By:

October 30, 2018

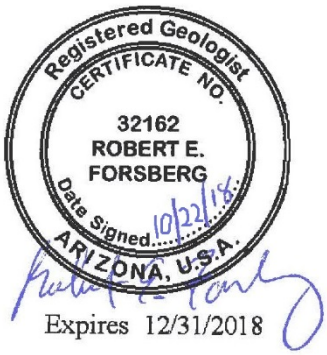
Janet Holtz — Date
Principal Environmental Scientist

Report Reviewed By:

October 30, 2018

Robert Forsberg, R.G. — Date
Principal Geologist

*A professional engineer's, geologist's or environmental professional's certification of conditions comprises a declaration of his or her professional judgment. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations, and ordinances.



12 REFERENCES

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_____. 1996. Summary and recommendations for the Baldwin Metals Site, ASLD lease parcel #03-084628. March 29.

LFR Levine-Fricke. 2006. Final Report on Building Demolition, Treatability Study, and Soil Sampling Activities to Update 3D Subsurface Model, Former Baldwin Metals Processing Facility, Arlington, Arizona. January 26.

U.S.G.S. Various years. Historical aerial photographs.

FIGURES

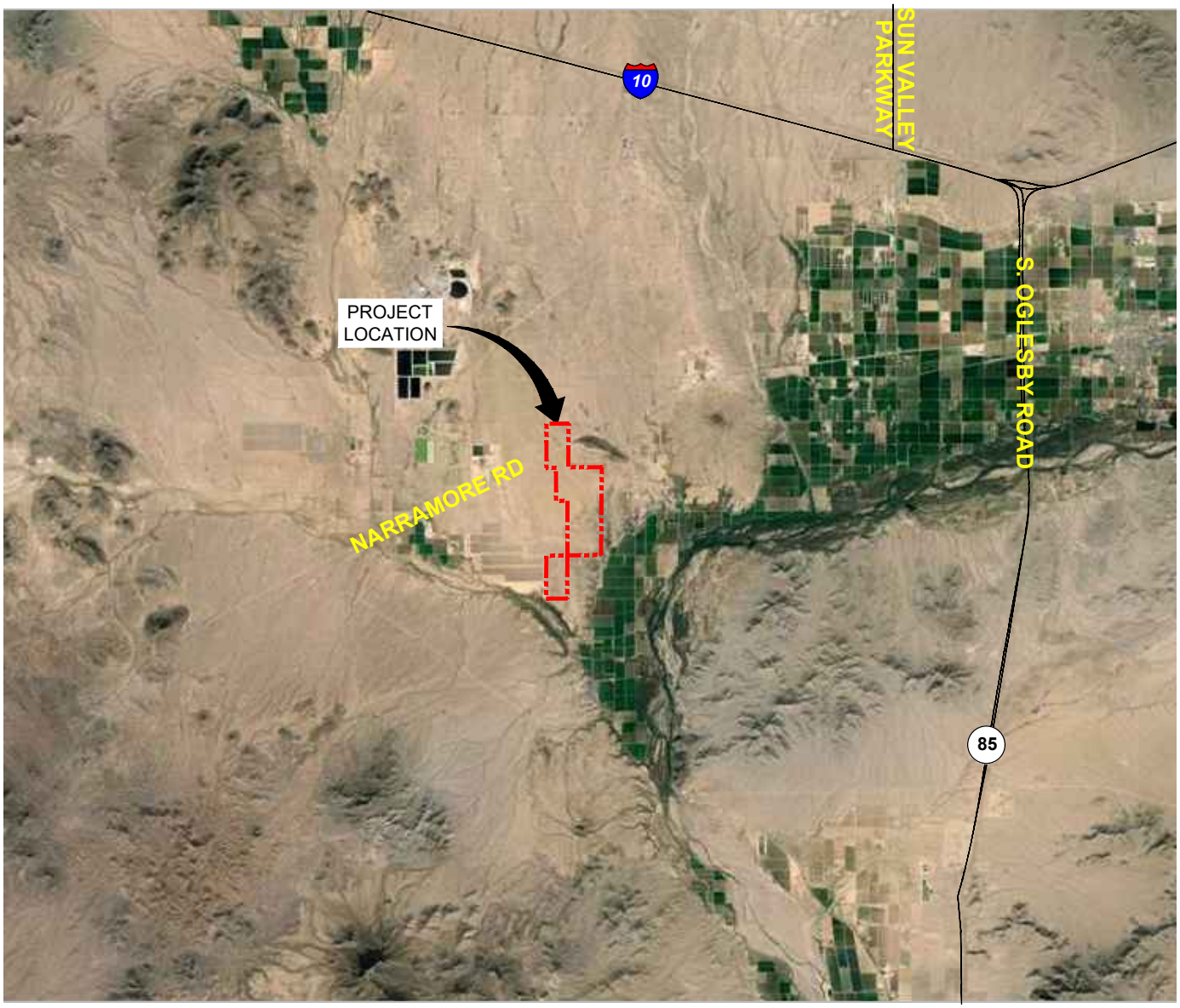

PHOTO SOURCE: Google Earth Pro™ 2015, 33.315754°, -112.815575°

ARIZONA

0 10,000' 20,000'

GRAPHIC SCALE

FIRST SOLAR
SUN STREAMS 4
ARLINGTON, ARIZONA

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

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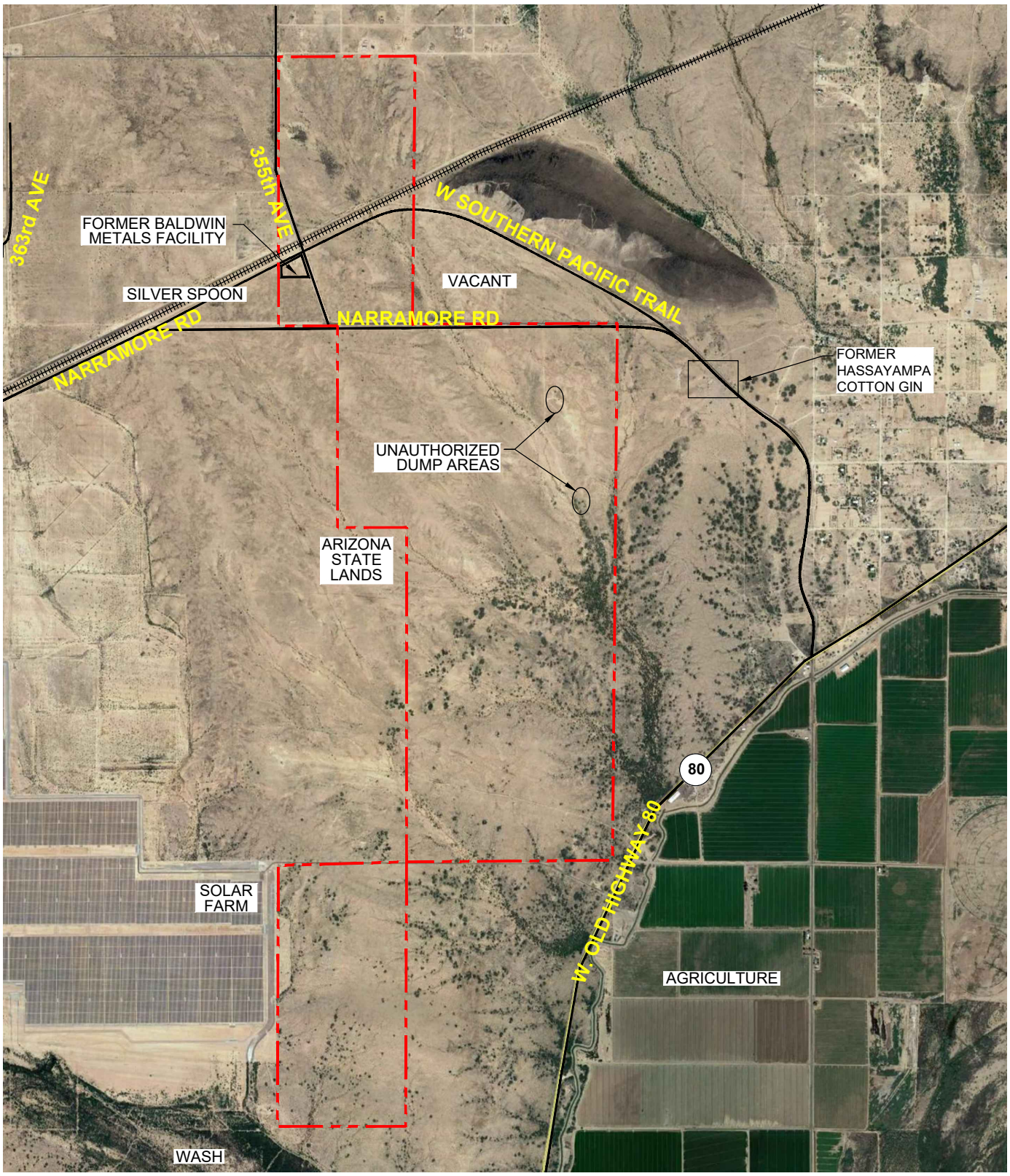

LEGEND:

PROPERTY BOUNDARY

STREET

RAILROAD TRACKS

0 2800 FEET

PHOTO SOURCE: Google Earth Pro™ 2015

FIRST SOLAR
SUN STREAMS 4
ARLINGTON, ARIZONA

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY:IRVINE DIV/GROUP:ENV_CAD DB:CAD C:\Users\lemuresa\OneDrive - ARCADIS\BIM 360 Docs\First Solar\First Solar - Sun Streams 4 Arlington AZ\CO0020470036.0000\01-DWG\Sun Streams 4 Arlington AZ.dwg LAYOUT: 2 SAVED: 10/22/2018 12:03 PM ACADVER: 21.0S (LMS TECH)
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 10/22/2018 12:03 PM BY: MURESAN, ELENA

APPENDIX A

Site Photographs

Photograph #1

Description of Photograph:
View of north border of the Site along W. Elliot Road. View is toward east.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #2

Description of Photograph:
View of the northern portion of the Site towards north.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #3

Description of Photograph:
View of the railroad track easement and signage for underground cable and gas pipelines. View is towards east from 355th Avenue.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #4

Description of Photograph:
View of the former Baldwin Metals Processing facility towards northeast.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #5

Description of Photograph:
View of concrete rubble on south side of former Baldwin Metals Processing facility.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #6

Description of Photograph:
View of the former Baldwin Metals Processing facility towards south.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #7

Description of Photograph:
View of typical unauthorized dump site.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #8

Description of Photograph:
View of typical unauthorized dump site in the central portion of the Site.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #9

Description of Photograph:
View of stucco-covered pole in dump pile.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #10

Description of Photograph:
View of roofing material debris in dump pile.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #11

Description of Photograph:
View of furniture in dump pile.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #12

Description of Photograph:
View of typical vegetation along seasonal washes and creeks in the central-east portion of the Site.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #13

Description of Photograph:
View of the southeastern portion of the Site towards west.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #14

Description of Photograph:
View of western boundary of the southern portion of the Site. View is towards south.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #15

Description of Photograph:
View of the southern portion of the Site towards west.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #16

Description of Photograph:
View of the central-southern portion of the Site towards northwest.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #17

Description of Photograph:
View of the signage for Sun Streams 4 in the northern portion of the Site.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

Photograph #18

Description of Photograph:
View of the Site north to south.

Site Location:
Sun Streams 4
Arlington, AZ

Photograph Taken By:
Blake Hunter

Date of Photograph:
October 3, 2018

APPENDIX B

User Questionnaire/Lien and AUL Report

User Questionnaire
Required by ASTM Standard E1527-13

ARCADIS Design & Consultancy for natural and built assets

Site Name and Address: Sunstreams 4

(1.) Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).
Did a review of land title records (or judicial records where appropriate) identify any environmental cleanup liens that are filed or recorded against the property under federal, tribal, state or local law? Yes ☐ No ☒

(2.) Activity and land use limitations that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.2(a)(1)(v) and (vi)).
Did a review of land title records (or judicial records where appropriate) identify any AULs, such as *engineering controls*, land use restrictions or *institutional controls* that are in place at the property and/or have been filed or recorded in a registry under federal, tribal, state or local law? Yes ☐ No ☒

(3.) Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28).
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 ☐ No ☒

(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 being paid for this 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*? Yes ☐ No ☒

(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,

(a.) Do you know the past uses of the *property*? Yes ☐ No ☒

(b.) Do you know of specific chemicals that are present or once were present at the *property*?
Yes ☐ No ☒

(c.) Do you know of spills or other chemical releases that have taken place at the *property*?
Yes ☐ No ☒

(d.) Do you know of any environmental cleanups that have taken place at the *property*?
Yes ☐ No ☒

(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).
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*? Yes ☐ No ☒

Ray Moore	Ray Moore	1/22/18
Printed Name	Signature	Date

If you answered yes to any question above, please provide explanation on separate sheet.

SUN STREAMS 4 NORTH HALF
NEAR S. 363RD AVENUE
ARLINGTON, AZ

Inquiry Number: 5417747.8
SEPTEMBER 12, 2018

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search 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 address 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' offices, registries of deeds, 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 EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

SUN STREAMS 4 NORTH HALF
NEAR S. 363RD AVENUE
ARLINGTON, AZ

RESEARCH SOURCE

Source 1:	MARICOPA COUNTY RECORDER'S OFFICE
Source 2:	ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
Source 3:	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	NA
Title is vested in:	ARIZONA STATE LAND DEPARTMENT
Title received from:	NA
Date Executed:	NA
Date Recorded:	PRIOR TO 1980
Book:	NA
Page:	NA
Volume:	NA
Instrument#:	NA
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NO DEED IMAGE

Legal Description:	W2 SW4 80 AC
Current Owner:	ARIZONA STATE LAND DEPARTMENT
Property Identifiers:	401-38-009
Comments:	NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party: NA

2nd Party: NA

Dated: NA

Recorded: NA

Book: NA

Page: NA

Docket: NA

Volume: NA

Instrument #: NA

Comments:

Miscellaneous:

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

If Found:

1st Party: NA

2nd Party: NA

Dated: NA

Recorded: NA

Book: NA

Page: NA

Docket: NA

Volume: NA

Instrument #: NA

Comments:

Miscellaneous:

EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument: NONE IDENTIFIED
First Party:
Second Party:
Date Recorded:
Instrument #:
Book:
Page:
Comments:

SUN STREAMS 4 NORTH HALF
NEAR S. 363RD AVENUE
ARLINGTON, AZ

Inquiry Number: 5417747.8
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A network of professional, trained researchers, following established procedures, uses client supplied address 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' offices, registries of deeds, 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 EDR at 1-800-352-0050
with any questions or comments.

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EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

SUN STREAMS 4 NORTH HALF
NEAR S. 363RD AVENUE
ARLINGTON, AZ

RESEARCH SOURCE

Source 1:	MARICOPA COUNTY RECORDER'S OFFICE
Source 2:	ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
Source 3:	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	NA
Title is vested in:	ARIZONA STATE LAND DEPARTMENT
Title received from:	NA
Date Executed:	NA
Date Recorded:	PRIOR TO 1980
Book:	NA
Page:	NA
Volume:	NA
Instrument#:	NA
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NO DEED IMAGE

Legal Description:	W2 NW4 80 AC
Current Owner:	ARIZONA STATE LAND DEPARTMENT
Property Identifiers:	401-38-010
Comments:	NA

EDR Environmental Lien and AUL Search

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party: NA

2nd Party: NA

Dated: NA

Recorded: NA

Book: NA

Page: NA

Docket: NA

Volume: NA

Instrument #: NA

Comments:

Miscellaneous:

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

If Found:

1st Party: NA

2nd Party: NA

Dated: NA

Recorded: NA

Book: NA

Page: NA

Docket: NA

Volume: NA

Instrument #: NA

Comments:

Miscellaneous:

EDR Environmental Lien and AUL Search

MISCELLANEOUS

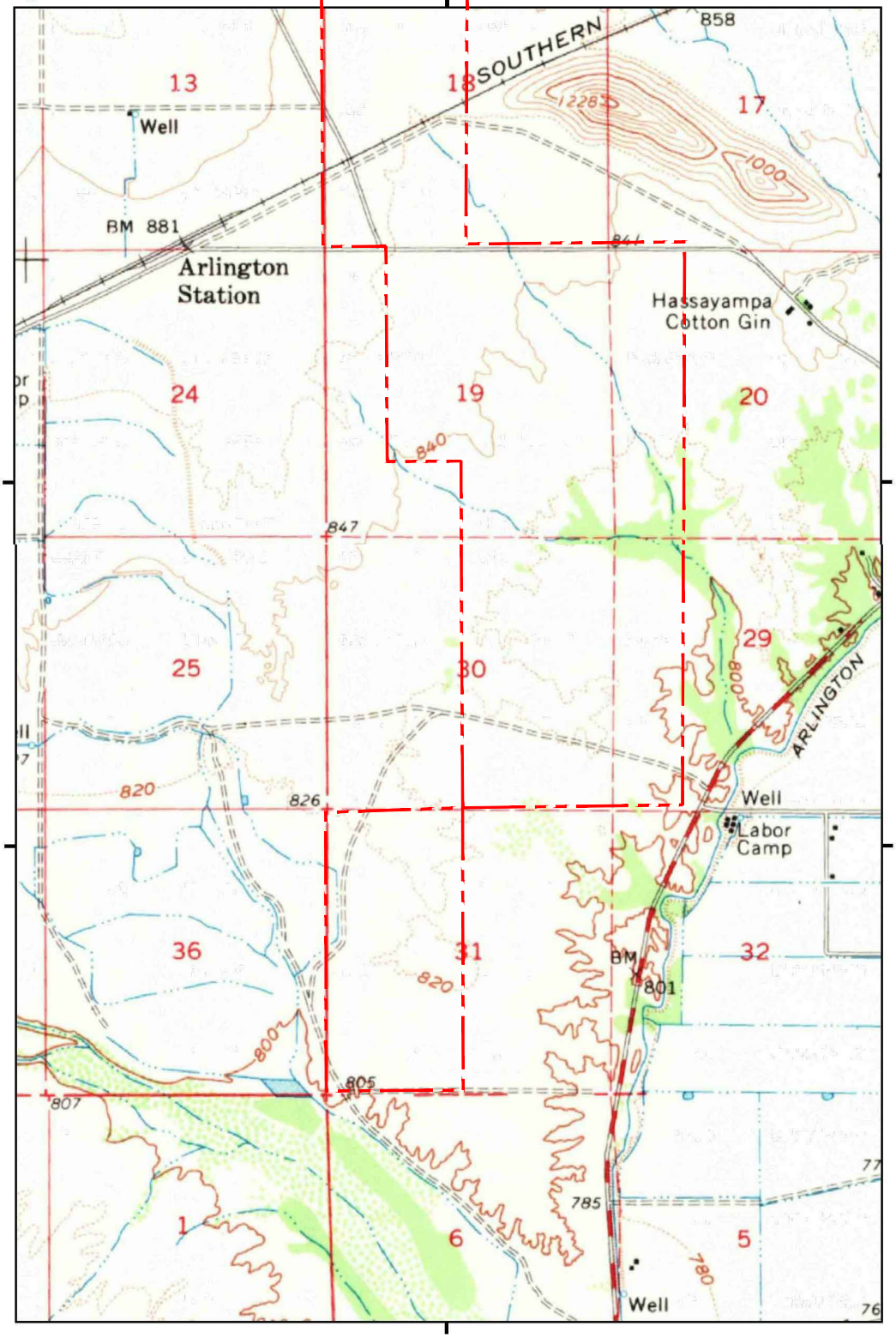
Type of Instrument: NONE IDENTIFIED
First Party:
Second Party:
Date Recorded:
Instrument #:
Book:
Page:
Comments:

APPENDIX C

Historical Research Documentation

Historical Topo Map

1962



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

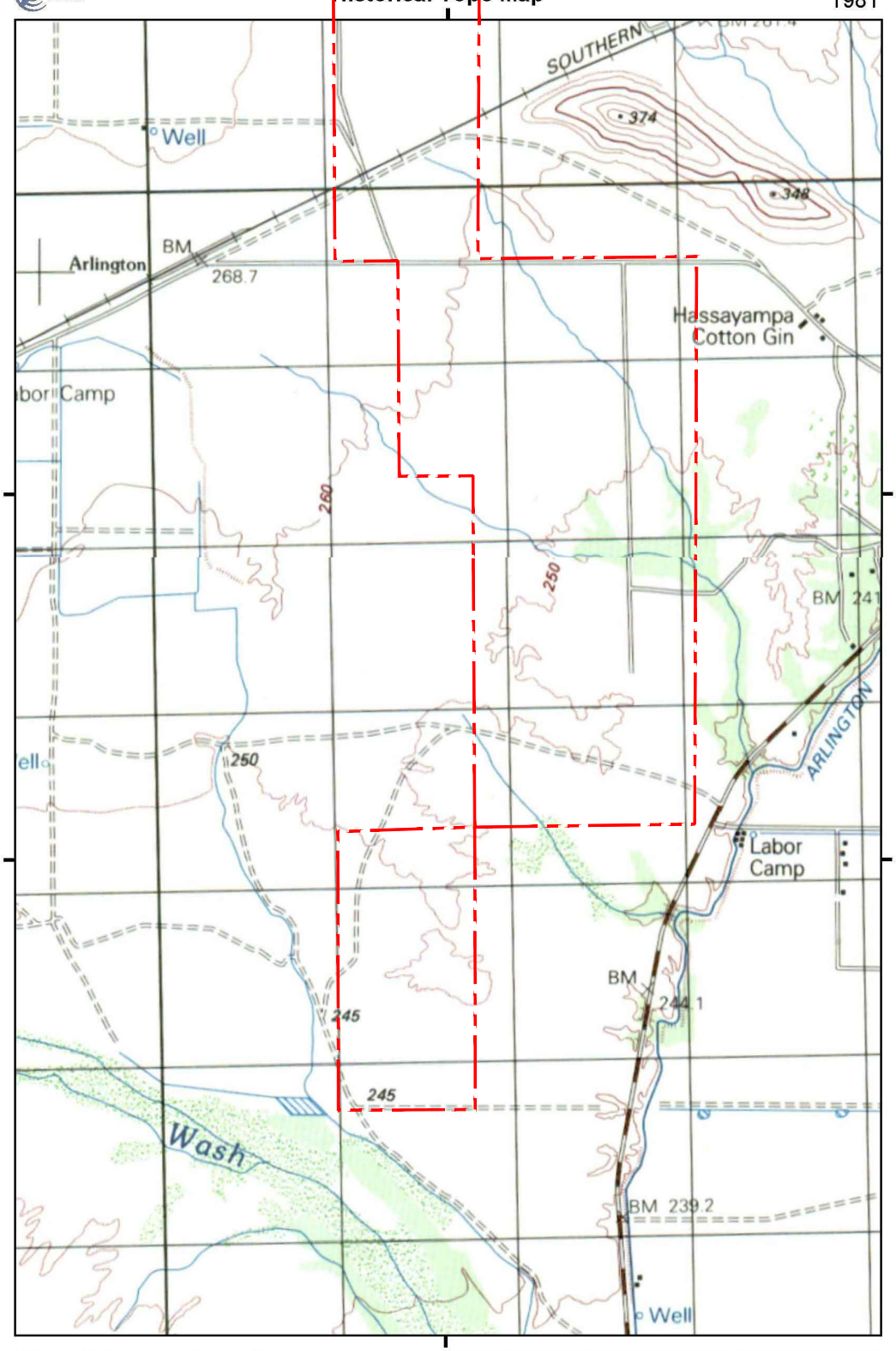
TP, Arlington, 1962, 15-minute

SITE NAME: Sun Streams 4 North and South
ADDRESS: Near Old U.S. 80
Arlington, AZ 85322
CLIENT: ARCADIS U.S., Inc.

N

Historical Topo Map

1981



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

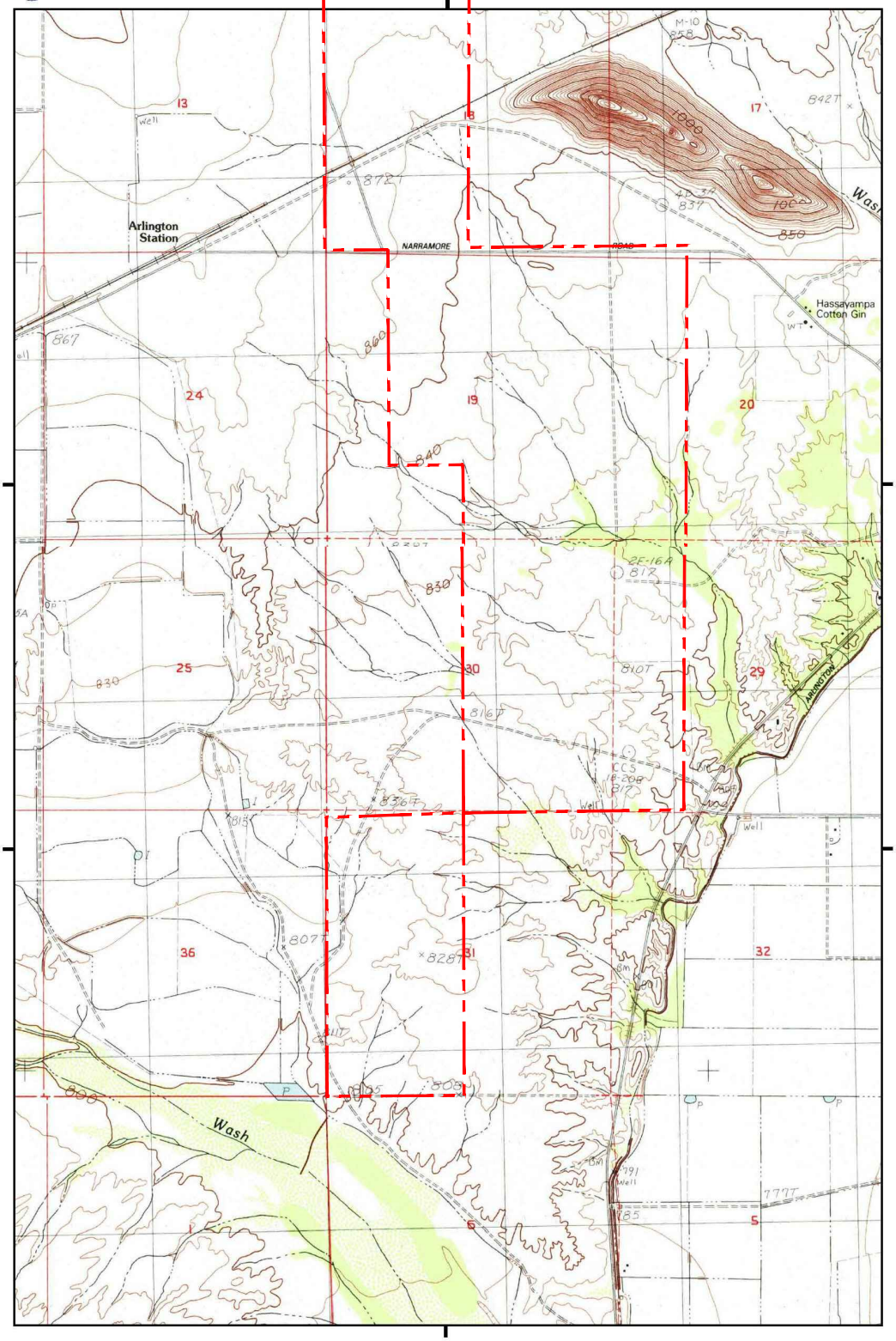
TP, ARLINGTON, 1981, 15-minute

SITE NAME: Sun Streams 4 North and South
ADDRESS: Near Old U.S. 80
Arlington, AZ 85322
CLIENT: ARCADIS U.S., Inc.

N

Historical Topo Map

1984



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

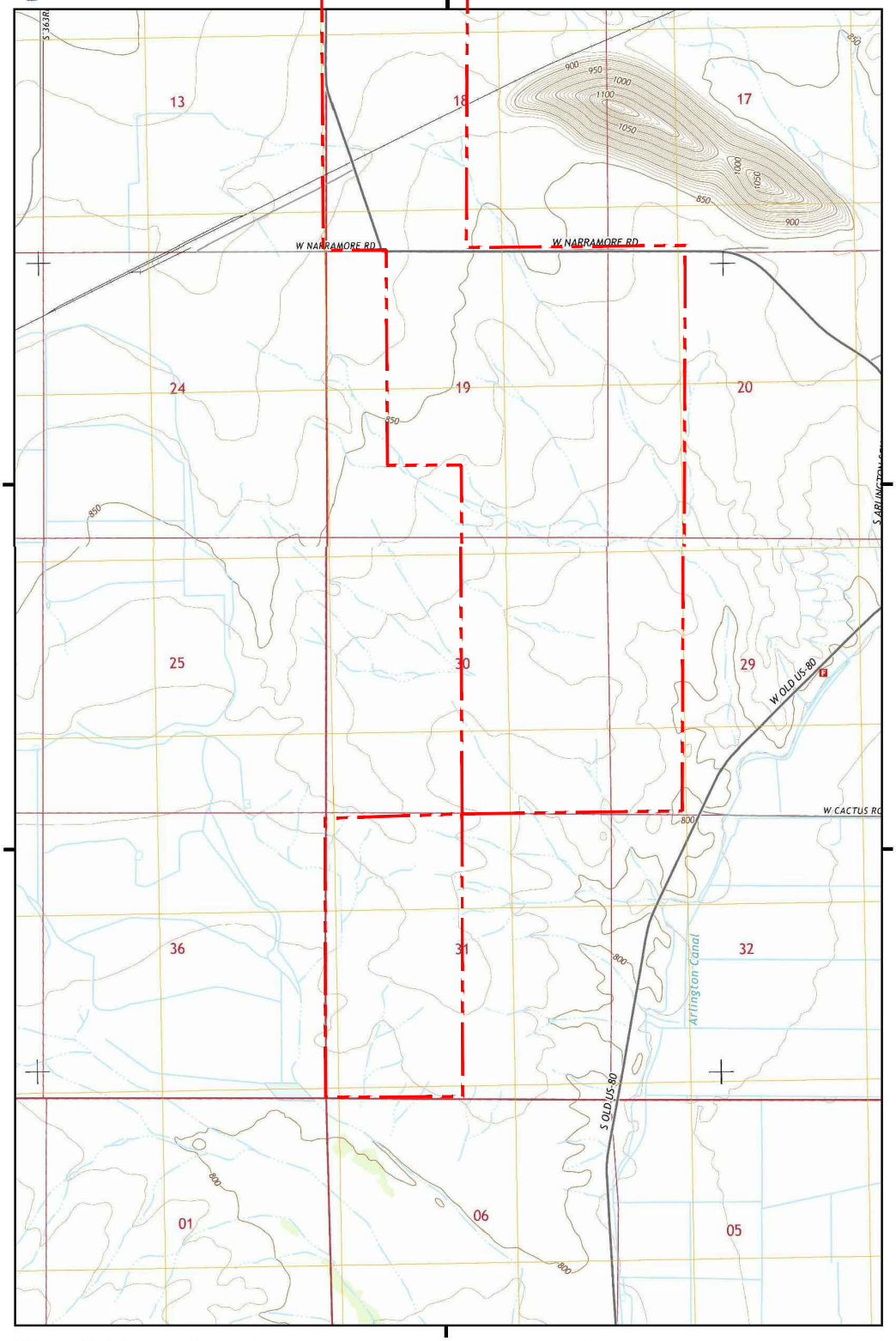
TP, Arlington, 1984, 7.5-minute

SITE NAME: Sun Streams 4 North and South
ADDRESS: Near Old U.S. 80
Arlington, AZ 85322
CLIENT: ARCADIS U.S., Inc.

N

Historical Topo Map

2014



This report includes information from the following map sheet(s).

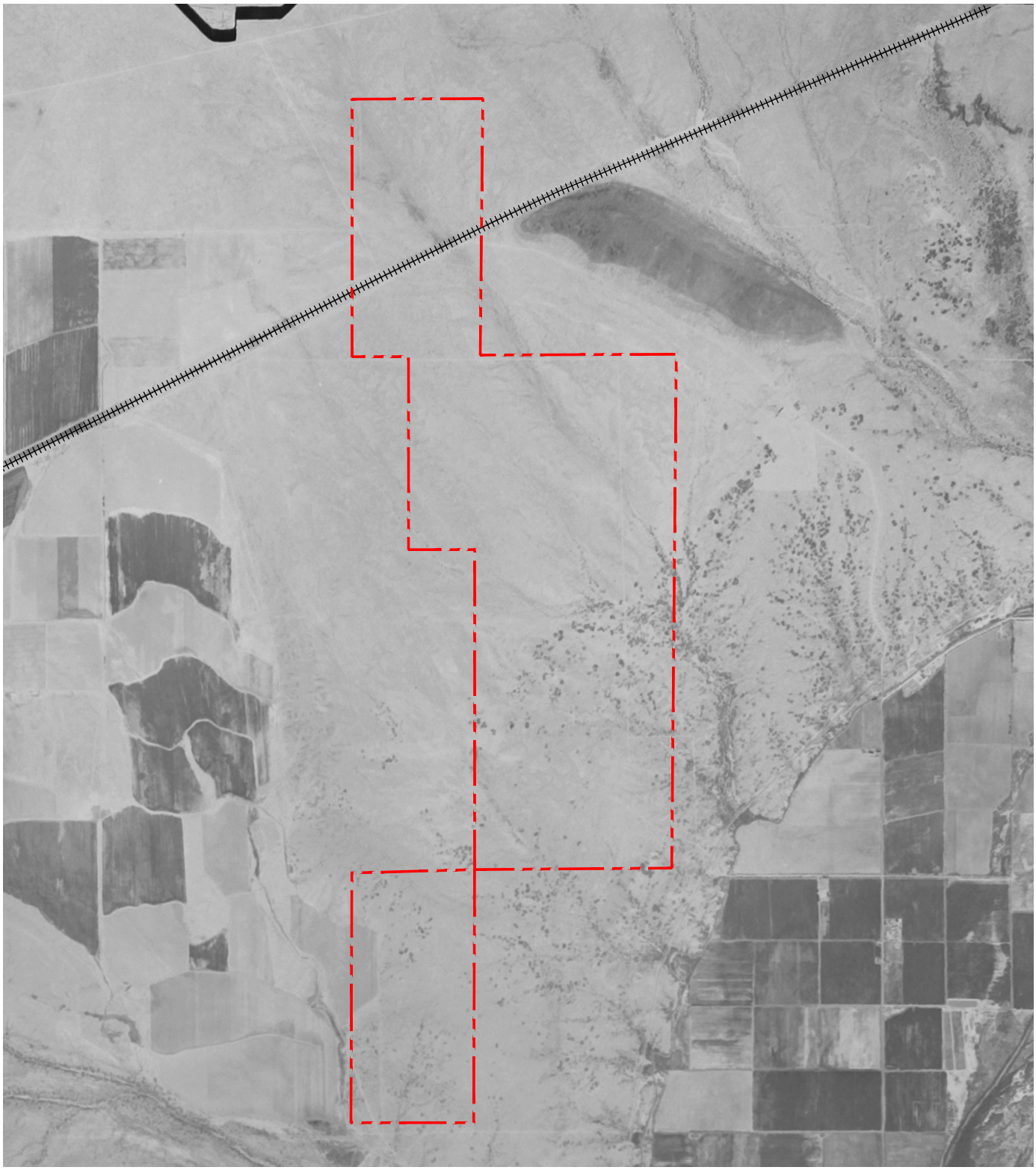
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Arlington, 2014, 7.5-minute

SITE NAME: Sun Streams 4 North and South
ADDRESS: Near Old U.S. 80
Arlington, AZ 85322
CLIENT: ARCADIS U.S., Inc.

N



LEGEND:

PROPERTY BOUNDARY

RAILROAD TRACKS

0 3000 FEET

SOURCE:USGS

FIRST SOLAR
SUN STREAMS 4
ARLINGTON, ARIZONA

HISTORIC AERIAL
1953

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3A

CITY:IRVINE DIV/GROUP:ENV_CAD DB:CAD C:\Users\lemuresa\OneDrive - ARCADIS\BIM 360 Docs\First Solar\First Solar - Sun Streams 4 Arlington AZ\CO0020470036.00001\01-DWG\Sun Streams 4 Arlington AZ.dwg LAYOUT: 3A SAVED: 9/17/2018 10:32 PM ACADVER: 20.1S (LMS TECH)
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/17/2018 10:32 PM BY: MURESAN, ELENA

LEGEND:

PROPERTY BOUNDARY

RAILROAD TRACKS

0 2700 FEET

SOURCE:USGS

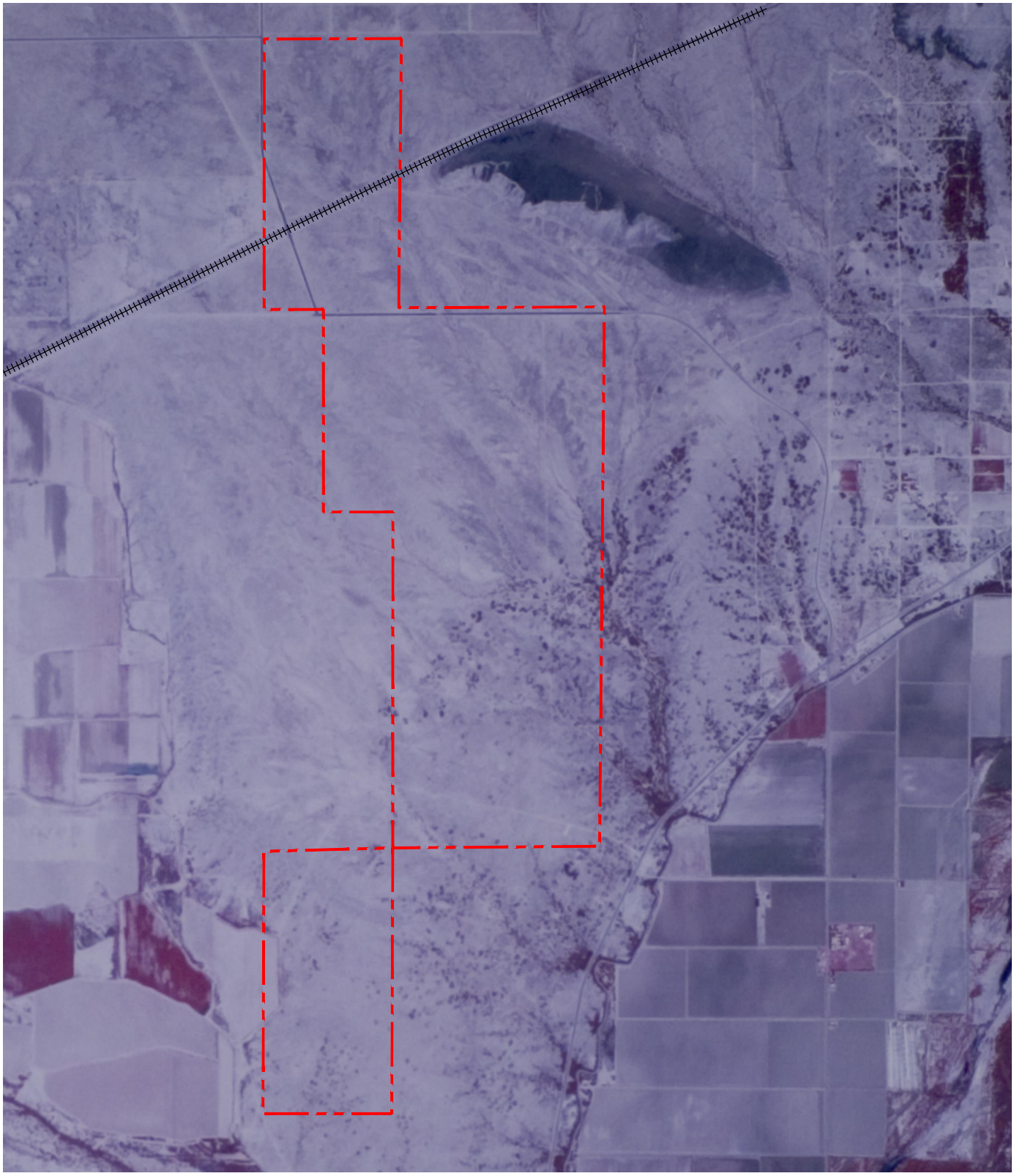
FIRST SOLAR
SUN STREAMS 4
ARLINGTON, ARIZONA

HISTORIC AERIAL
1970

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3B

CITY:IRVINE DIV/GROUP:ENV_CAD DB:CAD C:\Users\lemuresa\OneDrive - ARCADIS\BIM 360 Docs\First Solar\First Solar - Sun Streams 4 Arlington AZ\CO0020470036.0000\01-DWG\Sun Streams 4 Arlington AZ.dwg LAYOUT: 3B SAVED: 9/17/2018 10:33 PM ACADVER: 20.1S (LMS TECH)
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/17/2018 10:33 PM BY: MURESAN, ELENA



LEGEND:

PROPERTY BOUNDARY

RAILROAD TRACKS

0 2800 FEET

SOURCE:USGS

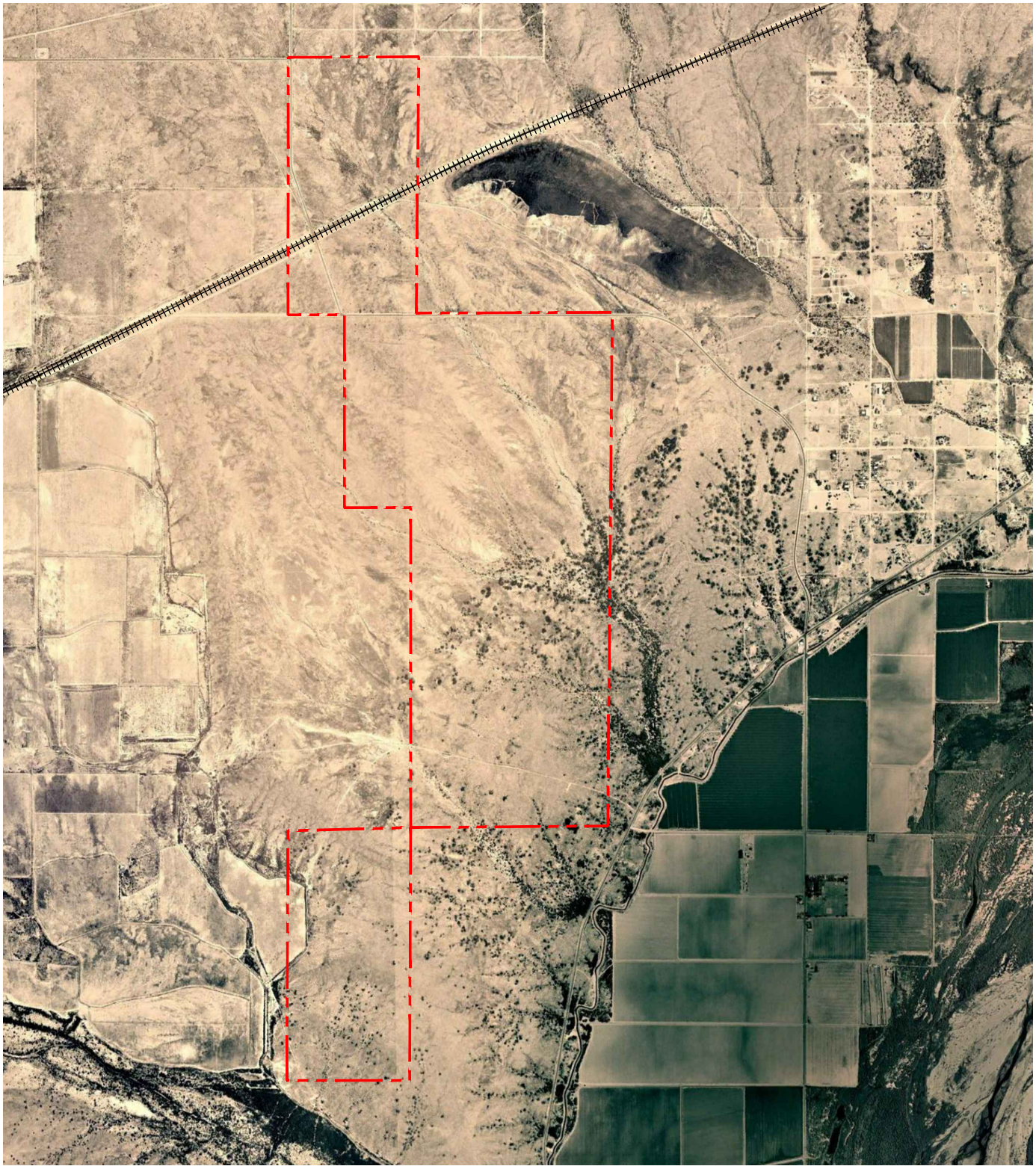
FIRST SOLAR
SUN STREAMS 4
ARLINGTON, ARIZONA

HISTORIC AERIAL
1981

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3C

CITY:IRVINE DIV/GROUP:ENV_CAD DB:CAD C:\Users\lemuresa\OneDrive - ARCADIS\BIM 360 Docs\First Solar\First Solar - Sun Streams 4 Arlington AZ\CO0020470036.0000\01-DWG\Sun Streams 4 Arlington AZ.dwg LAYOUT: 3C SAVED: 9/17/2018 10:33 PM ACADVER: 20.1S (LMS TECH)
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/17/2018 10:33 PM BY: MURESAN, ELENA



LEGEND:

PROPERTY BOUNDARY

RAILROAD TRACKS

0 3000 FEET

SOURCE:USGS

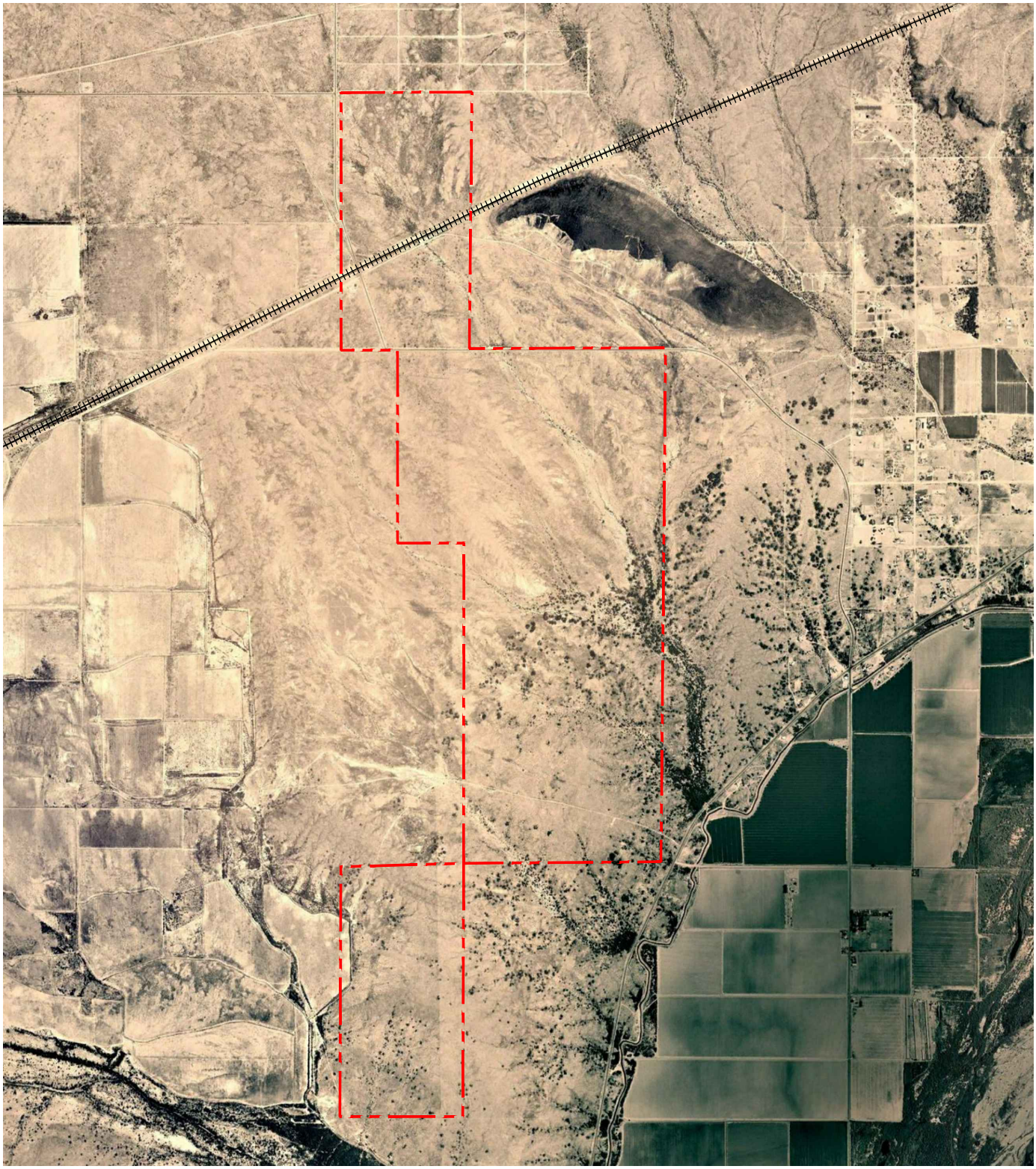
FIRST SOLAR
SUN STREAMS 4
ARLINGTON, ARIZONA

HISTORIC AERIAL
1996

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3D

CITY:IRVINE DIV/GROUP:ENV_CAD DB:CAD C:\Users\lemuresa\OneDrive - ARCADIS\BIM 360 Docs\First Solar\First Solar - Sun Streams 4 Arlington AZ\CO0020470036.0000\01-DWG\Sun Streams 4 Arlington AZ.dwg LAYOUT: 3D SAVED: 9/17/2018 10:33 PM ACADVER: 20.1S (LMS TECH)
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/17/2018 10:33 PM BY: MURESAN, ELENA



LEGEND:

PROPERTY BOUNDARY

RAILROAD TRACKS

0 3000 FEET

SOURCE:USGS

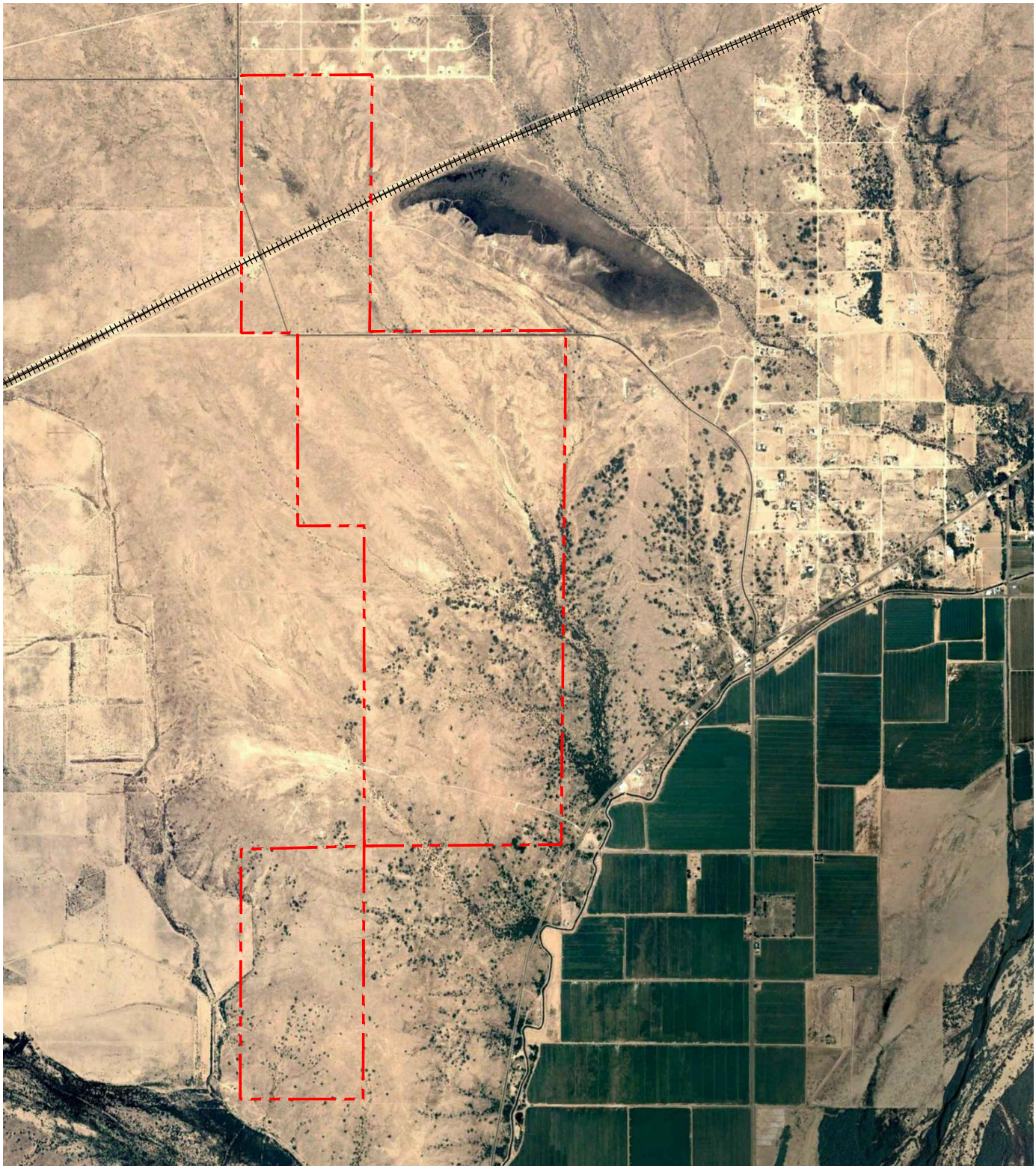
FIRST SOLAR
SUN STREAMS 4
ARLINGTON, ARIZONA

HISTORIC AERIAL
2003

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3E

CITY:IRVINE DIV/GROUP:ENV_CAD DB:CAD C:\Users\lemuresa\OneDrive - ARCADIS\BIM 360 Docs\First Solar\First Solar - Sun Streams 4 Arlington AZ\CO0020470036.0000\01-DWG\Sun Streams 4 Arlington AZ.dwg LAYOUT: 3E SAVED: 9/17/2018 10:33 PM ACADVER: 20.1S (LMS TECH)
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/17/2018 10:34 PM BY: MURESAN, ELENA



LEGEND:

PROPERTY BOUNDARY

RAILROAD TRACKS

0 3000 FEET

SOURCE:USGS

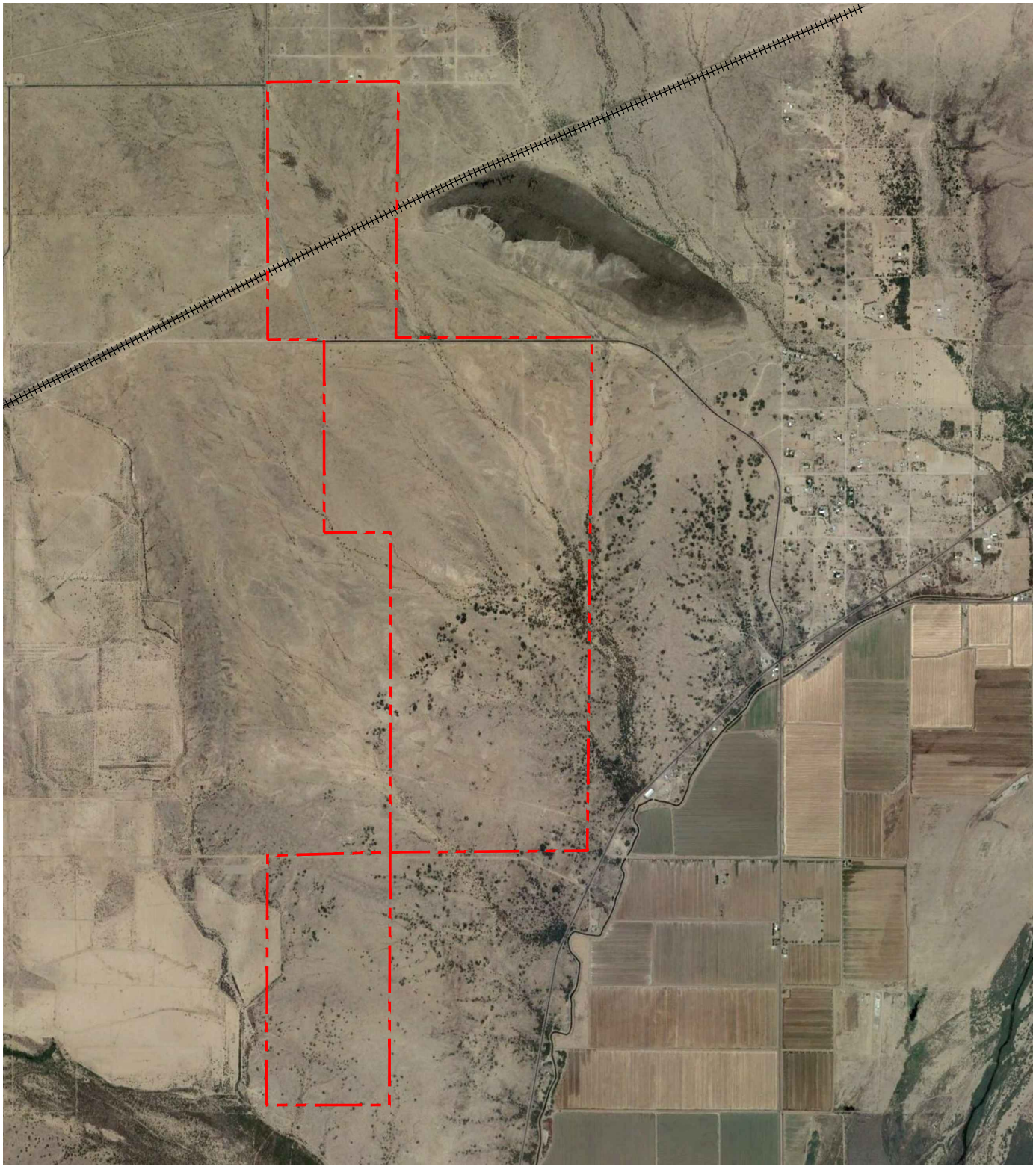
FIRST SOLAR
SUN STREAMS 4
ARLINGTON, ARIZONA

HISTORIC AERIAL
2007

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3F

CITY:IRVINE DIV/GROUP:ENV_CAD DB:CAD C:\Users\lemuresa\OneDrive - ARCADIS\BIM 360 Docs\First Solar\First Solar - Sun Streams 4 Arlington AZ\CO0020470036.0000\01-DWG\Sun Streams 4 Arlington AZ.dwg LAYOUT: 3F SAVED: 9/17/2018 10:34 PM ACADVER: 20.1S (LMS TECH)
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/17/2018 10:34 PM BY: MURESAN, ELENA



LEGEND:

PROPERTY BOUNDARY

RAILROAD TRACKS

0 3000 FEET

SOURCE:USGS

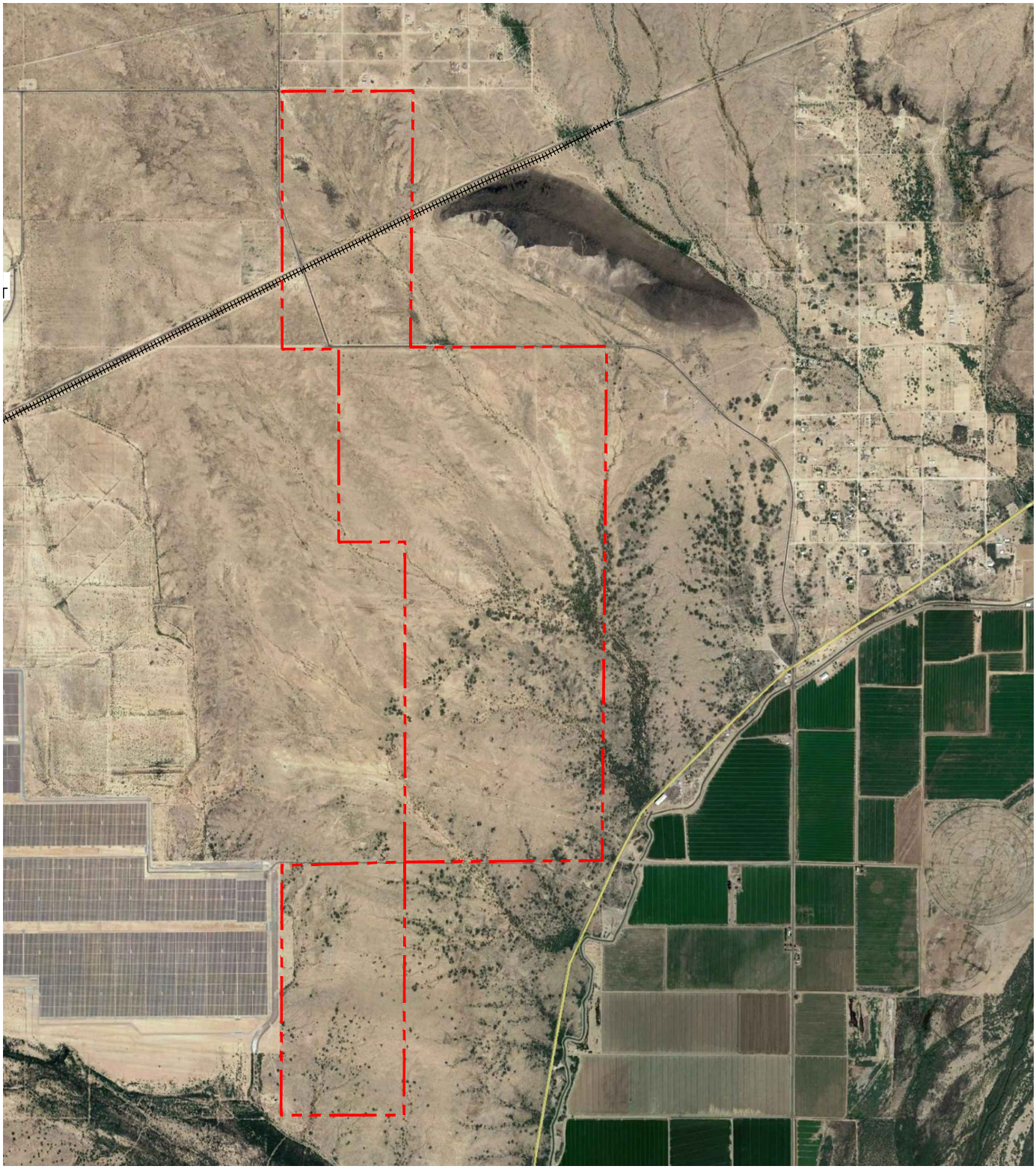
FIRST SOLAR
SUN STREAMS 4
ARLINGTON, ARIZONA

HISTORIC AERIAL
2012

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3G

CITY:IRVINE DIV/GROUP:ENV_CAD DB:CAD C:\Users\lemuresa\OneDrive - ARCADIS\BIM 360 Docs\First Solar\First Solar - Sun Streams 4 Arlington AZ\CO0020470036.0000\01-DWG\Sun Streams 4 Arlington AZ.dwg LAYOUT: 3G SAVED: 9/17/2018 10:34 PM ACADVER: 20.1S (LMS TECH)
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/17/2018 10:34 PM BY: MURESAN, ELENA



LEGEND:

PROPERTY BOUNDARY

RAILROAD TRACKS

0 3000 FEET

SOURCE:USGS

FIRST SOLAR
SUN STREAMS 4
ARLINGTON, ARIZONA

HISTORIC AERIAL
2017

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3H

CITY:IRVINE DIV/GROUP:ENV_CAD DB:CAD C:\Users\lemuresa\OneDrive - ARCADIS\BIM 360 Docs\First Solar\First Solar - Sun Streams 4 Arlington AZ\CO0020470036.0000\01-DWG\Sun Streams 4 Arlington AZ.dwg LAYOUT: 3H SAVED: 9/17/2018 10:35 PM ACADVER: 20.1S (LMS TECH)
PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/17/2018 10:35 PM BY: MURESAN, ELENA

APPENDIX D

EDR Radius Map Report

Sun Streams 4
Sun Streams 4
Arlington, AZ 85322

Inquiry Number: 5427390.1s
September 18, 2018

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	21
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-14
Physical Setting Source Map Findings	A-16
Physical Setting Source Records Searched	PSGR-1

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

SUN STREAMS 4
ARLINGTON, AZ 85322

COORDINATES

Latitude (North):	33.3184610 - 33˚ 19' 6.45''
Longitude (West):	112.8079600 - 112˚ 48' 28.65''
Universal Tranverse Mercator:	Zone 12
UTM X (Meters):	331702.4
UTM Y (Meters):	3687859.0
Elevation:	834 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	6718581 ARLINGTON, AZ
Version Date:	2014

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20150531
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
SUN STREAMS 4
ARLINGTON, AZ 85322

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	ARLINGTON VALLEY SOL	15600 SOUTH OLD U.S.	AST	Lower	7209, 1.365, SW
A2	ARLINGTON VALLEY SOL	355TH AVE & CACTUS R	Dry Wells	Lower	7209, 1.365, SW
A3	ARLINGTON VALLEY SOL		EMAP	Lower	7209, 1.365, SW
B4	BALDWIN METALS (ASLD	355 AVE AND SOUTHERN	RGA HWS	Higher	7380, 1.398, NNW
B5	FORMER BALDWIN METAL		EMAP	Higher	7380, 1.398, NNW
B6	FORMER BALDWIN METAL	355TH AVE & THE SOUT	FINDS, ECHO	Higher	7380, 1.398, NNW
B7	BALDWIN METALS (ASLD	355 AVE AND SOUTHERN	SHWS	Higher	7380, 1.398, NNW
B8	FORMER BALDWIN METAL	355TH AVE & THE SOUT	RCRA NonGen / NLR, MANIFEST	Higher	7380, 1.398, NNW
B9	BALDWIN METALS		EMAP	Higher	7380, 1.398, NNW
C10	FACILITY INSPECTION	15600 S OLD US HWY 8	EMAP	Lower	7425, 1.406, SSE
C11	DM - MANHOLE #2	15600 S OLD HWY 80	EMAP	Lower	7425, 1.406, SSE
12	ARLINGTON VALLEY SOL	SOUTH OF ELLIOT ROAD	FINDS	Lower	9312, 1.764, WSW
D13	COMPARTMENT A		EMAP	Lower	10259, 1.943, SE
D14	PIPING		EMAP	Lower	10259, 1.943, SE
D15	TANK #1		EMAP	Lower	10259, 1.943, SE
E16	REDHAWK POWER PLANT		EMAP	Higher	10303, 1.951, WNW
E17	REDHAWK POWER PLANT		EMAP	Higher	10303, 1.951, WNW
E18	REDHAWK POWER PLANT		EMAP	Higher	10303, 1.951, WNW
E19	REDHAWK POWER PLANT		EMAP	Higher	10303, 1.951, WNW
E20	LCRS AT BRINE CONCEN		EMAP	Higher	10303, 1.951, WNW
E21	BCSP - BRINE CONCENT		EMAP	Higher	10303, 1.951, WNW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

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

Federal CERCLIS NFRAP site list

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

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-SQG ..... RCRA - Small Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System
US ENG CONTROLS ..... Engineering Controls Sites List

EXECUTIVE SUMMARY

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

AZ NPL..... NPL Detail Listing
AZ WQARF..... Water Quality Assurance Revolving Fund Sites

State- and tribal - equivalent CERCLIS

SPL..... Superfund Program List

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

SWF/LF..... Directory of Solid Waste Facilities

State and tribal leaking storage tank lists

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

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
UST..... Underground Storage Tank Listing
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

AZURITE..... Remediation and DEUR/VEMUR Tracking System
AUL..... DEUR Database

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Remediation Program Sites

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields Tracking System

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Local Lists of Landfill / Solid Waste Disposal Sites

SWTIRE..... Solid Waste Tire Facilities
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

EXECUTIVE SUMMARY

DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
ODI	Open Dump Inventory
IHS OPEN DUMPS	Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
CDL	Clandestine Drug Labs
US CDL	National Clandestine Laboratory Register

Local Land Records

LIENS 2	CERCLA Lien Information

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
SPILLS	Hazardous Material Logbook
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
UXO	Unexploded Ordnance Sites

EXECUTIVE SUMMARY

DOCKET HWC ..... Hazardous Waste Compliance Docket Listing
FUELS PROGRAM ..... EPA Fuels Program Registered Listing
AIRS ..... Arizona Airs Database
Aquifer ..... Waste Water Treatment Facilities
AZ DOD ..... Department of Defense Sites
DRYCLEANERS ..... Drycleaner Facility Listing
Enforcement ..... Enforcement and Violation Listing
Financial Assurance ..... Financial Assurance Information Listing
UIC ..... Underground Injection Control Wells
WWFAC ..... Waste Water Treatment Facilities

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ..... Recovered Government Archive Solid Waste Facilities List
RGA LUST ..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

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

STANDARD ENVIRONMENTAL RECORDS

State- and tribal - equivalent CERCLIS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Quality's ZipAcids database.

A review of the SHWS list, as provided by EDR, and dated 01/03/2000 has revealed that there is 1 SHWS

site within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BALDWIN METALS (ASLD Facility Id: 1409	355 AVE AND SOUTHERN	NNW 1 - 2 (1.398 mi.)	B7	12

State and tribal registered storage tank lists

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Environmental Quality's Arizona UST-DMS Facility and Tank Data Listing by City database.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 2 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ARLINGTON VALLEY SOL Database: AST, Date of Government Version: 07/09/2018 Facility Status: Permitted	15600 SOUTH OLD U.S.	SW 1 - 2 (1.365 mi.)	A1	8

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

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

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA NonGen / NLR site within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER BALDWIN METAL EPA ID:: AZR000033100	***355TH AVE & THE SOUT***	***NNW 1 - 2 (1.398 mi.)***	***B8***	***13***

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 02/21/2018 has revealed that there are 2

EXECUTIVE SUMMARY

FINDS sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER BALDWIN METAL Registry ID:: 110021005302	***355TH AVE & THE SOUT***	***NNW 1 - 2 (1.398 mi.)***	***B6***	***12***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ARLINGTON VALLEY SOL Registry ID:: 110045008102	SOUTH OF ELLIOT ROAD	WSW 1 - 2 (1.764 mi.)	12	16

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

A review of the ECHO list, as provided by EDR, and dated 09/02/2018 has revealed that there is 1 ECHO site within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER BALDWIN METAL Registry ID: 110021005302	***355TH AVE & THE SOUT***	***NNW 1 - 2 (1.398 mi.)***	***B6***	***12***

Dry Wells: Drywell is a bored, drilled, or driven shaft or hole whose depth is greater than its width and is designed and constructed specifically for the disposal of storm water. The source is Arizona's Department of Environmental Quality.

A review of the Dry Wells list, as provided by EDR, and dated 06/17/2018 has revealed that there is 1 Dry Wells site within approximately 2 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ARLINGTON VALLEY SOL	355TH AVE & CACTUS R	SW 1 - 2 (1.365 mi.)	A2	8

EMAP: A listing of all places of interest to the Department of Environmental Quality, including air, waste and water sites.

A review of the EMAP list, as provided by EDR, and dated 04/09/2018 has revealed that there are 14 EMAP sites within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER BALDWIN METAL Facility Status: ACTIVE ID Number: 111844		NNW 1 - 2 (1.398 mi.)	B5	11
BALDWIN METALS Facility Status: NOT ACTIVE ID Number: 4772		NNW 1 - 2 (1.398 mi.)	B9	14
REDHAWK POWER PLANT Facility Status: ACTIVE ID Number: 16185		WNW 1 - 2 (1.951 mi.)	E16	17
REDHAWK POWER PLANT		WNW 1 - 2 (1.951 mi.)	E17	18

Facility Status: ACTIVE ID Number: 16182				
REDHAWK POWER PLANT Facility Status: ACTIVE ID Number: 16184		WNW 1 - 2 (1.951 mi.)	E18	18
REDHAWK POWER PLANT Facility Status: ACTIVE ID Number: 16183		WNW 1 - 2 (1.951 mi.)	E19	18
LCRS AT BRINE CONCEN Facility Status: ACTIVE ID Number: 16181		WNW 1 - 2 (1.951 mi.)	E20	19
BCSP - BRINE CONCENT Facility Status: ACTIVE ID Number: 16180		WNW 1 - 2 (1.951 mi.)	E21	19

Lower Elevation	Address	Direction / Distance	Map ID	Page
ARLINGTON VALLEY SOL Facility Status: ACTIVE ID Number: 142138		SW 1 - 2 (1.365 mi.)	A3	11
FACILITY INSPECTION Facility Status: ACTIVE ID Number: 144722	15600 S OLD US HWY 8	SSE 1 - 2 (1.406 mi.)	C10	15
DM - MANHOLE #2 Facility Status: ACTIVE ID Number: 144721	15600 S OLD HWY 80	SSE 1 - 2 (1.406 mi.)	C11	15
COMPARTMENT A Facility Status: ACTIVE ID Number: 67072		SE 1 - 2 (1.943 mi.)	D13	16
PIPING Facility Status: ACTIVE ID Number: 101717		SE 1 - 2 (1.943 mi.)	D14	16
TANK #1 Facility Status: ACTIVE ID Number: 54089		SE 1 - 2 (1.943 mi.)	D15	17

MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the MANIFEST list, as provided by EDR, and dated 12/31/2017 has revealed that there is 1 MANIFEST site within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORMER BALDWIN METAL EPA Id: AZR000033100	***355TH AVE & THE SOUT***	***NNW 1 - 2 (1.398 mi.)***	***B8***	***13***

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Arizona.

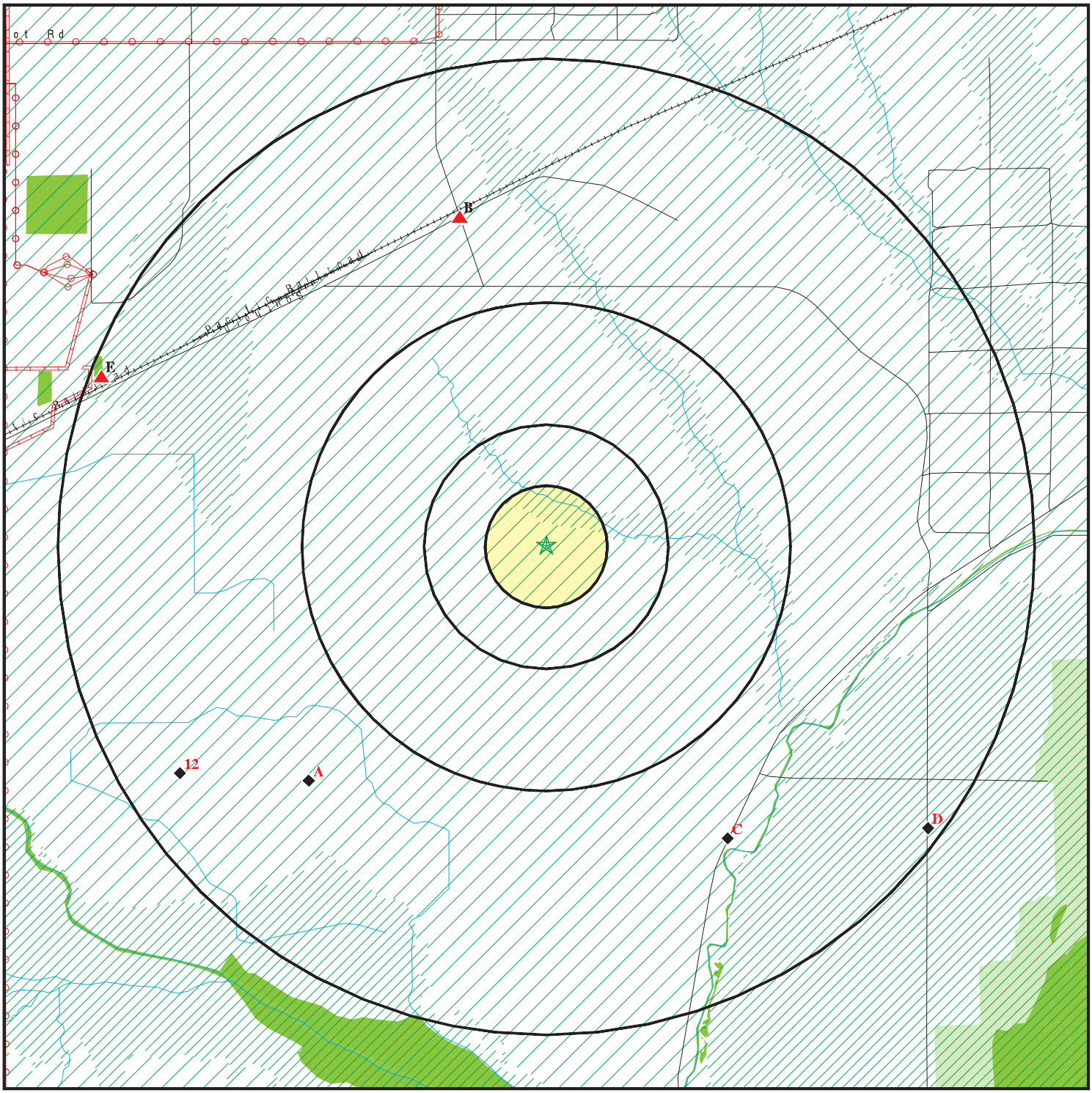
A review of the RGA HWS list, as provided by EDR, has revealed that there is 1 RGA HWS site within approximately 2 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BALDWIN METALS (ASLD Facility ID: 1409	355 AVE AND SOUTHERN	NNW 1 - 2 (1.398 mi.)	B4	11

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 5427390.1S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites

0 1/2 1 2 Miles

- Indian Reservations BIA
- Power transmission lines
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Upgradient Area
- DOD Sites: AZ DEQ
- Water Quality Assurance Revolving Fund Areas
- AZ NPL

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

SITE NAME: Sun Streams 4	CLIENT: ARCADIS U.S., Inc.
ADDRESS: Sun Streams 4 Arlington AZ 85322	CONTACT: Janet Holtz
LAT/LONG: 33.318461 / 112.80796	INQUIRY #: 5427390.1s
	DATE: September 18, 2018 11:46 am

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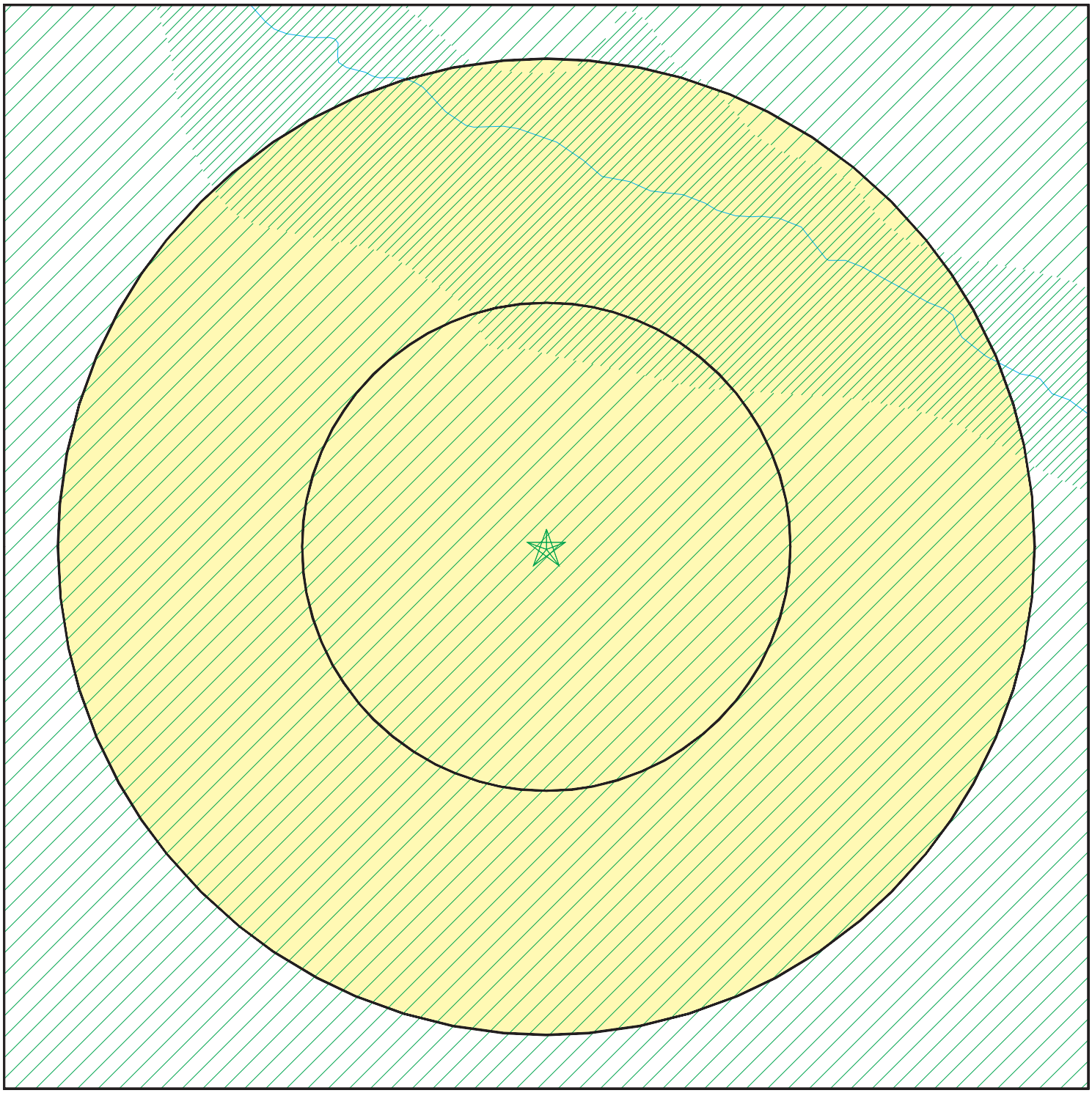
DETAIL MAP - 5427390.1S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

100-year flood zone

500-year flood zone

DOD Sites: AZ DEQ

Water Quality Assurance Revolving Fund Areas

AZ NPL

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

SITE NAME: Sun Streams 4	CLIENT: ARCADIS U.S., Inc.
ADDRESS: Sun Streams 4 Arlington AZ 85322	CONTACT: Janet Holtz INQUIRY #: 5427390.1s
LAT/LONG: 33.318461 / 112.80796	DATE: September 18, 2018 11:47 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	2.000		0	0	0	0	0	0
Proposed NPL	2.000		0	0	0	0	0	0
NPL LIENS	2.000		0	0	0	0	0	0
Federal Delisted NPL site list								
Delisted NPL	2.000		0	0	0	0	0	0
Federal CERCLIS list								
FEDERAL FACILITY	2.000		0	0	0	0	0	0
SEMS	2.000		0	0	0	0	0	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	2.000		0	0	0	0	0	0
Federal RCRA CORRACTS facilities list								
CORRACTS	2.000		0	0	0	0	0	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	2.000		0	0	0	0	0	0
Federal RCRA generators list								
RCRA-LQG	2.000		0	0	0	0	0	0
RCRA-SQG	2.000		0	0	0	0	0	0
RCRA-CESQG	2.000		0	0	0	0	0	0
Federal institutional controls / engineering controls registries								
LUCIS	2.000		0	0	0	0	0	0
US ENG CONTROLS	2.000		0	0	0	0	0	0
US INST CONTROL	2.000		0	0	0	0	0	0
Federal ERNS list								
ERNS	2.000		0	0	0	0	0	0
State- and tribal - equivalent NPL								
AZ NPL	2.000		0	0	0	0	0	0
AZ WQARF	2.000		0	0	0	0	0	0
State- and tribal - equivalent CERCLIS								
SPL	2.000		0	0	0	0	0	0
SHWS	2.000		0	0	0	0	1	1
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	2.000		0	0	0	0	0	0
State and tribal leaking storage tank lists								
LUST	2.000		0	0	0	0	0	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	2.000		0	0	0	0	0	0
State and tribal registered storage tank lists								
FEMA UST	2.000		0	0	0	0	0	0
UST	2.000		0	0	0	0	0	0
AST	2.000		0	0	0	0	1	1
INDIAN UST	2.000		0	0	0	0	0	0
State and tribal institutional control / engineering control registries								
AZURITE	2.000		0	0	0	0	0	0
AUL	2.000		0	0	0	0	0	0
State and tribal voluntary cleanup sites								
INDIAN VCP	2.000		0	0	0	0	0	0
VCP	2.000		0	0	0	0	0	0
State and tribal Brownfields sites								
BROWNFIELDS	2.000		0	0	0	0	0	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	2.000		0	0	0	0	0	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWTIRE	2.000		0	0	0	0	0	0
INDIAN ODI	2.000		0	0	0	0	0	0
DEBRIS REGION 9	2.000		0	0	0	0	0	0
ODI	2.000		0	0	0	0	0	0
IHS OPEN DUMPS	2.000		0	0	0	0	0	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	2.000		0	0	0	0	0	0
CDL	2.000		0	0	0	0	0	0
US CDL	2.000		0	0	0	0	0	0
Local Land Records								
LIENS 2	2.000		0	0	0	0	0	0
Records of Emergency Release Reports								
HMIRS	2.000		0	0	0	0	0	0
SPILLS	2.000		0	0	0	0	0	0
SPILLS 90	2.000		0	0	0	0	0	0
Other Ascertainable Records								
RCRA NonGen / NLR	2.000		0	0	0	0	1	1
FUDS	2.000		0	0	0	0	0	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DOD	2.000		0	0	0	0	0	0
SCRD DRYCLEANERS	2.000		0	0	0	0	0	0
US FIN ASSUR	2.000		0	0	0	0	0	0
EPA WATCH LIST	2.000		0	0	0	0	0	0
2020 COR ACTION	2.000		0	0	0	0	0	0
TSCA	2.000		0	0	0	0	0	0
TRIS	2.000		0	0	0	0	0	0
SSTS	2.000		0	0	0	0	0	0
ROD	2.000		0	0	0	0	0	0
RMP	2.000		0	0	0	0	0	0
RAATS	2.000		0	0	0	0	0	0
PRP	2.000		0	0	0	0	0	0
PADS	2.000		0	0	0	0	0	0
ICIS	2.000		0	0	0	0	0	0
FTTS	2.000		0	0	0	0	0	0
MLTS	2.000		0	0	0	0	0	0
COAL ASH DOE	2.000		0	0	0	0	0	0
COAL ASH EPA	2.000		0	0	0	0	0	0
PCB TRANSFORMER	2.000		0	0	0	0	0	0
RADINFO	2.000		0	0	0	0	0	0
HIST FTTS	2.000		0	0	0	0	0	0
DOT OPS	2.000		0	0	0	0	0	0
CONSENT	2.000		0	0	0	0	0	0
INDIAN RESERV	2.000		0	0	0	0	0	0
FUSRAP	2.000		0	0	0	0	0	0
UMTRA	2.000		0	0	0	0	0	0
LEAD SMELTERS	2.000		0	0	0	0	0	0
US AIRS	2.000		0	0	0	0	0	0
US MINES	2.000		0	0	0	0	0	0
ABANDONED MINES	2.000		0	0	0	0	0	0
FINDS	2.000		0	0	0	0	2	2
UXO	2.000		0	0	0	0	0	0
DOCKET HWC	2.000		0	0	0	0	0	0
ECHO	2.000		0	0	0	0	1	1
FUELS PROGRAM	2.000		0	0	0	0	0	0
AIRS	2.000		0	0	0	0	0	0
Aquifer	2.000		0	0	0	0	0	0
AZ DOD	2.000		0	0	0	0	0	0
Dry Wells	2.000		0	0	0	0	1	1
DRYCLEANERS	2.000		0	0	0	0	0	0
EMAP	2.000		0	0	0	0	14	14
Enforcement	2.000		0	0	0	0	0	0
Financial Assurance	2.000		0	0	0	0	0	0
MANIFEST	2.000		0	0	0	0	1	1
UIC	2.000		0	0	0	0	0	0
WWFAC	2.000		0	0	0	0	0	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	2.000		0	0	0	0	0	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto	2.000		0	0	0	0	0	0
EDR Hist Cleaner	2.000		0	0	0	0	0	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA HWS	2.000		0	0	0	0	1	1
RGA LF	2.000		0	0	0	0	0	0
RGA LUST	2.000		0	0	0	0	0	0
- Totals --		0	0	0	0	0	23	23

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 SW > 1 1.365 mi. 7209 ft. | **ARLINGTON VALLEY SOLAR ENERGY II** | **AST** | **A100380829**
15600 SOUTH OLD U.S. HWY. 80 | **N/A**
ARLINGTON, AZ

Site 1 of 3 in cluster A

Relative: Lower
Actual: 819 ft.

AST:

Facility Status:	Permitted
Permit #:	3040
Permit Year:	2001
Submitter:	Duke Energy (Hubert Ausbie)
Submitter Phone:	(623) 393-8100
Memo:	5/12/06 - owner name change to LSP Arlington Valley, LLC. jrowlinson
Approval Date:	04/16/2001

A2 SW > 1 1.365 mi. 7209 ft. | **ARLINGTON VALLEY SOLAR ENERGY II** | **Dry Wells** | **S113727892**
355TH AVE & CACTUS RD | **N/A**
ARLINGTON, AZ 85322

Site 2 of 3 in cluster A

Relative: Lower
Actual: 819 ft.

DRY WELLS:

Drywell Number:	12
Drywell Status:	Not reported
Drywell Status Change:	Not reported
Other Drywell Status:	Not reported
Facility Phone:	Not reported
Registration Number:	48722
County Code:	07
Business Code:	10
Reg Thru Number:	48733
Fee:	1200.00
Owner Contact Name:	Not reported
Owner Id:	Not reported
Prop Owner Name:	ARLINGTON VALLEY SOLAR ENERGY II, LLC
Prop Owner Address:	15500 SOUTH OLD HWY 80
Prop Owner City/State/Zip:	85322
Prop Owner Phone:	520-858-5774
Contact Person Name:	Not reported
Contact Person Title:	TORRRENT RESOURCES
Contact Person Address:	Not reported
Contact Person City/State/Zip:	Not reported
Contact Person Phone:	602-268-0785
Township:	1S
Range:	6W
Section1:	36
Quarter Section:	Not reported
DW Penetrate Groundwater:	Not reported
Site Plan Sent:	Not reported
Entry Date:	06/06/2013
Other Business:	Not reported
Section2:	Not reported
Section3:	Not reported
Proj Officer:	121
In Compliance Letter:	06/06/2013
Request Date:	Not reported
Incomplete Submittal:	Not reported
App Det App:	Not reported
App Required:	Not reported
Future App Required:	Not reported

ARLINGTON VALLEY SOLAR ENERGY II (Continued) **S113727892**

Mgmt Practice Plan:	Not reported
Drillers Log:	Not reported
Additional Fee:	Not reported
Request 2 For Info:	Not reported
Refer To Compliance:	Not reported
App Date:	Not reported
Reg Received Date:	6/6/2013
Permitting Notification:	Not reported
Registration Number 1:	48722
Registration Key:	48722
Driveway:	Not reported
Rooftop:	Not reported
Street:	Not reported
Drywell Number:	3
Drywell Status:	A
Drywell Status Change:	Not reported
Other Drywell Status:	Not reported
Facility Phone:	Not reported
Registration Number:	49174
County Code:	07
Business Code:	10
Reg Thru Number:	49176
Fee:	300.00
Owner Contact Name:	Not reported
Owner Id:	14
Prop Owner Name:	ARLINGTON VALLEY SOLAR ENERGY II, LLC
Prop Owner Address:	15500 S. OLD HIGHWAY 80
Prop Owner City/State/Zip:	85322
Prop Owner Phone:	520-858-5774
Contact Person Name:	Not reported
Contact Person Title:	TORRENT RESOURCES
Contact Person Address:	Not reported
Contact Person City/State/Zip:	Not reported
Contact Person Phone:	268-0785
Township:	1S
Range:	6W
Section1:	36
Quarter Section:	Not reported
DW Penetrate Groundwater:	Not reported
Site Plan Sent:	Not reported
Entry Date:	08/27/2013
Other Business:	Not reported
Section2:	Not reported
Section3:	Not reported
Proj Officer:	121
In Compliance Letter:	08/27/2013
Request Date:	Not reported
Incomplete Submittal:	Not reported
App Det App:	Not reported
App Required:	Not reported
Future App Required:	Not reported
Mgmt Practice Plan:	Not reported
Drillers Log:	Not reported
Additional Fee:	Not reported
Request 2 For Info:	Not reported
Refer To Compliance:	Not reported

ARLINGTON VALLEY SOLAR ENERGY II (Continued) **S113727892**

App Date:	Not reported
Reg Received Date:	8/27/2013
Permitting Notification:	Not reported
Registration Number 1:	49174
Registration Key:	49174
Driveway:	Yes
Rooftop:	Yes
Street:	Yes
Drywell Number:	2
Drywell Status:	A
Drywell Status Change:	Not reported
Other Drywell Status:	Not reported
Facility Phone:	Not reported
Registration Number:	49753
County Code:	07
Business Code:	10
Reg Thru Number:	49754
Fee:	200
Owner Contact Name:	Not reported
Owner Id:	17
Prop Owner Name:	ARLINGTON VALLEY SOLAR ENERGY II, LLC
Prop Owner Address:	15500 S. OLD HIGHWAY 80
Prop Owner City/State/Zip:	85322
Prop Owner Phone:	520-858-5774
Contact Person Name:	Not reported
Contact Person Title:	TORRENT RESOURCES
Contact Person Address:	Not reported
Contact Person City/State/Zip:	Not reported
Contact Person Phone:	268-0785
Township:	1S
Range:	6W
Section1:	36
Quarter Section:	Not reported
DW Penetrate Groundwater:	Not reported
Site Plan Sent:	Not reported
Entry Date:	01/21/2014
Other Business:	Not reported
Section2:	Not reported
Section3:	Not reported
Proj Officer:	121
In Compliance Letter:	01/21/2014
Request Date:	Not reported
Incomplete Submittal:	Not reported
App Det App:	Not reported
App Required:	Not reported
Future App Required:	Not reported
Mgmt Practice Plan:	Not reported
Drillers Log:	Not reported
Additional Fee:	Not reported
Request 2 For Info:	Not reported
Refer To Compliance:	Not reported
App Date:	Not reported
Reg Received Date:	1/21/2014
Permitting Notification:	Not reported
Registration Number 1:	49753
Registration Key:	49753

ARLINGTON VALLEY SOLAR ENERGY II (Continued) **S113727892**

Driveway: Yes
Rooftop: Yes
Street: Yes

A3
SW
> 1
1.365 mi.
7209 ft.

ARLINGTON VALLEY SOLAR ENERGY II **EMAP** **S117586534**
N/A

ARLINGTON, AZ 85322

Site 3 of 3 in cluster A

Relative:
Lower

Actual:
819 ft.

EMAP:

ID Number:	142138
Township:	Not reported
Range:	Not reported
Section:	Not reported
Quarter 1:	Not reported
Quarter 2:	Not reported
Quarter 3:	Not reported
Latitude:	33.304458444
Longitude:	-112.83379681
Collection Method:	DIGITAL IMAGERY
Place Type:	ELECTRICITY GENERATING PLANT
Place Type Code:	ELECT
Place C Code:	PP
Facility Status:	ACTIVE
End Date:	Not reported
Verified:	Y

B4
NNW
> 1
1.398 mi.
7380 ft.

BALDWIN METALS (ASLD) **RGA HWS** **S114981538**
355 AVE AND SOUTHERN PACIFIC RAILROAD **N/A**
ARLINGTON, AZ

Site 1 of 6 in cluster B

Relative:
Higher

Actual:
871 ft.

RGA HWS:

2000 BALDWIN METALS (ASLD) 355 AVE AND SOUTHERN PACIFIC RAILROAD
1999 BALDWIN METALS (ASLD) 355 AVE AND SOUTHERN PACIFIC RAILROAD
1998 BALDWIN METALS (ASLD) 355 AVE AND SOUTHERN PACIFIC RAILROAD
1997 BALDWIN METALS (ASLD) 355 AVE AND SOUTHERN PACIFIC RAILROAD

B5
NNW
> 1
1.398 mi.
7380 ft.

FORMER BALDWIN METALS PROCESSING FACILITY **EMAP** **S117596599**
N/A

ARLINGTON, AZ 85322

Site 2 of 6 in cluster B

Relative:
Higher

Actual:
871 ft.

EMAP:

ID Number:	111844
Township:	Not reported
Range:	Not reported
Section:	Not reported
Quarter 1:	Not reported

FORMER BALDWIN METALS PROCESSING FACILITY (Continued) **S117596599**

Quarter 2:	Not reported
Quarter 3:	Not reported
Latitude:	33.338996
Longitude:	-112.817829
Collection Method:	DIGITAL IMAGERY
Place Type:	REMEDIATION AREA
Place Type Code:	RA
Place C Code:	PP
Facility Status:	ACTIVE
End Date:	Not reported
Verified:	Y

B6 **FORMER BALDWIN METALS PROCESSING FACILIT** **FINDS** **1008230492**
NNW **355TH AVE & THE SOUTHERN** **ECHO** **N/A**
> 1 **ARLINGTON, AZ 85322**
1.398 mi.
7380 ft. **Site 3 of 6 in cluster B**

Relative:
Higher

Actual:
871 ft.

FINDS:

Registry ID: 110021005302

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

AZURITE (Arizona Unified Repository For Informational Tracking Of The Environment is the Arizona Department of Environmental Quality (ADEQ) database that is used for environmental enforcement and compliance reporting to the Permit and Compliance (PCS) system and to the Air Facility System Universal Interface (AFS-UI).

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

ECHO:

Envid:	1008230492
Registry ID:	110021005302
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110021005302

B7 **BALDWIN METALS (ASLD)** **SHWS** **S103931992**
NNW **355 AVE AND SOUTHERN PACIFIC RAILROAD** **N/A**
> 1 **ARLINGTON, AZ 85332**
1.398 mi.
7380 ft. **Site 4 of 6 in cluster B**

Relative:
Higher

Actual:
871 ft.

SHWS:

EPA ID:	Not reported
Program:	VOLUNTARY
Site Code:	501509
Facility Id:	1409

BALDWIN METALS (ASLD) (Continued) **S103931992**

Discovery Date: 19960416
Source: Not reported
Operable Unit: 0
QWARF Area: Not reported
Lat: Not reported
Long: Not reported
Lat/Long Method: 10
Comments: Not reported

B8
NNW
> 1
1.398 mi.
7380 ft.

FORMER BALDWIN METALS PROCESSING FACILITY **RCRA NonGen / NLR** **1008194316**
355TH AVE & THE SOUTHERN **MANIFEST** **AZR000033100**
ARLINGTON, AZ 85322

Site 5 of 6 in cluster B

Relative:
Higher

Actual:
871 ft.

RCRA NonGen / NLR:
Date form received by agency: 07/23/2008
Facility name: FORMER BALDWIN METALS PROCESSING FACILITY
Facility address: 355TH AVE & THE SOUTHERN
PACIFIC RR
ARLINGTON, AZ 85322
EPA ID: AZR000033100
Mailing address: 1616 W ADAMS ST
PHOENIX, AZ 85007-2614
Contact: ERIK LOHMAN
Contact address: 100 N 15TH AVE STE 301
PHOENIX, AZ 85007-2634
Contact country: Not reported
Contact telephone: 701-261-5153
Contact email: ERIK.LOHMAN@AZDOA.GOV
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

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

Historical Generators:
Date form received by agency: 08/06/2007
Site name: FORMER BALDWIN METALS PROCESSING FACILITY
Classification: Not a generator, verified

Date form received by agency: 04/02/2007

FORMER BALDWIN METALS PROCESSING FACILITY (Continued) **1008194316**

Site name: FORMER BALDWIN METALS PROCESSING FACILITY
Classification: Large Quantity Generator

Date form received by agency: 03/23/2005
Site name: FORMER BALDWIN METALS PROCESSING FACILIT
Classification: Large Quantity Generator

. Waste code: D004
. Waste name: ARSENIC

Violation Status: No violations found

AZ MANIFEST:

Report Year:	Not reported
EPA Id:	AZR000033100
Business Type:	S
Mailing Address:	1616 W ADAMS (ENVIRO SVCS)
Mailing State:	AZ
Contact Name:	BRUCE CAMPBELL
Contact Phone:	(602) 542-2578
Management Methods:	Not reported
Date Generator Signed The Manifest:	05/19/2005
Transporter EPA Id Number:	AZR000035717
Date Transporter Signed The Manifest:	05/19/2005
TSD EPA Id Number:	Not reported
Volume:	T
Date TSD Signed Manifest:	/ /
DOT Id Number:	NA3077
Quantity:	5.00
Waste Code 1:	D004
Waste Code 2:	Not reported
Waste Code 3:	Not reported
Waste Code 4:	Not reported
Waste Code 5:	Not reported
Waste Code 6:	Not reported
Waste Code 7:	Not reported
Waste Code 8:	Not reported
Waste Code 10:	Not reported
Waste Code 9:	Not reported
Waste Code 11:	Not reported
Waste Code 12:	Not reported
Waste Code 13:	Not reported

B9 **BALDWIN METALS** **EMAP** **S117587369**
NNW **N/A**
> 1 **ARLINGTON, AZ**
1.398 mi.
7380 ft. **Site 6 of 6 in cluster B**

Relative:
Higher

Actual:
871 ft.

EMAP:

ID Number:	4772
Township:	1S
Range:	5W
Section:	7
Quarter 1:	SE
Quarter 2:	SE
Quarter 3:	SE
Latitude:	33.339047497

BALDWIN METALS (Continued) **S117587369**

Longitude:	-112.81746736
Collection Method:	DIGITAL IMAGERY
Place Type:	METAL FABRICATOR - METAL PRODUCTS
Place Type Code:	MFAB
Place C Code:	PP
Facility Status:	NOT ACTIVE
End Date:	09/28/2009
Verified:	Y

C10 **FACILITY INSPECTION** **EMAP** **S117595752**
SSE **15600 S OLD US HWY 80** **N/A**
> 1 **ARLINGTON, AZ 85322**
1.406 mi.
7425 ft. **Site 1 of 2 in cluster C**

Relative:
Lower

Actual:
804 ft.

EMAP:

ID Number:	144722
Township:	Not reported
Range:	Not reported
Section:	Not reported
Quarter 1:	Not reported
Quarter 2:	Not reported
Quarter 3:	Not reported
Latitude:	33.30464075
Longitude:	-112.83376439
Collection Method:	DIGITAL IMAGERY
Place Type:	WASTEWATER MONITORING POINT
Place Type Code:	WWMP
Place C Code:	RO
Facility Status:	ACTIVE
End Date:	Not reported
Verified:	Y

C11 **DM - MANHOLE #2** **EMAP** **S117594284**
SSE **15600 S OLD HWY 80** **N/A**
> 1 **ARLINGTON, AZ 85322**
1.406 mi.
7425 ft. **Site 2 of 2 in cluster C**

Relative:
Lower

Actual:
804 ft.

EMAP:

ID Number:	144721
Township:	Not reported
Range:	Not reported
Section:	Not reported
Quarter 1:	Not reported
Quarter 2:	Not reported
Quarter 3:	Not reported
Latitude:	33.304294528
Longitude:	-112.83374544
Collection Method:	DIGITAL IMAGERY
Place Type:	WASTEWATER MONITORING POINT
Place Type Code:	WWMP
Place C Code:	RO
Facility Status:	ACTIVE
End Date:	Not reported
Verified:	Y

12 WSW > 1 1.764 mi. 9312 ft. | **ARLINGTON VALLEY SOLAR ENERGY I**
SOUTH OF ELLIOT ROAD AND WEST
ARLINGTON, AZ 85322 | **FINDS** | **1015948994**
N/A

Relative: Lower
Actual: 821 ft.

FINDS:

Registry ID: 110045008102

Environmental Interest/Information System
ELECTRIC GENERATOR

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

D13 SE > 1 1.943 mi. 10259 ft. | **COMPARTMENT A**
, AZ
Site 1 of 3 in cluster D | **EMAP** | **S118009676**
N/A

Relative: Lower
Actual: 778 ft.

EMAP:

ID Number:	67072
Township:	Not reported
Range:	Not reported
Section:	Not reported
Quarter 1:	Not reported
Quarter 2:	Not reported
Quarter 3:	Not reported
Latitude:	33.301725082
Longitude:	-112.78093138
Collection Method:	GPS WITH CORRECTION < 3 METER ERROR
Place Type:	UNDERGROUND STORAGE TANK COMPARTMENT
Place Type Code:	CMPT
Place C Code:	RO
Facility Status:	ACTIVE
End Date:	Not reported
Verified:	Y

D14 SE > 1 1.943 mi. 10259 ft. | **PIPING**
, AZ
Site 2 of 3 in cluster D | **EMAP** | **S118046308**
N/A

Relative: Lower
Actual: 778 ft.

EMAP:

ID Number:	101717
Township:	Not reported
Range:	Not reported
Section:	Not reported
Quarter 1:	Not reported
Quarter 2:	Not reported
Quarter 3:	Not reported
Latitude:	33.301725082
Longitude:	-112.78093138
Collection Method:	GPS WITH CORRECTION < 3 METER ERROR

PIPING (Continued) **S118046308**

Place Type:	UNDERGROUND STORAGE TANK PIPING
Place Type Code:	PIPG
Place C Code:	RO
Facility Status:	ACTIVE
End Date:	Not reported
Verified:	Y

D15 **TANK #1** **EMAP** **S118057359**
SE **N/A**
> 1 **, AZ**
1.943 mi.
10259 ft. **Site 3 of 3 in cluster D**

Relative:
Lower

Actual:
778 ft.

EMAP:

ID Number:	54089
Township:	Not reported
Range:	Not reported
Section:	Not reported
Quarter 1:	Not reported
Quarter 2:	Not reported
Quarter 3:	Not reported
Latitude:	33.301723599
Longitude:	-112.78093244
Collection Method:	DIGITAL IMAGERY
Place Type:	UNDERGROUND STORAGE TANK
Place Type Code:	UST
Place C Code:	RO
Facility Status:	ACTIVE
End Date:	Not reported
Verified:	Y

E16 **REDHAWK POWER PLANT IMPOUNDMENTS - MWSP SEEPAGE MW** **EMAP** **S117611516**
WNW **N/A**
> 1 **ARLINGTON, AZ 85322**
1.951 mi.
10303 ft. **Site 1 of 6 in cluster E**

Relative:
Higher

Actual:
874 ft.

EMAP:

ID Number:	16185
Township:	1N
Range:	6E
Section:	14
Quarter 1:	Not reported
Quarter 2:	Not reported
Quarter 3:	Not reported
Latitude:	33.328611111
Longitude:	-112.83944444
Collection Method:	PROVIDED IN A WATER QUALITY PERMIT
Place Type:	WASTEWATER MONITORING POINT
Place Type Code:	WWMP
Place C Code:	RO
Facility Status:	ACTIVE
End Date:	Not reported
Verified:	Y

E17 WNW > 1 1.951 mi. 10303 ft. **REDHAWK POWER PLANT IMPOUNDMENTS - MWSP SEEPAGE MW** **EMAP** **S117611518** **N/A**

ARLINGTON, AZ 85322

Site 2 of 6 in cluster E

Relative: Higher

Actual: 874 ft.

EMAP:

ID Number:	16182
Township:	1N
Range:	6E
Section:	14
Quarter 1:	Not reported
Quarter 2:	Not reported
Quarter 3:	Not reported
Latitude:	33.328611111
Longitude:	-112.83944444
Collection Method:	PROVIDED IN A WATER QUALITY PERMIT
Place Type:	WASTEWATER MONITORING POINT
Place Type Code:	WWMP
Place C Code:	RO
Facility Status:	ACTIVE
End Date:	Not reported
Verified:	Y

E18 WNW > 1 1.951 mi. 10303 ft. **REDHAWK POWER PLANT IMPOUNDMENTS - MWSP SEEPAGE MW** **EMAP** **S117611517** **N/A**

ARLINGTON, AZ 85322

Site 3 of 6 in cluster E

Relative: Higher

Actual: 874 ft.

EMAP:

ID Number:	16184
Township:	1N
Range:	6E
Section:	14
Quarter 1:	Not reported
Quarter 2:	Not reported
Quarter 3:	Not reported
Latitude:	33.328611111
Longitude:	-112.83944444
Collection Method:	PROVIDED IN A WATER QUALITY PERMIT
Place Type:	WASTEWATER MONITORING POINT
Place Type Code:	WWMP
Place C Code:	RO
Facility Status:	ACTIVE
End Date:	Not reported
Verified:	Y

E19 WNW > 1 1.951 mi. 10303 ft. **REDHAWK POWER PLANT IMPOUNDMENTS - MWSP SEEPAGE MW** **EMAP** **S117611519** **N/A**

ARLINGTON, AZ 85322

Site 4 of 6 in cluster E

Relative: Higher

Actual: 874 ft.

EMAP:

ID Number:	16183
Township:	1N
Range:	6E

REDHAWK POWER PLANT IMPOUNDMENTS - MWSP SEEPAGE MW-14DCB (Continued) **S117611519**

Section:	14
Quarter 1:	Not reported
Quarter 2:	Not reported
Quarter 3:	Not reported
Latitude:	33.328611111
Longitude:	-112.83944444
Collection Method:	PROVIDED IN A WATER QUALITY PERMIT
Place Type:	WASTEWATER MONITORING POINT
Place Type Code:	WWMP
Place C Code:	RO
Facility Status:	ACTIVE
End Date:	Not reported
Verified:	Y

E20
WNW
> 1
1.951 mi.
10303 ft.

LCRS AT BRINE CONCENTRATOR SURGE POND **EMAP** **S117602081**
N/A

ARLINGTON, AZ 85322

Site 5 of 6 in cluster E

Relative:
Higher

Actual:
874 ft.

EMAP:

ID Number:	16181
Township:	1N
Range:	6E
Section:	14
Quarter 1:	Not reported
Quarter 2:	Not reported
Quarter 3:	Not reported
Latitude:	33.328611111
Longitude:	-112.83944444
Collection Method:	PROVIDED IN A WATER QUALITY PERMIT
Place Type:	WASTEWATER MONITORING POINT
Place Type Code:	WWMP
Place C Code:	RO
Facility Status:	ACTIVE
End Date:	Not reported
Verified:	Y

E21
WNW
> 1
1.951 mi.
10303 ft.

BCSP - BRINE CONCENTRATOR SURGE POND **EMAP** **S117587528**
N/A

ARLINGTON, AZ 85322

Site 6 of 6 in cluster E

Relative:
Higher

Actual:
874 ft.

EMAP:

ID Number:	16180
Township:	1N
Range:	6E
Section:	14
Quarter 1:	Not reported
Quarter 2:	Not reported
Quarter 3:	Not reported
Latitude:	33.328611111
Longitude:	-112.83944444
Collection Method:	PROVIDED IN A WATER QUALITY PERMIT
Place Type:	WASTEWATER MONITORING POINT

BCSP - BRINE CONCENTRATOR SURGE POND (Continued) **S117587528**

Place Type Code:	WWMP
Place C Code:	RO
Facility Status:	ACTIVE
End Date:	Not reported
Verified:	Y

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

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

Source: EPA
Telephone: N/A
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

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

Source: EPA
Telephone: N/A
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

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

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

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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

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

Source: EPA
Telephone: N/A
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

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

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

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

SEMS: Superfund Enterprise Management System

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

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

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

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

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

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

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

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 07/31/2018
Date Data Arrived at EDR: 08/28/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 17

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/28/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

Federal ERNS list

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

Date of Government Version: 06/18/2018
Date Data Arrived at EDR: 06/27/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 79

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

AZ NPL: NPL Detail Listing
Detailed site information for NPL sites from the Arizona Department of Environmental Quality.

Date of Government Version: 03/31/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 06/28/2018
Number of Days to Update: 2

Source: Department of Environmental Quality
Telephone: 602-771-4609
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

WQARF: Water Quality Assurance Revolving Fund Sites
Sites which may have an actual or potential impact upon the waters of the state, cause by hazardous substances. The WQARF program provides matching funds to political subdivisions and other state agencies for clean-up activities.

Date of Government Version: 03/31/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 06/28/2018
Number of Days to Update: 2

Source: Department of Environmental Quality
Telephone: 602-771-4360
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SPL: Superfund Program List
The list is representative of the sites and potential sites within the jurisdiction of the Superfund Program Section. It is comprised of the following elements: 1) Water Quality Assurance Revolving Fund Registry Sites; 2) Potential WQARF Registry sites; 3) NPL sites; and 4) Department of Defense sites requiring SPS oversight.

Date of Government Version: 08/25/2004
Date Data Arrived at EDR: 04/04/2018
Date Made Active in Reports: 05/17/2018
Number of Days to Update: 43

Source: Department of Environmental Quality
Telephone: 602-771-4360
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: No Update Planned

SHWS: ZipAcids List
The ACIDS list consists of more than 750 locations subject to investigation under the State Water Quality Assurance Revolving Fund (WQARF) and Federal CERCLA programs. The list is no longer updated by the state.

Date of Government Version: 01/03/2000
Date Data Arrived at EDR: 04/11/2000
Date Made Active in Reports: 05/16/2000
Number of Days to Update: 35

Source: Department of Environmental Quality
Telephone: 602-771-4360
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: No Update Planned

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

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

Date of Government Version: 03/31/2018
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 06/20/2018
Number of Days to Update: 43

Source: Department of Environmental Quality
Telephone: 602-771-2300
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Varies

State and tribal leaking storage tank lists

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

Date of Government Version: 04/17/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 56

Source: Department of Environmental Quality
Telephone: 602-771-4345
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

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

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

State and tribal registered storage tank lists

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

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Varies

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

Date of Government Version: 04/17/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 51

Source: Department of Environmental Quality
Telephone: 602-771-4345
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Annually

AST: List of Aboveground Storage Tanks
Aboveground storage tanks that the Dept. of Building & Fire Safety have permitted.

Date of Government Version: 07/09/2018
Date Data Arrived at EDR: 07/10/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 52

Source: Department of Building & Fire Safety
Telephone: 602-364-1003
Last EDR Contact: 09/10/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: No Update Planned

AST 2: Aboveground Storage Tank Listing
A listing of aboveground storage tank site locations.

Date of Government Version: 06/26/2017
Date Data Arrived at EDR: 07/12/2017
Date Made Active in Reports: 09/18/2017
Number of Days to Update: 68

Source: Department of Environmental Quality
Telephone: 602-771-4380
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

AZURITE: Remediation and DEUR/VEMUR Tracking System

ADEQ maintains a repository listing sites remediated under programs administered by the department.

Date of Government Version: 08/07/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 22

Source: Department of Environmental Quality
Telephone: 602-771-4397
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

AUL: DEUR Database

Activity and use limitations include both engineering controls and institutional controls. DEUR and VEMUR sites. DEUR: Declaration of Environmental Use Restriction. A restrictive land use covenant that is required when a property owner elects to use an institutional (i.e., administrative) control or engineering (i.e., physical) control as a means to meet remediation goals. The DEUR runs with and burdens the land, and requires maintenance of any institutional or engineering controls. VEMUR: Voluntary Environmental Mitigation Use Restriction. A restrictive land use covenant that, prior to July 18, 2000, was required when a property owner elected to remediate the property to non-residential uses. Effective July 18, 2000, the DEUR replaced the VEMUR as a restrictive use covenant.

Date of Government Version: 08/07/2018
Date Data Arrived at EDR: 08/09/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 22

Source: Department of Environmental Quality
Telephone: 602-771-4397
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

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

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/22/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Varies

VCP: Voluntary Remediation Program Sites
Sites involved in the Voluntary Remediation Program.

Date of Government Version: 01/25/2018
Date Data Arrived at EDR: 02/02/2018
Date Made Active in Reports: 02/22/2018
Number of Days to Update: 20

Source: Department of Environmental Quality
Telephone: 602-771-4411
Last EDR Contact: 08/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Tracking System
Information relating to Brownfields sites in Arizona.

Date of Government Version: 01/25/2018
Date Data Arrived at EDR: 02/02/2018
Date Made Active in Reports: 02/22/2018
Number of Days to Update: 20

Source: Department of Environmental Quality
Telephone: 602-771-4401
Last EDR Contact: 08/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

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

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWTIRE: Solid Waste Tire Facilities
A waste tire "facility" means a solid waste facility at which waste tires are stored outdoors on any day.

Date of Government Version: 05/21/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 06/28/2018
Number of Days to Update: 2

Source: Department of Environmental Quality
Telephone: 602-771-4132
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

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

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

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

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

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

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

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

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

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

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

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

Local Lists of Hazardous waste / Contaminated Sites

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

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

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Labs
A listing of drug lab seizures in Arizona.

Date of Government Version: 08/01/2017
Date Data Arrived at EDR: 11/07/2017
Date Made Active in Reports: 12/29/2017
Number of Days to Update: 52

Source: Board of Technical Registration
Telephone: 602-364-4931
Last EDR Contact: 06/25/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

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

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

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

Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

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

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/27/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

SPILLS: Hazardous Material Logbook

Chemical spills and incidents referred to the Emergency Response Unit.

Date of Government Version: 11/15/2001
Date Data Arrived at EDR: 06/28/2007
Date Made Active in Reports: 07/24/2007
Number of Days to Update: 26

Source: Department of Environmental Quality
Telephone: 602-771-4153
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

SPILLS 90: SPILLS90 data from FirstSearch

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

Date of Government Version: 12/11/2001
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/11/2013
Number of Days to Update: 39

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

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

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

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/24/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Varies

DOD: Department of Defense Sites

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

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

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

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

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

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

US FIN ASSUR: Financial Assurance Information

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

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

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

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

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

2020 COR ACTION: 2020 Corrective Action Program List

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

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

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

TSCA: Toxic Substances Control Act

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

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

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/22/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

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

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

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

SSTS: Section 7 Tracking Systems

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

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

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

ROD: Records Of Decision

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

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/07/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Annually

RMP: Risk Management Plans

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

Date of Government Version: 05/01/2018
Date Data Arrived at EDR: 05/17/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 113

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

RAATS: RCRA Administrative Action Tracking System

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

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

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

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

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

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/19/2018
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

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

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

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

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 07/09/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Quarterly

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

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

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

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

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

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

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

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

MLTS: Material Licensing Tracking System

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

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

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/23/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

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

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

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

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

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

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

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

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

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

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

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

Date of Government Version: 04/03/2018
Date Data Arrived at EDR: 04/05/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

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

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

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

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

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

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

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

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

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

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 03/31/2018
Date Data Arrived at EDR: 04/16/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 74

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

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

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

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

INDIAN RESERV: Indian Reservations

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

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

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

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

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

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

UMTRA: Uranium Mill Tailings Sites

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

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

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

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

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

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

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

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

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

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

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

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

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

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

US MINES: Mines Master Index File

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

Date of Government Version: 05/03/2018
Date Data Arrived at EDR: 05/31/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 29

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

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

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

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

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

US MINES 3: Active Mines & Mineral Plants Database Listing

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

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ABANDONED MINES: Abandoned Mines

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

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

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

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 02/21/2018
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 28

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/05/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

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

Date of Government Version: 01/04/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/31/2018
Next Scheduled EDR Contact: 12/10/2018
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

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

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

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

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

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

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

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

Date of Government Version: 05/21/2018
Date Data Arrived at EDR: 05/23/2018
Date Made Active in Reports: 09/07/2018
Number of Days to Update: 107

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/22/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Quarterly

AIRS: Arizona Airs Database
Arizona major (has the potential to emit over 100 tons of criteria pollutant) and minor (below 100 tons) sources.

Date of Government Version: 07/26/2018
Date Data Arrived at EDR: 07/31/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 31

Source: Department of Environmental Quality
Telephone: 602-771-2344
Last EDR Contact: 07/02/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Semi-Annually

AQUIFER: Waste Water Treatment Facilities
Waste Water Treatment Facilities with APP (Aquifer Protection Permits.)

Date of Government Version: 06/17/2018
Date Data Arrived at EDR: 06/21/2018
Date Made Active in Reports: 06/28/2018
Number of Days to Update: 7

Source: Department of Environmental Quality
Telephone: 602-771-4623
Last EDR Contact: 08/07/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: Semi-Annually

DOD: Department of Defense Sites
These sites are federal facilities that are either being assessed for potential contamination, or have active remediation taking place on them.

Date of Government Version: 03/31/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 06/28/2018
Number of Days to Update: 2

Source: Department of Environmental Quality
Telephone: 602-771-4360
Last EDR Contact: 08/17/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Annually

DRY WELLS: Drywell Registration
A drywell is a bored, drilled, or driven shaft or hole whose depth is greater than its width and is designed and constructed specifically for the disposal of storm water.

Date of Government Version: 06/17/2018
Date Data Arrived at EDR: 06/21/2018
Date Made Active in Reports: 06/28/2018
Number of Days to Update: 7

Source: Department of Environmental Quality
Telephone: 602-771-4686
Last EDR Contact: 08/20/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Semi-Annually

DRYCLEANERS: Drycleaner Facility Listing
A listing of drycleaner facilities in Arizona.

Date of Government Version: 04/11/2014
Date Data Arrived at EDR: 04/15/2014
Date Made Active in Reports: 05/12/2014
Number of Days to Update: 27

Source: Department of Environmental Quality
Telephone: 602-771-4335
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Varies

EMAP: All Places of Interest Listing
A listing of all places of interest to the Department of Environmental Quality, including air, waste and water sites.

Date of Government Version: 04/09/2018
Date Data Arrived at EDR: 04/10/2018
Date Made Active in Reports: 04/19/2018
Number of Days to Update: 9

Source: Department of Environmental Quality
Telephone: 602-771-4380
Last EDR Contact: 09/04/2018
Next Scheduled EDR Contact: 12/17/2018
Data Release Frequency: Varies

ENF: Enforcement and Violation Listing
A listing of enforcement and violation cases in the state of Arizona.

Date of Government Version: 08/02/2018
Date Data Arrived at EDR: 08/06/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 30

Source: Department of Environmental Quality
Telephone: 602-771-4424
Last EDR Contact: 07/26/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information for ust sites.

Date of Government Version: 07/09/2018
Date Data Arrived at EDR: 07/12/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 55

Source: Department of Environmental Quality
Telephone: 602-771-4258
Last EDR Contact: 06/25/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Varies

AZ MANIFEST: Manifest Information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/17/2018
Date Made Active in Reports: 09/05/2018
Number of Days to Update: 50

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 09/17/2018
Next Scheduled EDR Contact: 12/31/2018
Data Release Frequency: Annually

UIC: Underground Injection Control Wells
Underground injection control wells.

Date of Government Version: 09/30/2015
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 60

Source: Arizona Geological Survey
Telephone: 520-770-3500
Last EDR Contact: 07/24/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Varies

WWFAC: Waste Water Treatment Facilities
Statewide list of waste water treatment facilities.

Date of Government Version: 07/09/2012
Date Data Arrived at EDR: 07/23/2012
Date Made Active in Reports: 09/06/2012
Number of Days to Update: 45

Source: Department of Environmental Quality
Telephone: 602-771-4623
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Arizona.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/02/2014
Number of Days to Update: 185

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Arizona.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/15/2014
Number of Days to Update: 198

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Arizona.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/02/2014
Number of Days to Update: 185

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2018
Date Data Arrived at EDR: 08/10/2018
Date Made Active in Reports: 09/10/2018
Number of Days to Update: 31

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/09/2018
Next Scheduled EDR Contact: 11/26/2018
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 07/01/2018
Date Data Arrived at EDR: 08/01/2018
Date Made Active in Reports: 08/31/2018
Number of Days to Update: 30

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/01/2018
Next Scheduled EDR Contact: 11/12/2018
Data Release Frequency: Quarterly

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/21/2018
Next Scheduled EDR Contact: 12/03/2018
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/06/2018
Next Scheduled EDR Contact: 12/24/2018
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facilities & Group Homes
Source: Department of Health Services
Telephone: 602-674-4220

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Riparian Vegetation Associated with Perennial Waters
Source: State Land Department
Telephone: 602-542-4094

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SUN STREAMS 4
SUN STREAMS 4
ARLINGTON, AZ 85322

TARGET PROPERTY COORDINATES

Latitude (North):	33.318461 - 33˚ 19' 6.46''
Longitude (West):	112.80796 - 112˚ 48' 28.66''
Universal Tranverse Mercator:	Zone 12
UTM X (Meters):	331702.4
UTM Y (Meters):	3687859.0
Elevation:	834 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	6718581 ARLINGTON, AZ
Version Date:	2014

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

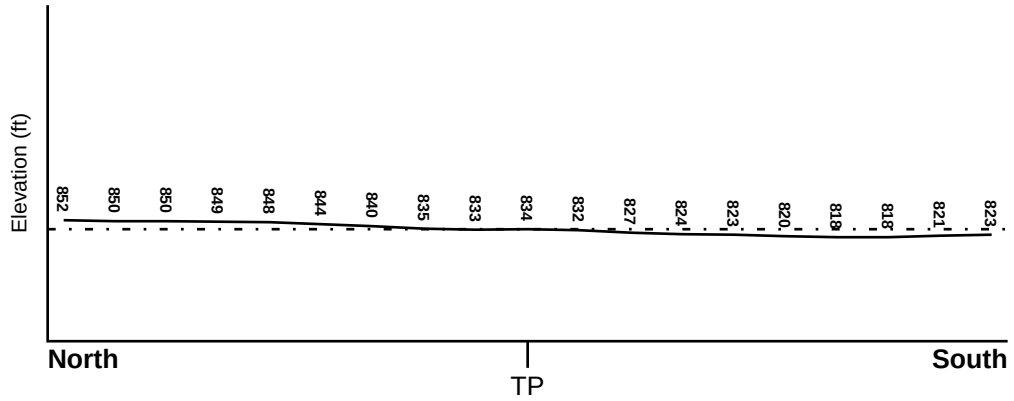
TOPOGRAPHIC INFORMATION

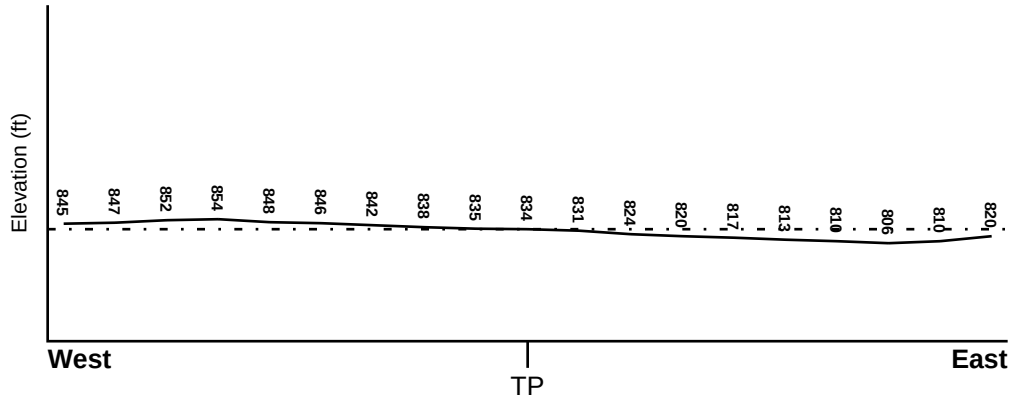
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 834 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
04013C2535M	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
04013C2530M	FEMA FIRM Flood data
04013C2540L	FEMA FIRM Flood data
04013C2545M	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

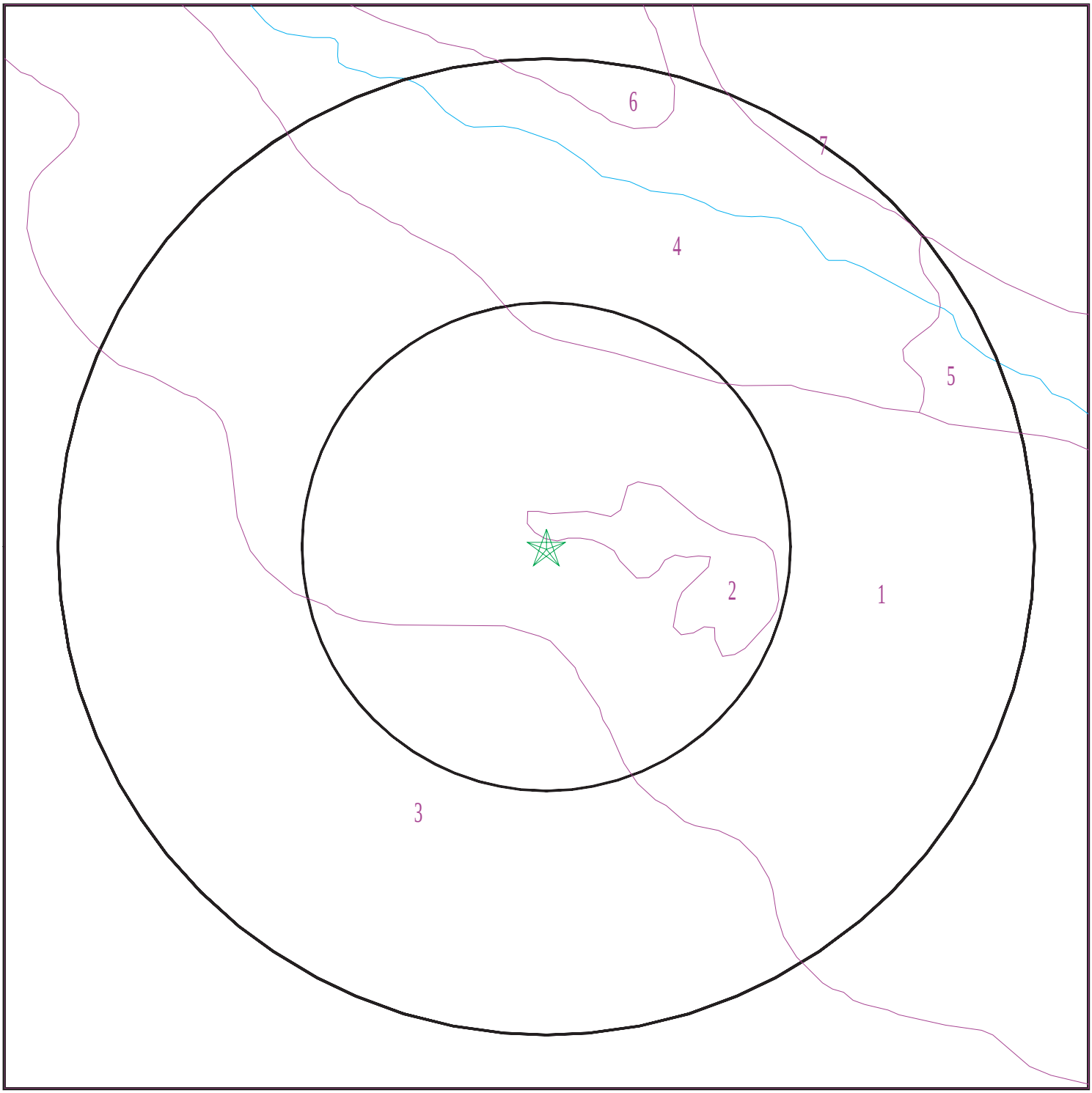
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary volcanic rocks
Code:	Qv *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Volcanic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5427390.1s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Sun Streams 4	CLIENT:	ARCADIS U.S., Inc.
ADDRESS:	Sun Streams 4 Arlington AZ 85322	CONTACT:	Janet Holtz
		INQUIRY #:	5427390.1s
LAT/LONG:	33.318461 / 112.80796	DATE:	September 18, 2018 11:48 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: HARQUA

Soil Surface Texture: gravelly clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	1 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 9.6 Min: 7.9
2	1 inches	3 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 9.6 Min: 7.9
3	3 inches	27 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 9.6 Min: 7.9
4	27 inches	33 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 9.6 Min: 7.9

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
5	33 inches	59 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 9.6 Min: 7.9

Soil Map ID: 2

Soil Component Name: DUNE LAND

Soil Surface Texture: gravelly clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: CASA GRANDE

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	1 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 4 Min: 1.4	Max: 9.6 Min: 9.1
2	1 inches	22 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 4 Min: 1.4	Max: 9.6 Min: 9.1
3	22 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 4 Min: 1.4	Max: 9.6 Min: 9.1

Soil Map ID: 4

Soil Component Name: LAVEEN

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 9.6 Min: 8.5
2	14 inches	50 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 9.6 Min: 8.5
3	50 inches	72 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 9.6 Min: 8.5

Soil Map ID: 5

Soil Component Name: GILMAN

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	18 inches	37 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 8.4 Min: 7.9
3	37 inches	64 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 8.4 Min: 7.9

Soil Map ID: 6

Soil Component Name: HARQUA

Soil Surface Texture: gravelly clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	1 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 9.6 Min: 7.9
2	1 inches	3 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 9.6 Min: 7.9
3	3 inches	27 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 9.6 Min: 7.9
4	27 inches	33 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 9.6 Min: 7.9
5	33 inches	59 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 9.6 Min: 7.9

Soil Map ID: 7

Soil Component Name: HARQUA

Soil Surface Texture: gravelly clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	1 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 9.6 Min: 7.9
2	1 inches	3 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 9.6 Min: 7.9
3	3 inches	27 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 9.6 Min: 7.9
4	27 inches	33 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 9.6 Min: 7.9
5	33 inches	59 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 9.6 Min: 7.9

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	2.000
Federal FRDS PWS	Nearest PWS within 2.000 miles
State Database	2.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
14	USGS40000052281	1 - 2 Miles ESE
C16	USGS40000052224	1 - 2 Miles SE
23	USGS40000052250	1 - 2 Miles WSW
F27	USGS40000052401	1 - 2 Miles ENE
32	USGS40000052152	1 - 2 Miles SSE
H36	USGS40000052463	1 - 2 Miles WNW
51	USGS40000052340	1 - 2 Miles West
61	USGS40000052582	1 - 2 Miles NW
M63	USGS40000052491	1 - 2 Miles ENE
N67	USGS40000052389	1 - 2 Miles East
M68	USGS40000052490	1 - 2 Miles ENE
O70	USGS40000052426	1 - 2 Miles ENE
77	USGS40000052358	1 - 2 Miles East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

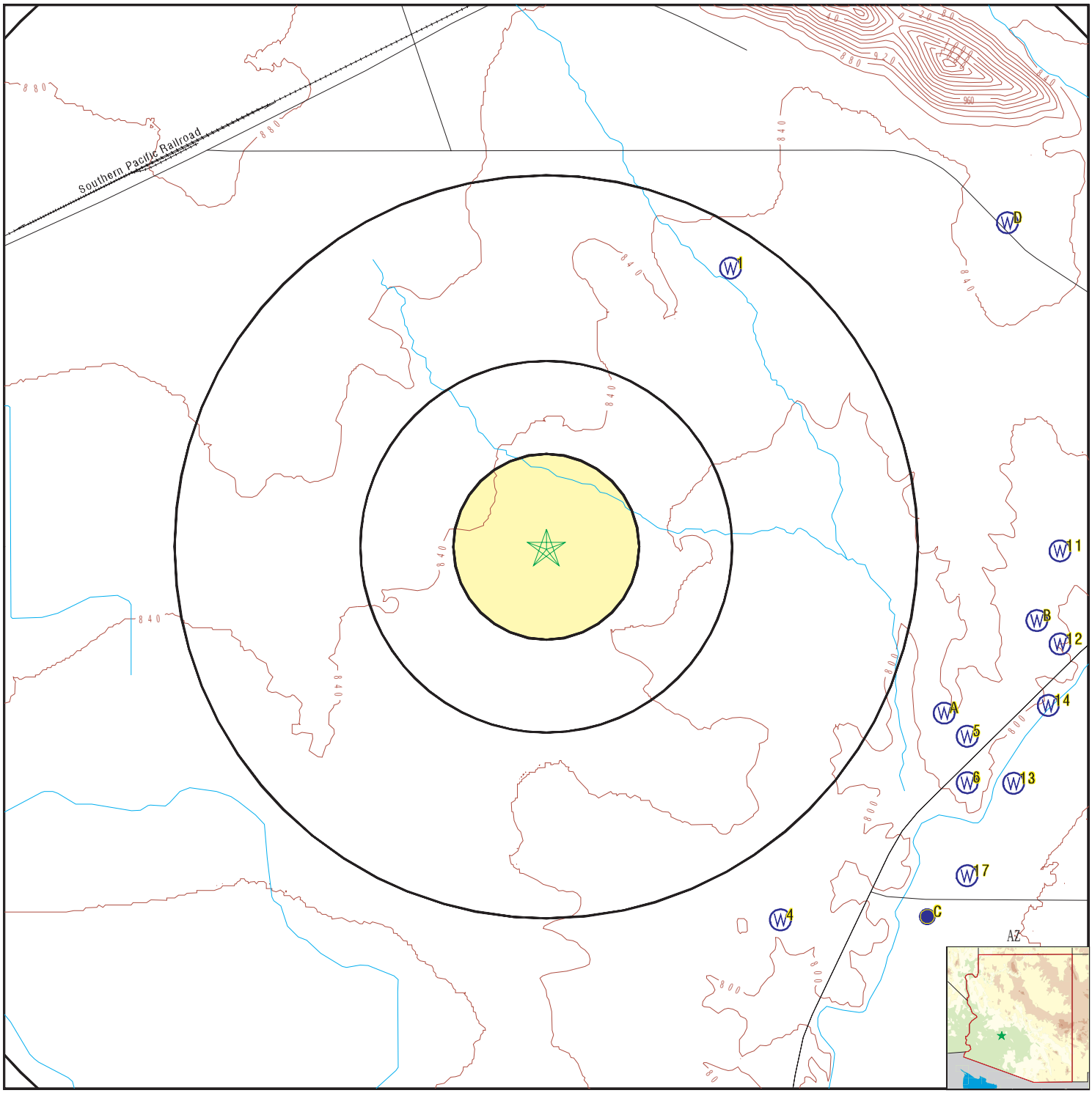
STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	AZ8000000045807	1/2 - 1 Mile NNE
A2	AZ8000000154523	1 - 2 Miles ESE
A3	AZ8000000188211	1 - 2 Miles ESE
4	AZ8000000090210	1 - 2 Miles SSE
5	AZ8000000155652	1 - 2 Miles ESE
6	AZ8000000027706	1 - 2 Miles ESE
B7	AZ8000000162784	1 - 2 Miles East
B8	AZ8000000155674	1 - 2 Miles East
B9	AZ8000000172534	1 - 2 Miles East
B10	AZ8000000169802	1 - 2 Miles East
11	AZ8000000035173	1 - 2 Miles East
12	AZ8000000040756	1 - 2 Miles East
13	AZ8000000155651	1 - 2 Miles ESE
C15	AZ8000000161276	1 - 2 Miles SE
17	AZ8000000205823	1 - 2 Miles SE
18	AZ8000000104259	1 - 2 Miles West
D19	AZ8000000127464	1 - 2 Miles NE
D20	AZ8000000142182	1 - 2 Miles NE
D21	AZ8000000189890	1 - 2 Miles NE
22	AZ8000000141619	1 - 2 Miles WSW
E24	AZ8000000003203	1 - 2 Miles East
E25	AZ8000000058240	1 - 2 Miles East
26	AZ8000000151978	1 - 2 Miles East
28	AZ8000000015772	1 - 2 Miles East

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
G29	AZ8000000035230	1 - 2 Miles ENE
G30	AZ8000000100595	1 - 2 Miles ENE
G31	AZ8000000198541	1 - 2 Miles ENE
F33	AZ8000000081558	1 - 2 Miles ENE
F34	AZ8000000135010	1 - 2 Miles ENE
35	AZ8000000150722	1 - 2 Miles East
37	AZ8000000091427	1 - 2 Miles ESE
38	AZ8000000144840	1 - 2 Miles West
I39	AZ8000000014676	1 - 2 Miles East
I40	AZ8000000016945	1 - 2 Miles East
41	AZ8000000153194	1 - 2 Miles East
42	AZ8000000074574	1 - 2 Miles East
43	AZ8000000054731	1 - 2 Miles ENE
J44	AZ8000000039305	1 - 2 Miles ENE
J45	AZ8000000126185	1 - 2 Miles ENE
J46	AZ8000000020017	1 - 2 Miles ENE
47	AZ8000000104258	1 - 2 Miles WNW
H48	AZ8000000144839	1 - 2 Miles WNW
49	AZ8000000055181	1 - 2 Miles ENE
50	AZ8000000045899	1 - 2 Miles SE
52	AZ8000000170255	1 - 2 Miles NNW
53	AZ8000000185737	1 - 2 Miles ENE
K54	AZ8000000023325	1 - 2 Miles WSW
K55	AZ8000000023326	1 - 2 Miles WSW
56	AZ8000000054732	1 - 2 Miles ENE
57	AZ8000000020501	1 - 2 Miles ESE
58	AZ8000000164239	1 - 2 Miles East
L59	AZ8000000032825	1 - 2 Miles East
L60	AZ8000000080968	1 - 2 Miles East
62	AZ8000000055707	1 - 2 Miles ENE
M64	AZ8000000001822	1 - 2 Miles ENE
M65	AZ8000000155711	1 - 2 Miles ENE
M66	AZ8000000159568	1 - 2 Miles ENE
N69	AZ8000000151968	1 - 2 Miles East
O71	AZ8000000133914	1 - 2 Miles ENE
72	AZ8000000162596	1 - 2 Miles SSE
73	AZ8000000173455	1 - 2 Miles NE
74	AZ8000000057064	1 - 2 Miles NE
75	AZ8000000001054	1 - 2 Miles SSE
76	AZ8000000054988	1 - 2 Miles ENE
P78	AZ8000000070685	1 - 2 Miles SE
P79	AZ8000000070686	1 - 2 Miles SE
P80	AZ8000000004119	1 - 2 Miles SE
P81	AZ8000000070684	1 - 2 Miles SE
P82	AZ8000000070687	1 - 2 Miles SE
P83	AZ8000000078837	1 - 2 Miles SE
P84	AZ8000000078838	1 - 2 Miles SE
P85	AZ8000000070688	1 - 2 Miles SE
P86	AZ8000000070689	1 - 2 Miles SE

PHYSICAL SETTING SOURCE MAP - 5427390.1s



County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
Indeterminate Groundwater Flow at Location
Groundwater Flow Varies at Location
Closest Hydrogeological Data
Oil, gas or related wells

SITE NAME: Sun Streams 4	CLIENT: ARCADIS U.S., Inc.
ADDRESS: Sun Streams 4 Arlington AZ 85322	CONTACT: Janet Holtz INQUIRY #: 5427390.1s
LAT/LONG: 33.318461 / 112.80796	DATE: September 18, 2018 11:48 am

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Map ID Direction Distance Elevation	Database	EDR ID Number
1 **NNE** **1/2 - 1 Mile** **Higher**	**AZ WELLS**	**AZ8000000045807**

Registry ID:	516808	Well Type:	SPCL - EXPLORATION
Well Type Group:	OTHER	Owner Name:	NARRAMORE, R,
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	269
Installed:	0	Well Depth:	0
Water Level:	0	Casing Depth:	0
Casing Diameter:	0	Casing Type:	NO CASING CODE LISTED
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1987 2 5
Approved:	0	Completion:	N
Well Cancelled:	Y		

A2 **ESE** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000154523**

Registry ID:	638638	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	ESTES,C H
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	0	Well Depth:	75
Water Level:	35	Casing Depth:	50
Casing Diameter:	6	Casing Type:	NO CASING CODE LISTED
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 610
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

A3 **ESE** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000188211**

Registry ID:	903507	Well Type:	SPCL - MINERAL EXPLORATION
Well Type Group:	OTHER	Owner Name:	GARY GABLE
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	7
Installed:	0	Well Depth:	0
Water Level:	0	Casing Depth:	0
Casing Diameter:	0	Casing Type:	Not Reported
RGR Pump Data:	NO	Pump Type:	Not Reported
Pump Power:	Not Reported	Pump Rate:	0
Tested Rate:	0	Draw Down:	0

Drill Log:	Not Reported	Application Date:	200511 2
Approved:	200511 2	Completion:	Not Reported
Well Cancelled:	Not Reported		

4
SSE **AZ WELLS** **AZ8000000090210**
1 - 2 Miles
Lower

Registry ID:	562489	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	KEN FINCHUM, III
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	369
Installed:	1995 521	Well Depth:	100
Water Level:	40	Casing Depth:	100
Casing Diameter:	6	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	1997 723
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

5
ESE **AZ WELLS** **AZ8000000155652**
1 - 2 Miles
Lower

Registry ID:	635674	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	GARY PETERSON GABLE
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	1952 1 1	Well Depth:	50
Water Level:	20	Casing Depth:	50
Casing Diameter:	4	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	15
Tested Rate:	15	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 611
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

6
ESE **AZ WELLS** **AZ8000000027706**
1 - 2 Miles
Lower

Registry ID:	224804	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	GARY PETERSON GABLE
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	798
Installed:	0	Well Depth:	0
Water Level:	0	Casing Depth:	0

Casing Diameter:	0	Casing Type:	Not Reported
RGR Pump Data:	NO	Pump Type:	Not Reported
Pump Power:	Not Reported	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	2015 522
Approved:	2015 526	Completion:	Not Reported
Well Cancelled:	Not Reported		

B7
East
1 - 2 Miles
Lower

AZ WELLS **AZ8000000162784**

Registry ID:	633550	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	FIRST SOUTHERN,
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	0	Well Depth:	84
Water Level:	38	Casing Depth:	84
Casing Diameter:	6	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	10
Tested Rate:	10	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 6 7
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

B8
East
1 - 2 Miles
Lower

AZ WELLS **AZ8000000155674**

Registry ID:	636113	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	SWAYER, JAMES,W
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	1971 3 1	Well Depth:	102
Water Level:	29	Casing Depth:	102
Casing Diameter:	8	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	13
Tested Rate:	13	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 614
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

B9
East
1 - 2 Miles
Lower

AZ WELLS **AZ8000000172534**

Registry ID:	801732	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	MEREDITH,L C
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA

Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	1962 725	Well Depth:	120
Water Level:	60	Casing Depth:	120
Casing Diameter:	12	Casing Type:	OTHER - BLACK STEEL - IRON - SEAMLESS
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	20
Tested Rate:	20	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1984 921
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

B10
East
1 - 2 Miles
Lower

AZ WELLS **AZ8000000169802**

Registry ID:	802003	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	MEREDITH,L C
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	1963 1 1	Well Depth:	142
Water Level:	60	Casing Depth:	142
Casing Diameter:	12	Casing Type:	OTHER - BLACK STEEL - IRON - SEAMLESS
RGR Pump Data:	YES	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	220
Tested Rate:	220	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1985 219
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

11
East
1 - 2 Miles
Lower

AZ WELLS **AZ8000000035173**

Registry ID:	506181	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	LEE & LARSON JR,
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	10
Installed:	1983 922	Well Depth:	145
Water Level:	30	Casing Depth:	127
Casing Diameter:	9	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	SUBMERSIBLE
Pump Power:	ELECTRIC MOTOR < 1 HP	Pump Rate:	30
Tested Rate:	30	Draw Down:	0
Drill Log:	X	Application Date:	1983 825
Approved:	0	Completion:	X
Well Cancelled:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
12 **East** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000040756**

Registry ID:	512007	Well Type:	EXEMPT - DOMESTIC STOCK
Well Type Group:	EXEMPT	Owner Name:	MEREDITH,L
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	398
Installed:	1985 822	Well Depth:	190
Water Level:	35	Casing Depth:	140
Casing Diameter:	8	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	SUBMERSIBLE
Pump Power:	ELECTRIC MOTOR < 1 HP	Pump Rate:	20
Tested Rate:	20	Draw Down:	0
Drill Log:	X	Application Date:	1985 8 6
Approved:	0	Completion:	X
Well Cancelled:	Not Reported		

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13 **ESE** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000155651**

Registry ID:	635673	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	GARY PETERSON GABLE
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	1979 9 1	Well Depth:	108
Water Level:	20	Casing Depth:	98
Casing Diameter:	8	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	20
Tested Rate:	20	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 611
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

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14 **ESE** **1 - 2 Miles** **Lower**	**FED USGS**	**USGS40000052281**

Organization ID:	USGS-AZ	Organization Name:	USGS Arizona Water Science Center
Monitor Location:	C-01-05 29ADC	Type:	Well
Description:	Not Reported	HUC:	15070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19540407
Well Depth:	650	Well Depth Units:	ft
Well Hole Depth:	650	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements: 76

Level reading date:	2001-11-01	Feet below surface:	48.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-11-20	Feet below surface:	48.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-11-09	Feet below surface:	45.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-10-26	Feet below surface:	44.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-12-02	Feet below surface:	44.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-12-31	Feet below surface:	44.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-12-15	Feet below surface:	42.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-11-23	Feet below surface:	43.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-12-02	Feet below surface:	41.9
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-04-16	Feet below surface:	48.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-11-19	Feet below surface:	48.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-11-13	Feet below surface:	45.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-01-17	Feet below surface:	44.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-12-01	Feet below surface:	49.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-12-08	Feet below surface:	40.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-06-09	Feet below surface:	45.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-12-28	Feet below surface:	41.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-06-12	Feet below surface:	43.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-02-20	Feet below surface:	41.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-12-02	Feet below surface:	42.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-06-09	Feet below surface:	46.30

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-01-21	Feet below surface:	42.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-01-08	Feet below surface:	51.80
Feet to sea level:	Not Reported		
Note:	Foreign substance was present on the surface of the water.		
Level reading date:	1985-12-11	Feet below surface:	43.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-12-03	Feet below surface:	42.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-06-06	Feet below surface:	55.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-01-09	Feet below surface:	44.90
Feet to sea level:	Not Reported		
Note:	Foreign substance was present on the surface of the water.		
Level reading date:	1985-01-02	Feet below surface:	45.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-14	Feet below surface:	47.30
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was flowing.		
Level reading date:	1984-01-12	Feet below surface:	44.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-12-07	Feet below surface:	44.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-10-27	Feet below surface:	48.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-05-31	Feet below surface:	67.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-02-09	Feet below surface:	52.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-01-05	Feet below surface:	49.8
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-01-13	Feet below surface:	54.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-06-04	Feet below surface:	49.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-18	Feet below surface:	52.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-02	Feet below surface:	49.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-01-07	Feet below surface:	45.8
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1980-04-23	Feet below surface:	44.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1980-01-18	Feet below surface:	51.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-05-10	Feet below surface:	54.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-04-06	Feet below surface:	38.42
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-02-23	Feet below surface:	46.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-19	Feet below surface:	41.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1979-01-04	Feet below surface:	44.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-12-19	Feet below surface:	46.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-18	Feet below surface:	50.3
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-04-03	Feet below surface:	49.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1978-02-21	Feet below surface:	51
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-12-21	Feet below surface:	51.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1976-01-15	Feet below surface:	61.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-24	Feet below surface:	49.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-16	Feet below surface:	48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-15	Feet below surface:	48.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-01-22	Feet below surface:	45.6
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1973-02-20	Feet below surface:	67
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1971-02-09	Feet below surface:	75.1
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-01-23	Feet below surface:	61.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-01-12	Feet below surface:	64.9
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1969-03-06	Feet below surface:	67.4
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-01-29	Feet below surface:	50.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-08-06	Feet below surface:	179.00
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1968-01-11	Feet below surface:	50.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-02-09	Feet below surface:	59.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-01-19	Feet below surface:	52.38
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1965-02-04	Feet below surface:	75.58
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-02-05	Feet below surface:	79.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-01-11	Feet below surface:	63.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-03-16	Feet below surface:	55.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-02-16	Feet below surface:	56.62
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-01-21	Feet below surface:	46.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-29	Feet below surface:	47.37
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1957-01-18	Feet below surface:	43.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-01-16	Feet below surface:	40.94
Feet to sea level:	Not Reported	Note:	Not Reported

C15
SE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000161276**

Registry ID:	629649	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	RLF DESERT FARMS, VII, LLC
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	0	Well Depth:	0
Water Level:	0	Casing Depth:	0
Casing Diameter:	0	Casing Type:	NO CASING CODE LISTED
RGR Pump Data:	YES	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	2500
Tested Rate:	2500	Draw Down:	0

Drill Log:	Not Reported	Application Date:	1982 614
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

C16
SE
1 - 2 Miles
Lower

FED USGS **USGS40000052224**

Organization ID:	USGS-AZ	Organization Name:	USGS Arizona Water Science Center
Monitor Location:	C-01-05 32BAA	Type:	Well
Description:	Not Reported	HUC:	15070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19570308
Well Depth:	843	Well Depth Units:	ft
Well Hole Depth:	843	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	6	Level reading date:	1986-12-03
Feet below surface:	44.20	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1986-01-08	Feet below surface:	62.90
Feet to sea level:	Not Reported		
Note:	Foreign substance was present on the surface of the water.		

Level reading date:	1982-01-19	Feet below surface:	45.9
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1972-02-24	Feet below surface:	64
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1970-06-11	Feet below surface:	170.70
Feet to sea level:	Not Reported	Note:	The site was being pumped.

Level reading date:	1969-12-01	Feet below surface:	64.0
Feet to sea level:	Not Reported	Note:	Not Reported

17
SE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000205823**

Registry ID:	912940	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	WARREN TRAVIS GABLE
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	368
Installed:	0	Well Depth:	0
Water Level:	0	Casing Depth:	0
Casing Diameter:	0	Casing Type:	Not Reported
RGR Pump Data:	NO	Pump Type:	Not Reported
Pump Power:	Not Reported	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	2011 2 7
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
18 **West** **1 - 2 Miles** **Higher**	**AZ WELLS**	**AZ8000000104259**

Registry ID:	579375	Well Type:	ENV - PIEZOMETER
Well Type Group:	MONITOR	Owner Name:	ARIZONA PUBLIC SERVICE COMPANY
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	611
Installed:	2000 327	Well Depth:	100
Water Level:	56	Casing Depth:	100
Casing Diameter:	4	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	Not Reported
Pump Power:	Not Reported	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	2000 2 1
Approved:	2000 2 8	Completion:	Not Reported
Well Cancelled:	Not Reported		

D19 **NE** **1 - 2 Miles** **Higher**	**AZ WELLS**	**AZ8000000127464**

Registry ID:	614946	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	AZ STATE LAND DEPT,
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	1952 7 1	Well Depth:	465
Water Level:	0	Casing Depth:	465
Casing Diameter:	8	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	YES	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	63
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 614
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

D20 **NE** **1 - 2 Miles** **Higher**	**AZ WELLS**	**AZ8000000142182**

Registry ID:	626789	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	AZ STATE LAND DEPT,
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	0	Well Depth:	0
Water Level:	0	Casing Depth:	0
Casing Diameter:	0	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	100
Tested Rate:	0	Draw Down:	0

Drill Log:	Not Reported	Application Date:	1982 614
Approved:	0	Completion:	Not Reported
Well Cancelled:	Y		

D21
NE
1 - 2 Miles
Higher

AZ WELLS **AZ8000000189890**

Registry ID:	804041	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	AZ STATE LAND DEPT,
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	0	Well Depth:	0
Water Level:	250	Casing Depth:	0
Casing Diameter:	8	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	35
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	19861020
Approved:	0	Completion:	Not Reported
Well Cancelled:	Y		

22
WSW
1 - 2 Miles
Lower

AZ WELLS **AZ8000000141619**

Registry ID:	624677	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	ARLINGTON VALLEY SOLAR HOLDINGS, LLC
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	0	Well Depth:	1000
Water Level:	0	Casing Depth:	1000
Casing Diameter:	20	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	YES	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	3250
Tested Rate:	3250	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 611
Approved:	0	Completion:	X
Well Cancelled:	Not Reported		

23
WSW
1 - 2 Miles
Lower

FED USGS **USGS40000052250**

Organization ID:	USGS-AZ	Organization Name:	USGS Arizona Water Science Center
Monitor Location:	C-01-06 26DAD	Type:	Well
Description:	Not Reported	HUC:	15070104
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19480216

Well Depth:	1135	Well Depth Units:	ft
Well Hole Depth:	1135	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	2	Level reading date:	1956-12-04
Feet below surface:	103.47	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1954-10-29	Feet below surface:	122.34
Feet to sea level:	Not Reported	Note:	Not Reported

E24
East
1 - 2 Miles
Lower

AZ WELLS **AZ8000000003203**

Registry ID:	086975	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	POWERS,B S
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	11
Installed:	1981 4 4	Well Depth:	140
Water Level:	140	Casing Depth:	140
Casing Diameter:	8	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1981 219
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

E25
East
1 - 2 Miles
Lower

AZ WELLS **AZ8000000058240**

Registry ID:	529675	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	ARLINGTON FARMS WTR,
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	136
Installed:	199011 7	Well Depth:	650
Water Level:	92	Casing Depth:	650
Casing Diameter:	10	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	199010 2
Approved:	0	Completion:	C
Well Cancelled:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
26 **East** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000151978**

Registry ID:	618763	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	GRIFFIN,C
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	19561015	Well Depth:	104
Water Level:	20	Casing Depth:	104
Casing Diameter:	20	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	36
Tested Rate:	36	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 611
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

F27 **ENE** **1 - 2 Miles** **Lower**	**FED USGS**	**USGS40000052401**	

Organization ID:	USGS-AZ	Organization Name:	USGS Arizona Water Science Center
Monitor Location:	C-01-05 21CBB	Type:	Well
Description:	Not Reported	HUC:	15070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19731105
Well Depth:	150	Well Depth Units:	ft
Well Hole Depth:	150	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1981-04-15
Feet below surface:	55.0	Feet to sea level:	Not Reported
Note:	Not Reported		

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28 **East** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000015772**	

Registry ID:	214504	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	RUBY & TERRELL WILCOX & FAINSWORTH
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	394
Installed:	2007 124	Well Depth:	280
Water Level:	55	Casing Depth:	280
Casing Diameter:	4	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	Not Reported
Pump Power:	Not Reported	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	2007 118

Approved:	2007 118	Completion:	Not Reported
Well Cancelled:	Not Reported		

G29
ENE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000035230**

Registry ID:	506905	Well Type:	EXEMPT - DOMESTIC STOCK
Well Type Group:	EXEMPT	Owner Name:	HANSEN,D B
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	4
Installed:	1984 425	Well Depth:	375
Water Level:	58	Casing Depth:	157
Casing Diameter:	12	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	SUBMERSIBLE
Pump Power:	ELECTRIC MOTOR < 1 HP	Pump Rate:	27
Tested Rate:	27	Draw Down:	0
Drill Log:	X	Application Date:	19831229
Approved:	0	Completion:	X
Well Cancelled:	Not Reported		

G30
ENE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000100595**

Registry ID:	574674	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	CHARLEY MOREY
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	4
Installed:	19991223	Well Depth:	137
Water Level:	60	Casing Depth:	121
Casing Diameter:	6	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	SUBMERSIBLE
Pump Power:	ELECTRIC MOTOR < 1 HP	Pump Rate:	10
Tested Rate:	10	Draw Down:	6
Drill Log:	X	Application Date:	1999 617
Approved:	1999 623	Completion:	X
Well Cancelled:	Not Reported		

G31
ENE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000198541**

Registry ID:	910063	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	CESAR VALDEZ
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	200
Installed:	20081223	Well Depth:	160
Water Level:	45	Casing Depth:	160
Casing Diameter:	7	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING

RGR Pump Data:	NO	Pump Type:	SUBMERSIBLE
Pump Power:	ELECTRIC MOTOR 1 - 5 HP	Pump Rate:	25
Tested Rate:	25	Draw Down:	2
Drill Log:	X	Application Date:	20081114
Approved:	20081114	Completion:	X
Well Cancelled:	Not Reported		

32
SSE
1 - 2 Miles
Lower

FED USGS **USGS40000052152**

Organization ID:	USGS-AZ	Organization Name:	USGS Arizona Water Science Center
Monitor Location:	C-01-05 32CCB	Type:	Well
Description:	Not Reported	HUC:	15070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19670524
Well Depth:	910	Well Depth Units:	ft
Well Hole Depth:	910	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	5	Level reading date:	1986-12-02
Feet below surface:	59.70	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1986-01-09	Feet below surface:	52.68
Feet to sea level:	Not Reported		
Note:	Foreign substance was present on the surface of the water.		
Level reading date:	1982-01-19	Feet below surface:	57.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-02-02	Feet below surface:	123.2
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1967-06-07	Feet below surface:	73.5
Feet to sea level:	Not Reported	Note:	Not Reported

F33
ENE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000081558**

Registry ID:	553634	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	ROGLIN, RICHARD,L
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	136
Installed:	0	Well Depth:	0
Water Level:	0	Casing Depth:	0
Casing Diameter:	0	Casing Type:	NO CASING CODE LISTED
RGR Pump Data:	NO	Pump Type:	SUBMERSIBLE
Pump Power:	ELECTRIC MOTOR < 1 HP	Pump Rate:	15
Tested Rate:	15	Draw Down:	0
Drill Log:	Not Reported	Application Date:	19951228
Approved:	0	Completion:	X
Well Cancelled:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
F34 **ENE** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000135010**

Registry ID:	604537	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	ROGLIN,R L
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	197312 5	Well Depth:	150
Water Level:	62	Casing Depth:	120
Casing Diameter:	12	Casing Type:	OTHER - BLACK STEEL - IRON - SEAMLESS
RGR Pump Data:	YES	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	500
Tested Rate:	500	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 319
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

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35 **East** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000150722**

Registry ID:	618674	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	BATTON,W R
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	1978 611	Well Depth:	210
Water Level:	0	Casing Depth:	200
Casing Diameter:	5	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	27
Tested Rate:	27	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 614
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

H36 **WNW** **1 - 2 Miles** **Higher**	**FED USGS**	**USGS40000052463**

Organization ID:	USGS-AZ	Organization Name:	USGS Arizona Water Science Center
Monitor Location:	C-01-06 23ADB	Type:	Well
Description:	Not Reported	HUC:	15070104
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	194803
Well Depth:	1158	Well Depth Units:	ft
Well Hole Depth:	1158	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	9	Level reading date:	1986-12-04
Feet below surface:	185.80	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1982-01-22	Feet below surface:	193.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1975-01-08	Feet below surface:	181.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1974-07-18	Feet below surface:	203.50
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1970-01-13	Feet below surface:	180.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-03-06	Feet below surface:	192.56
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-01-03	Feet below surface:	148.75
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-04	Feet below surface:	151.82
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-08-31	Feet below surface:	157.60
Feet to sea level:	Not Reported	Note:	Not Reported

37
ESE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000091427**

Registry ID:	565363	Well Type:	ENV - MONITOR
Well Type Group:	MONITOR	Owner Name:	AZ DEPT-AGRICULTURE, ENVIRONMENTAL SER
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	473
Installed:	199712 9	Well Depth:	40
Water Level:	15	Casing Depth:	40
Casing Diameter:	2	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	SUBMERSIBLE
Pump Power:	NO POWER CODE LISTED	Pump Rate:	3
Tested Rate:	1	Draw Down:	0
Drill Log:	X	Application Date:	199711 3
Approved:	199712 2	Completion:	X
Well Cancelled:	Not Reported		

38
West
1 - 2 Miles
Higher

AZ WELLS **AZ8000000144840**

Registry ID:	623231	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	ARIZONA PUBLIC SERVICE COMPANY
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	0	Well Depth:	0

Water Level:	0	Casing Depth:	0
Casing Diameter:	0	Casing Type:	NO CASING CODE LISTED
RGR Pump Data:	YES	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 611
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

I39
East
1 - 2 Miles
Lower

AZ WELLS **AZ8000000014676**

Registry ID:	212283	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	JAMES ROD OR PATTI KUHN
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	4
Installed:	2007 725	Well Depth:	132
Water Level:	47	Casing Depth:	132
Casing Diameter:	9	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	Not Reported
Pump Power:	Not Reported	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	2006 6 8
Approved:	2006 6 9	Completion:	Not Reported
Well Cancelled:	Not Reported		

I40
East
1 - 2 Miles
Lower

AZ WELLS **AZ8000000016945**

Registry ID:	216341	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	BRIAN SCOTT HANSEN
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	641
Installed:	2007 925	Well Depth:	165
Water Level:	54	Casing Depth:	165
Casing Diameter:	10	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	Not Reported
Pump Power:	Not Reported	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	2007 828
Approved:	2007 828	Completion:	Not Reported
Well Cancelled:	Not Reported		

41
East
1 - 2 Miles
Lower

AZ WELLS **AZ8000000153194**

Registry ID:	638118	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	DAVIS ET AL,L Y

Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	1941 120	Well Depth:	110
Water Level:	18	Casing Depth:	110
Casing Diameter:	5	Casing Type:	NO CASING CODE LISTED
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	15
Tested Rate:	15	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 611
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

42
East
1 - 2 Miles
Lower

AZ WELLS **AZ8000000074574**

Registry ID:	546340	Well Type:	EXEMPT - DOMESTIC STOCK
Well Type Group:	EXEMPT	Owner Name:	GILL, JUDITH,L
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	136
Installed:	1995 118	Well Depth:	312
Water Level:	74	Casing Depth:	312
Casing Diameter:	8	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	19941027
Approved:	0	Completion:	C
Well Cancelled:	Not Reported		

43
ENE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000054731**

Registry ID:	526678	Well Type:	EXEMPT - DOMESTIC STOCK
Well Type Group:	EXEMPT	Owner Name:	JAMES PRIMM
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	4
Installed:	19891229	Well Depth:	130
Water Level:	54	Casing Depth:	121
Casing Diameter:	6	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	SUBMERSIBLE
Pump Power:	ELECTRIC MOTOR < 1 HP	Pump Rate:	15
Tested Rate:	15	Draw Down:	11
Drill Log:	X	Application Date:	198912 7
Approved:	0	Completion:	X
Well Cancelled:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
J44 **ENE** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000039305**

Registry ID:	510108	Well Type:	EXEMPT - DOMESTIC STOCK
Well Type Group:	EXEMPT	Owner Name:	GARCIA,J L
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	4
Installed:	1985 4 1	Well Depth:	150
Water Level:	62	Casing Depth:	143
Casing Diameter:	8	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	SUBMERSIBLE
Pump Power:	ELECTRIC MOTOR 1 - 5 HP	Pump Rate:	28
Tested Rate:	28	Draw Down:	0
Drill Log:	X	Application Date:	1985 121
Approved:	0	Completion:	X
Well Cancelled:	Not Reported		

J45 **ENE** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000126185**

Registry ID:	586340	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	ABEL & MARIA RIOS
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	626
Installed:	0	Well Depth:	0
Water Level:	0	Casing Depth:	0
Casing Diameter:	0	Casing Type:	Not Reported
RGR Pump Data:	NO	Pump Type:	Not Reported
Pump Power:	Not Reported	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	2001 329
Approved:	0	Completion:	Not Reported
Well Cancelled:	Y		

J46 **ENE** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000020017**

Registry ID:	216818	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	JUANITA GARCIA
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	200
Installed:	2008 130	Well Depth:	260
Water Level:	85	Casing Depth:	160
Casing Diameter:	7	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	Not Reported
Pump Power:	Not Reported	Pump Rate:	0
Tested Rate:	0	Draw Down:	0

Drill Log:	X	Application Date:	2008 1 8
Approved:	2008 1 9	Completion:	Not Reported
Well Cancelled:	Not Reported		

47
WNW
1 - 2 Miles
Higher

AZ WELLS **AZ8000000104258**

Registry ID:	579374	Well Type:	ENV - PIEZOMETER
Well Type Group:	MONITOR	Owner Name:	PINNACLE WEST ENERGY CORP
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	611
Installed:	2000 321	Well Depth:	330
Water Level:	204	Casing Depth:	0
Casing Diameter:	8	Casing Type:	OPEN HOLE IN AQUIFER
RGR Pump Data:	NO	Pump Type:	Not Reported
Pump Power:	Not Reported	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	2000 2 1
Approved:	2000 2 8	Completion:	A
Well Cancelled:	Y		

H48
WNW
1 - 2 Miles
Higher

AZ WELLS **AZ8000000144839**

Registry ID:	623230	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	ARIZONA PUBLIC SERVICE COMPANY
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	0	Well Depth:	0
Water Level:	0	Casing Depth:	0
Casing Diameter:	0	Casing Type:	NO CASING CODE LISTED
RGR Pump Data:	YES	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 611
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

49
ENE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000055181**

Registry ID:	527560	Well Type:	EXEMPT - DOMESTIC STOCK
Well Type Group:	EXEMPT	Owner Name:	DOUGHTY, GEORGE,
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	136
Installed:	0	Well Depth:	0
Water Level:	0	Casing Depth:	0

Casing Diameter:	0	Casing Type:	NO CASING CODE LISTED
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1990 322
Approved:	0	Completion:	Not Reported
Well Cancelled:	Y		

50
SE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000045899**

Registry ID:	516822	Well Type:	SPCL - EXPLORATION
Well Type Group:	OTHER	Owner Name:	VANOSDELL, CHARLES,W
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	269
Installed:	0	Well Depth:	0
Water Level:	0	Casing Depth:	0
Casing Diameter:	0	Casing Type:	NO CASING CODE LISTED
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1987 2 5
Approved:	0	Completion:	N
Well Cancelled:	Y		

51
West
1 - 2 Miles
Higher

FED USGS **USGS40000052340**

Organization ID:	USGS-AZ	Organization Name:	USGS Arizona Water Science Center
Monitor Location:	C-01-06 26ABA	Type:	Well
Description:	Not Reported	HUC:	15070104
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19480621
Well Depth:	1130	Well Depth Units:	ft
Well Hole Depth:	1130	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	8	Level reading date:	1986-12-04
Feet below surface:	179.30	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1984-08-07	Feet below surface:	257.60
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1982-01-22	Feet below surface:	186.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-01-13	Feet below surface:	174.5
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1969-03-06	Feet below surface:	181.1

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1966-03-10	Feet below surface:	169.79
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-11	Feet below surface:	166.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1954-08-31	Feet below surface:	147.95
Feet to sea level:	Not Reported	Note:	Not Reported

52
NNW
1 - 2 Miles
Higher

AZ WELLS **AZ8000000170255**

Registry ID:	802026	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	WAYNE E BECK
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	0	Well Depth:	1100
Water Level:	285	Casing Depth:	1100
Casing Diameter:	8	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	850
Tested Rate:	850	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1985 225
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

53
ENE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000185737**

Registry ID:	902841	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	RSD L.L.C
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	394
Installed:	0	Well Depth:	0
Water Level:	0	Casing Depth:	0
Casing Diameter:	0	Casing Type:	Not Reported
RGR Pump Data:	NO	Pump Type:	Not Reported
Pump Power:	Not Reported	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	2005 810
Approved:	2005 810	Completion:	Not Reported
Well Cancelled:	Y		

Map ID Direction Distance Elevation	Database	EDR ID Number
K54 **WSW** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000023325**

Registry ID:	221272	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	ARLINGTON VALLEY SOLAR HOLDING LLC
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	360
Installed:	2012 314	Well Depth:	880
Water Level:	140	Casing Depth:	880
Casing Diameter:	13	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	SUBMERSIBLE
Pump Power:	ELECTRIC MOTOR 16 - 100 HP	Pump Rate:	531
Tested Rate:	141	Draw Down:	13
Drill Log:	X	Application Date:	2012 119
Approved:	2012 222	Completion:	X
Well Cancelled:	Not Reported		

K55 **WSW** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000023326**

Registry ID:	221273	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	ARLINGTON VALLEY SOLAR ENERGY II, LLC
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	360
Installed:	2012 413	Well Depth:	880
Water Level:	140	Casing Depth:	880
Casing Diameter:	13	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	SUBMERSIBLE
Pump Power:	ELECTRIC MOTOR 16 - 100 HP	Pump Rate:	500
Tested Rate:	147	Draw Down:	16
Drill Log:	X	Application Date:	2012 113
Approved:	2012 222	Completion:	X
Well Cancelled:	Not Reported		

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56 **ENE** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000054732**

Registry ID:	526679	Well Type:	EXEMPT - DOMESTIC STOCK
Well Type Group:	EXEMPT	Owner Name:	BROWN, BENJAMIN,F
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	8
Installed:	1990 115	Well Depth:	145
Water Level:	49	Casing Depth:	121
Casing Diameter:	6	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	SUBMERSIBLE
Pump Power:	ELECTRIC MOTOR < 1 HP	Pump Rate:	15
Tested Rate:	15	Draw Down:	7

Drill Log:	X	Application Date:	198912 7
Approved:	0	Completion:	X
Well Cancelled:	Not Reported		

57
ESE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000020501**

Registry ID:	219041	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	JTAINMA LLC
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	671
Installed:	0	Well Depth:	500
Water Level:	41	Casing Depth:	500
Casing Diameter:	6	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	Not Reported
Pump Power:	Not Reported	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	2009 629
Approved:	2009 7 1	Completion:	Not Reported
Well Cancelled:	Not Reported		

58
East
1 - 2 Miles
Lower

AZ WELLS **AZ8000000164239**

Registry ID:	629821	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	ELWOOD & KATHTHEA MILLS
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	1975 1 1	Well Depth:	150
Water Level:	35	Casing Depth:	150
Casing Diameter:	16	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	YES	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 3 4
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

L59
East
1 - 2 Miles
Lower

AZ WELLS **AZ8000000032825**

Registry ID:	503770	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	ROBERT GARY STRANDER
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	561
Installed:	19821012	Well Depth:	70
Water Level:	34	Casing Depth:	4

Casing Diameter:	2	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	JET
Pump Power:	ELECTRIC MOTOR 1 - 5 HP	Pump Rate:	10
Tested Rate:	10	Draw Down:	0
Drill Log:	X	Application Date:	1982 819
Approved:	0	Completion:	X
Well Cancelled:	Not Reported		

L60
East
1 - 2 Miles
Lower

AZ WELLS **AZ8000000080968**

Registry ID:	555245	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	DILLOW, STERLING,
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	136
Installed:	0	Well Depth:	0
Water Level:	0	Casing Depth:	0
Casing Diameter:	0	Casing Type:	NO CASING CODE LISTED
RGR Pump Data:	NO	Pump Type:	SUBMERSIBLE
Pump Power:	ELECTRIC MOTOR 1 - 5 HP	Pump Rate:	30
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1996 213
Approved:	0	Completion:	X
Well Cancelled:	Not Reported		

61
NW
1 - 2 Miles
Higher

FED USGS **USGS40000052582**

Organization ID:	USGS-AZ	Organization Name:	USGS Arizona Water Science Center
Monitor Location:	C-01-06 13CAB	Type:	Well
Description:	Not Reported	HUC:	15070104
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	1200	Well Depth Units:	ft
Well Hole Depth:	1200	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	8	Level reading date:	1991-11-12
Feet below surface:	193.10	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1971-12-22	Feet below surface:	202.0
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1970-01-13	Feet below surface:	198.7
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1968-08-06	Feet below surface:	311.83
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1958-01-03	Feet below surface:	173.82

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-12-03	Feet below surface:	175.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-12-01	Feet below surface:	165.01
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1953-12	Feet below surface:	165.01
Feet to sea level:	Not Reported	Note:	Not Reported

62
ENE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000055707**

Registry ID:	527547	Well Type:	EXEMPT - DOMESTIC STOCK
Well Type Group:	EXEMPT	Owner Name:	GARNER, JIMMIE,D
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	4
Installed:	1990 328	Well Depth:	200
Water Level:	87	Casing Depth:	131
Casing Diameter:	8	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	CENTRIFUGAL
Pump Power:	ELECTRIC MOTOR < 1 HP	Pump Rate:	30
Tested Rate:	30	Draw Down:	0
Drill Log:	X	Application Date:	1990 321
Approved:	0	Completion:	X
Well Cancelled:	Not Reported		

M63
ENE
1 - 2 Miles
Lower

FED USGS **USGS40000052491**

Organization ID:	USGS-AZ	Organization Name:	USGS Arizona Water Science Center
Monitor Location:	C-01-05 21BBB3	Type:	Well
Description:	Not Reported	HUC:	15070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	Not Reported
Well Depth:	250	Well Depth Units:	ft
Well Hole Depth:	Not Reported	Well Hole Depth Units:	Not Reported

Ground water levels,Number of Measurements:	2	Level reading date:	1982-01-22
Feet below surface:	50.36	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1981-03-26	Feet below surface:	47.90
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID Direction Distance Elevation	Database	EDR ID Number
M64 **ENE** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000001822**

Registry ID:	200539	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	JOSEPH MCCONNELL
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	200
Installed:	0	Well Depth:	0
Water Level:	0	Casing Depth:	0
Casing Diameter:	0	Casing Type:	Not Reported
RGR Pump Data:	NO	Pump Type:	Not Reported
Pump Power:	Not Reported	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	2003 925
Approved:	0	Completion:	Not Reported
Well Cancelled:	Y		

M65 **ENE** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000155711**

Registry ID:	636559	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	BENARD,W J
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	0	Well Depth:	0
Water Level:	0	Casing Depth:	0
Casing Diameter:	8	Casing Type:	OTHER - BLACK STEEL - IRON - SEAMLESS
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 614
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

M66 **ENE** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000159568**

Registry ID:	635925	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	OTT,W A
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	1975 715	Well Depth:	158
Water Level:	49	Casing Depth:	158
Casing Diameter:	5	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	30
Tested Rate:	30	Draw Down:	0

Drill Log:	Not Reported	Application Date:	1982 614
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

N67
East
1 - 2 Miles
Lower

FED USGS **USGS40000052389**

Organization ID:	USGS-AZ	Organization Name:	USGS Arizona Water Science Center
Monitor Location:	C-01-05 21CAC1	Type:	Well
Description:	Not Reported	HUC:	15070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19730105
Well Depth:	165	Well Depth Units:	ft
Well Hole Depth:	165	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1993-02-24
Feet below surface:	50.70	Feet to sea level:	Not Reported
Note:	Not Reported		

M68
ENE
1 - 2 Miles
Lower

FED USGS **USGS40000052490**

Organization ID:	USGS-AZ	Organization Name:	USGS Arizona Water Science Center
Monitor Location:	C-01-05 21BBB1	Type:	Well
Description:	Not Reported	HUC:	15070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	1934
Well Depth:	57	Well Depth Units:	ft
Well Hole Depth:	57	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	3	Level reading date:	1981-03-26
Feet below surface:	47.9	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1956-12-04	Feet below surface:	51.24
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1956-01-16	Feet below surface:	48.00
Feet to sea level:	Not Reported	Note:	Not Reported

N69
East
1 - 2 Miles
Lower

AZ WELLS **AZ8000000151968**

Registry ID:	618753	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	ARLINGTON FARMS WTR,
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA

Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	1943 1 1	Well Depth:	150
Water Level:	56	Casing Depth:	150
Casing Diameter:	12	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	YES	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	250
Tested Rate:	250	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 518
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

O70
ENE
1 - 2 Miles
Lower

FED USGS **USGS40000052426**

Organization ID:	USGS-AZ	Organization Name:	USGS Arizona Water Science Center
Monitor Location:	C-01-05 21CAB	Type:	Well
Description:	Not Reported	HUC:	15070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19780527
Well Depth:	135	Well Depth Units:	ft
Well Hole Depth:	135	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	1	Level reading date:	1981-04-04
Feet below surface:	44.6	Feet to sea level:	Not Reported
Note:	Not Reported		

O71
ENE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000133914**

Registry ID:	606927	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	FOX, JACK,
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	1978 527	Well Depth:	135
Water Level:	30	Casing Depth:	115
Casing Diameter:	16	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	YES	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 5 7
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

Map ID Direction Distance Elevation	Database	EDR ID Number
72 **SSE** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000162596**

Registry ID:	630584	Well Type:	NON-EXEMPT
Well Type Group:	NON-EXEMPT	Owner Name:	ARLINGTON CANAL CO,
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	1951 1 1	Well Depth:	862
Water Level:	99	Casing Depth:	0
Casing Diameter:	0	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	YES	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	2400
Tested Rate:	2400	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1982 616
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

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73 **NE** **1 - 2 Miles** **Higher**	**AZ WELLS**	**AZ8000000173455**

Registry ID:	802217	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	TUCKER JR (TRAVIS),J
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	0
Installed:	1951 1 1	Well Depth:	87
Water Level:	50	Casing Depth:	87
Casing Diameter:	48	Casing Type:	POROUS CONCRETE
RGR Pump Data:	YES	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	25
Tested Rate:	25	Draw Down:	0
Drill Log:	Not Reported	Application Date:	1985 419
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

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74 **NE** **1 - 2 Miles** **Higher**	**AZ WELLS**	**AZ8000000057064**

Registry ID:	528557	Well Type:	EXEMPT - DOMESTIC STOCK
Well Type Group:	EXEMPT	Owner Name:	TUCKER, JOSEPH T JR,
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	136
Installed:	1990 716	Well Depth:	160
Water Level:	50	Casing Depth:	160
Casing Diameter:	12	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0

Drill Log:	X	Application Date:	1990 622
Approved:	0	Completion:	C
Well Cancelled:	Not Reported		

75
SSE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000001054**

Registry ID:	086238	Well Type:	EXEMPT
Well Type Group:	EXEMPT	Owner Name:	RLF DESERT FARMS, VII, LLC
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	11
Installed:	1981 225	Well Depth:	345
Water Level:	90	Casing Depth:	120
Casing Diameter:	12	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	SUBMERSIBLE
Pump Power:	ELECTRIC MOTOR 1 - 5 HP	Pump Rate:	25
Tested Rate:	25	Draw Down:	20
Drill Log:	Not Reported	Application Date:	19801117
Approved:	0	Completion:	Not Reported
Well Cancelled:	Not Reported		

76
ENE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000054988**

Registry ID:	527627	Well Type:	EXEMPT - DOMESTIC STOCK
Well Type Group:	EXEMPT	Owner Name:	BROWN, DON,
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	4
Installed:	1990 410	Well Depth:	140
Water Level:	41	Casing Depth:	121
Casing Diameter:	6	Casing Type:	STEEL - PERFORATED OR SLOTTED CASING
RGR Pump Data:	NO	Pump Type:	SUBMERSIBLE
Pump Power:	ELECTRIC MOTOR < 1 HP	Pump Rate:	11
Tested Rate:	11	Draw Down:	35
Drill Log:	X	Application Date:	1990 328
Approved:	0	Completion:	X
Well Cancelled:	Not Reported		

77
East
1 - 2 Miles
Lower

FED USGS **USGS40000052358**

Organization ID:	USGS-AZ	Organization Name:	USGS Arizona Water Science Center
Monitor Location:	C-01-05 21CDD2	Type:	Well
Description:	Not Reported	HUC:	15070101
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19750825

Well Depth:	150	Well Depth Units:	ft
Well Hole Depth:	150	Well Hole Depth Units:	ft

Ground water levels,Number of Measurements:	3	Level reading date:	1986-12-02
Feet below surface:	36.30	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1982-01-19	Feet below surface:	33.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-04-14	Feet below surface:	36.1
Feet to sea level:	Not Reported	Note:	Not Reported

P78
SE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000070685**

Registry ID:	541165	Well Type:	ENV - MONITOR
Well Type Group:	MONITOR	Owner Name:	ARLINGTON SCHOOL DIST #47
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	533
Installed:	1994 929	Well Depth:	25
Water Level:	10	Casing Depth:	5
Casing Diameter:	4	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	19931022
Approved:	0	Completion:	A
Well Cancelled:	Y		

P79
SE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000070686**

Registry ID:	541166	Well Type:	ENV - MONITOR
Well Type Group:	MONITOR	Owner Name:	ARLINGTON SCHOOL DIST #47
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	533
Installed:	1994 930	Well Depth:	25
Water Level:	10	Casing Depth:	5
Casing Diameter:	4	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	19931022
Approved:	0	Completion:	A
Well Cancelled:	Y		

Map ID Direction Distance Elevation	Database	EDR ID Number
P80 **SE** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000004119**

Registry ID:	202671	Well Type:	SPCL - GEOTECHNICAL
Well Type Group:	OTHER	Owner Name:	RLF DESERT FARMS, VII, LLC
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	533
Installed:	2004 324	Well Depth:	15
Water Level:	12	Casing Depth:	0
Casing Diameter:	0	Casing Type:	Not Reported
RGR Pump Data:	NO	Pump Type:	Not Reported
Pump Power:	Not Reported	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	2004 3 3
Approved:	2004 311	Completion:	Not Reported
Well Cancelled:	Not Reported		

P81 **SE** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000070684**

Registry ID:	541164	Well Type:	ENV - MONITOR
Well Type Group:	MONITOR	Owner Name:	ARLINGTON SCHOOL DIST #47
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	533
Installed:	1994 929	Well Depth:	21
Water Level:	10	Casing Depth:	6
Casing Diameter:	4	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	19931022
Approved:	0	Completion:	A
Well Cancelled:	Y		

P82 **SE** **1 - 2 Miles** **Lower**	**AZ WELLS**	**AZ8000000070687**

Registry ID:	541167	Well Type:	ENV - MONITOR OR PIEZOMETER
Well Type Group:	MONITOR	Owner Name:	ARLINGTON SCHOOL DISTRICT #47
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	533
Installed:	19941020	Well Depth:	30
Water Level:	0	Casing Depth:	28
Casing Diameter:	4	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0

Drill Log:	X	Application Date:	19931022
Approved:	0	Completion:	A
Well Cancelled:	Y		

P83
SE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000078837**

Registry ID:	550701	Well Type:	ENV - MONITOR OR PIEZOMETER
Well Type Group:	MONITOR	Owner Name:	ARLINGTON SCHOOL DISTRICT #47
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	533
Installed:	1996 4 9	Well Depth:	35
Water Level:	9	Casing Depth:	35
Casing Diameter:	4	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	1995 714
Approved:	0	Completion:	A
Well Cancelled:	Y		

P84
SE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000078838**

Registry ID:	550702	Well Type:	ENV - MONITOR OR PIEZOMETER
Well Type Group:	MONITOR	Owner Name:	ARLINGTON SCHOOL DISTRICT #47
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	533
Installed:	1996 4 9	Well Depth:	35
Water Level:	9	Casing Depth:	35
Casing Diameter:	4	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	1995 714
Approved:	0	Completion:	A
Well Cancelled:	Y		

P85
SE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000070688**

Registry ID:	541168	Well Type:	ENV - MONITOR OR PIEZOMETER
Well Type Group:	MONITOR	Owner Name:	ARLINGTON SCHOOL DISTRICT #47
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	533
Installed:	19941021	Well Depth:	30
Water Level:	0	Casing Depth:	29

Casing Diameter:	4	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	19931022
Approved:	0	Completion:	A
Well Cancelled:	Y		

P86
SE
1 - 2 Miles
Lower

AZ WELLS **AZ8000000070689**

Registry ID:	541169	Well Type:	ENV - MONITOR OR PIEZOMETER
Well Type Group:	MONITOR	Owner Name:	ARLINGTON SCHOOL DISTRICT #47
Basin:	PHOENIX AMA	Subbasin:	HASSAYAMPA
Watershed:	LOWER GILA RIVER	AMA or INA:	PHOENIX
Program:	55	Driller License #:	533
Installed:	19941020	Well Depth:	30
Water Level:	0	Casing Depth:	29
Casing Diameter:	4	Casing Type:	PLASTIC OR PVC
RGR Pump Data:	NO	Pump Type:	NO PUMP CODE LISTED
Pump Power:	NO POWER CODE LISTED	Pump Rate:	0
Tested Rate:	0	Draw Down:	0
Drill Log:	X	Application Date:	19931022
Approved:	0	Completion:	A
Well Cancelled:	Y		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for MARICOPA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for MARICOPA COUNTY, AZ

Number of sites tested: 695

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.697 pCi/L	93%	7%	0%
Living Area - 2nd Floor	3.640 pCi/L	80%	20%	0%
Basement	2.242 pCi/L	79%	21%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Riparian Vegetation Associated with Perennial Waters
Source: State Land Department
Telephone: 602-542-4094

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Arizona Well Registration Database
Source: Department of Water Resources
Telephone: 602-771-8535
The Wells database contains all wells registered in the state.

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Source: Arizona Geological Survey
Telephone: 520-770-3500
This database contains Oil and Gas wells in the State of Arizona. Includes all wells that have been permitted by the State Oil and Gas Conservation Commission (OGCC). Gas wells include natural gas, helium, and carbon dioxide wells.

RADON

State Database: AZ Radon
Source: Arizona Radiation Regulatory Agency
Telephone: 602-255-4845
State Indoor Radon Survey

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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APPENDIX E

Agency Documents

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

FIFE SYMINGTON, GOVERNOR
RANDOLPH WOOD, P.E., DIRECTOR

June 17, 1991
REF:HW91- 0349

Mr. Mike M. Marshall
Lonza, Incorporated
17-17 Route 208
Fair Lawn, New Jersey 07410

Dear Mr. Marshall:

The Arizona Department of Environmental Quality ("ADEQ"), conducted an inspection on November 23, 1987 at Baldwin Metal Processing, 355th Avenue and the Southern Pacific Railroad, Maricopa County, Arizona. The inspection was conducted in accordance with the Arizona Revised Statutes (A.R.S.) 49-921 et seq. and the Arizona Administrative Code (A.A.C.) R18-8-280.

During the facility inspection, violations of A.A.C. R18-8-201 et seq. were observed.

On April 23, 1990, ADEQ received from Lonza, Incorporated ("Lonza") a Remedial Action Plan ("RAP") regarding the former Baldwin Metal Processing facility, located at 355th Avenue and the Southern Pacific Railroad, Maricopa County, Arizona. Pursuant to the A.A.C. R18-7-108.E, ADEQ reviewed the RAP and determined that it satisfied applicable requirements of A.R.S. § 49-281 through 49-287.

On September 12, 1990, ADEQ received from Lonza a final report on the Baldwin Metal Products Site remedial action. The Department has completed its review of the report, and determined that no further action is required.

If I can be of any further assistance, please feel free to call me at (602) 257-6853.

Sincerely,

John Holt

John Holt
Compliance Officer
Waste Compliance Unit
Office of Waste Programs

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Post Office Box 600 Phoenix, Arizona 85001-0600

Recycled Paper

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
INTEROFFICE MEMORANDUM

cf - SAU00,109

DATE: November 08, 1999

TO: Baldwin Metals File

TG

FROM: Tom Lazzelle, Site Assessment Manager

SUBJECT: **No Further Investigation or Action Decision Former Priority List Site, Baldwin Metals**

Senate Bill 1452, Section 56 (F) (Session Law) requires that former Water Quality Assurance Revolving Fund (WQARF) Priority List Sites are evaluated using the current eligibility and evaluation model and either placed on the WQARF Registry or a No Further Investigation or Action decision is made for the site. Baldwin Metals is a former WQARF Priority List site.

Baldwin Metals leased a parcel of State Trust Land from the Arizona State Land Department from 1981 to 1990. The purpose of the operation was for recovering metals by a chemical leaching process. The site is located at 355th Avenue in Arlington, western Maricopa County.

Baldwin Metals began accepting and recycling Gallium rich compounds, including gallium arsenide, in 1982. Based on an Arizona Department of Environmental Quality (ADEQ) hazardous waste compliance report dated October 29, 1990, the facility violated the Arizona Hazardous Waste Compliance Act through unauthorized releases of arsenic-bearing compounds between 1982 and April, 1990. According to the ADEQ file, arsenic was detected in soil in four distinct operational areas, including scandium processing, gallium arsenide processing, septic tank and leach field areas, and the operations building. In addition to these operational areas, residuals were also identified in surface impoundments. In 1990, the ADEQ Hazardous Waste Compliance Unit (HWCU) provided direct oversight for remedial activities and is continuing to do so presently. The site and related contamination is under the jurisdiction of ADEQ HWCU; therefore, No Further Investigation or Action is necessary under WQARF. This determination does not cover conditions which are unknown to ADEQ at this time nor does it preclude ADEQ from obtaining access to the site covered by this determination. Furthermore, this determination does not prevent ADEQ from reopening the WQARF investigation or requiring remedial action upon discovery of new information about the site.

c.c. Lupe Buys

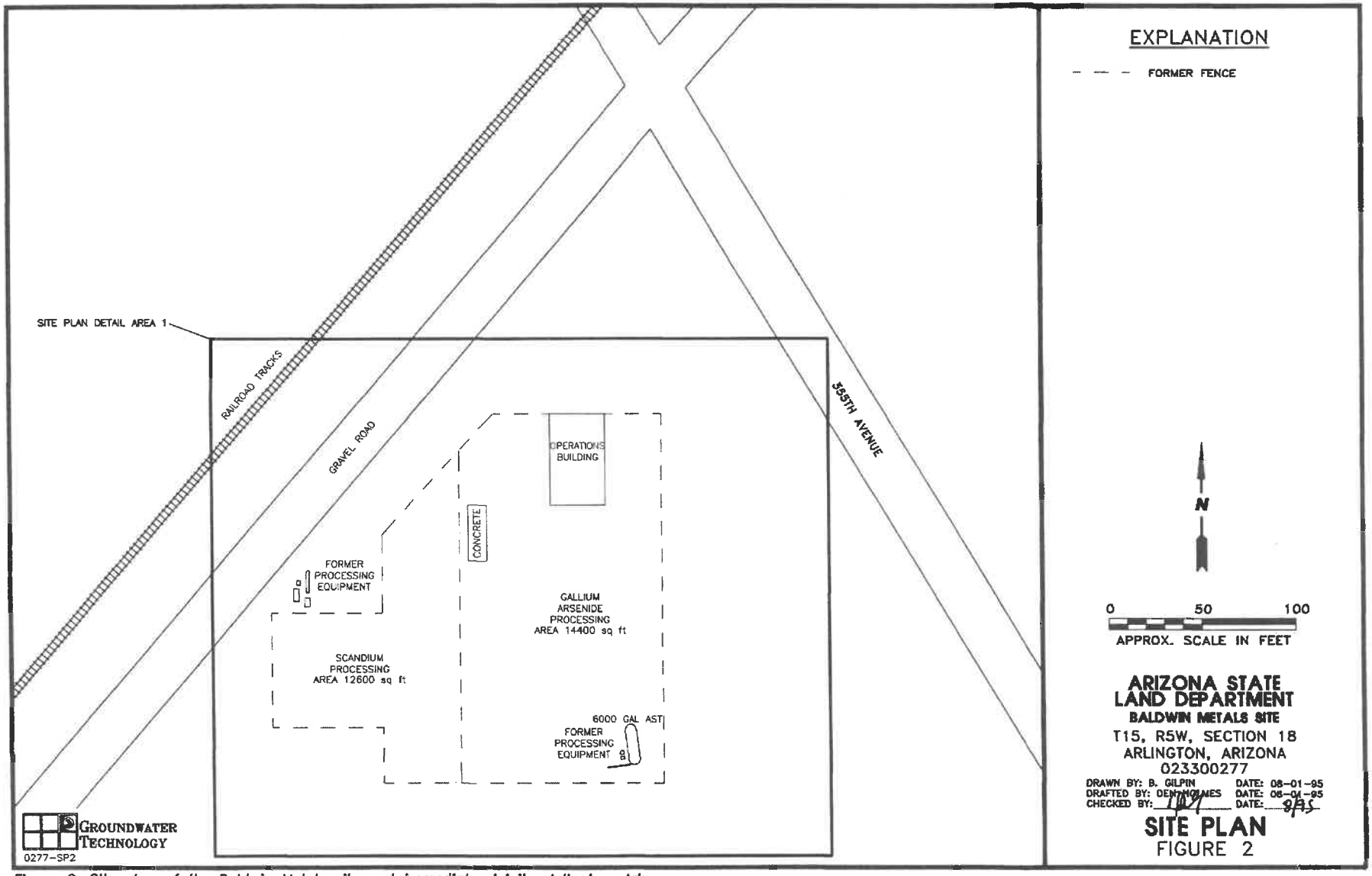


Figure 2. Site plan of the Baldwin Metals site and immediate vicinity, Arlington, Arizona.

1990 (excerpt from appendices of 1995 Site Assessment Report.)

FINAL REPORT - BALDWIN METAL PRODUCTS SITE REMOVAL ACTION

1.0 INTRODUCTION

The purpose of this report is to summarize the action taken in carrying out the Remedial Action Plan (RAP) for the Baldwin Metal Processing site (see Figures 1 & 2) located at 355th Avenue and the Southern Pacific Railroad, Maricopa County, Arizona that was submitted by Lonza, approved by the Director of ADEQ on April 24, 1990, and modified from time to time by Mr. John Holt, the ADEQ On-Scene Coordinator (OSC) for this project.

Work began on the project on April 24, 1990 and was completed on August 15, 1990. The site contractor was Chemical Waste Management, Inc. (CWM), and all removal, transportation and disposal of solid and liquid wastes, sludges, soils, debris, dust and equipment were performed by them in accordance with the procedures outlined in the RAP. More than 1000 tons (estimated to be 1272 cubic yards) were removed from the site to the CWM landfill in Kettleman Hills, California. Thirty-one drums of liquid waste were removed to CWM facilities in Kettleman Hills, California and Sulpher, Louisiana. All material, with the exception of three pieces of equipment from the scandium processing area, was removed from the site, together with an estimated 730 tons of soil.

Site work was closely monitored by Mr. John Holt of ADEQ, who approved the sampling methods and locations and obtained "splits" for retention and possible analysis.

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

Inter-Office Memorandum

October 29, 1990
H-4699.11

TO: John Holt, Compliance Officer
Hazardous Waste Compliance Unit

RECEIVED
NOV 01 1990
ADEQ COMPLIANCE

THRU: Gail Clement, Manager
UST/RCRA Hydrology Unit

FROM: Jeff Carmichael, Hydrologist
UST/RCRA Hydrology Unit

RE: Final Report Baldwin Metals Processing, Inc., Site Remediations
355th Avenue and the Southern Pacific Railroad
Maricopa County, Arizona

BACKGROUND:
Baldwin Metals Processing Inc. (BMPI) began accepting and recycling gallium rich compounds including gallium arsenide in 1982. The site is located in a sparsely populated area, four miles southeast of the Arizona Public Services Palo Verde Nuclear Power Plant with a cadastral location of (C-01-05)18.

HYDROGEOLOGY:
The facility lies just inside the Phoenix Active Management Area (AMA) of the Hassayampa sub-basin. The Hassayampa sub-basin is a broad alluvial plain drained in the south by the Centennial Wash, Hassayampa and Gila Rivers. The primary source of groundwater occurs regionally in the basin-fill sediments and locally in thin alluvium stream channels, fractures volcanic, granitic, metamorphic and sedimentant rocks. The basin-fill aquifers in the area are divided into three major units and include the upper, middle, and lower alluvium. Perched aquifers have been documented to the northwest of this facility at the Palo Verde Nuclear Power Plant within the upper alluvium and upper middle alluvium (Long, 1982).

The Arizona Department of Water Resources (ADWR) have documented regional depth to groundwater Levels that range from 19 feet below Ground Surface (bgs) near Arlington to 453 feet bgs near Tonopah (1982). While no groundwater wells exist at this facility, depth to water in a few wells within a two mile radius have been measured. The attached Appendix A list ADWR's merged files, 55 and GWSI Files which have been measured by ADWR personnel. The files document water level measurements between 35 feet to 202 feet bgs.

At this time, the most accurate method to determine depth to groundwater beneath this facility would be to complete a site specific groundwater monitor well.

SITE INVESTIGATION:
Based on the site hazardous waste inspections performed by ADEQ's, Hazardous Waste Inspections Unit, it was determined that the facility was in violation of the Arizona Hazardous Waste Management Act. Releases of arsenic bearing compounds occurred on-site between 1982 and April, 1990. Arsenic contamination at this facility occurred due to recycling practices resulting in soil, concrete and equipment contamination. Additionally, the presence of arsenic contamination was found in the facility's surface impoundments, waste piles, and solutions discharged to a septic tank and leach field. Between April 24, and August 1990, a massive remedial project to remove, transport, and dispose of solid and liquid waste found on-site was conducted. "It was estimated that more than 1000 tons of waste were removed from the site to the Chemical Waste Management Facility in Kettleman Hills, California and Sulpher, Louisiana, 730 tons of which was soil" (Chemical Waste Management, 1990). The remedial project was conducted under the oversight of the Hazardous Waste Compliance Unit.

SUMMARY OF SITE REMEDIAL ACTIVITIES:
The site can be separated into four distinct remediation areas, which include: the scandium processing area, the gallium arsenide area, the septic tank and associated leach field, and the concrete floor of the operation building.

The scandium processing area is approximately 12,600 square feet and contained two surface impoundments, a waste pile, and various processing tanks. Approximately three to six inches of soil were removed from the entire area due to arsenic contamination. The soil was manifested to a permitted hazardous waste landfill. The final total arsenic concentrations for the soil remaining on-site range from 1.7 to 16.0 mg/kg. Therefore, based on data received, it appears that the scandium processing area has been effectively remediated below the states suggested soil cleanup level for arsenic.

The gallium arsenide processing area is approximately 14,400 square feet and contains eight lined surface impoundments and various other processing tanks. This highest concentration of total arsenic in samples collected from this area was 1620.0 mg/kg. Soils in the gallium arsenide processing area were excavated to various depth during the remedial phase of the project. Soil was removed from depths between three inches and six feet in some hot spot areas. The hot spot areas were located in or near the former surface impoundments, with all soil samples collected and analyzed for total arsenic concentrations. The analytical results of these soil samples collected at six feet bgs were <2.5mg/kg for total arsenic. The soil in the remaining areas were removed to approximately 12 to 18 inches. All excavated soil was manifested off-site for disposal. Laboratory analytical results of the soil remaining on-site was analyzed for total arsenic. The

concentration of arsenic in these soils ranged from 6.9 to 40 mg/kg. Therefore, based on the data received, it appears that the gallium arsenide processing area has been effectively remediated below the states suggested soil clean-up level for arsenic.

Arsenic contamination was also discovered in the septic tank and associated leach field, with the highest concentration of total arsenic found at 161 mg/kg. The septic tank and leach field were removed with some associated soils. Soil samples were collected after remediation of this area and analyzed for total arsenic. The concentration of total arsenic ranged from 17 to 22 mg/kg. Additionally, the septic tank contents were also analyzed for volatile organic compounds (VOCs). The analytical results showed only low levels of VOCs, they were chloroform at five ug/kg, bromodichloromethane at two ug/kg, 4-methyl-2-pentanone at 17 ug/kg, and total xylenes at one ug/kg. The data indicates that the septic tank and it's associated leach field and soil have been effectively remediated below the states suggested soil cleanup levels. However, no soil samples were collected for VOCs after the removal of the septic tank, associated leach field, and soil. In review, I found no manifest that mentioned shipping the septic tank contents and contaminated soil off-site to a hazardous waste landfill. There were no F or U listed waste numbers on any of the manifests.

The concrete floor of the operations building was also contaminated with arsenic with the highest concentration of 7540 mg/kg for total arsenic. It was reported that Chemical Waste Management decontaminated the floor of the operations building several times, including taking a four inch core sample of the concrete floor. The last decontamination of the floor was conducted on August 14, 1990. Analytical results (EP Toxicity for arsenic) of the floor coring was <0.05 mg/kg. The EP Toxicity result of the coring indicates that the floor adjacent to the coring has been decontaminated. However, the report ignored one sample collected on June 19, 1990, where a total arsenic concentration of 7540 mg/kg was discovered.

CONCLUSIONS

Based on review of all the documentation, it appears that the site has been effectively remediated below the states suggested soil cleanup levels 100.0 mg/kg for arsenic but the site was not fully decontaminated to below background levels, 4.0 to 10.0 mg/kg for native soil arsenic concentrations. No soil samples were collected for VOCs beneath the septic tank. However, the VOC concentrations in the septic tank fluid were negligible. Additionally, the report is unclear about the full effectiveness of the decontamination of the concrete floor in the operations building.

However, based on the information supplied to date, the majority of arsenic contaminated materials have been effectively removed at this site. No further action is recommended at this time.

The facility should be informed that if future evidence indicates contamination at or emanating from the facility, additional investigation may be required.

cc: Al Brown, Manager
Waste Compliance Unit

Ed Csira, Team Leader
Remedial Actions Team
Hazardous Waste Compliance Unit

<u>Reference List:</u>

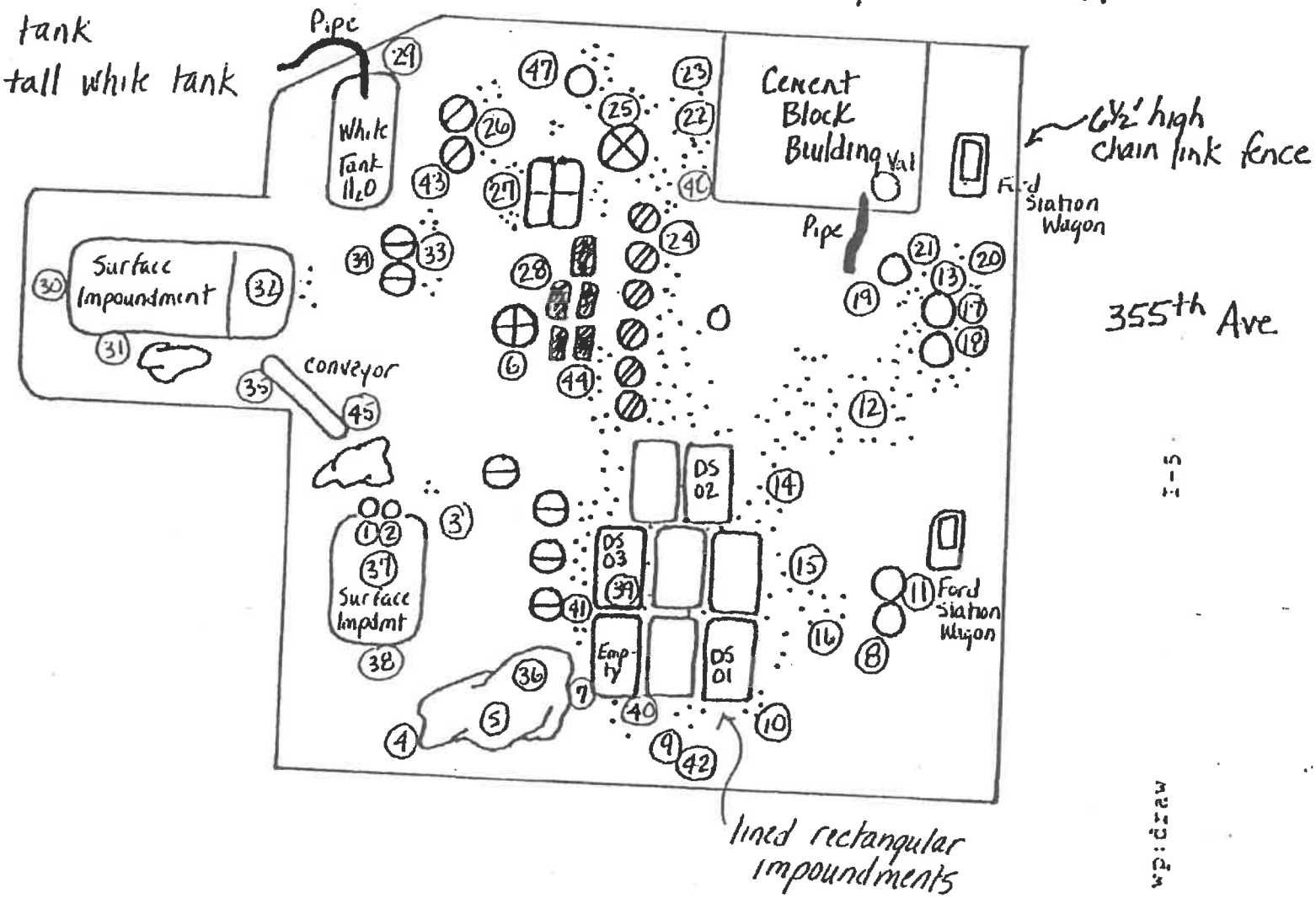
Long, M.R.; map showing groundwater conditions in the Hassayampa sub-basin of the Phoenix Active Management Area (AMA), Maricopa and Yavapai counties, Az. 1982; Report Number 10

JC/ad

7. WASTE UNIT LOCATION DRAWING

Locations are approximate
Not to Scale

= black hopper
= waste pile
= spherical tank
= ½ tank
= tank
= tall white tank
= red metal tank
= open metal vat
= plastic tank
(1) = picture number
= drum storage area
Railroad Tracks
N



I-5

wp:draw

1.0 EXECUTIVE SUMMARY

The Arizona State Land Department contracted Groundwater Technology, Inc. to perform a subsurface investigation to evaluate the distribution of arsenic-impacted soil on a parcel of State Trust land formerly leased to the Baldwin Metals Processing Company. The site is located in Section 18, Township 1 South, Range 5 West, of the Gila and Salt River Baseline and Meridian, Maricopa County, Arizona. Activities were performed under Arizona Department of Administration, Risk Management Section release number RM95-04786-01.

On November 16 and 17, 1995, Groundwater Technology drilled 44 soil borings and recovered 105 *in-situ* soil samples. Additionally, two wipe samples were obtained from the southeast portion of the former operations building floor and wall.

In situ soil samples were recovered at select intervals within the former operations area of the parcel to determine the distribution of subsurface arsenic in these areas. Four samples were collected outside of these areas to determine background or naturally occurring levels of arsenic in soil. Samples were analyzed for total arsenic using U. S. EPA method 7060.

During a 1990 investigation, background samples contained between 4.0 and 10.0 mg/Kg arsenic, with a mean arsenic value of 6.7 mg/Kg. Four samples were recovered west of the processing areas with one sample each recovered north and south of the areas. During May, 1995, another background sample, collected adjacent to the gravel road (northwest of the processing areas), contained 7.0 mg/Kg arsenic. The November, 1995 investigation identified background levels of arsenic which ranged from 1.7 to 2.5 mg/Kg, having an average background value of 2.17 mg/Kg at depths ranging from two to four feet below grade. November, 1995 samples were recovered east of the former processing areas.

Samples recovered within the former operations/processing areas contained between 1.9 and 70 mg/Kg arsenic from one to three feet below grade with 1.7 to 30 mg/Kg arsenic identified between four and eight feet below grade. Based on the analytical data, elevated residual arsenic, likely derived from the processing facility, is concentrated in the central and southwest-central portion of the former processing area. Recent and historical background data indicates that windborne arsenic may also exist west of the former processing areas.

The two wipe samples, collected from the interior concrete block wall and concrete floor of the former operations building, indicate 24 and 520 mg/Kg total arsenic remaining on the wall and floor, respectively.

7.0 SUMMARY AND CONCLUSION

Based on information contained in various files, recovered during the preliminary inspection (May, 1995) and summarized herein, investigative activities are summarized as follows:

- ADEQ's post-remedial residual arsenic concentrations in soil reportedly ranged from 1.7 (Scandium Processing Area) to 76 mg/Kg (Gallium Arsenide Processing Area), with 6.7 mg/Kg considered background;
- During the May, 1995 investigation, arsenic in near-surface arsenic in soil ranged from 1.5 to 19,000 mg/Kg. Higher detections were principally centered around the west-central and southwest-central portion of the Gallium Arsenide Processing Area;
- From one to three feet below grade, analytical data indicates arsenic concentrations of 70 mg/Kg (Scandium Processing Area) and 69 mg/Kg (Gallium Arsenide Processing Area) remain *in situ;*
- From four to six feet below grade, analytical data indicates arsenic concentrations of 15 mg/Kg (Scandium Processing Area) and 30 mg/Kg (Gallium Arsenide Processing Area) remain *in situ;*
- Up to 520 mg/Kg total arsenic was detected on the interior floor portion of the Operations Building;
- VOCs were not detected in soil borings placed proximal to the former septic system; and,
- Background levels of arsenic in soil equal 2.17 mg/Kg based on samples collected east of the former processing areas.

In conclusion, arsenic remains both in near-surface soil and at depth at the former Baldwin Metal Processing facility. Although concentrations decrease considerably with increasing depth, they remain above the background level of 2.17 mg/Kg throughout much of the site. Due to the relatively high transient population in Arizona, incidental human contact with arsenic at levels which exceed the ADHS residential soil ingestion Health-Based Guidance Level of 0.91 mg/Kg is likely.

Although ADEQ's post-remedial residual arsenic levels reportedly ranged up to 76 mg/Kg, significantly higher values have been encountered by Groundwater Technology during subsequent investigations. Based on this data, the site has not been effectively remediated and site closure should not have occurred.

GROUNDWATER TECHNOLOGY ®

Groundwater Technology, Inc.
1100 East University Drive, Suite 116, Tempe, AZ 85281 USA
Tel: (602) 966-0808 Fax: (602) 894-0955

March 29, 1996

RECEIVED
APR 01 1996

Mr. Steve Hildreth
Environmental Resource Manager
Arizona State Land Department
1616 West Adams, 3rd Floor
Phoenix, Arizona 85007

RE: Summary and recommendations for the Baldwin Metals Site, ASLD lease parcel #03- 084628.

Dear Steve:

Enclosed please find four copies of Groundwater Technology, Inc.'s March 29, 1996 report entitled: *Subsurface Assessment Report, Arizona State Land Department Baldwin Metals Site, Arlington, Arizona.* The summary and recommendations discussed herein are based upon data compiled during that (November, 1995) and previous (May, 1995) assessments conducted by Groundwater Technology, as well as the Arizona Department of Environmental Quality's (ADEQ) Remedial Projects Unit (April through August, 1990).

During ADEQ's 1990 remedial investigation, post-removal residual arsenic levels in subsurface soil in the intensive use portion of the site were as follows: 1.7 to 16 mg/Kg in the Scandium Processing Area; 6.9 to 76 mg/Kg in the Gallium Arsenide Processing Area; and 17 to 22 mg/Kg in the vicinity of the removed septic tank and leach field. Additionally, 7,540 mg/Kg arsenic was detected on the flooring surface of the abandoned operations building. Six background samples, recovered primarily west of the lease boundary, contained between 4.0 and 10.0 mg/Kg arsenic, with the median value of 6.7 mg/Kg reported.

On May 19, 1995, Groundwater Technology collected 15 samples from the Gallium Arsenide Processing Area. Sample depths ranged from one-half to two feet below grade and contained between 1.5 and 19,000 mg/Kg arsenic. One background sample, collected northwest of the lease boundary, contained 7.0 mg/Kg total arsenic. A follow-up investigation was performed by Groundwater Technology during November, 1995, which entailed the collection of 105 additional samples from 44 soil borings. The November, 1995 investigation identified between 15 and 70 mg/Kg arsenic in the Scandium Processing Area, between 30 and 69 mg/Kg arsenic in the Gallium Arsenide Processing Area, between 2.4 and 9.4 mg/Kg arsenic in the vicinity of the former septic tank and leach field, and 520 and 24 mg/Kg arsenic on flooring and wall surfaces, respectively, of the abandoned operations building. Background samples collected adjacent (east) to the lease boundary contained an average of 2.17 mg/Kg arsenic.

Based upon the technical information summarized above, combined with information gathered from the Arizona State Land Department's lease file, the ADEQ provided oversight for the removal of an estimated 1,000 tons of material from the site, of which 730 tons were soil. Arsenic values in stockpiled soil could not be ascertained based on information contained in the 1990 report. Excavated soil and the septic system were reportedly transported to Waste Management's Kettleman Hills facility for disposal, The ADEQ concluded that the site had been "effectively remediated", having residual arsenic values below the suggested soil cleanup level of 100 mg/Kg.

Data gathered during May, 1995 indicates that over 100 mg/Kg arsenic remains *in situ* at several locations on the Baldwin Metals lease, suggesting that the site was not "effectively remediated" during 1990. This information, combined with the continued presence of arsenic in the former operations building and the relatively high transient population in the area of the site, make arsenic exposure through incidental human contact likely.

Because of the preceding, and because soil along the western margin of the lease boundary probably contains artificially high arsenic due to dust (windborne) and cross-contamination (vehicular traffic), Groundwater Technology recommends a resumption of remedial activities using a preliminary remedial goal for arsenic of 2.17 mg/Kg (background). At a minimum, the immediate installation of a perimeter fence should occur to restrict site access and minimize ASLD liabilities. Groundwater Technology further recommends that 1) a workplan describing corrective actions be prepared, and 2) the ASLD perform an in-depth review of ADEQ's project files for the Baldwin Metals site.

Should you have any questions or comments regarding the information summarized above, or require assistance in developing correspondence for submittal to the ADEQ, please feel free to contact me at (602) 966-0808.

Sincerely,
Groundwater Technology, Inc.

D. Ken Greene
Project Manager

Tony L. Potucek
Arizona Operations Manager

GROUNDWATER TECHNOLOGY

PFL 2

August , 1997

XXMr. D. Kenneth Greene
Fluor Daniel GTI
1100 East University Drive
Suite 116
Tempe, Arizona 85281

RE: ASLD ENVIRONMENTAL PROJECT TASK FINALIZATION LETTER
ENV-031 BALDWIN METAL PROCESSING, INC.

ENV-031 T01.0S R05.0W S18 4000
~~BALDWIN~~ METAL PROCESSING, INC.
355TH AVENUE
ARLINGTON, AZ 85322
03-084628 23-096450

Dear Mr. Greene:

On 9/24/82, the Arizona Department of Health Services (ADHS), predecessor to the Arizona Department of Environmental Quality (ADEQ), sent a letter to Baldwin Metal Processing, Inc. (Baldwin) requesting determination of the use or generation of hazardous wastes.

On 1/25/88, the ADEQ issued a Compliance Order (D-02-88) to Baldwin.

On 4/24/90, the ADEQ approved a Remedial Action Plan, received from Lonza Incorporated, and an Agreement signed by the ADEQ, Lonza, and the Arizona State Land Department (ASLD). The Arizona Department of Administration (ADOA) approved an emergency procurement.

On 8/14/90, Chemical Waste Management, a contractor for Lonza, completed the remediation by removing 1,000 tons (1272 cubic yards) of arsenic (As) contaminated soil and 31 drums of liquid waste.

On 3/2/95, the ASLD inspected the abandoned facility and discovered several areas of probable arsenic contaminated soils based upon soil discoloration. The chain-link fence securing the site had been removed.

On 3/8/95, the ASLD submitted an ADOA Risk Management Section (RMS) Property Loss Report and recommended that the site be assessed and sampled, since use of the former operations building by trespassers had been observed.

On 7/17/95, GTI submitted a draft "Site Assessment Report," dated 7/13/95.

On 8/8/95, GTI submitted a final "Site Assessment Report," dated 8/1/95, which documented a site reconnaissance on 5/19/95, in which 16 near-surface soil samples were collected. Laboratory analysis confirmed up to 19,000 mg/kg arsenic in the samples. GTI recommended further assessment within the former gallium arsenide and scandium process area.

On 3/8/96, GTI submitted a draft "Subsurface Site Assessment Report," dated 3/7/96.

On 4/1/96, GTI submitted a final "Subsurface Site Assessment Report," dated 3/29/96, which documented the drilling of 44 soil borings and recovering 105 soil samples on 11/16&17/95. Laboratory analysis confirmed up to 70 mg/kg arsenic in the samples. An average background value of 2.17 mg/kg was calculated. Two wipe samples collected from the interior concrete block wall (24 mg/kg) and concrete floor (520 mg/kg) of the former operations building confirmed arsenic contamination. GTI stated that the site had not been effectively remediated (1990 Suggested Soil Cleanup Level < 100 mg/kg) and site closure should not have occurred.

On 4/1/96, GTI submitted a "Summary and Recommendations" letter, dated 3/29/96, which recommended installing a perimeter fence, using a preliminary remedial goal for arsenic of 2.17 mg/kg, preparing a corrective action workplan, and reviewing ADEQ's project files.

On 4/16/96, the ASLD submitted the two GTI final reports to the ADEQ for document review and requested a meeting to discuss site remediation.

On 9/4/96, the ASLD requested a recommendation from the Arizona State Museum (ASM) regarding the need for a cultural resources survey.

On 9/3/96, the ASLD Cleanup Level Review Committee (CLRC) recommended to the Land Commissioner that a fence be constructed to secure the site.

On 9/5/96, the Land Commissioner concurred with the CLRC recommendation and the ASLD requested funding from the ADOA RMS.

On 9/11/96, the ASM recommended archaeological clearance due to the previous land use.

On 4/18/97, the ADEQ stated in a letter to the ADOA RMS that the ADEQ case manager was Lee Sobchak, Remedial Projects Section.

On 7/7/97, the ADEQ stated in a letter to the ADOA RMS that a reimbursement agreement had not yet been secured. The ADEQ case manager was Lee Sobchak, Voluntary Sites Unit.

On 8/8/97, the ASLD wrote a "Project Task Finalization Letter" to GTI.

On //97,

The cost of this environmental restoration project task was $

The ASLD appreciates your assistance in completing this project task.

Sincerely,

Steven C. Hildreth
Environmental Program Specialist

c: Joe Mikitish, OAG.
Tom Zuppan, ADOA RMS. 95-04786-01. 89-74099-01.

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